

Abbott, E. A. Proceedings of the Third Thermal Infrared Multispectral Scanner (TIMS) Workshop, paper presented at Workshop held in Pasadena, CA, 22 May 1991, United States; Pasadena, CA United States United States 22 May 1991, 1991.

Abbott, E. A., A. B. Kahle, and V. J. Realmuto (1997), Development of the Kamokuma Entry, Kilauea Volcano, Hawaii, September 2-17, 1995, edited.

Abdeen, M. M., A. K. Thurmond, M. G. Abdelsalam, and R. J. Stern (2001), Application of ASTER band-ratio images for geological mapping in arid regions; the Neoproterozoic Allaqa Suture, Egypt; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 289.

Abdelsalam, M. G., J. B. Thurmond, and A. K. Thurmond (2002), Resolving lithologic and temporal contrasts of lava flows using optical-radar fusion; Erte' Ale Volcano, Ethiopia; Geological Society of America, 2002 annual meeting, *Geological Society of America, 2002 annual meeting, Denver, CO, United States, Oct. 27-30, 2002*, 34(6), 451.

Abílio de Carvalho Júnior, O., R. F. Guimarães, A. P. Ferreira de Carvalho, N. Correia da Silva, E. de Souza Martins, and R. A. Trancoso Gomes Vegetation mapping in the Parque Nacional, Brasilia (Brazil) area using advanced spaceborne thermal emission and reflection radiometer (ASTER) data and spectral identification method (SIM), paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology V, Sep 19-20 2005, 2005.

Aboelkhair, H., Y. Ninomiya, Y. Watanabe, and I. Sato (2010), Processing and interpretation of ASTER TIR data for mapping of rare-metal-enriched albite granitoids in the Central Eastern Desert of Egypt, *Journal of African Earth Sciences*, 58(1), 141-151.

Abrams, M. Natural hazards monitoring from the Advanced Spaceborne Thermal Emission and Reflection radiometer (ASTER) on NASA's Terra spacecraft, paper presented at 30th International Symposium on Remote Sensing of the Environment, 2003.

Abrams, M. The Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) on NASA's Terra spacecraft, paper presented at 30th International Symposium on Remote Sensing of the Environment, 2003.

Abrams, M. Natural hazards monitoring with ASTER data, paper presented at ASPRS Annual Conference, Anchorage, Alaska, Jet Propulsion Lab., California Inst. of Tech.; Pasadena, CA, Anchorage, AK United States, 2003.

Abrams, M. Simulation of ASTER data using AVIRIS images, paper presented at Summaries of the Third Annual JPL Airborne Geoscience Workshop. Volume 1: AVIRIS Workshop p 83-84 (SEE N94-16666 03-42); UNITED STATES, 1992.

- Abrams, M. (1995), The EOS Advanced Spaceborne Thermal Emission Reflectance Radiometer (ASTER): High Resolution Imager for Earth Science, edited.
- Abrams, M. (1999), The ASTER Imaging Sensor on NASA's Terra Platform, in *International Symposium on Spectral Sensing Research*, edited, Las Vegas, NV United States.
- Abrams, M. (2000), The Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER): data products for the high spatial resolution imager on NASA's Terra platform, *International Journal of Remote Sensing*, 21(5), 847-859.
- Abrams, M. (2000), The Avanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), in *Imaging Spectroscopy Workshop; Enschedde Netherlands*, edited.
- Abrams, M. (2003), ASTER Users Workshop, *Earth Observer*, 15(3), 17-18.
- Abrams, M., L. Alberotanza, R. M. Cavalli, V. Cuomo, S. Pignatti, and V. Tramutoli Airborne and satellite hyperspectral data over the Venice test site, paper presented at Proceedings of the Spectra Workshop, Jun 12-13 2001, European Space Agency, Noordwijk, Netherlands, 2001.
- Abrams, M., and B. Bailey (2001), Digital elevation models created from stereo terra Aster data, in *Measuring the Earth*, edited, St. Petersburg, FL United States.
- Abrams, M., B. Bailey, H. Tsu, and M. Hato (2010), The ASTER Global DEM, *Photogrammetric Engineering and Remote Sensing*, 76(4), 344-348.
- Abrams, M., and G. Bailey (2000), Evaluation of ASTER Data for Geologic Mapping in Semi-Arid Terrain, in *ERIM Geology Conference*, edited, Las Vegas, NV United States.
- Abrams, M., and S. Hook (2000), Geologic Mapping with the MODIS ASTER (MASTER) Airborne Simulator at Cuprite, Nevada, in *Conference and Workshops on Applied Geologic Remote Sensing*, edited, Las Vegas, NV United States.
- Abrams, M., and S. Hook (2000), The Master Aircraft Instrument, in *Airborne Visible Infrared Imaging Spectrometer (AVIRIS) Workshop*, edited, Pasadena, CA United States.
- Abrams, M., and S. J. Hook (1995), Simulated ASTER data for geologic studies, *IEEE Transactions on Geoscience and Remote Sensing*, 33(3), 692-699.
- Abrams, M., and A. Kahle (2000), The Advanced Spaceborne Thermal and Emission Radiometer (ASTER), in *Earsel Workshop on Imaging Spectrometry*, edited, Enschedde Netherlands.

Abrams, M., A. Kahle, and S. Hook EOS ASTER: High Resolution Imager for Earth Science, paper presented at ASPRS Annual Conference, Portland, OR United States, 1998.

Abrams, M., M. Kishino, T. Matsunaga, and M. Kato Water Quality and Temperature Mapping Using ASTER, paper presented at IGARSS 2000, Honolulu, HI United States, 2000.

Abrams, M., and H. Murakami Digital elevation models created from stereo ASTER data, paper presented at International Society for Optical Engineering 46th Annual Meeting, San Diego, CA United States, 2001.

Abrams, M., and D. Pier (2002), Volcanic hazards monitoring with ASTER data, in *9th International Symposium on Remote Sensing: Image and Signal Processing for Remote Sensing*, edited, Crete Greece.

Abrams, M., and D. Pieri Volcanic hazards monitoring with ASTER data, paper presented at IGARSS, Toulouse France, 2003.

Abrams, M., and D. Pieri (2001), Volcanic hazards monitoring with ASTER data, in *Remote Sensing*, edited, Toulouse France.

Abrams, M., V. Realmuto, D. Pieri, and L. Glaze (1993), Present and Future Remote Sensing Methods for Observing and Monitoring Volcanoes, edited.

Achard, V., S. Lesage, and L. Poutier Retrieval of atmospheric temperature and water vapour content from thermal infrared hyperspectral data in a purpose of atmospheric compensation, paper presented at Remote Sensing of Clouds and the Atmosphere XII, Sep 17-19 2007, SPIE, Bellingham WA, WA 98227-0010, United States, 2008.

Agapiou, A., G. Papadavid, and D. G. Hadjimitsis Integration of wireless sensor network and remote sensing for monitoring and determining irrigation demand in Cyprus, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology XI, September 1, 2009 - September 3, SPIE, Bellingham WA, 2009.

Ahmad, S., S. I. Hasnain, C. D. Arha, V. S. Ramamurthy, K. N. Mathur, and U. K. Bassi (2004), Analysis of satellite imageries for characterization of glacio-morphological features of the Gangotri Glacier, Ganga headwater, Garhwal Himalaya; Workshop on Gangotri Glacier; proceedings [modified], *Workshop on Gangotri Glacier, Lucknow, India, March 26-28, 2003*, 80(Journal Article), 61-67.

Ahmed, M. H., B. M. El Leithy, J. R. Thompson, R. J. Flower, M. Ramdani, F. Ayache, and S. M. Hassan (2009), Application of remote sensing to site characterisation and environmental change analysis of North African coastal lagoons, *Hydrobiologia*, 622(Journal Article), 147-171.

Ahn, H. J. (2008), Urban surface temperature retrieval from space through emissivity classification, 129-2877 pp, City University of New York; 0046 Advisor: Adviser Karl H. Szekielda.

Aiazzi, B., L. Alparone, S. Baronti, L. Santurri, and M. Selva Information-theoretic assessment of ASTER super-spectral imagery, paper presented at Image and Signal Processing for Remote Sensing XI; Bruges; Belgium; 20-22 Sept. 2005, 2005.

Aiazzi, B., L. Alparone, S. Baronti, L. Santurri, and M. Selva Spatial resolution enhancement of ASTER thermal bands, paper presented at Image and Signal Processing for Remote Sensing XI; Bruges; Belgium; 20-22 Sept. 2005, 2005.

Aizen, V. B., V. A. Kuzmichenok, E. M. Aizen, and A. B. Surazakov (2003), Tien Shan glacier's recession since the end of 19th century and during last 60 years by land instrumental, aerial photo and satellite remote sensing data, *American Geophysical Union 2003 fall meeting, San Francisco, CA, United States, Dec. 8-12, 2003*, 84(46, Suppl.), Abstract C11B-0818.

Aizen, V. B., V. A. Kuzmichenok, A. B. Surazakov, and E. M. Aizen (2006), Glacier changes in the central and northern Tien Shan during the last 140 years based on surface and remote-sensing data; Papers from the international symposium on High-elevation glaciers and climate records, *2005 international symposium on High-elevation glaciers and climate records, Lanzhou, China, Sept. 5-9, 2005*, 43(Journal Article), 202-213.

Aizen, V. B., V. A. Kuzmichenok, A. B. Surazakov, and E. M. Aizen (2007), Glacier changes in the Tien Shan as determined from topographic and remotely sensed data; Northern Eurasia regional climate and environmental change, *American Geophysical Union 2004 fall meeting, open Northern Eurasia Earth Science Partnership Initiative (NEESPI) science session, San Francisco, CA, United States, Dec. 13-17, 2004*, 56(3-4), 328-340.

Akaike, T., and Y. Yamaguchi Estimation of latent heat flux in forest areas by ASTER data, 2006.

Akamatsu, J., K. Nishimura, L. Jiang, M. Komazawa, T. Yano, K. Li, K. Nakamura, H. Morikawa, K. Sakai, and S. Udagawa (2006), 3D Basement Structure and Characteristics of Active Faults of Lijiang Basin and Its Surroundings, Yunnan Province of Northwest China, and Mechanism for Basin Genesis, *EOS Transactions, American Geophysical Union*, 87(Abstract).

Akar, I. (2009), How geographical information systems and remote sensing are used to determine morphometrical features of the drainage network of Kastro (Kasatura) Bay hydrological basin, *International Journal of Remote Sensing*, 30(7), 1737-1748.

Akasaka, A., M. Ono, Y. Sakurai, and B. Hayashida Short-wavelength infrared subsystem design status of ASTER, paper presented at Future European and

Japanese Remote-Sensing Sensors and Programs, Apr 1-2 1991, Publ by Int Soc for Optical Engineering, Bellingham, WA, USA, Orlando, FL, USA, 1991.

Akasheh, O. Z., P. H. Gowda, T. A. Howell, B. R. Scanlon, and A. French (2008), Monitoring ET over Texas High Plains using two-source model and high resolution ASTER data, *Geological Society of America, 2008 annual meeting, Houston, TX, United States, Oct. 5-9, 2008*, 40(6), 69.

Akl, P. G. (2005), Temporal change detection using ASTER and USGS digital elevation models, 43-140 pp, San Jose State University; 6265 Advisor: Adviser Richard Takera.

Akman, A. U., O. C. Kuyumcu, S. Onc, U. Z. Destegul, V. Baydar, I. Vural, K. Balci, and S. Cuhadar New geothermal resource findings around the Menderes Massif in the western Anatolia, Turkey, paper presented at Geothermal Resources Council Annual Meeting 2009, Geothermal 2009, October 4, 2009 - October 7, Geothermal Resources Council, Davis, CA, United states, 2009.

Akumu, C. E., S. Pathirana, S. Baban, and D. Bucher (2010), Monitoring coastal wetland communities in north-eastern NSW using ASTER and Landsat satellite data, *Wetlands Ecology and Management*, 18(3), 357-365.

Al Habshi, A., T. Youssef, M. Aizpuru, and F. Blasco (2007), New mangrove ecosystem data along the UAE coast using remote sensing, *Aquatic Ecosystem Health & Management*, 10(3), 309-319.

Al Saud, M. (2009), Watershed Characterization of Wadi Aurnah, Western Arabian Peninsula, *Journal of Water Resource and Protection*, 1(5), 316-324.

Al Saud, M. (2010), Mapping potential areas for groundwater storage in Wadi Aurnah Basin, western Arabian Peninsula, using remote sensing and geographic information system techniques, *Hydrogeology Journal*, 18(6), 1481-1495.

Alebachew, M., A. K. Thurmond, and M. G. Abdelsalam (2004), Optical-radar-DEM data integration for mapping morphologically-defined structures in extensional tectonic regions; examples from the Afar Depression, Ethiopia; AAPG annual meeting, *AAPG annual meeting, Dallas, TX, United States, April 18-21, 2004*, 13(Abstract), 3.

Alecu, C., N. Chrysoulakis, S. Oancea, and G. Stancalie The georeferencing errors of satellite data in remote sensing applications, paper presented at Image and Signal Processing for Remote Sensing XIII, SPIE, Bellingham WA, WA 98227-0010, United States, Florence, Italy, 2007.

Alecu, C., S. Oancea, and E. Bryant MODIS versus ASTER water classification, paper presented at Spectral Imaging: Eighth International Symposium on Multispectral Color Science, Jan 16-17 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, San Jose, CA, United States, 2006.

Alecu, C., S. Oancea, and E. Bryant Multi-Resolution Analysis of MODIS and ASTER Satellite Data for Water Classification, paper presented at Emerging and Future Technologies for Space-Based Operations Support to NATO Military Operations, 2006.

Alecu, C., S. Oancea, and E. Bryant Multi-resolution analysis of MODIS and ASTER satellite data for water classification, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology V, Sep 19-20 2005, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, Bruges, Belgium, 2005.

Alesheikh, A. A., and F. Sadeghi Naeeni Fard (2007), Design and implementation of a knowledge-based system to improve maximum likelihood classification accuracy, *Canadian Journal of Remote Sensing*, 33(6), 459-467.

Alexakis, D., A. Sarris, T. Astaras, and K. Albanakis (2009), Detection of Neolithic Settlements in Thessaly (Greece) Through Multispectral and Hyperspectral Satellite Imagery, *Sensors*, 9(2), 1167-1187.

Alexandridis, T. K., et al. Monitoring indicators for mediterranean wetland and agricultural area using ALOS data, paper presented at ALOS PI 2008 Symposium, November 3, 2008 - November 7, European Space Agency, Noordwijk, 2200 AG, Netherlands, 2008.

Alfarhan, M. S., S. M. Arafat, and M. G. Abdelsalam (2006), Interplay of Cretaceous-Quaternary faulting and folding in the south desert of Egypt; insights from remote sensing analysis; Geological Society of America, South-Central Section, 40th annual meeting, *Geological Society of America, South-Central Section, 40th annual meeting, Norman, OK, United States, March 6-7, 2006*, 38(1), 9.

Al-Hanbali, A., H. Al-Bilbisi, and A. Kondoh (2006), Monitoring the Dead Sea Area Changes Using Remote Sensing and GIS, *Journal of Japan Society of Hydrology and Water Research*, 19(6), 483-490.

Alkevli, T., B. Kocader, and K. C. Ozguner (2009), Turkiye kiyilarindaki kirliligin uazktan algilama yontemleri ile belirlenmesi (Mersin ve Iskenderun Korfezi ornegi)--Detecting coastal pollutions of Turkey with remote sensing techniques (sample from Mersin and Iskenderun Gulf), *62 Turkiye jeoloji kurultayi--62nd geological congress of Turkey, Ankara, Turkey, April 13-17, 2009*, 62(Abstract), 368-369.

Allen, S., I. Owens, and C. Huggel A first estimate of mountain permafrost distribution in the Mount Cook region of New Zealand's Southern Alps, paper presented at Ninth international conference on Permafrost, Fairbanks, AK, United States, June 29-July 3, 2008, International (III), 2008.

Allen, S., I. Owens, and P. Sirguey (2008), Satellite remote sensing procedures for glacial terrain analyses and hazard assessment in the Aoraki Mount Cook region, New Zealand, *New Zealand Journal of Geology and Geophysics*, 51(1), 73-87.

Allen, S. K., D. Schneider, and I. F. Owens (2009), First approaches towards modelling glacial hazards in the Mount Cook region of New Zealand's Southern Alps, *Natural Hazards and Earth System Sciences (NHESS)*, 9(2), 481-499.

Alley, R. (1999), Algorithm Theoretical Basis Document for: Decorrelation Stretch: Version 2.2, August 15, 1996, edited, pp. 1-19.

Alley, R., and M. Jentoft-Nilsen (1999), Algorithm Theoretical Basis Document for: Brightness Temperature, edited, pp. 1-16.

Almeida, T. I. R., C. R. De Souza Filho, and R. Rossetto (2006), ASTER and Landsat ETM+ images applied to sugarcane yield forecast, *International Journal of Remote Sensing*, 27(19), 4057-4069.

Almeida-Filho, R., F. R. S. Moreira, and C. H. Beisl (2005), The Serra da Cangalha astrobleme as revealed by ASTER and SRTM orbital data, *International Journal of Remote Sensing*, 26(5), 833-838.

Alonso-Benito, A., P. Hernandez-Leal, A. Gonzalez-Calvo, M. Arbelo, and A. Barreto Analysis of different methods for burnt area estimation using remote sensing and ground truth data, paper presented at IGARSS 2008 - 2008 IEEE International Geoscience and Remote Sensing Symposium, IEEE, Piscataway, NJ, USA, 2008.

Alphan, H., H. Doygun, and Y. I. Unlukaplan (2009), Post-classification comparison of land cover using multitemporal Landsat and ASTER imagery: the case of Kahramanmara angstrom, Turkey, *Environmental monitoring and assessment*, 151(1-4), 327-336.

Alphan, H., H. Doygun, and Y. I. Unlukaplan (2009), Post-classification comparison of land cover using multitemporal Landsat and ASTER imagery: The case of Kahramanmaras, Turkey, *Environmental monitoring and assessment*, 151(1-4), 327-336.

Altaweel, M. (2004), The land of Ashur: A study of landscape and settlement in the Assyrian heartland (Iraq), 431-2249 pp, The University of Chicago; 0330 Advisor: Adviser McGuire Gibson.

Altaweel, M. (2005), The use of ASTER satellite imagery in archaeological contexts, *Archaeological Prospection*, 12(3), 151-166.

Altobelli, A., T. Hubina, S. Sponza, and A. Sisto Effect of abiotic and biotic factors on the abundance of waterbirds in Grado-Marano Lagoon (Italy), paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology X, SPIE - The International Society for Optical Engineering, USA, 2008.

Aly, M. H., A. G. Klein, and J. R. Giardino (2003), Discrimination of rock glaciers on Nevado Sajama, Bolivia, using remote sensing; Geological Society of America, 2003 annual meeting, *Geological Society of America, 2003 annual meeting, Seattle, WA, United States, Nov. 2-5, 2003*, 35(6), 259.

Ambinakudige, S. Estimation of planimetric and volumetric changes in Gangotri Glacier in Himalayas using multi-spectral satellite images, paper presented at Association of American Geographers 2009 annual meeting, Las Vegas, NV, United States, March 22-27, 2009, Association of American Geographers, Washington, DC, United States (USA), United States (USA), 2009.

Amer, R., T. Kusky, and A. Ghulam (2010), Lithological mapping in the Central Eastern Desert of Egypt using ASTER data, *Journal of African Earth Sciences*, 56(2-3), 75-82.

Amici, S., M. F. Buongiorno, S. Corradini, S. Pugnaghi, and M. Sgavetti (2007), Airborne FTIR measurements over the Mt Etna volcano: preliminary results from the 2003 FASA campaign, *International Journal of Remote Sensing*, 28(17), 3871-3893.

Amici, S., L. Merucci, S. Pugnaghi, and S. Corradini On ground Italian volcanic area spectral characterization for the calibration/validation of remote sensing data, paper presented at Sensors, Systems, and Next-Generation Satellites X, Sep 11-13 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, 2006.

Amici, S., A. Piscini, and M. F. Buongiorno Aster temperature and emissivity validation on Volcano Teide, paper presented at 2010 30th IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Amici, S., C. Tolomei, F. Doumaz, and S. Vinci (2008), Mt. Teide and Mt. Etna volcanic rocks characterization (VIS-IR) at different scales and its organization in a spectral library, *American Geophysical Union 2008 fall meeting, San Francisco, CA, United States, Dec. 15-19, 2008*, 89(53, Suppl.), @Abstract V11C-2055.

Andermann, C., and R. Gloaguen (2009), Estimation of erosion in tectonically active orogenies. Example from the Bhotekoshi catchment, Himalaya (Nepal), *International Journal of Remote Sensing*, 30(12), 3075-3096.

Anderson, E. D., and B. W. Rockwell (2008), Energy and minerals for America's future custom tools, scripting, and tweaks; Proceedings of the U.S. Geological Survey Seventh biennial geographic information science workshopRep., 18 pp, U.S. Geological Survey, Reston, VA.

Andrews Deller, M. E. (2004), Locating dateable minerals in laterites using remote sensing; an example from Eritrea, NE Africa; Italia 2004; 32nd international geological congress; abstracts, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004*, 32(Abstract), 1324.

Andrews Deller, M. E. (2007), Space technology for disaster management; data access and its place in the community, in *Mapping hazardous terrain using remote sensing*, edited by R. M. Teeuw, pp. 149-164, Geological Society of London, London, United Kingdom (GBR).

Anon (2000), Terra satellite data verified as NASA measures rates of global change, *Optics and Photonics News*, 11(10), 8-9.

Aoki, Y., H. Ohmae, and S.-i. Kitamura Thermal infrared subsystem design status of ASTER, paper presented at Future European and Japanese Remote-Sensing Sensors and Programs, Apr 1-2 1991, Int Soc for Optical Engineering, Bellingham, WA, USA, 1991.

Aosier, B., M. Kaneko, and M. Takada Evaluation of the forest damage by typhoon using remote sensing technique, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Aosier, B., M. Kaneko, and M. Takada Comparison of NDVI of ground measurement, atmospheric corrected ASTER LIB data and ASTER surface reflectance product (AST07) data, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Aosier, B., K. Tsuchiya, and M. Kaneko Oasis and forests in Xinjiang, China retreived from aster data, paper presented at 35th COSPAR Scientific Assembly, 2004.

Aoyama, T., and O. Hiroshi Verification of heavy rain damage in Fukui Prefecture using Terra / ASTER images and DEM data, Japan, 2006.

Aoyama, T., O. Hiroshi, and T. Funaki Verification of Downpour damage in Fukui Prefecture using Terra / ASTER images, Japan, 2005.

Araar, M., M. Derbali, and J. F. Jullien (1998), Buckling of the multi-vaulted 'Aster' shell under axial compression alone or combined with an external pressure, *SOUTH KOREA*, 6(7), 827-839.

Arai, H., S. Tsuchida, and K. Thome Calibration plan and preliminary field campaign for ASTER, paper presented at Advanced and next generation satellites II; Proceedings of the Meeting, Taormina, Italy; UNITED STATES; 23-26 Sept. 1996, Bellingham, WA: Society of Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 2957), 1996.

Arai, K. Reflectance based vicarious calibration of ASTER/VNIR with aerosol refractive index and size distribution estimation using measured atmospheric polarization

irradiance, paper presented at Polarization Science and Remote Sensing IV, SPIE, 2009.

Arai, K. Radiometric performance evaluation of ASTER /VNIR and SWIR onboard Terra Satellite, Japan, 2005.

Arai, K. Method for surface temperature retrieval with ASTER/TIR, paper presented at Proceedings of the 1994 International Geoscience and Remote Sensing Symposium. Part 1 (of 4), Aug 8-12 1994, IEEE, Piscataway, NJ, USA, Pasadena, CA, USA, 1994.

Arai, K. (1996), Interactive calibration of the sensors onboard the same platform, *Advances in Space Research*, 17(1), 21-28.

Arai, K. (1997), Inflight test site cross calibration between mission instruments onboard the same platform, *Advances in Space Research*, 19(9), 1317-1324.

Arai, K. (1999), Preliminary vicarious calibration for EOS-AM1/ASTER with field campaigns, *Advances in Space Research*, Volume 23(no. 8), 1449-1457.

Arai, K. (2000), Sea surface temperature (SST) estimation accuracy assessment for ASTER/TIR - An effectiveness of 8.3  $\mu$ m of water vapour absorption band for SST retrieval, *Canadian Journal of Remote Sensing*, 26(6), 576-579.

Arai, K. (2001), Early results from the vicarious calibration of Terra/ASTER/SWIR, *Calibration and characterization of satellite sensors and accuracy of derived physical parameters*, 28(1), 77-82.

Arai, K. (2008), Nonlinear mixture model of mixed pixels in remote sensing satellite images based on Monte Carlo simulation, *Advances in Space Research*, 41(11), 1715-1723.

Arai, K., and A. Basuki (2010), A Cellular Automata Based Approach for Prediction of Hot Mudflow Disaster Area, in *Computational Science and Its Applications – ICCSA 2010*, edited, pp. 87-98, Springer, Berlin.

Arai, K., and M. Mitsuo Sensor fusion by means of wavelet Multi-Resolution Analysis: MRA, Japan, 2006.

Arai, K., S. Mukai, H. Watanabe, T. Tsukada, T. Tagawa, and S. Saga Univ. . Dept. of Information Influence due to satellite attitude jitter on estimation of Digital Elevation Model (DEM), paper presented at ESA, Environment Observation and Climate Modelling Through International Space Projects. Navigation and Mobile Communications. Image Processing, GIS, and Space-Assisted Mapping p 259-262 (SEE N93-23507 08-43); INTERNATIONAL ORGANIZATION, 1992.

Arai, K., and Y. Noriaki Evaluation of RMS error and Confidence interval depending on how to take Specimen group in Sea surface temperature estimation using ASTER /TIR Thermal InfraRed data by Regression analysis, Japan, 2003.

Arai, K., A. Ono, and Y. Yamaguchi Accuracy assessment of the interactive calibration of ASTER/TIR with MODIS, paper presented at Proceedings of the 13th Annual International Geoscience and Remote Sensing Symposium, Aug 18-21 1993, Publ by IEEE, Piscataway, NJ, USA, Tokyo, Jpn, 1993.

Arai, K., A. Ono, and Y. Yamaguchi (1994), In-flight test site calibration of EOS-AM 1 ASTER/ TIR with MODIS, *Advances in Space Research*, 14(3), 4; p. (3)227-(223)230.

Arai, K., Rokugawa, Takashima, T. Matsunaga, Tonooka, Machida, and Okada The Field Experiments for ASTER Vicarious Calibration (Part 1), Japan, 1996.

Arai, K., Y. Tateyama, and T. Yasunori An accuracy assessment of interactive calibration of ASTER /TIR with MODIS, Japan, 1993.

Arai, K., Y. Terayama, and E. K. An assessment of vicarious calibration accuracy for ASTER /VNIR, Japan, 1998.

Arai, K., K. Thome, S. Tsuchida, K. Maekawa, and H. Tonooka (2001), Early Results from the Vicarious Calibration Activities for ASTER /VNIR and SWIR in Japan, *Journal of Remote Sensing Society of Japan*, 21,NO.5(Journal Article), PAGE.431-439.

Arai, K., K. J. Thome, S. Tsuchida, T. Takashima, Y. Kawada, S. Machida, and H. Tonooka (2000), Field Experiment in Tsukuba Test Site for ASTER Vicarious Calibration. Visible to Near Infrared and Shortwave Infrared Radiometers, *Journal of Remote Sensing Society of Japan*, 20,NO. 1(Journal Article), PAGE.55-62.

Arai, K., and H. Tonooka (2005), Radiometric performance evaluation of ASTER VNIR, SWIR, and TIR, *IEEE Transactions on Geoscience and Remote Sensing*, 43(12), 2725-2732.

Arai, K., and L. XingMing Vicarious calibration of ASTER/VNIR with ground based measurements of refractive index and size distribution of aerosol, paper presented at 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Denver, CO, United States, 2006.

Arai, K., and T. Yasunori (2000), Effectiveness of 8.3.MU.m Band on Sea Surface Temperature Estimation and Its Optimum Center Wavelength Maximizing SST Estimation Accuracy, *Journal of the Japan Society of Photogrammetry and Remote Sensing*, 39,NO.4(Journal Article), PAGE.19-24.

Arakawa, Y. (2005), Terra/Advanced Space-Borne Thermal Emission and Reflection Radiometer (ASTER) application for oil and gas exploration, *AAPG 2005 annual convention, Calgary, AB, Canada, June 19-22, 2005*, 14(Abstract), A6.

Arakawa, Y., Y. Takehana, and T. Onuma (2004), Application of Terra/ASTER satellites for petroleum exploration; Abstracts from the 110th symposium of Society of Exploration Geophysicists of Japan, *110th symposium of Society of Exploration Geophysicists of Japan, Tokyo, Japan, May 25, 2004*, 57(4), 415.

Archkasov, S. N., A. A. Genike, L. A. Sinenko, and L. S. Yunoshev (1995), Metrological certification of geodetic space navigation equipment, *Geodeziya i Kartografiya (Russia)*(Journal Article), 1-12.

Arciniegas, G. A., W. Bijker, N. Kerle, and V. A. Tolpekin (2007), Coherence- and amplitude-based analysis of seismogenic damage in Bam, Iran, using ENVISAT ASAR data, *IEEE Transactions on Geoscience and Remote Sensing*, 45(6), 1571-1581.

Arellano-Baeza, A., R. Ortega-Bustamante, and F. M. Perez Study of changes in the Popocatepetl Volcano geologic deformations caused by microseismicity, by applying the lineament analysis to the ASTER (Terra) satellite images, paper presented at Earth; our changing planet; proceedings of IUGG XXIV general assembly , Perugia, ITA, Italy, July 2-13, 2007, IUGG, [location varies], International (III), International (III), 2007.

Arellano-Baeza, A. A., R. V. Garcia, M. Trejo-Soto, and A. Martinez Bringas (2009), Use of the ASTER satellite images for evaluation of structural changes in the Popocatepetl volcano related to microseismicity, *Advances in Space Research*, 43(2), 224-230.

Arellano-Baeza, A. A., A. T. Zverev, and V. A. Malinnikov (2006), Study of changes in the lineament structure, caused by earthquakes in South America by applying the lineament analysis to the Aster (Terra) satellite data, *ADVANCES IN SPACE RESEARCH*, 37(4), 690-697.

Arigony-Neto, J., H. Saurer, R. Jana, F. Rau, J. C. Simoes, and H. Gossmann (2006), Monitoring snow parameters on the Antarctic Peninsula using satellite data; a new methodological approach, *EARSeL eProceedings*, 5(1), 100-110.

Armand, N. A., V. V. Efremenko, L. Pantani, and I. Pippi Environmental monitoring in Italy by the optical sensors of the PRIRODA/MIR module, paper presented at Proc. SPIE Vol. 3221, p. 496-502, Sensors, Systems, and Next-Generation Satellites, Hiroyuki Fujisada; Ed., 1997.

Arnold, G. T., M. F. Fitzgerald, J. S. Myers, P. S. Grant, S. E. Platnick, S. Tsay, M. D. King, R. O. Green, and L. Remer MODIS Airborne Simulator radiometric calibration, paper presented at Earth observing system; Proceedings of the Conference, Denver, CO; UNITED STATES; 3-6 Aug. 1996, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, 1996.

Arrowsmith, J. R. (2005), Testing hypotheses about geologic processes in the Colorado Plateau-Basin and Range transition zone using an integrated geospatial data system; Geological Society of America, 2005 annual meeting, *Geological Society of America, 2005 annual meeting, Salt Lake City, UT, United States, Oct. 16-19, 2005*, 37(7), 204.

Arrowsmith, J. R., G. R. Keller, L. Prashad, M. Diaz, W. L. Stefanov, C. Eisinger, M. Fouch, S. Reynolds, S. M. Richard, and P. A. Pearthree (2002), A geospatial data system for the transition between the Colorado Plateau and Basin and Range Provinces; an essential tool for basic and applied research in earth science and urban ecology; Geological Society of America, 2002 annual meeting, *Geological Society of America, 2002 annual meeting, Denver, CO, United States, Oct. 27-30, 2002*, 34(6), 224.

Arsenault, K. R., A. Pinheiro, R. Stodt, D. Toll, and P. R. Houser Improving Drought Monitoring and Prediction Using LIS and Satellite Products, 2006.

Arvelyna, Y., and O. Masaki The Observation of SAR, Optical and Altimeter Data for Internal Wave Monitoring in Tsushima Strait, Japan, 2006.

Arvelyna, Y., and M. Oshima New application of wavelet transform for internal wave detection SAR and optical image: A case study in Japan waters, paper presented at OCEANS 2007 - Europe, Institute of Electrical and Electronics Engineers Computer Society, Piscataway, NJ 08855-1331, United States, Aberdeen, Scotland, United Kingdom, 2007.

Arvelyna, Y., and M. Oshima The observation of SAR, optical and altimeter data to study the generation of internal wave in tsushima strait, paper presented at Symposium on 15 years of Progress in Radar Altimetry, Mar 13-18 2006, European Space Agency, Noordwijk, 2200 AG, Netherlands, 2006.

Arvelyna, Y., and M. Oshima Wavelet analysis for internal wave detection in ERS SAR and ASTER image data, paper presented at SICE Annual Conference 2005, Aug 8-10 2005, Society of Instrument and Control Engineers (SICE), Tokyo, 113, Japan, Okayama, Japan, 2005.

Arvelyna, Y., and M. Oshima Preliminary study of internal wave effects to chlorophyll distribution in the lombok strait and adjacent areas, paper presented at Active and Passive Remote Sensing of the Oceans, Nov 8-9 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Honolulu, HI, United States, 2005.

Arvelyna, Y., M. Oshima, and Y. Arakawa Multi-satellite data observation for internal wave detection in southwest coast of Japan, paper presented at Active and Passive Remote Sensing of the Oceans, Nov 8-9 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Honolulu, HI, United States, 2005.

Arvelyna, Y., M. Oshima, and T. Sumimoto The application of wavelet transform for oceanic feature detection in SAR and optical image, paper presented at Sixth International Symposium on Instrumentation and Control Technology: Signal Analysis, Measurement Theory, Photo-Electronic Technology, and Artificial Intelligence, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, 2006.

Arzhannikova, A. V., and S. G. Arzhannikov (2008), New data on paleoseismic dislocations in the Great Lakes basin, western Mongolia, *Doklady Earth Sciences*, 418(1), 1-4.

Asaka, T., H. Nishikawa, H. Fujii, K. Kudo, K. Iwashita, T. Kondo, and Y. Yamamoto Experimental Study on Evaluation of Digital Terrain Models by Mutual DEM Data of ASTER L3A01 Data Products, 2006.

Asaki, T., H. Fukasawa, Y. Ito, M. Furuno, H. Cho, and S. y. Sueoka (2004), Copper explorations based on a satellite -image analysis technique in Northern Chile: the recent results of exploration activity, *2004 annual meeting of Japan Mining Industry Association, Tokyo, Japan, June 9-11, 2004*, 54(1), 27-36.

Asano, S., Y. Nakayama, and D. Fukada Experimental integration analysis of satellite data and disaster maps of Mt. Fuji eruption, Japan, 2005.

Asefi, S., J. Li, U. S. Nair, D. K. Ray, R. M. Welch, N. Padilla, E. Barrios, and M. E. Benedict An integrated hydrological and atmospheric model to predict malaria epidemics, paper presented at 85th AMS Annual Meeting, American Meteorological Society - Combined Preprints, Jan 9-13 2005, American Meteorological Society, Boston, MA 02108-3693, United States, San Diego, CA, United States, 2005.

Asefi, S., J. Li, U. S. Nair, D. K. Ray, R. M. Welch, N. Padilla, E. Barrios, and M. E. Benedict An integrated hydrological and atmospheric model to predict malaria epidemics, paper presented at 85th AMS Annual Meeting, American Meteorological Society - Combined Preprints, Jan 9-13 2005, American Meteorological Society, Boston, MA 02108-3693, United States, San Diego, CA, United States, 2005.

Ashida, Y. (2002), Exploration and Exploitation of Conventional and New Energy Resources in Japan, *Shigen-to-Sozai*, 118(8), 536-545.

Asner, G. P., and K. B. Heidebrecht (2002), Spectral unmixing of vegetation, soil and dry carbon cover in arid regions: Comparing multispectral and hyperspectral observations, *International Journal of Remote Sensing*, 23(19), 3939-3958.

Asner, G. P., D. E. Knapp, A. Balaji, and G. Paez-Acosta (2009), Automated mapping of tropical deforestation and forest degradation: CLASlite, *Journal of Applied Remote Sensing*, 3(Journal Article), 033543-033543.

Assiri, A., and H. Mousa Using ASTER imagery for massive sulphide deposits exploration, paper presented at 2008 Microwaves, Radar and Remote Sensing Symposium, MRSS 2008, Institute of Electrical and Electronics Engineers Computer Society, Piscataway, NJ 08855-1331, United States, 2008.

Ata, H. A. (2008), A test of the validity of morphometric analysis in determining tectonic activity from ASTER derived DEMs in the Jordan-Dead Sea Transform zone, 220-2874 pp, University of Arkansas at Fayetteville, Fayetteville, AR.

Atwood, D. K., F. Meyer, and A. Arendt (2010), Using L-band SAR coherence to delineate glacier extent, *Canadian Journal of Remote Sensing*, 36(Journal Article), S186-S195.

Auda, Y., F. Blasco, J. P. Gastellu-Etchegorry, G. Marty, and D. C. (2002), Essai preliminaire de detection des champs d'ambroisie par teledetection spatiale; Preliminary studies of the detection of Ambrosia populations by spatial remote sensing, *Revue Francaise d'Allergologie et d'Immunologie Clinique*, 42(Journal Article), 533-538.

Auda, Y., F. Blasco, J. P. Gastellu-Etchegorry, G. Marty, and C. Dechamp (2002), Preliminary studies of the detection of Ambrosia populations by spatial remote sensing, *Revue Francaise D Allergologie Et D Immunologie Clinique*, 42(5), 533-538.

Aung, T. T., Y. Okamura, K. Satake, W. Swe, T. L. Swe, H. Saw, and S. T. Tun (2006), Search For Paleoseismolgical Evidences Of Subduction-zone Earthquakes Along The Northwestern (Rakhine) Coast Of Myanmar, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Avouac, J., F. Ayoub, S. Leprince, O. Konca, D. Helmberger, C. Prentice, W. Ellsworth, and P. Hellweg (2006), Surface ruptures and rupture kinematics of the 2005, Mw 7.6 Kashmir earthquake from sub-pixel correlation of ASTER images and seismic waveforms analysis; 2006 Annual meeting, Seismological Society of America; 100th anniversary earthquake conference, *2006 Annual meeting, Seismological Society of America; 100th anniversary earthquake conference, San Francisco, CA, United States, April 18-22, 2006*, 77(2), 206.

Avouac, J. P., F. Ayoub, S. Leprince, O. Konca, and D. Helmberger Surface ruptures and rupture kinematics of the 2005, Mw 7.6 Kashmir earthquake from sub-pixel correlation of ASTER images and seismic waveforms analysis, paper presented at 100th Anniversary Earthquake Conference including the 8th U.S. National Conference on Earthquake Engineering (8NCEE), the SSA Centennial Meeting, and the OES Disaster Resistant California Conference; San Francisco, CA; USA; 18-22 Apr. 2006, Earthquake Engineering Research Institute, 499 14th St , Suite 320, Oakland, CA, 94612-1934, USA, [mailto:[eeri@eeri.org](mailto:eeri@eeri.org)], [URL:<http://www.eeri.org>], 2006.

Avouac, J.-P., F. Ayoub, S. Leprince, O. Konca, and D. V. Helmberger (2006), The 2005, Mw 7.6 Kashmir earthquake: Sub-pixel correlation of ASTER images and seismic waveforms analysis, *Earth and Planetary Science Letters*, 249(3-4), 514-528.

Ayneku, E., T. Kassawmar, and L. Tamene (2008), Applicability of ASTER imagery in mapping land use /cover as a basis for biodiversity studies in drylands of northern Ethiopia, *African Journal of Ecology*, 46(Journal Article), 19-23.

Ayoub, F., S. Leprince, R. Binet, K. W. Lewis, O. Aharonson, and J. P. Avouac Influence of camera distortions on satellite image registration and change detection applications, paper presented at 2008 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2008, IEEE, Piscataway, NJ, USA, 2008.

Azizi, H., M. A. Tarverdi, and A. Akbarpour (2010), Extraction of hydrothermal alterations from ASTER SWIR data from east Zanjan, northern Iran, *Advances in Space Research*, 46(1), 99-109.

Azizzadeh, M., S. Shahriari, and F. M. M. Alizadeh (2008), Fracture analysis of the Kuh-e Asmari Anticline using remote sensing techniques; a case study from Zagros Mountain, SW Iran, *International Journal of Geoinformatics*, 4(2), 43-50.

Baba, S., and M. Masao Local heat environmental analysis from ASTER, Japan, 2003.

Backus, D. H., C. S. Doctor, and M. E. Johnson (2007), The remote sensing of sand dunes in Baja California, Mexico; Geological Society of America, Northeastern Section, 42nd annual meeting, *Geological Society of America, Northeastern Section, 42nd annual meeting, Durham, NH, United States, March 12-14, 2007*, 39(1), 41-42.

Bagan, H., P. J. Baruah, Q. Wang, and Y. Yasuoka (2007), Cropland Area Extraction in China with Multi-Temporal MODIS Data, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 88(52).

Bagan, H., Q. Wang, M. Watanabe, S. Kameyama, and Y. Bao (2008), Land-cover classification using ASTER multi-band combinations based on wavelet fusion and SOM neural network, *Photogrammetric Engineering and Remote Sensing*, 74(3), 333-342.

Bagan, H., Q. Wang, Y. Yang, Y. Yasuoka, and Y. Bao (2007), Land cover classification using moderate resolution imaging spectrometer-enhanced vegetation index time-series data and self-organizing map neural network in Inner Mongolia, China, *Journal of Applied Remote Sensing*, 1(1), 013545.

Bagan, H., and Y. Yamagata (2010), Improved Subspace Classification Method for Multispectral Remote Sensing Image Classification, *Photogrammetric Engineering and Remote Sensing*, 76(11), 1239-1251.

Bagan, H., and Y. Yamagata (2010), Improved subspace classification method for multispectral Remote Sensing image classification, *Photogrammetric Engineering and Remote Sensing*, 76(11), 1239-1251.

Baghdadi, N., N. Gratiot, J.-P. Lefebvre, C. Oliveros, and A. Bourguignon (2004), Coastline and mudbank monitoring in French Guiana; contributions of radar and optical satellite imagery, *Canadian Journal of Remote Sensing*, 30(2), 109-122.

Baghdadi, N., and C. Oliveros (2007), Potential of ASAR /Envisat data for mud bank monitoring in French Guiana compared to ASTER imagery, *Journal of Coastal Research*, 23(6), 1509-1517.

Bahri, E. M. (2007), Caracterisation spectrale de la degradation des milieux naturels en regions semi-arides, a partir des donnees ASTER: Cas du Moyen Atlas au Maroc, 50-2618 pp, Universite du Quebec a Chicoutimi (Canada); 0862.

Bai, X., K. Xiong, Y. Li, and A. Lan (2006), Quantitative Research of the Space Dependence of Different Grades Rocky Desertification and the Factor of Population in Karst Mountain Area, *Journal of Mountain Science*, 24(2), 242-248.

Bai, X., K. Xiong, X. Su, and A. Lan (2005), THE ECOLOGICAL EFFECTS OF KARST ROCKY DESERTIFICATION LANDSCAPE AND LANDS--A Case Study in Zhenfeng County,Guizhou Province, *Carsologica Sinica*, 24(4), 276-281.

Bai, X.-h., S.-h. Tang, Q.-j. Zhu, and Y.-m. Shuai Study of Relation between Thermal Distribution and the Underground Medium in Urban Area, paper presented at 2003 IGARSS: Learning From Earth's Shapes and Colours, Jul 21-25 2003, Institute of Electrical and Electronics Engineers Inc, Toulouse, France, 2003.

Bajo, J. V., and B. Martinez-Hackert Validating and comparing results from the Tungurahua Volcano case study using TITAN 2D simulation and ASTER image, paper presented at Association of American Geographers 2009 annual meeting, Las Vegas, NV, United States, March 22-27, 2009, Association of American Geographers, Washington, DC, United States (USA), United States (USA), 2009.

Bajracharya, B., K. Uddin, N. Chettri, B. Shrestha, and S. A. Siddiqui (2010), Understanding Land Cover Change Using a Harmonized Classification System in the Himalaya A Case Study From Sagarmatha National Park, Nepal, *Mountain Research and Development*, 30(2), 143-156.

Balamurugan, G., S. Rajendran, and V. Tirukumaran (2010), Impacts of climate, topography and weathearing profile on hydrogeology and water resources assesment in semi-arid terrain. Using earth observation -1 ALI, ASTER-DEM and GIS techniques, *International Journal of Geomatics and Geosciences*, 1(2), 119-130.

Balandis, V., and I. Zolnikov (2004), GIS-modeling of geological and hydrogeochemical features of Uronai ore unit, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004, 32, Part 1(Abstract)*, 547.

Baldridge, A. M., J. D. Farmer, and J. E. Moersch Confirmation of Spectrally Interpreted Mineralogy of Badwater Basin, Death Valley, CA: Applications to Identification of

Evaporite Minerals on the Martian Surface, paper presented at General Meeting of the NASA Astrobiology Institute; 01 Apr. 2001, 2001.

Baldridge, A. M., J. D. Farmer, and J. E. Moersch (2004), Mars remote-sensing analog studies in the Badwater Basin, Death Valley, California, *Journal of Geophysical Research-E. Planets*, 109(E12), 5.

Baldridge, A. M., S. J. Hook, C. I. Grove, and G. Rivera (2009), The ASTER spectral library version 2.0, *Remote Sensing of Environment*, 113(4), 711-715.

Balick, L., and A. Gillespie (2001), Multiscale thermal-infrared measurements of the mauna loa caldera, hawaiiRep. DE2001-776327;LA-UR-01-1570, 1-8 pp, Los Alamos National Lab.; NM.

Balick, L., A. Gillespie, E. Abbott, D. Sabol, A. Kahle, C. Borel, and M. Pendergast Multiscale thermal-infrared measurements of the Mauna Loa caldera, Hawai'i, paper presented at Algorithms for Multispectral, Hyperspectral, and Ultraspectral Imagery VII, Apr 16-19 2001, Society of Photo-Optical Instrumentation Engineers, Orlando, FL, 2001.

Balick, L. K., A. P. Rodger, and W. B. Clodius Multispectral Thermal Imager Land Surface Temperature Retrieval Framework, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology V, Sep 8-10 2003, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Barcelona, Spain, 2004.

Bamber, J. (2006), Remote sensing in glaciology, in *Glacier science and environmental change*, edited by P. G. Knight, Blackwell Publishing, Oxford, United Kingdom (GBR), United Kingdom (GBR).

Baral, D. J., and R. P. Singh (2004), Use of remote sensing, DEM and geoexploration data for iron ore prospecting; Italia 2004; 32nd international geological congress; abstracts, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004*, 32(Abstract), 1324-1325.

Baral, D. J., R. P. Singh, and C. M. Knox-Robinson (2004), Using remote sensing and DEM data in iron ore prospecting; SEG 2004; Predictive mineral discovery under cover; SEG conference and exhibition; extended abstracts, *SEG 2004, Perth, West. Aust., Australia, Sept. 27-Oct. 1, 2004*, 33(Abstract), 403.

Baraldi, A., L. Durieux, D. Simonetti, G. Conchedda, F. Holecz, and P. Blonda (2010), Automatic Spectral Rule-Based Preliminary Classification of Radiometrically Calibrated SPOT-4/-5/IRS, AVHRR/MSG, AATSR, IKONOS/QuickBird/OrbView/GeoEye, and DMC/SPOT-1/-2 Imagery-Part II: Classification Accuracy Assessment, *IEEE Transactions on Geoscience and Remote Sensing*, 48(3), 1326-1354.

Baraldi, A., V. Puzzolo, P. Blonda, L. Bruzzone, and C. Tarantino (2006), Automatic spectral rule-based preliminary mapping of calibrated landsat TM and ETM+ images, *IEEE Transactions on Geoscience and Remote Sensing*, 44(9), 2563-2585.

Barbagallo, S., S. Consoli, G. D'Urso, R. G. Gaggia, and A. Toscano Remote sensing of crop water requirements in orange orchards using high spatial resolution sensors, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology V, Sep 8-10 2003, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, 2004.

Barcaza, G., M. Aniya, T. Matsumoto, and T. Aoki (2009), Satellite-Derived Equilibrium Lines in Northern Patagonia Icefield, Chile, and Their Implications to Glacier Variations, *Arctic Antarctic and Alpine Research*, 41(2), 174-182.

Barianto, D. H., L. D. Setijadji, and K. Watanabe (2007), Improving Geological Map of Soil Covered Area in Yogyakarta Region by Using FTIR and ASTER Image, Response to 2006 Earthquake, *2007 Joint Assembly; Acapulco; Mexico; 22-25 May 2007*, 88(23 Joint Assembly; Suppl.), Abstract GS23B-05.

Barrand, N. E., and T. Murray (2006), Multivariate controls on the incidence of glacier surging in the Karakoram Himalaya, *Arctic, Antarctic, and Alpine Research*, 38(4), 489-498.

Barreto, A., M. Arbelo, P. A. Hernandez-Leal, L. Nunez-Casillas, M. Mira, and C. Coll (2010), Evaluation of Surface Temperature and Emissivity Derived from ASTER Data: A Case Study Using Ground-Based Measurements at a Volcanic Site, *Journal of Atmospheric and Oceanic Technology*, 27(10), 1677-1688.

Barreto, A., M. Arbelo, L. Nuez-Casillas, P. Hernandez-Leal, A. Gonzalez-Calvo, and A. Alonso-Benito Recovering spectral emissivity with ASTER-thermal data from Tenerife Island, paper presented at Geoscience and Remote Sensing Symposium,2009 IEEE International,IGARSS 2009, IEEE, 2009.

Barreto-Neto, A. A., and C. R. de Souza Filho (2008), Application of fuzzy logic to the evaluation of runoff in a tropical watershed, *Environmental Modelling and Software*, 23(2), 244-253.

Bartholy, J., R. Pongracz, and Z. Dezso Application of satellite information to urban climatology (2003 - 12SATMET), 2003.

Basayigit, L., M. Akgul, and H. Senol (2009), Estimation of Different Soil Properties by Using Reflectance Values of TERRA-ASTER Bands, *Asian Journal of Chemistry*, 21(2), 1137-1144.

Bass, L., and V. Kuznetsov (2007), The behaviour of cloud and clear sky brightness in the vicinity of the cloud edge, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 88(52,; Suppl. Volume 1-2).

Basuki, A., T. Harsono, and K. Arai Modeling and Simulation of Hot Mudflow Movement Prediction Using Cellular Automata, paper presented at Third Asia International Conference on Modelling & Simulation, 2009. Asia Modelling Symposium 2009 (AMS '09), IEEE Computer Society, 2009.

Bawazir, A. S., M. P. Bleiweiss, Z. A. Samani, C. Almy, and T. Schmugge (2005), ASTER Observations of Water Surface Temperature for Elephant Butte Reservoir in New Mexico, *AGU Fall Meeting Abstracts*, 41(Abstract), 0393.

Bawazir, A. S., Z. Samani, M. Bleiweiss, R. Skaggs, and T. Schmugge (2009), Using ASTER satellite data to calculate riparian evapotranspiration in the Middle Rio Grande, New Mexico, *International Journal of Remote Sensing*, 30(21), 5593-5603.

Bax, G., M. Searle, and J. Frankelius (2008), The new digital geological map of Mt. Everest; based on field work and remote sensing, *33rd international geological congress, Oslo, NOR, Norway, Aug. 6-14, 2008*, 33(Abstract), Abstract 1345123.

Bayraktar, H., and B. Bayram Fuzzy logic analysis of flood disaster monitoring and assessment of damage in se anatolia turkey, paper presented at 4th International Conference on Recent Advances in Space Technologies 2009, RAST '09, June 11, 2009 - June 13, IEEE Computer Society, Istanbul, Turkey, 2009.

Beaulieu, A. (2004), Proprietes invariantes d'echelle et anisotropes de morphologies d'erosion fluviatile. Scale-invariant and anisotropic properties of fluvial erosion morphologies, Universite du Quebec a Chicoutimi, Chicoutimi, PQ, Canada (CAN), Canada (CAN).

Beaulieu, A. (2004), Scaling and anisotropic properties of erosional landforms (French text), 132-2468 pp, Universite du Quebec a Chicoutimi (Canada); 0862.

Beaulieu, A., and H. Gaonach (2002), Investigation of anisotropy over the Ethiopian Plateau with remote sensing data; a scale by scale study of the anisotropy with fast Fourier transform and 2D structure function, *American Geophysical Union 2002 fall meeting, San Francisco, CA, United States, Dec. 6-10, 2002*, 83(47), 650.

Beaulieu, A., H. Gaonac'h, and S. Lovejoy (2007), Anisotropic scaling of remotely sensed drainage basins: the differential anisotropy scaling technique, *Nonlinear Processes in Geophysics*, 14(4), 337-350.

Beck, H., G. Salvini, J. Schellekens, S. Bruijnzeel, and R. De Jeu Hydrological impacts of land cover change in the Dragonja catchment (Slovenia), paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology XI, September 1, 2009 - September 3, SPIE, Bellingham WA, 2009.

Beck, P. S. A., E. Kalmbach, D. Joly, A. Stien, and L. Nilsen (2005), Modelling local distribution of an Arctic dwarf shrub indicates an important role for remote sensing of snow cover, *Remote Sensing of Environment*, 98(1), 110-121.

Becker, D. B., M. Sultan, R. Becker, A. Milewski, F. Soliman, A. W. Abdeldayem, R. Balekai, and M. Rashed (2007), An integrated approach for the assessment of the renewable ground water resources of Sinai, Egypt, *Geological Society of America, 2007 annual meeting, Denver, CO, USA, United States, Oct. 28-31, 2007*, 39(6), 482-483.

Becker, M. W., and A. Daw (2005), Influence of lake morphology and clarity on water surface temperature as measured by EOS ASTER, *Remote Sensing of Environment*, 99(3), 288-294.

Bedell, R. (2001), Geological mapping with the ASTER Satellite; new global satellite data that is a significant leap in remote sensing geologic and alteration mapping; Regional tectonics and structural control of ore; the major gold trends of northern Nevada; proceedings and field trip guide [modified], *Geological Society of Nevada 2001 spring field trip conference, NV, United States, May 3-6, 2001*, 33(Abstract), 329-333.

Bedell, R. (2004), Remote sensing in mineral exploration, *SEG Newsletter*, 58(Journal Article), 1-13.

Bedell, R. L. (2001), ASTER satellite remote sensing; a significant leap in factual geologic mapping; *Geological Society of America, 2001 annual meeting, Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 348.

Beekhuizen, J., and K. C. Clarke (2010), Toward accountable land use mapping: Using geocomputation to improve classification accuracy and reveal uncertainty, *International Journal of Applied Earth Observation and Geoinformation*, 12(3), 127-137.

Belward, A. S., H. J. Stibig, H. Eva, F. Rembold, T. Bucha, A. Hartley, R. Beuchle, D. Khudhairy, M. Michielon, and D. Mollicone (2007), Mapping severe damage to land cover following the 2004 Indian Ocean tsunami using moderate spatial resolution satellite imagery, *Satellite Observations Related to Sumatra Tsunami and Earthquake of 26 December 2004*, 28(13), 2977-2994.

Benedix, G. K., and V. E. Hamilton (2007), Infrared (2.5 to 14mu M) reflectance microspectroscopy of meteoritic minerals in thin section, *Thirty-eighth lunar and planetary science conference, Houston, TX, United States, March 11-16, 2007*, 38(Abstract), @Abstract 1805.

Benger, S. N. Remote sensing of ecological responses to changes in the hydrological cycles of the tonle sap, Cambodia, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and

Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Benger, S. N. Remote Sensing of Vegetation Surrogates for Regolith Landform Mapping, paper presented at 2003 IGARSS: Learning From Earth's Shapes and Colours, Jul 21-25 2003, Institute of Electrical and Electronics Engineers Inc, Toulouse, France, 2003.

Benoit, C., et al. Use of geostationary satellite thermal infrared data to monitor surface exchanges at local scale over heterogeneous landscape: Application to Meteosat 8 data, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Benoit, S., W. Christelle, and d. O. Nicolas (2010), A new map of the lava flow field of Nyamulagira (D.R. Congo) from satellite imagery, *Journal of African Earth Sciences*, 58(5), 778-786.

Bentz, C. M., A. T. Politano, P. Genovez, J. A. Lorenzzetti, and M. Kampel The contribution of ASTER, CBERS, R99/SIPAM e OrbiSAR-1 data to improve the oceanic monitoring - An example of oil and frontal eddy detection, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Berendes, T., S. K. Sengupta, R. M. Welch, B. A. Wielicki, and M. Navar (1992), Cumulus cloud based height estimation from high spatial resolution Landsat data: A Hough transform approach, *IEEE Transactions on Geoscience and Remote Sensing*, 30(3), 430-443.

Bergmann, M., R. Hoff, and J. R. Ducati Espectrorradiometria e processamento de imagem ASTER para validacao de dados geologicos e de solos como contribuicao ao estabelecimento de terroirs na "Metade Sul" (RS, Brasil). Radiospectrometry and ASTER image processing to validate soil and geologic data for the development of terroirs in the "Southern Half" (Rio Grande do Sul, Brazil), paper presented at Sociedade Brasileira de Geologia; 44 degrees congresso, Curitiba, Brazil, Oct. 26-31, 2008/ Geological Society of Brazil; annals of the 44th congress, Sociedade Brasileira de Geologia, Porto Alegre, Brazil (BRA), Brazil (BRA), 2008.

Berk, A. (2008), Analytically derived conversion of spectral band radiance to brightness temperature, *Journal of Quantitative Spectroscopy and Radiative Transfer*, 109(7), 1266-1276.

Bernardin, T., E. Cowgill, R. D. Gold, B. Hamann, O. Kreylos, and A. Schmitt (2006), Interactive Mapping on Virtual Terrain Models Using RIMS (Real-time, Interactive Mapping System), *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Berry, J., C. Dacre, A. Lundgren, E. Demyanick, and D. Coulter (2008), Stepwise processing and photointerpretation; keys in using ASTER imagery for mineral indications of hydrocarbon microseepage, *AAPG 2008 annual convention & exhibition, San Antonio, TX, United States, April 19-23, 2008*(Abstract), #90078.

Berthier, E., Y. Arnaud, R. Kumar, S. Ahmad, P. Wagnon, and P. Chevallier (2007), Remote sensing estimates of glacier mass balances in the Himachal Pradesh (Western Himalaya, India), *Remote Sensing of Environment*, 108(3), 327-338.

Berthier, E., E. Schiefer, G. K. C. Clarke, B. Menounos, and F. Remy (2010), Contribution of Alaska glaciers to sea-level rise derived from satellite imagery, *Nature Geoscience*, 3(2), 92-95.

Berthier, E., and T. Toutin (2008), SPOT5-HRS digital elevation models and the monitoring of glacier elevation changes in North-West Canada and South-East Alaska, *Remote Sensing of Environment*, 112(5), 2443-2454.

Berthier, E., H. Vadon, D. Baratoux, Y. Arnaud, C. Vincent, K. L. Feigl, F. Remy, and B. Legresy (2005), Surface motion of mountain glaciers derived from satellite optical imagery, *Remote Sensing of Environment*, 95(1), 14-28.

Besler, H., A. Bolten, O. Bubenzer, A. Hilgers, and A. J. van Loon (2008), *The Great Sand Sea in Egypt; formation, dynamics and environmental change; a sediment-analytical approach*, 250 pp., Elsevier, Amsterdam-Oxford-New York, Netherlands (NLD), Netherlands (NLD).

Beukelman, G. S. (2004), Studies of Quaternary faulting along the southern margin of the western Snake River plain, Idaho using remote sensing and GIS; Geological Society of America, Rocky Mountain Section, 56th annual meeting; Geological Society of America, Cordilleran Section, 100th annual meeting, *Geological Society of America, Rocky Mountain Section, 56th annual meeting; Geological Society of America, Cordilleran Section, 100th annual meeting, Boise, ID, United States, May 3-5, 2004*, 36(4), 78-79.

Bhambri, R., and T. Bolch (2009), Glacier mapping: a review with special reference to the Indian Himalayas, *Progress in Physical Geography*, 33(5), 672-704.

Bhattarai, K., D. Conway, and M. Yousef (2009), Determinants of deforestation in Nepal's Central Development Region, *Journal of environmental management*, 91(2), 471-488.

Bianchetti, R. A., and J. P. Fairley (2007), Mineral pattern identification at two hydrothermal areas using ASTER data, *Geological Society of America, 2007 annual meeting, Denver, CO, United States, Oct. 28-31, 2007*, 39(6), 167.

Biggar, S. F., and P. N. Slater Preflight cross-calibration radiometer for Eos AM-1 platform visible and near-IR sources, paper presented at Sensor systems for the early earth observing system platforms; Proceedings of the Conference, Orlando, FL; UNITED STATES; 13-14 Apr. 1993, Bellingham, WA: Society for Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 1939), 1993.

Biggar, S. F., P. N. Slater, and D. I. Gellman (1994), Uncertainties in the in-flight calibration of sensors with reference to measured ground sites in the 0.4-1.1  $\mu$ m range, *Remote Sensing of Environment*, 48(2), 245-252.

Biggar, S. F., K. J. Thome, J. T. McCorkel, and J. M. D'Amico Vicarious calibration of the ASTER SWIR sensor including crosstalk correction, paper presented at Earth Observing Systems X, Jul 31-Aug 2 2005, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, 2005.

Biggar, S. F., K. J. Thome, P. R. Spyak, and E. F. Zalewski Solar-radiation based calibration in the range 740 to 2400 nm, paper presented at Sensors, Systems, and Next-Generation Satellites III, Sep 20-Sep 23 1999, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, 1999.

Bindschadler, R., and P. Vornberger (2005), Guiding the South Pole Traverse with ASTER imagery, *Journal of Glaciology*, 51(172), 179-180.

Binyan, Y., F. Wenjie, TaoXin, and XuXiru Study on urban heat island of Beijing using ASTER data: A quantitative remote sensing perspective, paper presented at IGARSS 2008 - 2008 IEEE International Geoscience and Remote Sensing Symposium, IEEE, Piscataway, NJ, USA, 2008.

Bishop, M. (2004), Concepts of landscape evolution illustrated by ASTER digital data; Mount Elephant-Terrinallum Volcano, Newer Volcanic Province, Victoria; Dynamic Earth; past, present and future, *17th Australian geological convention, Hobart, Tasmania, Australia, Feb. 8-13, 2004*, 73(Abstract), 253.

Bishop, M., and W. Abdalati (2004), Climate and Glaciers: Assessing with ASTER Data, edited, Nebraska Univ.; Omaha, NE.

Bishop, M. P., and J. F. Shroder, Jr. Glacier response to climate forcing in the Karakoram Himalaya, Pakistan, paper presented at Association of American Geographers 2009 annual meeting, Las Vegas, NV, United States, March 22-27, 2009, Association of American Geographers, Washington, DC, United States (USA), United States (USA), 2009.

Bishop, M. P., and J. F. Shroder (2005), Field and satellite observations of supra-glacial lake fluctuations on the Baltoro Glacier, Karakoram Himalaya, Pakistan, *American Geophysical Union 2005 fall meeting, San Francisco, CA, United States, Dec. 5-9, 2005*, 86(52, SUPPL.), @Abstract H21A-1314.

Bishop, M. P., J. F. Shroder, H. N. Bulley, U. K. Haritashya, and J. A. Olsenholter (2006), Glacier Downwasting-Altitude Patterns in the Western Himalaya, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Bishop, M. P., J. F. Shroder, Jr., U. K. Haritashya, and H. N. N. Bulley (2007), Remote sensing and GIS for alpine glacier change detection in the Himalaya, in *Mountains witnesses of global changes; research in the Himalaya and Karakoram; SHARE-Asia project*, edited by R. Baudo, G. Tartari and E. Vuillermoz, pp. 209-234.

Bishop, M. P., J. F. Shroder, U. K. Haritashya, H. N. N. Bulley, and J. A. Olsenholter Glacier fluctuations in the Nanga Parbat Himalaya, Pakistan, paper presented at Earth; our changing planet; proceedings of IUGG XXIV general assembly, Perugia, ITA, Italy, July 2-13, 2007, IUGG, [location varies], International (III), International (III), 2007.

Bistacchi, A., N. Bucceri, G. Dal Piaz, G. Dal Piaz, M. Massironi, B. Monopoli, and A. Schiavo (2004), Interpretation and processing of Aster data for geological mapping of Precambrian units in the eastern Anti-Atlas (Morocco), *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004*, 32, Part 2(Abstract), 940.

Bitelli, G., P. V. Curzi, and E. Mandanici Morphological and lithological aspects in the northeastern Libyan desert by remote sensing, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology IX, August 31, 2009 - September 3, SPIE, Bellingham WA, 2009.

Bitelli, G., and L. Gusella (2008), Remote sensing satellite imagery and risk management; image based information extraction, *Sixth international conference on Computer simulation risk analysis and hazard mitigation; risk analysis VI, Cephalonia, Greece, May 5-7, 2008*, 39(Journal Article), 149-158.

Blackwell, W. J. A neural network technique for atmospheric compensation and temperature/emissivity separation using LWIR/MWIR hyperspectral data, paper presented at Algorithms and Technologies for MultiSpectral, Hyperspectral, and Ultraspectral Imagery X, Apr 12-15 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Orlando, FL, United States, 2004.

Blanchard, S. D., J. Rogan, and D. W. Woodcock (2010), Geomorphic Change Analysis Using ASTER and SRTM Digital Elevation Models in Central Massachusetts, USA, *Giscience & Remote Sensing*, 47(1), 1-24.

Blanco, P. D., G. I. Metternicht, and H. F. Del Valle (2009), Improving the discrimination of vegetation and landform patterns in sandy rangelands: a synergistic approach, *International Journal of Remote Sensing*, 30(10), 2579-2605.

Bland, M., J. Dehn, and K. Dean (2001), Thermal Time Series of the 2000 Eruption of Bezymianny Volcano, an Attempt at Thermal Interferometry, *AGU Fall Meeting Abstracts*, 42(Abstract), 1034.

Blaszczyk, M., J. A. Jania, and J. O. Hagen (2009), Tidewater glaciers of Svalbard: Recent changes and estimates of calving fluxes, *Polish Polar Research*, 30(2), 85-142.

Blinn, C. E., R. H. Wynne, J. M. Galbraith, D. Howell, and C.-A. Houdehell (2008), Exploration and development of ASTER indices for use in digital soils mapping, *Geological Society of America, 2008 annual meeting, Houston, TX, United States, Oct. 5-9, 2008*, 40(6), 60.

Blom, R. G., D. C. Comer, A. Yatsko, D. Holcomb, and B. F. Byrd (2003), Progress on application of airborne radar and GIS to San Clemente Island archaeology; Geological Society of America, 2003 annual meeting, *Geological Society of America, 2003 annual meeting, Seattle, WA, United States, Nov. 2-5, 2003*, 35(6), 100.

Boaz, R. I. (2006), PQLX: A Software Tool to Evaluate Seismic Station Performance, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Boccardo, P., E. B. Mondino, and F. G. Tonolo Urban areas classification tests using high resolution pan-sharpened satellite images, paper presented at 2nd GRSS/ISPRS Joint Workshop on Remote Sensing and Data Fusion over Urban Areas. URBAN 2003, 22-23 May 2003, IEEE, Berlin, Germany, 2003.

Bohannon, R. G. (2009), Afghanistan, a dangerous, mysterious land whose geology is poorly known; new geologic-mapping philosophies shed light on how this complex terrane was assembled, *Geological Society of America, 2009 annual meeting, Portland, OR, USA, United States, Oct. 18-21, 2009*, 41(7), 279.

Bohme, B., F. Steinbruch, R. Gloaguen, H. Heilmeier, and B. Merkel (2006), Geomorphology, hydrology, and ecology of Lake Urema, central Mozambique, with focus on lake extent changes, *Physics and Chemistry of the Earth*, 31(15-16), 745-752.

Boken, V. K., and G. L. Easson (2005), Modeling Groundwater Depth in the Mississippi Delta Using Weather and ASTER Satellite Data, *AGU Spring Meeting Abstracts*, 34(Abstract), 02.

Bolch, T. (2007), Climate change and glacier retreat in northern Tien Shan (Kazakhstan, *Global and Planetary Change*, 56(1-2), 1-12.

Bolch, T., M. Buchroithner, T. Pieczonka, and A. Kunert (2008), Planimetric and volumetric glacier changes in the Khumbu Himal, Nepal, since 1962 using Corona, Landsat TM and ASTER data, *Journal of Glaciology*, 54(187), 592-600.

Bolch, T., M. F. Buchroithner, J. Peters, M. Baessler, and S. Bajracharya (2008), Identification of glacier motion and potentially dangerous glacial lakes in the Mt. Everest region/Nepal using spaceborne imagery, *Natural Hazards and Earth System Sciences*, 8(6), 1329-1340.

Bolch, T., and U. Kamp (2006), Glacier mapping in high mountains using DEMs, Landsat and ASTER data; Proceedings of the eighth international symposium on High mountain remote sensing cartography, *Eighth international symposium on High mountain remote sensing cartography, La Paz, Bolivia, March 21-27, 2005*, 41(Journal Article), 37-48.

Bolten, A., and O. Bubenzer (2006), New elevation data (SRTM/ASTER) for geomorphological and geoarchaeological research in arid regions; Holocene landscape development and geoarchaeological research, *30. Tagung des Deutschen Arbeitskreises fuer Geomorphologie, Heidelberg, Federal Republic of Germany, Oct. 7-8, 2004*, 142(Journal Article), 265-279.

Bolten, A., O. Bubenzer, and F. Darius (2004), Geomorphological and archeological datasets as base for the reconstruction of Holocene land use potential in arid Africa, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004*, 32, Part 2(Abstract), 950.

Bolten, A., O. Bubenzer, and F. Darius (2006), A digital elevation model as a base for the reconstruction of holocene land-use potential in arid regions, *Geoarchaeology-an International Journal*, 21(7), 751-762.

Bonnici, M., and P. Eisner Geomorphometric analysis of SRTM data voids in the Sahara, paper presented at 69th European Association of Geoscientists and Engineers Conference and Exhibition 2007 - "Securing The Future", Society of Petroleum Engineers, Richardson, TX 75083-3836, United States, 2007.

Bordi, F., S. Neeck, and C. Scolese Contribution of EOS Terra to earth science, paper presented at Sensors, Systems, and Next-Generation Satellites III, Sep 20-Sep 23 1999, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, Florence, Italy, 1999.

Bordi, F., C. J. Scolese, and S. P. Neeck EOS AM - Progress, plans, and promise, paper presented at IAF, International Astronautical Congress, 48th, Turin, Italy; INTERNATIONAL ORGANIZATION; 6-10 Oct. 1997, 1997.

Borel, C. C., W. B. Clodius, J. J. Szymanski, and J. Theiler Comparing robust and physics-based sea surface temperature retrievals for high resolution, multi-spectral thermal sensors using one or multiple looks, paper presented at Proceedings of the 1999 Algorithms for Multispectral and Hyperspectral Imagery V, Apr 5-Apr 6 1999, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, Orlando, FL, USA, 1999.

Borisova, D., H. Nikolov, M. Danov, and V. Tsanev Comparison between reflectance emittance spectra of iron-containing minerals, paper presented at 3rd International Conference on Recent Advances in Space Technologies, RAST 2007, IEEE, 2007.

Bothwell, G., G. Geller, S. Larson, A. Morrison, and D. Nichols ASTER, a multinational Earth observing concept, paper presented at SpaceOps 1992: Proceedings of the Second International Symposium on Ground Data Systems for Space Mission Operations p 45-50 (SEE N94-23832 06-66); UNITED STATES, 1993.

Bouaziz, M., A. Wijaya, and R. Gloaguen Gully erosion mapping using ASTER data and drainage network analysis in the main ETHIOPIAN rift, paper presented at Geoscience and Remote Sensing Symposium, 2009 IEEE International, IGARSS 2009, IEEE, 2009.

Bourguignon, A., G. Delpont, S. Chevrel, and S. Chabriat (2007), Detection and mapping of shrink-swell clays in SW France, using ASTER imagery, in *Mapping hazardous terrain using remote sensing*, edited by R. M. Teeuw, pp. 117-124, Geological Society of London, London, United Kingdom (GBR).

Bowman, L. J., L. Kapelanczyk, A. S. Colvin, O. Matias, and W. I. Rose (2008), Estimating thermal energy emission and eruption rates at Guatemalan volcanoes using thermal data from a FLIR camera, ASTER and MODIS data sources, *American Geophysical Union 2008 fall meeting, San Francisco, CA, United States, Dec. 15-19, 2008*, 89(53, Suppl.), @Abstract V11C-2066.

Bown, F., A. Rivera, C. Acua, G. Casassa, J. Carrasco, and F. Pellicotti Updated inventory and recent variations of glaciers at the Aconcagua Basin, central Chile, paper presented at Earth: Our Changing Planet. Proceedings of IUGG XXIV general assembly, Perugia, ITA, Italy, July 2-13, 2007, IUGG, [location varies], International (III), International (III), 2007.

Bown, F., A. Rivera, C. Acuna, and J. Jacka (2008), Recent glacier variations at the Aconcagua Basin, central Chilean Andes; Papers from the cryospheric section of the International Union of Geodesy and Geophysics meeting, *International Union of Geodesy and Geophysics meeting, Perugia, Italy, July 2-13, 2007*, 48(Journal Article), 43-48.

Boyle, D. P., J. Huntington, D. Toll, S. Bowser, D. Frevert, R. Stodt, D. Clark, K. R. Arsenault, and A. Pinhero Improving US Bureau of Reclamation Water Supply, Demand Monitoring and Forecasting Using NASA Earth Data Products for the Carson and Truckee River Basins, 2006.

Bradley, B., K. Wetherill, K. Vanderbilt, and J. Nickeson (2007), Integrating ground observations of phenology with remotely sensed measurements: A 2007 growing season experiment at Sevilleta LTER, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 88(52,; Suppl. Volume 1-2).

Braitenberg, C., G. Romeo, Q. Taccetti, and I. Nagy (2006), The very-broad-band long-base tiltmeters of Grotta Gigante (Trieste, Italy): secular term tilting and the great Sumatra-Andaman islands earthquake of December 26, 2004, *Journal of Geodynamics*, 41(1-3), 164-174.

Breitkreuz, C., H. Ehle, G. Franz, W. Reimer, and F. Schreiter (2004), Quantitative geometric analysis of phonolitic mesa flows in the Neogene Meidob volcanic field (NW Sudan) based on ASTER satellite images, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004, 32, Part 1(Abstract)*, 757.

Brenner, R., J. Lala, G. Nagle, A. Schor, and J. Turkovich (1994), Advanced information processing system: Hosting of advanced guidance, navigation and control algorithms on AIPS using ASTER (Final Report)Rep.

Breunig, F. M., L. S. Galvao, and A. R. Formaggio (2008), Detection of sandy soil surfaces using ASTER-derived reflectance, emissivity and elevation data: Potential for the identification of land degradation, *International Journal of Remote Sensing*, 29(6), 1833-1840.

Breunig, F. M., L. S. Galvao, A. R. Formaggio, and E. G. Couto (2009), The Combined use of Reflectance, Emissivity and Elevation Aster/terra Data for Tropical Soil Studies, *Revista Brasileira De Ciencia do Solo*, 33(6), 1785-1794.

Brivio, P. A., B. Petrucci, M. Boschetti, P. Carrara, M. Pepe, A. Rampini, D. Stroppiana, and P. Zaffaroni (2009), A multi-year geographic database of fire affected areas derived from satellite images in the National Parks of Italy, *Rivista Italiana Di Telerilevamento*, 41(2), 65-78.

Broadbent, E. N., D. J. Zarin, G. P. Asner, M. Pena-Claros, A. Cooper, and R. Littell (2006), Recovery of forest structure and spectral properties after selective logging in lowland Bolivia, *Ecological Applications*, 16(3), 1148-1163.

Brock, J. C., K. K. Yates, R. B. Halley, I. B. Kuffner, C. W. Wright, and B. G. Hatcher (2006), Northern Florida reef tract benthic metabolism scaled by remote sensing, *Marine Ecology-Progress Series*, 312(Journal Article), 123-139.

Brooks, A. P., J. G. Shellberg, J. Knight, and J. Spencer (2009), Alluvial gully erosion; an example from the Mitchell fluvial megafan, Queensland, Australia; Gully erosion processes; monitoring and modelling, *Fourth international symposium on Gully erosion; progress in gully erosion research, Pamplona, Spain, Sept. 17-19, 2007*, 34(14), 1951-1969.

Brooks, A. P., J. Spencer, J. G. Shellberg, J. Knight, and L. Lymburner Using remote sensing to quantify sediment budget components in a large tropical river - Mitchell River, Gulf of Carpentaria, paper presented at Sediment Dynamics in Changing Environments - 2008 Symposium of the International Commission on Continental Erosion, ICCE, December 01,2008 - December 05, IAHS Press, Christchurch, New Zealand, 2008.

Brooks, C., D. Schaub, T. A. Erickson, and R. Shuchman (2006), Detection of Wetlands Using Multi-Sensor Multi-Temporal Remote Sensing Data, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Brown, A. J., S. J. Hook, J. K. Crowley, J. S. Kargel, N. T. Bridges, A. M. Baldridge, and C. R. de Souza Filho (2007), Exploring Australian dry lake systems as terrestrial analogs for Martian acidic weathering environments, *Geological Society of America, 2007 annual meeting, Denver, CO, United States, Oct. 28-31, 2007*, 39(6), 283.

Brown, H. E., M. A. Diuk-Wasser, Y. Guan, S. Caskey, and D. Fish (2008), Comparison of three satellite sensors at three spatial scales to predict larval mosquito presence in Connecticut wetlands, *Remote Sensing of Environment*, 112(5), 2301-2308.

Brown, I., E. M. Moulard, J. Nakamura, W. Schroeder, M. Maldonado, S. S. Vasconcelos, and D. Selhorst (2007), Forest Fires in Southwestern Amazonia During 2005: Extent and Distribution in Eastern Acre State, Brazil, *2007 Joint Assembly; Acapulco; Mexico; 22-25 May 2007*, 88(25 (2007 Joint Assembly; Suppl.)), A51A-02.

Brown, M. J., A. Ivey, T. N. McPherson, D. Boswell, and E. R. Pardyjak A study of the Oklahoma City urban heat Island using ground measurements and remote sensing, paper presented at 5th Symposium on the Urban Environment, Aug 23-26 2004, American Meteorological Society, Boston, MA 02108-3693, United States, Vancouver, BC, Canada, 2004.

Bruhn, R. L., R. R. Forster, and A. L. J. Ford (2004), Field Measurements of Ice Dynamics and Glacier Morphology at Bering Glacier, *Human Dimensions of the Arctic Environment. 55th Arctic Science Conference Anchorage Session. Program and Abstracts(Abstract)*, 103.

Bruning, J. N. (2008), A digital processing and data compilation approach for using remotely sensed imagery to identify geological lineaments in hard-rock terrains; an application for groundwater exploration in Nicaragua, Michigan Technological University, Houghton, MI, United States (USA), United States (USA).

Bruno, M., C. Hurter, and R. Benhacene A solution to interface evolution issues: The multi-layer interface, paper presented at 28th Annual CHI Conference on Human Factors in Computing Systems, Association for Computing Machinery, New York, NY 10036-5701, United States, 2008.

Bubenzer, O., and A. Bolten (2008), Evaluation and combination of new elevation data (ASTER/SRTM) for geomorphological and geoarchaeological questions, *European Geosciences Union general assembly 2008, Vienna, Austria, April 13-18, 2008*, 10(Abstract), EGU2008-A-10845.

Bubenzer, O., and A. Bolten (2008), The use of new elevation data (SRTM/ASTER) for the detection and morphometric quantification of Pleistocene megadunes (draa) in the eastern Sahara and the southern Namib, *Geomorphology*, 102(2), 221-231.

Buchroithner, M. F., and T. Bolch (2007), An automated method to delineate the ice extension of the debris-covered glaciers at Mt. Everest based on ASTER imagery; Proceedings of the 9th international symposium on High mountain remote sensing cartography, *9th international symposium on High mountain remote sensing cartography, Graz, Austria, Sept. 14-15, 2006*, 43(Journal Article), 71-78.

Budde, M. E., G. B. Senay, J. P. Verdin, and J. D. Rowland (2006), Validation of a Simplified Energy Balance Model for Estimating Irrigated Cropland and Water use in Afghanistan, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Budkevitsch, P., K. Staenz, and R. Hitchcock (2004), Hyperspectral imaging in Arctic barren lands for mineral exploration, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004*, 32, Part 2(Abstract), 941-942.

Buenemann, M. (2007), Quantifying the spatio-temporal dynamics of woody plant encroachment using an integrative remote sensing, GIS, and spatial modeling approach, 468-171 pp, The University of Oklahoma; 0169 Advisor: Adviser Hans-Joachim Spaeth.

Bugmann, H., A. B. Gurung, F. Ewert, W. Haeberli, A. Guisan, D. Fagre, and A. Käppl (2007), Modeling the Biophysical Impacts of Global Change in Mountain Biosphere Reserves, *Mountain Research and Development*, 27(1), 66-77.

Buhe, A. The basic research on wetlands environmental evaluation using Terra/ASTER satellite data, paper presented at The 52nd Annual Meeting of the Ecological Society of Japan, Ecological Society of Japan, 2005.

Buhe, A., M. Kaneko, O. N., H. Mahamut, and K. Tsuchiya (2006), Extraction of Poplar (*Populus euphratica*) Forest and Tamarix (*Tamarix taklamakanensis*) Bushes in Taklamakan Desert Using Terra / ASTER Data, *Journal of Arid Land Studies*, 15, NO.4(Journal Article), PAGE.391-397.

Buhe, A., M. O. N. Kaneko, and M. Halik Extraction of Poplar *euphratica* Forest in Tarim River Basin, using Terra / ASTER satellite data, Japan, 2004.

Buhe, A., J. Ma, Q. Wang, M. Kaneko, and R. Fukuyama (2004), Scaling Transformation of Remote Sensing Digital Image with Multiple Resolutions from Different Sensors, *Acta Geographica Sinica*, 59(1), 101-110.

Buhe, A., and T. Masayuki (2005), The basic research on wetlands environmental evaluation using Terra / ASTER satellite data, *Report of Hokkaido Institute of Environmental Sciences*, NO.31(Journal Article), PAGE.57-63.

Buhe, A., K. Tsuchiya, M. Kaneko, N. Ohtaishi, and M. Halik (2007), Land cover of oases and forest in XinJiang, China retrieved from ASTER data, *Biological and Physical Processes on Land*, 39(Journal Article), 39-45.

Buheaosier, K. Tsuchiya, M. Kaneko, and S. J. Sung (2003), Comparison of image data acquired with AVHRR, MODIS, ETM + and ASTER over Hokkaido, Japan, *Calibration, Characterization of Satellite Sensors, Physical Parameters Derived from Satellite Data*, 32(11), 2211-2216.

Buheaosier, T. M., M. Kaneko, K. Tsuchiya, and H. Fukuma (2002), The Classification of Vegetation of Wetland Based on Remote Sensing Methods, Over Kushiro Wetland Hokkaido Japan, *Report of Hokkaido Institute of Environmental Sciences*, NO.29(Journal Article), PAGE.53-58.

Bull, K. F., C. J. Nye, D. J. Schneider, J. W. Vallance, and R. Wessels (2006), Timing, distribution, and character of proximal products of the 2006 eruption of Augustine Volcano, Alaska, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Bulley, H. N., M. P. Bishop, J. F. Shroder, and U. K. Haritashya (2007), Integration of Classification Tree Analyses and Spatial Metrics to Assess Changes in Supraglacial Lakes in the Karakoram Himalaya, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 88(52,; Suppl. Volume 1-2).

Burgess, P., and M. A. Murphy (2003), Geometry and kinematics of Recent deformation of the Himalayan hinterland, southwest Tibet and northwest Nepal; Geological Society of America, 2003 annual meeting, *Geological Society of America, 2003 annual meeting, Seattle, WA, United States, Nov. 2-5, 2003*, 35(6), 548.

Burnham, J. H., and R. S. Sletten (2010), Spatial distribution of soil organic carbon in northwest Greenland and underestimates of high Arctic carbon stores, *Global Biogeochemical Cycles*, 24(Journal Article), GB3012-GB3012.

Butler, J. J., S. W. Brown, R. D. Saunders, B. C. Johnson, S. F. Biggar, E. F. Zalewski, B. L. Markham, P. N. Gracey, J. B. Young, and R. A. Barnes (2003), Radiometric measurement comparison on the integrating sphere source used to calibrate the Moderate Resolution Imaging Spectroradiometer (MODIS) and the Landsat 7 Enhanced Thematic Mapper Plus (ETM+), *Journal of Research of the National Institute of Standards and Technology*, 108(3), 199-228.

Butler, J. J., H. H. Kieffer, R. A. Barnes, and T. C. Stone (2003), On-Orbit Cross-Calibration of AM Satellite Remote Sensing Instruments using the Moon, edited, p. 1.

Buyantuyev, A., and J. Wu (2010), Urban heat islands and landscape heterogeneity: linking spatiotemporal variations in surface temperatures to land-cover and socioeconomic patterns, *Landscape Ecology*, 25(1), 17-33.

Buyuksalih, G., and K. Jacobsen (2006), Generation and validation of digital elevation models based on satellite images, *Revue Francaise de Photogrammetrie et de Teledetection*(184), 17-22.

Byrne, M., U. Kamp, and T. Bolch Glacier monitoring in Ladakh and Zanskar, northwestern India, paper presented at Association of American Geographers 2009 annual meeting, Las Vegas, NV, United States, March 22-27, 2009, Association of American Geographers, Washington, DC, United States (USA), United States (USA), 2009.

Byrnes, J. M., D. C. Finnegan, S. W. Anderson, and M. S. Ramsey (2006), Analyses of Amboy Crater, Mojave Desert, California, as an analog for small Martian volcanoes; Lunar and planetary science, XXXVII; papers presented to the Thirty-seventh lunar and planetary science conference, *Thirty-seventh lunar and planetary science conference, Houston, TX, United States, March 13-17, 2006*, 37(Abstract).

Byrnes, J. M., D. C. Finnegan, M. S. Ramsey, and S. W. Anderson (2007), Multispectral analyses of Martian-analog surfaces, Amboy Crater, Mojave Desert, California; Lunar and planetary science; XXXVIII; papers presented to the Thirty-eighth lunar and planetary science conference, *Thirty-eighth lunar and planetary science conference, Houston, TX, United States, March 11-16, 2007*, 38(Abstract), @Abstract 1908.

Byrnes, J. M., M. S. Ramsey, S. W. Anderson, K. C. Prade, and D. C. Finnegan (2008), Thermal remote sensing analysis of Martian-analog volcanic surfaces, Amboy Crater, Mojave Desert, California, *Thirty-ninth lunar and planetary science, Houston, TX, United States, March 10-14, 2008*, 1391(Abstract), @Abstract 1988.

Byrnes, J. M., M. S. Ramsey, and D. A. Crown (2004), Surface unit characterization of the Mauna Ulu flow field, Kilauea Volcano, Hawai'i, using integrated field and remote sensing analyses; Volcanic observations from space; new results from the EOS Satellite instruments, *Journal of Volcanology and Geothermal Research*, 135(1-2), 169-193.

Cabrol, N. A., A. N. Hock, M. Sunagua, and E. A. Grin (2006), Evolution of aqueous habitat and life in high-altitude lakes during rapid climate change; astrobiological methods & geo and biosignatures; Lunar and planetary science, XXXVII; papers presented to the Thirty-seventh lunar and planetary science conference, *Thirty-seventh lunar and planetary science conference, Houston, TX, United States, March 13-17, 2006*, 37(Abstract).

Cahalan, R. F., A. Marshak, G. Wen, and T. Varnai (2006), How can 3D radiative transfer help correctly interpret satellite data on aerosol-cloud interactions?, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Cai, D., J. Ma, Y. Nian, S. Liu, and D.-H. Shangguan (2006), The study of glacier change using remote sensing in Mt. Muztagta, *Journal of Lanzhou University.Natural Science*, 42(1), 13-17.

Cai, G., M. Du, and Y. Xue Monitoring of seasonal change of urban heat island effect in Beijing using Aster data, paper presented at International Conference on Earth Observation Data Processing and Analysis, ICEODPA, SPIE, Bellingham WA, WA 98227-0010, United States, 2008.

Cai, G., M. Du, Y. Xue, and S. Li Analysis of an urban heat sink using thermal inertia model from ASTER data in Beijing, China, paper presented at IGARSS 2008 - 2008 IEEE International Geoscience and Remote Sensing Symposium, IEEE, Piscataway, NJ, USA, 2008.

Cai, G., X. Huang, M. Du, and Y. Liu (2010), Detection of natural oil seeps signature from SST and ATI in South Yellow Sea combining ASTER and MODIS data, *International Journal of Remote Sensing*, 31(17), 4869-4885.

Cai, G., J. Wu, Y. Xue, W. Wan, and X. Huang Oil spill detection from thermal anomaly using ASTER data in Yinggehai of Hainan, China, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Cai, Y., G. Sun, and B. Liu Mapping of water body in Poyang Lake from partial spectral unmixing of MODIS data, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Caihong, Y., W. Xiaobo, Y. Shouxun, and X. Chunsheng Information extraction of red clay and siliceous limestone in red clay-type gold deposit in southwestern Guizhou, China, using short-wave infrared reflectance data of ASTER, paper presented at 18th International Conference on Geoinformatics, 18-20 June, 2010, Beijing, China, 2010.

Calvin, W., M. Coolbaugh, and R. G. Vaughan (2002), Thermal infrared remote sensing for geothermal site characterization; Geological Society of America, 2002 annual meeting, *Geological Society of America, 2002 annual meeting, Denver, CO, United States, Oct. 27-30, 2002*, 34(6), 551.

Calvin, W., M. F. Coolbaugh, R. G. Vaughan, and R. G. Bloomquist Geothermal site characterization using multi- and hyperspectral imagery; Geothermal energy; the baseload renewable resource, paper presented at Geothermal Resources Council 2002 annual meeting, Reno, NV, United States, Sept. 22-25, 2002, GRC - Geothermal Resources Council, Davis, CA, United States (USA), United States (USA), 2002.

Calvin, W. M., and J. D. Shoffner (2009), Remote sensing image analysis at Leviathan Mine, CA; a sedimentary sulfate Mars analog site, *Fortieth lunar and planetary science conference, Houston, TX, USA, United States, March 23-27, 2009*, 1468(Abstract), 1210.

Calvin, W. M., R. G. Vaughan, C. Kratt, and J. D. Shoffner (2007), Mapping sulfate systems using advanced remote sensing techniques, *Geological Society of America, 2007 annual meeting, Denver, CO, United States, Oct. 28-31, 2007*, 39(6), 282.

Camargo, F. F., T. G. Florenzano, C. M. de Almeida, and C. G. de Oliveira (2009), Geomorphological mapping using object-based analysis and ASTER DEM in the Paraiba do Sul Valley, Brazil, *International Journal of Remote Sensing*, 30(24), 6613-6620.

Camargo, F. F., T. G. Florenzano, C. M. De Almeida, C. G. De Oliveira, and R. Q. Feitosa (2009), Object-Based Analysis and ASTER/Terra Data for Classifying Relief Units, *Boletim De Ciencias Geodesicas*, 15(1), 81-102.

Cammalleri, C., G. Ciraolo, and M. Minacapilli Spatial sharpening of land surface temperature for daily energy balance applications, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology X, SPIE - The International Society for Optical Engineering, USA, 2008.

Campion, R., G. G. Salerno, P.-F. Coheur, D. Hurtmans, L. Clarisse, K. Kazahaya, M. Burton, T. Caltabiano, C. Clerbaux, and A. Bernard (2010), Measuring volcanic degassing of SO<sub>2</sub> in the lower troposphere with ASTER band ratios, *Journal of Volcanology and Geothermal Research*, 194(1-3), 42-54.

Canisius, F., K. Honda, and M. Tokunaga (2009), Updating geomorphic features of watersheds and their boundaries in hazardous areas using satellite synthetic aperture radar, *International Journal of Remote Sensing*, 30(22), 5919-5933.

Cao, D., A. Wang, Y. Guan, and G. Wang (2009), Multidirectional and multiscale edge analysis of potential field data, *Geological Society of America, 2009 annual meeting, Portland, OR, USA, United States, Oct. 18-21, 2009*, 41(7), 278-279.

Cao, X., A. Onishi, J. Chen, and H. Imura (2010), Quantifying the cool island intensity of urban parks using ASTER and IKONOS data, *Landscape and Urban Planning*, 96(4), 224-231.

Capolongo, D., M. Marangi, F. Albanese, and L. Pennetta (2008), Modelli digitali del terreno tratti da immagini satellitari; analisi e validazione dei DEM ASTER per applicazioni geomorfologiche. Digital terrain models from satellite imagery; analysis and validation of ASTER DEMs for geomorphologic applications, *Analisi geoambientale, cartografia geomorfologica e tecniche GIS per la gestione del territorio. Geoenvironmental analysis, geomorphological mapping and GIS techniques for land management*, 78(Journal Article), 31-47.

Capolongo, D., A. Petroselli, F. Nardi, E. R. Vivoni, and S. Grimaldi (2006), Evaluation of ASTER DEM for hydro-geomorphological applications, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Capolsini, P., S. Andrefouet, C. Rion, and C. Payri (2003), A comparison of Landsat ETM+, SPOT HRV, Ikonos, ASTER, and airborne MASTER data for coral reef habitat mapping in South Pacific islands, *Canadian Journal of Remote Sensing*, 29(2), 187-200.

Capra, L. (2006), Volcanic natural dams associated with sector collapses; textural and sedimentological constrains on their stability, *Italian Journal of Engineering Geology and Environment (Testo Stampato)*, 2006, Special(Journal Article), 157-163.

Capra, L., N. Davila, G. Norini, J. C. Gavilanes, and N. Varley Recent lahars at Volcano de Colima (Mexico); origin and hazard evaluation, paper presented at Earth; our changing planet; proceedings of IUGG XXIV general assembly , Perugia, ITA, Italy, July 2-13, 2007, IUGG, [location varies], International (III), 2007.

Carpenter, P. J., A. Ding, L. Cheng, E. Sturnfield, P. Liu, and F. Chu (2009), Use of geophysics, SRTM and remote sensing to characterize groundwater contamination from oil shale wastes in south China, *2009 AAPG annual convention, Denver, CO, United States, June 7-10, 2009*, 16(2), 108-109.

Carruba, S., C. R. Perotti, M. Rinaldi, F. Zucca, A. Cotti, and L. M. Gaudenzi Structural analysis of the Al Qarqaf Arch (Libya) by remote sensing of satellite data, paper presented at Riunione annuale del Gruppo Italiano di Geologia Strutturale, Spoleto, Italy, Feb. 21-22, 2005, Societa Geologica Italiana, Rome, Italy (ITA), Italy (ITA), 2005.

Carter, A., M. Ramsey, O. Girina, A. Belousov, A. Durant, I. Skilling, and A. Wolfe (2008), Spaceborne and field-based observations of Bezymianny Volcano, Kamchatka from 2000- 2008, *AGU Fall Meeting Abstracts*, 43(Abstract), 2140.

Carter, A. J. (2008), Quantitative thermal infrared analyses of volcanic processes and products; application to Bezymianny Volcano, Russia, 195-195 pp, University of Pittsburgh, Pittsburgh, PA, United States (USA), United States (USA).

Carter, A. J., O. Girina, M. S. Ramsey, and Y. V. Demyanchuk (2008), ASTER and field observations of the 24 December 2006 eruption of Bezymianny Volcano, Russia, *Remote Sensing of Environment*, 112(5), 2569-2577.

Carter, A. J., and M. S. Ramsey (2009), ASTER- and field-based observations at Bezymianny Volcano: Focus on the 11 May 2007 pyroclastic flow deposit, *Remote Sensing of Environment*, 113(10), 2142-2151.

Carter, A. J., M. S. Ramsey, A. Belousov, R. Wessels, and J. Dehn (2005), The January 2005 eruption of Bezymianny Volcano, Russia: Comparing ground and

airborne thermal camera images to rapid-response ASTER satellite data, *AGU Fall Meeting Abstracts v. 31, vol. 86(52, Suppl.)*, Abstract V31A-0604.

Carter, A. J., M. S. Ramsey, and A. B. Belousov (2007), Detection of a new summit crater on Bezymianny Volcano lava dome: satellite and field-based thermal data, *Bulletin of Volcanology*, 69(7), 811-815.

Carter, A. J., M. S. Ramsey, A. J. Durant, and I. P. Skilling (2006), Multitemporal Three Dimensional Imaging of Volcanic Products on the Macro- and Micro- Scale, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.), V53B-1752.

Carter, A. J., M. S. Ramsey, A. J. Durant, I. P. Skilling, and A. Wolfe (2009), Micron-scale roughness of volcanic surfaces from thermal infrared spectroscopy and scanning electron microscopy, *Journal of Geophysical Research-Solid Earth*, 114(Journal Article), B02213-B02213.

Carter, A. J., M. S. Ramsey, and O. Girina (2007), Explosive eruption at Bezymianny Volcano, Russia, captured by satellite data, *2007 Joint Assembly; Acapulco; Mexico; 22-25 May 2007*, 88(25 (2007 Joint Assembly; Suppl.)), V23A-11.

Carter, A. J., M. S. Ramsey, and S. M. van Manen (2007), Thermal infrared investigation of the pyroclastic flow deposits and dome region of Bezymianny volcano, Kamchatka, Russia, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 21; 88(52, Suppl. Volume 1-2), 0386.

Cascorbi, U. (2007), Integration of invasion ecology theories into the analysis of designed plant communities : a case study in Southern Germany, *Landscape Ecology*, 22(Journal Article), 1371-1381.

Casillas, H. A., Jr. (2004), A geophysical study of the Uncompaghre Uplift, Colorado and Utah; Geological Society of America, South-Central Section, 38th annual meeting, *Geological Society of America, South-Central Section, 38th annual meeting, College Station, TX, United States, March 15-16, 2004*, 36(1), 27-28.

Casillas, H. A., and G. R. Keller (2004), A geophysical study of the Uncompaghre Uplift, Colorado and Utah; AAPG Southwest Section meeting; abstracts, *AAPG Southwest Section meeting, El Paso, TX, United States, March 6-9, 2004*, 2004(Abstract), @unpaginated.

Celerier, J., L. Elliott, K. Harper, and A. Petts (2002), Neotectonics in the northern Flinders Ranges, South Australia, the structural, sedimentary, and geomorphology evidence, *16th Victorian universities earth sciences conference, Melbourne, Victoria, Australia, Sept. 11, 2002*, 69(Abstract), 44.

Centeno, A. P., S. B. A. Rolim, M. d. F. Bitencourt, D. B. Knijnik, E. Fontana, and T. R. Gregory Contribuicao dos produtos do sensor ASTER na caracterizacao geologica da regiao de Quiteria, Serra do Erval, RS. ASTER instruments for the geologic

characterization of the Quiteria area, Serra do Erval, Rio Grande do Sul, paper presented at Sociedade Brasileira de Geologia; 44 degrees congresso, Curitiba, Brazil, Oct. 26-31, 2008/ Geological Society of Brazil; annals of the 44th congress, Sociedade Brasileira de Geologia, Porto Alegre, Brazil (BRA), Brazil (BRA), 2008.

Cerrillo, R. M. N., A. Hayas, A. Garcia-Ferrer, R. H. Clemente, P. Duhalde, and L. Gonzalez (2008), Characteristics of areas affected by fire in 2005 at Parque Nacional de Torres del Paine (Chile) as assessed from multispectral images, *Revista Chilena De Historia Natural*, 81(1), 95-110.

Ceyhun, O., and A. Yalcin (2010), Remote sensing of water depths in shallow waters via artificial neural networks, *Estuarine Coastal and Shelf Science*, 89(1), 89-96.

Chalmers, D., J. Fredley, and C. Scott The Earth Observing System AM Spacecraft - Thermal Control Subsystem, paper presented at AIAA, Thermophysics Conference, 28th, Orlando, FL; UNITED STATES; 6-9 July 1993, United States; Orlando, FL United States United States July 6-9, 1993 14 p., 1993.

Chang, T.-Y., Y.-A. Liou, C.-Y. Lin, S.-C. Liu, and Y.-C. Wang (2010), Estimating the water budget of major US river basins via remote sensing, *International Journal of Remote Sensing*, 31(14), 3885-3898.

Chang, Y. L., C. C. Han, K. C. Fan, K. S. Chen, and J. H. Chang Modular eigen subspace scheme for high-dimensional data classification with NASA MODIS/ASTER (MASTER) airborne simulator data sets of Pacrim II project, paper presented at Imaging Spectrometry VIII, Seattle, WA; UNITED STATES; 8-10 July 2002, the International Society for Optical Engineering Proceedings of SPIE, the International Society for Optical Engineering, 2002.

Chang, Y.-L., C.-T. Chen, C.-C. Han, K.-C. Fan, K. S. Chen, and J.-H. Chang Hyperspectral and SAR Imagery Data Fusion with Positive Boolean Function, paper presented at Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery IX, Apr 21-24 2003, The International Society for Optical Engineering, Orlando, FL, United States, 2003.

Chang, Y.-L., Z.-M. Chen, J.-P. Fang, W.-L. Hsu, W.-Y. Liang, T.-J. Hsieh, H. Ren, and K.-S. C. Chen K-way tree classification based on semi-greedy structure applied to multisource remote sensing images, paper presented at Geoscience and Remote Sensing Symposium,2009 IEEE International,IGARSS 2009, IEEE, 2009.

Chang, Y.-L., Z.-M. Chen, J.-N. Liu, L. Chang, and J.-P. Fang Parallel K-dimensional tree classification based on semi-matroid structure for remote sensing applications, paper presented at Satellite Data Compression, Communications, and Processing VI, SPIE, 2010.

Chang, Y.-L., J.-P. Fang, L. Chang, J. A. Benediktsson, H. Ren, and K.-S. Chen Band selection for hyperspectral images based on parallel particle swarm optimization

schemes, paper presented at 2009 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2009, July 12, 2009 - July 17, Institute of Electrical and Electronics Engineers Inc, 2009.

Chang, Y.-L., J.-P. Fang, J.-P. Huang, C.-C. Lin, H. Ren, and W.-Y. Liang A parallel computing technique for complete modular eigenspace feature extraction of hyperspectral images, paper presented at 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Denver, CO, United States, 2006.

Chang, Y.-L., J.-P. Fang, H. Ren, W.-Y. Liang, W.-L. Hsu, and J.-C. Yang Simulated annealing and greedy modular eigenspaces band selection approach for hyperspectral imagery, paper presented at Chemical and Biological Sensors for Industrial and Environmental Monitoring III, SPIE, Bellingham WA, WA 98227-0010, United States, Boston, MA, United States, 2007.

Chang, Y.-L., C.-C. Han, K.-C. Fan, J.-H. Chang, and K. S. Chen A modular eigen subspace scheme for high-dimensional data classification with NASA MODIS/ASTER (MASTER) airborne simulator data sets of Pacrim II project, paper presented at Imaging Spectrometry VII, Jul 8-10 2002, The International Society for Optical Engineering, Seattle, WA, United States, 2002.

Chang, Y.-L., C.-C. Han, H. Ren, C.-T. Chen, K. S. Chen, and K.-C. Fan (2004), Data fusion of hyperspectral and SAR images, *Optical Engineering*, 43(8), 1787-1797.

Chang, Y.-L., and H. Ren A complete modular eigenspace feature extraction technique for hyperspectral images, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Chao, Z., Z. Nan, X. Li, and Z. Mao Comparison of the extracted DEMs in heihe river upper and middle reaches, paper presented at Agriculture and Hydrology Applications of Remote Sensing, Nov 15-17 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, 2006.

Charou, E., M. Stefouli, D. Dimitrakopoulos, E. Vasiliou, and O. D. Mavrantza (2010), Using Remote Sensing to Assess Impact of Mining Activities on Land and Water Resources, *Mine Water and the Environment*, 29(1), 45-52.

Che, T., R. Jin, X. Li, and L.-z. Wu (2004), Glacial Lakes Variation and the Potentially Dangerous Glacial Lakes in the Pumqu Basin of Tibet during the Last Two Decades, *Journal of Glaciology and Geocryology*, 26(4), 397-402.

Che, T., R. Jin, X. Li, and L.-z. Wu (2004), The variations and the potential outburst of glacial lakes in the Pumqu Basin, Xizang, China in the past 20 years, *Bingchuan Dongtu = Journal of Glaciology and Geocryology*, 26(4), 397-402.

Chen, D., H. Li, X. Yang, and W. Sun (2006), A Study of ASTER Satellite Ortho Imagery Map Based on ENVI Software—Taking Fukang Area as an Example, *Geo-information Science*, 8(3), 37-40.

Chen, G., and E. Dongchen (2006), Cloud detection based on texture analysis and SVM over ice-snow covered area, *Geomatics and Information Science of Wuhan University*, 31(5), 403-406.

Chen, J., and J. Fu (2006), Advanced Spaceborne Thermal Emission and Reflection Radiometer —ASTER—The best choice for geologists, *Geological Bulletin of China*, 25(5), 649-652.

Chen, J., A. Wang, and M. Huang (2007), The ASTER Imaging Rock and Soil Information Extraction Method in Multiple, *Acta Geoscientia Sinica*, 28(1), 86-91.

Chen, L. (2009), Application of remote sensing techniques to study the neotectonics in the northwestern Himalayan fold-and-thrust belt, Pakistan, 100-100 pp, University of Houston, Houston, TX, United States (USA), United States (USA).

Chen, L., and S. Khan (2007), Study of strike slip faults in sub-Himalayan thrust belt using remote sensing and seismic data, *Geological Society of America, 2007 annual meeting, Denver, CO, United States, Oct. 28-31, 2007*, 39(6), 232.

Chen, W., and G. Zhou Comparison of satellite measured temperatures using Terra ASTER and Landsat ETM+ Data, paper presented at 2004 IEEE International Geoscience and Remote Sensing Symposium Proceedings: Science for Society: Exploring and Managing a Changing Planet. IGARSS 2004, Sep 20-24 2004, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Anchorage, AK, United States, 2004.

Chen, W., and G. Zhou Comparison of the effects of selected variables on urban surface temperature, paper presented at 2004 IEEE International Geoscience and Remote Sensing Symposium Proceedings: Science for Society: Exploring and Managing a Changing Planet. IGARSS 2004, Sep 20-24 2004, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Anchorage, AK, United States, 2004.

Chen, X., T. A. Warner, and D. J. Campagna (2007), Integrating visible, near-infrared and short wave infrared hyperspectral and multispectral thermal imagery for geologic mapping: Simulated data, *International Journal of Remote Sensing*, 28(11), 2415-2430.

Chen, X., T. A. Warner, and D. J. Campagna (2007), Integrating visible, near-infrared and short-wave infrared hyperspectral and multispectral thermal imagery for geological mapping at Cuprite, Nevada, *Remote Sensing of Environment*, 110(3), 344-356.

Chen, Y., Q. Lin, H. Guo, Y. Wei, and Q. Wang A suitable solution for extraction of alteration anomalies from the remote sensing data: A case study of the Baogutu porphyry copper deposit intrusion, Xinjiang, China using Aster data, paper presented at Geoscience and Remote Sensing Symposium, 2009 IEEE International, IGARSS 2009, IEEE, 2009.

Chen, Y., Q. Z. Lin, Y. M. Wei, M. F. Wang, and H. Li (2010), Alteration Mineral Mapping Method Based on Statistical Analysis of Field Measured Spectra, *Spectroscopy and Spectral Analysis/Guang Pu Xue Yu Guang Pu Fen Xi*, 30(11), 3036-3040.

Chen, Y., P. Shi, T. Fung, J. Wang, and X. Li (2007), Object-oriented classification for urban land cover mapping with ASTER imagery, *International Journal of Remote Sensing*, 28(20), 4645-4651.

Chen, Z., and J. Chen (2006), Investigation on Extracting the Space Information of Urban Land-use from High Spectrum Resolution Image of ASTER by NDBI Method, *Geo-information Science*, 8(2), 137-137.

Chen, Z., and J. Chen (2006), Investigation on Extracting the Urban Land-use and Its Change by Multi-band K-L Transform in Fuzhou, *Journal of Fujian Normal University.Natural Science*, 22(3), 100-103.

Chen, Z.-q., and J.-f. Chen Geostatistical analysis on human impact indexes for land use/cover in Fujian Province and Fuzhou City, paper presented at 2009 17th International Conference on Geoinformatics, Geoinformatics 2009, IEEE, 2009.

Cheng, B., W. Jiao, W. Wang, X. Zhang, B. Xiang, and H. Liu Information extraction based on SAM of ASTER image, paper presented at 1st International Congress on Image and Signal Processing, CISP 2008, Institute of Electrical and Electronics Engineers Computer Society, Piscataway, NJ 08855-1331, United States, Sanya, Hainan, China, 2008.

Cheng, B., S. Liu, and X. Mei (2005), New Method for Extraction of Contaminating Vegetation Using Multispectral Remote Sensing Data, *Geoscience*, 19(3), 458-464.

Cheng, J., S. Liang, J. Wang, and X. Li (2010), A Stepwise Refining Algorithm of Temperature and Emissivity Separation for Hyperspectral Thermal Infrared Data, *IEEE Transactions on Geoscience and Remote Sensing*, 48(3), 1588-1597.

Cheng, J., Q. Xiao, X. Li, Q. Liu, Y. Du, and A. Nie Evaluation of five algorithms for extracting soil emissivity from hyperspectral FTIR data, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of

Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, 2008.

Cheng, J., Q. Xiao, X. Li, Q. Liu, Y. Du, and A. Nie Multi-layer perceptron neural network based algorithm for simultaneous retrieving temperature and emissivity from hyperspectral FTIR dataset, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Cheng, J., Q. Xiao, X.-w. Li, Q.-h. Liu, and Y.-m. Du (2008), Multi-layer perceptron neural network based algorithm for simultaneous retrieving temperature and emissivity from hyperspectral FTIR data, *Spectroscopy and Spectral Analysis/Guang Pu Xue Yu Guang Pu Fen Xi*, 28(4), 780-783.

Cheng, X., Y. Zhang, E. Dongchen, Z. Li, and Y. Shao Digital elevation model construction using ASTER stereo VNIR scene in Antarctic in-land ice sheet, paper presented at IGARSS 2003; Learning from Earth's shapes and sizes; Toulouse, France, July 21-25, 2003, Institute of Electrical and Electronics Engineers, New York, NY, 2003.

Chenoweth, M. S. (2003), Developing a spatial database for the interpretation of karst landscape and vegetation in the Jamaican Cockpit Country, 131-2099 pp, The University of Wisconsin - Milwaukee; 0263 Advisor: Supervisor Michael J. Day.

Cherkauer, K. A., S. J. Burges, R. N. Handcock, J. E. Kay, S. K. Kampf, and A. R. Gillespie (2005), Assessing satellite-based and aircraft-based thermal infrared remote sensing for monitoring Pacific Northwest river temperature, *Journal of the American Water Resources Association*, 41(5), 1149-1159.

Chevrel, S. D. Contribution of Very High Spatial and/or Spectral Resolution remote sensing in GIS-based environmental hazard assessment of mining environments; To measure is to manage; 12th Australasian remote sensing and photogrammetry conference proceedings, paper presented at 12th Australasian remote sensing and photogrammetry conference, Fremantle, West. Aust, Spatial Sciences Institute, Deakin West, Australia (AUS), Australia (AUS), 2004.

Chikhaoui, M. (2005), Apport des donnees ASTER et d'un reseau de neurones a retropropagation a la modelisation de la degradation du sol d'un bassin marneux du Rif marocain, 148-2440 pp, Universite de Sherbrooke (Canada); 0512, Sherbrooke, QC, Canada.

Chikhaoui, M., F. Bonn, A. I. Bokoye, and A. Merzouk Evaluation du potentiel de l'indice LDI pour l'etude des etats de surface: Etude comparee a partir des capteurs ASTER et ETM+; Evaluation of the potential of the laser desorption and ionization (LDI) index for the study of surface states: Comparative study starting with the Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) and ETM+ sensors, paper presented at 26th Canadian Symposium on Remote Sensing, Jun

14-16 2005, Canadian Aeronautics and Space Institute, Suite 105, Ottawa Ontario, K2C 2B5, Canada, Wolfville, NS, Canada, 2005.

Chikhaoui, M., F. Bonn, A. I. Bokoye, and A. Merzouk (2005), A spectral index for land degradation mapping using ASTER data: Application to a semi-arid Mediterranean catchment, *International Journal of Applied Earth Observation and Geoinformation*, 7(2), 140-153.

Chikhaoui, M., F. Bonn, A. I. Bokoye, and A. Merzouk (2006), Comparaison des capteurs ASTER et ETM+ pour la cartographie de la degradation des sols a l'aide de l'indice LDI; Comparison of the Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) sensor and Landsat Enhanced Thematic Mapper Plus (ETM+) sensor for mapping of the degradation of soils with the help of the Landscape Development Intensity (LDI) index, *Canadian Journal of Remote Sensing*, 32(2), 74-83.

Chini, M., P. J. Gonzalez, S. Stramondo, and J. Fernandez Optical satellite images for co-seismic horizontal offsets estimate and fault trace mapping using phase-corr technique, paper presented at 2010 30th IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Chioza, H. A., J. i. Gotou, and Y. Suzuki Assessment on Use of ASTER Data in Extracting Topographic Information for Deciding Potential Forest Road Network Routes in a Mountainous Forest Area, paper presented at The Japanese Forest Society Congress 119, Japanese Forest Society, 2008.

Chirico, P. G. (2005), Geomorphic factors affecting operational planning in Mesopotamia, Iraq; 171st national meeting of the American Association for the Advancement of Science, *171st national meeting of the American Association for the Advancement of Science, Washington, DC, United States, Feb. 17-21, 2005*, 171(Abstract), A56.

Chirico, P. G., and M. B. Warner (2007), ASTER-derived 30-meter-resolution digital elevation models of AfghanistanRep. U. S. Geological Survey Data Series, Report: DS-0318, 1 disc, 2007, U. S. Geological Survey, Reston, VA, United States (USA), United States (USA).

Chou, T.-Y., L.-S. Yang, C.-H. Liu, and Y. Chang The impact study of urban heat island effect caused by surface land use changes, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology IX, August 31, 2009 - September 3, SPIE, Bellingham WA, 2009.

Christensen, P. (2004), Investigation of Rapid Urbanization Processes Using Aster, Modis, and Landsat Data, edited, Arizona State Univ.; Tempe, AZ.

Chrysoulakis, N. Integration of earth observation and in-situ spatial data for the development of a decision support tool for technological risk management, paper

presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology II, Sep 23-26 2002, The International Society for Optical Engineering, Agia Pelagia, Greece, 2002.

Chrysoulakis, N. (2003), Estimation of the all-wave urban surface radiation balance by use of ASTER multispectral imagery and in situ spatial data, *Journal of Geophysical Research*, 108(D18), ACL8-1-10.

Chrysoulakis, N., M. Abrams, H. Feidas, and K. Arai (2010), Comparison of atmospheric correction methods using ASTER data for the area of Crete, Greece, *International Journal of Remote Sensing*, 31(24), 6347-6385.

Chrysoulakis, N., I. Keramitsoglou, and C. Cartalis Hydrologic land-cover classification mapping at the local level with the combined use of ASTER multispectral imagery and GPS measurements, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology III; Barcelona, Spain; Sep. 9-11, 2003, 2004.

Chuanjun, L., L. Khan, B. Thuraisingham, M. Husain, C. Shaofei, and Q. Fang  
Geospatial data mining for national security: Land cover classification and semantic grouping, paper presented at ISI 2007: 2007 IEEE Intelligence and Security Informatics, Institute of Electrical and Electronics Engineers Computer Society, Piscataway, NJ 08855-1331, United States, New Brunswick, NJ, United States, 2007.

Chunhua, L., and C. Licong Cross-comparison between ASTER and ETM+ imagery, paper presented at 5th International Conference on Image and Graphics, ICIG 2009, September 20, 2009 - September 23, IEEE Computer Society, Piscataway, NJ, 2010.

Church, S. E., D. L. Fey, T. L. Klein, T. S. Schmidt, R. B. Wanty, E. H. DeWitt, B. W. Rockwell, and C. A. San Juan (2009), Environmental effects of hydrothermal alteration and historical mining on water and sediment quality in central ColoradoRep., 85-95 pp, U. S. Geological Survey, Reston, VA, United States (USA), United States (USA).

Claeys, P., J. C.-W. Chan, and R. Dujardin (2008), The Luizi Structure; remote sensing study of a possible impact crater in Central Africa, *Thirty-ninth lunar and planetary science conference*, Houston, TX, United States, March 10-14, 2008, 1391(Abstract), 1720.

Clark, T. L., T. M. Lopez, and S. Ushakov (2007), Sulfur Dioxide Emissions from Bezymianny Volcano, Kamchatka: Results from the 2007 Field Season, *2007 AGU Fall Meeting*; San Francisco, CA; USA; 10-14 Dec. 2007, 41; 88(52, Suppl. Volume 1-2), 0606.

Cohen, R. (1996), ASTER Scheduling Prioritization Function, edited.

Cohen, R. H. (2002), Automated spacecraft scheduling - the ASTER example, in *GSAW 2002 - Ground System Architectures Workshop*, edited, El Segundo, CA United States.

Coll, C., V. Caselles, E. Valor, R. Niclos, J. M. Sanchez, J. M. Galve, and M. Mira (2007), Temperature and emissivity separation from ASTER data for low spectral contrast surfaces, *Remote Sensing of Environment*, 110(2), 162-175.

Coluzzi, R., I. Didonna, A. Lanorte, and R. Lasaponara Mapping forest fuel types by using satellite ASTER data and neural nets, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology IX, SPIE, Bellingham WA, WA 98227-0010, United States, Florence, Italy, 2007.

Coluzzi, R., N. Masini, A. Lanorte, and R. Lasaponara (2010), On the Estimation of Fire Severity Using Satellite ASTER Data and Spatial Autocorrelation Statistics, in *Computational Science and Its Applications – ICCSA 2010*, edited, pp. 361-373, Springer, Berlin.

Combs, J., and M. Eneva (2005), Application of thermal infrared ASTER data to geothermal exploration in eastern California, *American Geophysical Union 2005 fall meeting, San Francisco, CA, United States, Dec. 5-9, 2005*, 86(52, Suppl.), @Abstract T23B-0555.

Consoli, S., G. L. Cirelli, and A. Toscano Monitoring crop coefficient of orange orchards using energy balance and the remote sensed NDVI, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology VIII, Sep 11-13 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, 2006.

Coolbaugh, M., M. Eneva, S. Bjornstad, and J. Combs (2007), Detection of surface temperature anomalies in the Coso geothermal field using thermal infrared remote sensing, *American Geophysical Union 2007 fall meeting, San Francisco, CA, United States, Dec. 10-14, 2007*, 88(52, Suppl.), @Abstract V41A-0394.

Coolbaugh, M. F. (2003), The prediction and detection of geothermal systems at regional and local scales in Nevada using a geographic information system, spatial statistics, and thermal infrared imagery, 172-4829 pp, University of Nevada, Reno; 0139 Advisor: Adviser James V. Taranik.

Coolbaugh, M. F., C. Kratt, A. Fallacaro, W. M. Calvin, and J. V. Taranik (2007), Detection of geothermal anomalies using Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) thermal infrared images at Bradys Hot Springs, Nevada, USA, *Remote Sensing of Environment*, 106(3), 350-359.

Copland, L., W. Lawson, and B. Goodsell (2005), A 100-year record of change at the McMurdo Ice Shelf, Antarctica; Proceedings of the 1st CliC international science conference, *CliC 2005; 1st CliC international science conference; Cryosphere, the "frozen" frontier of climate science; theory, observations, and practical applications, Beijing, China, April 11-15, 2005*, 1(Abstract), 39.

Copland, L., S. Pope, M. P. Bishop, J. F. Shroder, Jr., P. Clendon, A. Bush, U. Kamp, Y. B. Seong, and L. A. Owen (2009), Glacier velocities across the central Karakoram, *Dynamics in glaciology*, 50(52), 41-49.

Corbane, C., N. Baghdadi, S. Hosford, J. Somma, and S. Chevrel (2004), Application d'une methode de classification orientee objet pour la cartographie de l'occupation du sol: Resultats sur aster et landsat ETM; Application of an object oriented approach for land use mapping: Results obtained on ASTER and Landsat ETM images, *Revue Francaise de Photogrammetrie et de Teledetection*(175), 13-26.

Cord, A., C. Conrad, M. Schmidt, and S. Dech (2010), Standardized FAO-LCCS land cover mapping in heterogeneous tree savannas of West Africa, *Journal of Arid Environments*, 74(9), 1083-1091.

Cordone, R., F. Gandellini, and G. Righini (2008), Solving the swath segment selection problem through Lagrangean relaxation, *Computers & Operations Research*, 35(3), 854-862.

Corradini, S., S. Pugnaghi, S. Teggi, M. F. Buongiorno, and M. P. Bogliolo (2003), Will ASTER see the Etna SO<sub>2</sub> plume?, *International Journal of Remote Sensing*, 24(6), 1207-1218.

Courault, D., et al. (2009), Influence of agricultural practices on micrometeorological spatial variations at local and regional scales, *International Journal of Remote Sensing*, 30(5), 1183-1205.

Cowan, D. R., and G. R. J. Cooper Shuttle Radar Topography Mission, paper presented at 67th European Association of Geoscientists and Engineers, EAGE Conference and Exhibition, incorporating SPE EUROPEC 2005 - Extended Abstracts, Jun 13-16 2005, Society of Petroleum Engineers, Richardson, TX 75083-3836, United States, Feria de Madrid, Spain, 2005.

Cowgill, E., and K. Sieh (2002), Neotectonics of the Turkish-Iranian Plateau and the Greater Caucasus from analysis of ASTER stereo-imagery; Geological Society of America, 2002 annual meeting, *Geological Society of America, 2002 annual meeting, Denver, CO, United States, Oct. 27-30, 2002*, 34(6), 330.

Coyle, P. R., B. M. Cassidy, and C. A. Stem (2008), Use of archival data and remote sensing to determine the structural and stratigraphic controls on the distribution of tungsten in the Cherry Creek mining district, Nevada, *Geological Society of America, 2008 annual meeting, Houston, TX, United States, Oct. 5-9, 2008*, 40(6), 156-157.

Crippen, R. E., S. J. Hook, and E. J. Fielding (2007), Nighttime ASTER thermal imagery as an elevation surrogate for filling SRTM DEM voids, *Geophysical Research Letters*, 34(1), L01302-L01302.

Crosta, A. P., C. R. De Souza Filho, F. Azevedo, and C. Brodie (2003), Targeting key alteration minerals in epithermal deposits in Patagonia, Argentina, using ASTER imagery and principal component analysis, *International Journal of Remote Sensing*, 24(21), 4233-4240.

Crouvi, O., R. Amit, and Y. Enzel (2006), Primary loess formation in the Negev Desert; initial results, *Israel Geological Society annual meeting 2006, Bet-Shean, Israel, Feb. 19-21, 2006*(Abstract), 23.

Crouvi, O., D. Avigad, M. Beyth, E. Ben-Dor, and A. Sandler (2006), Remote sensing mapping of the Precambrian-Cambrian chemical weathering; the peneplain in southern Israel, *Israel Geological Society annual meeting 2006, Bet-Shean, Israel, Feb. 19-21, 2006*(Abstract), 24.

Crowe, D., T. Jordan, M. S. Baker, and P. Schroeder (2006), Mapping the distribution of alteration minerals in an active geothermal setting using satellite-based spectral reflectance; an example from the Uzon Caldera, Kamchatka, Far East Russia, *Geological Society of America, 2006 annual meeting, Philadelphia, PA, United States, Oct. 22-25, 2006*, 38(7), 565.

Crowley, J. K., B. E. Hubbard, and J. C. Mars (2003), Analysis of potential debris flow source areas on Mount Shasta, California, by using airborne and satellite remote sensing data, *Remote Sensing of Environment*, 87(2-3), 345-358.

Crowley, J. K., B. E. Hubbard, and J. C. Mars (2003), Hydrothermal alteration on the Cascade stratovolcanoes; a remote sensing survey; Geological Society of America, 2003 annual meeting, *Geological Society of America, 2003 annual meeting, Seattle, WA, United States, Nov. 2-5, 2003*, 35(6), 552.

Crowley, J. K., J. C. Mars, S. J. Hook, and A. A. M. I. U. S. s. Veridan Erim International (2000), Mapping evaporite minerals in the Death Valley salt pan using MODIS/ASTER airborne simulator (MASTER) data; Proceedings of the Fourteenth international conference on Applied geologic remote sensing, *Fourteenth international conference on Applied geologic remote sensing, Las Vegas, NV, United States, Nov. 6-8, 2000*, 14(Abstract), 344-345.

Cruz, C., R. D. Jacobi, J. R. Everett, and R. J. Staskowski (2005), ASTER and Landsat lineaments in central NYS; image processing and groundtruthing for fractures; Geological Society of America, Northeastern Section, 40th annual meeting, *Geological Society of America, Northeastern Section, 40th annual meeting, Saratoga Springs, NY, United States, March 14-16, 2005*, 37(1), 58.

Cruz, C. A. (2005), Satellite image enhancements, lineament identification and quantitative comparison with fracture data, central New York State, 138-280 pp, State University of New York at Buffalo; 0656 Advisor: Adviser Robert D. Jacobi.

- Csatho, B. M., C. Ping, L. R. Everett, J. M. Kimble, G. Michaelson, and C. Tremper (2006), Characrterizing frozen ground with multisensor remote sensing, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).
- Csiszar, I. A., L. Giglio, J. T. Morisette, A. Sei, and C. O. Justice (2005), Evaluation of the VIIRS active fire detection algorithm using MODIS-based proxy data and ASTER, *AGU Fall Meeting Abstracts*, 43(Abstract), 07.
- Csiszar, I. A., J. T. Morisette, and L. Giglio (2006), Validation of active fire detection from moderate-resolution satellite sensors: The MODIS example in Northern Eurasia, *IEEE Transactions on Geoscience and Remote Sensing*, 44(7), 1757-1764.
- Csiszar, I. A., J. T. Morisette, L. Giglio, and C. O. Justice (2002), Validation of MODIS Active Fire Products With Coincident ASTER Data, *AGU Fall Meeting Abstracts*, 61(Abstract), 0730.
- Csiszar, I. A., and W. Schroeder (2008), Short-term observations of the temporal development of active fires from consecutive same-day ETM+ and ASTER imagery in the Amazon: Implications for active fire product validation, *IEEE Journal of Selected Topics In Applied Earth Observations And Remote Sensing*, 1(4), 248-253.
- Cuartero, A., A. M. Felicisimo, M. E. Polo, A. Caro, and P. G. Rodriguez (2010), Positional accuracy analysis of satellite imagery by circular statistics, *Photogrammetric Engineering and Remote Sensing*, 76(11), 1275-1286.
- Cuartero, A., A. M. Felicisimo, and F. J. Ariza (2005), Accuracy, reliability, and depuration of SPOT HRV and Terra ASTER digital elevation models, *IEEE Transactions on Geoscience and Remote Sensing*, 43(2), 404-407.
- Cudahy, T. J., R. Hewson, A. Buchanan, Y. Maruyama, A. Mauger, J. Creasey, and A. A. M. I. U. S. s. Veridan Erim International (2000), A generation of geological and regolith maps derived from multispectral VNIR-SWIR-TIR ASTER satellite data; Australian examples; Proceedings of the Fourteenth international conference on Applied geologic remote sensing, *Fourteenth international conference on Applied geologic remote sensing, Las Vegas, NV, United States, Nov. 6-8, 2000*, 14(Abstract), 159.
- Cudahy, T. J., L. B. Whitbourn, P. M. Connor, P. Mason, and R. N. Philips (1999), Mapping surface mineralogy and scattering behavior using backscattered reflectance from a hyperspectral midinfrared airborne CO (sub 2) laser system (MIRACO (sub 2) LAS), *IEEE Transactions on Geoscience and Remote Sensing*, 37(4), 2019-2034.
- Czapla-Myers, J., K. Thome, and S. Biggar Unmanned vicarious calibration for large-footprint sensors, paper presented at Earth Observing Systems X; San Diego, CA; USA; 31 July-2 Aug. 2005, 2005.

Czapla-Myers, J. S., K. J. Thome, and S. F. Biggar (2009), Calibration and characterization of a digital camera for bidirectional reflectance distribution function retrieval of vicarious calibration sites, *Journal of Applied Remote Sensing*, 3(Journal Article), 033519-033519.

Da Costa, G. A. O. P., F. F. Camargo, D. A. B. Oliveira, C. M. De Almeida, R. Q. Feitosa, and S. F. Da Using the cognitive platform interimage to identify geomorphological features, paper presented at MIPPR 2009 - Remote Sensing and GIS Data Processing and Other Applications: 6th International Symposium on Multispectral Image Processing and Pattern Recognition, October 30, 2009 - November 1, SPIE, Bellingham WA, 2009.

da Silva, D. V. G., P. S. de Nascimento, R. A. Petta, T. F. d. C. Campos, and T. A. F. do Nascimento Lineacoes e lineamentos estruturais da folha Jardim do Serido extraidos por tecnicas de sensoriamento remoto. Lineations and structural lineaments of Jardim do Serido sheet, from remote sensing data, paper presented at Sociedade Brasileira de Geologia; 44 degrees congresso, Curitiba, BRA, Brazil, Oct. 26-31, 2008, Sociedade Brasileira de Geologia, Porto Alegre, Brazil (BRA), Brazil (BRA), 2008.

Da Silva, P. R., and J. R. Ducati (2009), Spectral features of vineyards in south Brazil from ASTER imaging, *International Journal of Remote Sensing*, 30(23), 6085-6098.

Dabrowska-Zielinska, K., M. Budzynska, W. Kowalik, and Y. Inoue Application of microwave data for agriculture area, paper presented at 2008 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2008, IEEE, Piscataway, NJ, USA, 2008.

Dabrowska-Zielinska, K., M. Gruszczynska, S. Lewinski, A. Hoscilo, and I. Malek Application of remotely and in-situ information for wetlands in Poland, paper presented at 1st International Symposium on GlobWetland: Looking at Wetlands from Space, European Space Agency, Noordwijk, 2200 AG, Netherlands, Frascati, Rome, Italy, 2006.

Dall'Osso, F., L. Bovio, A. Cavalletti, F. Immordino, M. Gonella, and G. Gabbianelli (2010), A novel approach (the CRATER method) for assessing tsunami vulnerability at the regional scale using ASTER imagery, *Rivista Italiana Di Telerilevamento*, 42(2), 55-74.

D'Amico, J., K. Thome, and J. Czapla-Myers Validation of large-footprint, reflectance-based calibration using coincident MODIS and ASTER data, paper presented at Earth Observing Systems XI, Aug 14-16 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, San Diego, CA, United States, 2006.

Dan, M., G. Huili, L. Xiaojuan, Z. Wenji, G. Zhaoning, Z. Lin, and H. Deyong Study of urban heat island based on remote sensing in Beijing-capital zone, paper presented at

2009 Joint Urban Remote Sensing Event, May 20, 2009 - May 22, IEEE Computer Society, Shanghai, China, 2009.

Danishwar, S., and M. Sultan (2001), Interpretation of ASTER remote sensing data on Northwest Kohistan Terrane, Pakistani Himalayas; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 290-291.

Danneels, G., H. B. Havenith, and E. Pirard (2007), Landslide detection from remote sensing images using statistical and ANN classification methods, *9th European Geosciences Union General Assembly, Vienna (Austria), 15-20 Apr 2007*(Abstract).

Darby, B. J., B. D. Ritts, Y. Yue, and Q. Meng (2005), Did the Altyn Tagh Fault extend beyond the Tibetan Plateau?, *Earth and Planetary Science Letters*, 240(2), 425-435.

Dash, P., F. M. Gottsche, F. S. Olesen, and H. Fischer (2002), Land surface temperature and emissivity estimation from passive sensor data: Theory and practice-current trends, *International Journal of Remote Sensing*, 23(13), 2563-2594.

Davies, A. G., J. Calkins, L. Scharenbroich, R. G. Vaughan, R. Wright, P. Kyle, R. Castano, S. Chien, and D. Tran (2008), Multi-instrument remote and in situ observations of the Erebus Volcano (Antarctica) lava lake in 2005: A comparison with the Pele lava lake on the jovian moon Io, *Journal of Volcanology and Geothermal Research*, 177(3), 705-724.

Davila, N., L. Capra, J. C. Gavilanes-Ruiz, N. Varley, G. Norini, and A. G. Vazquez (2007), Recent lahars at Volcan de Colima (Mexico): Drainage variation and spectral classification, *Journal of Volcanology and Geothermal Research*, 165(3), 127-141.

Davis, A. (2007), The Use of Commercial Remote Sensing Predicting Helicopter Brownout Conditions, 93-93 pp, Naval Postgraduate School, Monterey, CA.

Davis, A. M., J. G. Liu, M. A. N. Brown, and D. Massonnet Drainage development related to blind thrust evolution along the Flaming Mountain, Turpan Basin, Xinjiang, NW China; IGARSS 2003; Learning from Earth's shapes and sizes; 2003 IEEE international geoscience and remote sensing symposium; proceedings, paper presented at 2003 IEEE international geosciences and remote sensing symposium, Toulouse, France, July 21-25, 2003, Institute of Electrical and Electronics Engineers, New York, NY, United States (USA), United States (USA), 2003.

Davis, I. C., and G. G. Wilkinson Crop yield prediction using multipolarization radar and multitemporal visible / infrared imagery, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology VIII, Sep 11-13 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, 2006.

Dawes, P. R., and T. Tukiainen (2008), Hans O, celebrated island of Nares Strait between Greenland and Canada; from dog-sledge to satellite mapping, *Review of survey activities 2007*, 15(Journal Article), 77-80.

De Carvalho Jr, O. A., P. L. C. Bloise, A. P. F. De Carvalho, R. F. Guimaraes, and E. De Souza Martins Spectral Mixture Analysis of Aster Image in Brazilian Savanna, paper presented at 2003 IGARSS: Learning From Earth's Shapes and Colours, Jul 21-25 2003, Institute of Electrical and Electronics Engineers Inc, Toulouse, France, 2003.

de Carvalho, O. A., Jr., R. F. Guimaraes, A. P. F. de Carvalho, and E. de Souza Martins Spectral mixture analysis of ASTER image to geobotanical investigation between ultramafic and mafic rocks from Niquelandia, Brazil, paper presented at IGARSS 2004. 2004 IEEE International Geoscience and Remote Sensing, 20-24 Sept. 2004, IEEE, Anchorage, AK, USA, 2004.

de Cerqueira, D. B., and M. B. Abram Mapeamento multiespectral aplicado a pesquisa para Au na província Juruena-Teles Pires, estado do Mato Grosso. Multispectral mapping for gold exploration in the Juruena-Teles Pires Province, Mato Grosso, paper presented at Sociedade Brasileira de Geologia; 44 degrees congresso, Curitiba, Brazil, Oct. 26-31, 2008/ Geological Society of Brazil; annals of the 44th congress, Sociedade Brasileira de Geologia, Porto Alegre, Brazil (BRA), Brazil (BRA), 2008.

de Leeuw, J., D. Shankman, G. Wu, W. F. de Boer, J. Burnham, Q. He, H. Yesou, and J. Xiao (2010), Strategic assessment of the magnitude and impacts of sand mining in Poyang Lake, China, *Regional Environmental Change*, 10(2), 95-102.

de Lorenzo, S., and A. Zollo (2001), Source parameters and three-dimensional attenuation structure from the inversion of microearthquake pulse width data - Qp imaging and inferences on the thermal state of the Campi Flegrei caldera (southern Italy), *UNITED STATES*, 106(B8), 16, 265-216, 286.

de Oliveira, C. G., and W. R. Paradella (2008), An assessment of the altimetric information derived from spaceborne SAR (RADARSAT-1, SRTM3) and optical (ASTER) data for cartographic application in the Amazon region, *Sensors*, 8(6), 3819-3829.

de Oliveira, C. G., and W. R. Paradella (2009), Evaluating the quality of the Digital Elevation Models produced from ASTER stereoscopy for topographic mapping in the Brazilian Amazon Region, *Anais da Academia Brasileira de Ciencias*, 81(2), 217-225.

de Souza, C. R., and P. A. Bland (2004), Proven, probable, and possible impact craters in South America revealed by ASTER and SRTM data and image processing techniques, *Meteoritics & Planetary Science*, 39(8), A30-A30.

de Souza Filho, C. R., and A. P. Crosta Mineral mapping in tropical and arid regions; an evaluation using simulated Landsat TM, JERS-1 and ASTER reflective bands; Proceedings of the thirteenth international conference; Applied geologic remote sensing, paper presented at Thirteenth international conference on Applied geologic remote sensing, Vancouver, BC, Canada, March 1-3, 1999, Environmental Research Institute of Michigan, Ann Arbor, MI, United States (USA), United States (USA), 1999.

de Vente, J., J. Poesen, G. Govers, and C. Boix-Fayos (2009), The implications of data selection for regional erosion and sediment yield modelling, *Earth Surface Processes and Landforms*, 34(15), 1994-2007.

Dean, K. G., J. Dehn, and J. E. Bailey (2006), Monitoring Volcanic Eruptions Using Satellite Data in the North Pacific Region, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Deguchi, I. (2005), Changes in Shoreline and Vegetation around Red River Delta, *Zennihon Koiki Dosha Shushi Hyoka Heisei 14-16 Nendo No.14350262*(Journal Article), PAGE.128-142.

Dehghani, N. The ASTER emergency backup system, paper presented at Earth Observing Systems III, Jul 19-21 2002, The International Society for Optical Engineering, San Diego, United States, 1998.

Dehn, J., and A. Harris (2004), Effusion rates of the 2004 Mount St. Helens lava dome activity determined from Advanced Very High Resolution Radiometer satellite data, *AGU Fall Meeting Abstracts*, 53(Abstract), 02.

Delany, A. C., and J. A. Businger Preprints [Delany, Anthony C. and Businger, Joost A., Development of ASTER and the accuracy of flux measurements, p. 100-103], paper presented at Abstracts: Symposium on Turbulence and Diffusion, 8th, San Diego, CA., April 25-29, 1988, American Meteorological Society, Boston; American Meteorological Society, 1988, 1988.

Deller, M. E. A. (2006), Facies discrimination in laterites using Landsat Thematic Mapper, ASTER and ALI data-examples from Eritrea and Arabia, *International Journal of Remote Sensing*, 27(12), 2389-2409.

Deller, M. E. A. (2006), Erratum: Facies discrimination in laterites using Landsat Thematic Mapper, ASTER and ALI data - Examples from Eritrea and Arabia (International Journal of Remote Sensing (2006) vol. 27(12) (2402-2404)), *International Journal of Remote Sensing*, 27(22), 5123.

Dempewolf, J., S. Trigg, R. S. DeFries, and S. Eby (2007), Burned-area mapping of the serengeti-mara region using MODIS reflectance data, *IEEE Geoscience and Remote Sensing Letters*, 4(2), 312-316.

Demyanick, E., and T. J. Wilson (2006), Landscape of a Glaciated Rift Flank: Structure of the Transantarctic Mountains From the Royal Society Range to the Churchill Mountains, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Deng, X., C. Wnag, Q. Kang, and X. Li (2006), An Adaptive Matching Algorithm for Ground Control Point of Remote Sensing Image Based on Corner Extraction, *Journal of Chinese Society of Astronautics*, 27(1), 45-88.

Deng, X.-L., and C.-Y. Wang (2005), A remote sensing image ground control point matching algorithm based on dynamic template and conformal transform, *Cehui Kexue Science of Surveying and Mapping*, 30(4), 51-53.

Deng, X.-L., C.-Y. Wang, Q. Kang, and X.-J. Li (2006), Adaptive matching algorithm for ground control point of remote sensing image based on corner extraction, *Yuhang Xuebao/Journal of Astronautics*, 27(1), 45-50.

Dennison, P. E., K. R. Hultine, P. L. Nagler, T. Miura, E. P. Glenn, and J. R. Ehleringer (2008), Monitoring Tamarisk Defoliation and Scaling Evapotranspiration Using Remote Sensing Data, *AGU Fall Meeting Abstracts*, 43(Abstract), 0443.

Dennison, P. E., and D. S. Matheson (2011), Comparison of fire temperature and fractional area modeled from SWIR, MIR, and TIR multispectral and SWIR hyperspectral airborne data, *Remote Sensing of Environment*(Journal Article), Article in Press.

Dennison, P. E., P. L. Nagler, K. R. Hultine, E. P. Glenn, and J. R. Ehleringer (2009), Remote monitoring of tamarisk defoliation and evapotranspiration following saltcedar leaf beetle attack, *Remote Sensing of Environment*, 113(7), 1462-1472.

Dennison, P. E., and D. A. Roberts (2009), Daytime fire detection using airborne hyperspectral data, *Remote Sensing of Environment*, 113(8), 1646-1657.

deOliveira, C. G. (2005), Evaluation Of Digital Elevation Models Generated From Optical (Aster) and Radar (Radarsat-1, SRTM) Orbital Remote Sensors: A Study For the Area of the Mountain Of Carajas (Pa).

Desautels, M. (2004), Cartographie des zones potentielles d'erosion dans le bassin versant de la Tomifobia par le capteur spatial ASTER et le modele SWAT (French text, Quebec), 74-1683 pp, Universite de Sherbrooke (Canada); 0512 Advisor: Directeur Ferdinand Bonn.

Desjardins, R., P. Rognon, M. Benalla, and E. M. Alem (2005), Progres importants des etudes sur l'evolution des dunes grace a l'utilisation combinee des satellites civils et militaires : l'exemple du tafilalet (Maroc); Recent advances in the study of the evolution of sand dunes using combined military and civilian satellite imageries : The case of the tafilalet (Morocco), *Secheresse : (Montrouge)*, 16(Journal Article), 153-164.

Desouky, H. A. (2009), Metallogenesis of stratiform copper deposits in the Lufilian Orogen, Democratic Republic Congo, 1-183 pp, Leuven University Press, Louvain, Belgium (BEL); Katholieke Universiteit Leuven, Louvain, Belgium (BEL), Belgium (BEL).

Dey, S., L. di Girolamo, and G. Zhao (2008), Effect of Domain and Resolution on Observation-based Statistics of Trade Wind Cumuli Over the Tropical Western Atlantic During RICO, *AGU Fall Meeting Abstracts*, 41(Abstract), 0242.

Dey, S., L. Di Girolamo, and G. Zhao (2008), Scale effect on statistics of the macrophysical properties of trade wind cumuli over the tropical western Atlantic during RICO, *Journal of Geophysical Research-Atmospheres*, 113(Journal Article), D24214-D24214.

Di Achille, G. (2005), A new candidate impact site in northeastern Sudan detected from remote sensing; Lunar and planetary science, XXXVI; papers presented to the Thirty-sixth lunar and planetary science conference, *Thirty-sixth lunar and planetary science conference, Houston, TX, United States, March 14-18, 2005*, 36(Abstract).

Di Girolamo, L. (2006), Aerosol, cloud, and precipitation characteristics in the trade wind regime from satellite, radar, and aircraft measurements sampled during RICO, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Di Tommaso, I., and N. Rubinstein (2007), Hydrothermal alteration mapping using ASTER data in the Infiernillo porphyry deposit, Argentina, *Ore Geology Reviews*, 32(1), 275-290.

Dietrich, R., H. G. Maas, M. Baessler, A. Ruelke, A. Richter, E. Schwalbe, and P. Westfeld (2007), Jakobshavn Isbrae, West Greenland; flow velocities and tidal interaction of the front area from 2004 field observations, *Journal of Geophysical Research*, 112(F3), F03S21.

Diner, D. J., et al. (2005), The value of multiangle measurements for retrieving structurally and radiatively consistent properties of clouds, aerosols, and surfaces, *Remote Sensing of Environment*, 97(4), 495-518.

Diofantos, H. G., A. Constandina, T. Kyriacos, A. Athos, and P. Skevi Classification of geological mapping features using satellite remote sensing and in-situ spectro-radiometric measurements over Cyprus, paper presented at Earth Resources and Environmental Remote Sensing/GIS Applications, September 21, 2010 - September 23, SPIE, Bellingham, WA, 2010.

Diofantos, H. G., H. G. Marinos, A. Athos, and T. Kyriacos Monitoring coastal water quality in a municipal beach in Paphos-Cyprus using ASTER image data and spectral signatures, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology IX, August 31, 2009 - September 3, SPIE, Bellingham WA, 2009.

D'Iorio, M., S. D. Jupiter, S. A. Cochran, and D. C. Potts (2007), Optimizing remote sensing and GIS tools for mapping and managing the distribution of an invasive mangrove (*Rhizophora mangle*) on South Molokai, Hawaii, *Marine Geodesy*, 30(1-2), 125-144.

Djepa, V., and D. Petrova Data processing system for monitoring climate variables and processes, involving multispectral space observations in the visible and thermal infrared spectral range, paper presented at 60th International Astronautical Congress 2009, IAC 2009, October 12, 2009 - October 16, International Astronautical Federation, IAF, Daejeon, Korea, Republic of, 2009.

Dmochowski, J. E. (2005), Application of MODIS-ASTER (MASTER) simulator data to geological mapping of young volcanic regions in Baja California, Mexico, 242-6496 pp, California Institute of Technology; 0037 Advisor: Adviser Joann Stock.

Dmochowski, J. E., B. P. Hausback, S. J. Hook, D. C. Pieri, and J. M. Stock (2001), Remote sensing of the Tres Virgenes and Puertecitos volcanic regions, Baja California, Mexico, using the MASTER airborne multi-spectral sensor; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 348.

Dmochowski, J. E., J. M. Stock, S. J. Hook, and B. P. Hausback (2003), Revised mapping of the La Reforma Caldera based on remote sensing with master airborne multi-spectral data; Geological Society of America, Cordilleran Section, 99th annual meeting, *Geological Society of America, Cordilleran Section, 99th annual meeting, Puerto Vallarta, Mexico, April 1-3, 2003*, 35(4), 29.

do Nascimento, T. A. F., P. S. de Rezende Nascimento, R. A. Petta, L. A. N. de Paiva, and D. V. G. Silva Mapeamento geomorfologico da folha Currais Novos atraves de tecnicas de sensoriamento remoto. Geomorphologic mapping of the Currais Novos sheet using remote sensing, paper presented at Sociedade Brasileira de Geologia; 44 degrees congresso, Curitiba, BRA, Brazil, Oct. 26-31, 2008, Sociedade Brasileira de Geologia, Porto Alegre, Brazil (BRA), Brazil (BRA), 2008.

Dohrenwend, J. C. (2004), Rapid progradation of the Colorado and San Juan Deltas into Lake Powell Reservoir, July 2002 to January 2004; Geological Society of America, Rocky Mountain Section, 56th annual meeting; Geological Society of America, Cordilleran Section, 100th annual meeting, *Geological Society of America, Rocky Mountain Section, 56th annual meeting; Geological Society of America, Cordilleran Section, 100th annual meeting, Boise, ID, United States, May 3-5, 2004*, 36(4), 15.

Doi, N., et al. ASTER target observation scenario, paper presented at Sensors, Systems, and Next-Generation Satellites IV, Sep 25-28 2000, Society of Photo-Optical Instrumentation Engineers, Barcelona, 2001.

Domakinis, C., D. Oikonomidis, and T. Astaras (2008), Landslide mapping in the coastal area between the Strymonic Gulf and Kavala (Macedonia, Greece) with the aid of remote sensing and geographical information systems, *International Journal of Remote Sensing*, 29(23), 6893-6915.

Domingues, A. L., M. A. Braga, and T. de Almeida (2008), Application of airborne geophysical data and remote sensing techniques in iron ore exploration, *33rd international geological congress, Oslo, Norway, Aug. 6-14, 2008*, 33(Abstract), @Abstract 1257156.

Donaldson Hanna, K. L., A. L. Sprague, R. W. H. Kozlowski, K. Boccafolo, and J. Warell (2007), Mercury and the Moon; initial findings from mid-infrared spectroscopic measurements of the surface, *Thirty-eighth lunar and planetary science conference, Houston, TX, United States, March 11-16, 2007*, 1338(Abstract), @Abstract 2291.

Dong, Y., B. Fu, and Y. Ninomiya Environmental and landscape changes of Qinghai Lake, N. E. Tibet during the past 30 years, as revealed by satellite remote sensing data, paper presented at 6th International Symposium on Digital Earth: Data Processing and Applications, September 9, 2009 - September 12, SPIE, Bellingham, WA, 2010.

Dong, Y., B. Fu, and Y. Ninomiya (2009), Geomorphological changes associated with underground coal mining in the Fushun area, northeast China revealed by multitemporal satellite remote sensing data, *International Journal of Remote Sensing*, 30(18), 4767-4784.

Dong, Y., B. Fu, and N. Yoshiki DEM generation methods and applications in revealing of topographic changes caused by coal mining activities, paper presented at International Conference on Earth Observation Data Processing and Analysis, ICEODPA, SPIE, Bellingham WA, WA 98227-0010, United States, 2008.

Dongchen, E., and Q. Shen (2004), Enhanced desstriping of satellite data of ice surface in Antarctica, *Chinese Journal of Polar Science*, 15(2), 108-117.

dos Santos, D. R. V., S. B. A. Rolim, A. Roisenberg, A. G. Preissler, E. F. Ramos, R. R. Salomoni, and R. Frizzo (2008), ASTER mapping image and spectral characterization of the southwestern portion of the Parana Basin basalts, and its relationships with platinum groups elements, *33rd international geological congress, Oslo, Norway, Aug. 6-14, 2008*, 33(Abstract), @Abstract 1257153.

dos Santos, T. V., D. C. Fontana, and R. C. Marques Alves (2010), Evaluation of heat fluxes and evapotranspiration using SEBAL model with data from ASTER sensor, *Pesquisa Agropecuaria Brasileira*, 45(5), 488-496.

Dousset, B. First results of the EOS - Terra ASTER observations over Marseille during the UBL/CLU-ESCOMPTE experiment (2002 - 4Urban); Proceedings of the Fourth AMS Symposium on the Urban Environment, 2002.

Dowdeswell, J. A., and T. J. Benham (2003), A surge of Perseibreen, Svalbard, examined using aerial photography and ASTER high resolution satellite imagery, *Polar Research*, 22(2), 373-383.

Dowman, I., and P. Balan (2007), Mapping remote areas using SRTM and ASTER digital elevation model data; a solution to orientation problems, in *Mapping hazardous terrain using remote sensing*, edited by R. M. Teeuw, pp. 143-147, Geological Society of London, London, United Kingdom (GBR).

Dozier, J., and Z. Wan (1994), Development of practical multiband algorithms for estimating land-surface temperature from EOS/MODIS data, *Advances in Space Research*, 14(3), 10; p. (13)81-(13)90.

Drackett, T. M., and Y. Zaiki Thermal control subsystem design for the EOS Thermal Infrared Radiometer, paper presented at SAE, International Conference on Environmental Systems, 23rd, Colorado Springs, CO; UNITED STATES; 12-15 July 1993, 1993.

Drechsel, C. A., R. D. Jacobi, J. R. Everett, and R. J. Staskowski (2004), ASTER lineaments, faults, and reservoirs in the Appalachian Basin of New York State; Geological Society of America, Northeastern Section, 38th annual meeting; Geological Society of America, Southeastern Section, 53rd annual meeting, *Geological Society of America, Northeastern Section, 38th annual meeting; Geological Society of America, Southeastern Section, 53rd annual meeting, Washington, DC, United States, March 25-27, 2004*, 36(2), 146.

Drury, S. A. (2004), Early structural features on the flanks of the Afar-Danakil basin revealed by ASTER image data, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004*, 32, Part 1(Abstract), 628.

D'Sa, E., C. Hall, V. Zanoni, D. Holland, S. Blonski, M. Pagnutti, and J. P. Spruce (2004), Decision Support Tool Evaluation Report for Coral Reef Early Warning System (CREWS) Version 7.0Rep. SSTI-2220-0051, 1-65 pp, NASA Stennis Space Center; Stennis Space Center, MS, United States.

Du, M., G. Cai, and D. Qiu Relationship between urban heat sink and heat energy exchange in Beijing, China, paper presented at Geoscience and Remote Sensing Symposium, 2009 IEEE International, IGARSS 2009, IEEE, 2009.

Du, M., W. Sun, and G. Cai Calculation of corridor structure effect on urban heat island using highly spatial resolution satellite images in Beijing, China, paper presented at IGARSS 2008 - 2008 IEEE International Geoscience and Remote Sensing Symposium, IEEE, Piscataway, NJ, USA, 2008.

Du, P., P. Liu, H. Zhang, and H. Zhang Multi-objective processing of ASTER image for urban environmental analysis, paper presented at 2007 IEEE International Geoscience

and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, 2008.

Du, P., H. Zhang, P. Liu, K. Tan, and Z. Yin Land use/cover change in mining areas using multi-source remotely sensed imagery, paper presented at Proceedings of MultiTemp 2007 - 2007 International Workshop on the Analysis of Multi-Temporal Remote Sensing Images, IEEE, Leuven, Belgium, 2007.

Du, W.-j., S.-m. Li, H. Li, D.-f. Sun, and L.-d. Zhou (2010), Spectral Characteristics Analysis and Remote Sensing Inversion of Water Quality Parameters in Han Shiqiao Wetland, *Spectroscopy and Spectral Analysis/Guang Pu Xue Yu Guang Pu Fen Xi*, 30(3), 757-761.

Ducart, D. F., A. P. Crosta, C. R. S. Filho, and J. Coniglio (2006), Alteration mineralogy at the Cerro La Mina epithermal prospect, Patagonia, Argentina: Field mapping, short-wave infrared spectroscopy, and ASTER images, *Economic Geology*, 101(Journal Article), 981-996.

Duda, K. A., and M. Abrams (2005), ASTER and USGS EROS Disaster Response: Emergency imaging after Hurricane Katrina, *Photogrammetric Engineering and Remote Sensing*, 71(12), 1346-1350.

Duda, K. A., and M. Abrams (2007), ASTER and USGS EROS emergency imaging for hurricane disasters *Rep. 0364-6017*, 80-86 pp, U. S. Geological Survey, Reston, VA, United States (USA), United States (USA).

Duda, K. A., R. Wessels, M. Ramsey, and J. Dehn Monitoring volcanic threats using ASTER satellite data, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Dudley-Murphy, E. A., and G. D. Nash TIR (ASTER) geothermal anomalies, paper presented at International Collaboration for Geothermal Energy in the Americas - Geothermal Resources Council: 2003 Annual Meeting, Oct 12-15 2003, Geothermal Resources Council, Davis, United States, Morelia, Michoacan, Mexico, 2003.

Duong, N. D. (2003), WinASEAN 4.0 - AN IMAGE ANALYSIS PACKAGE FOR ENVIRONMENT MONITORING AND NATURAL RESOURCE MANAGEMENT, *Geoinformatics*, 14(1), 59-62.

Durst, K. S., W. I. Rose, R. E. Wolf, and A. Maclean (2006), Analysis of Eruption Rates at Santiaguito, Guatemala Using ASTER and Aerial Derived Digital Elevation Models, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.), V53B-1751.

Dwyer, J. L. Land processes data for environmental applications and global change studies available from the EROS Data Center Distributed Active Archive Center, paper

presented at IAF, International Astronautical Congress, 52nd, Toulouse, France; INTERNATIONAL ORGANIZATION; 1-5 Oct. 2001, 2001.

Dwyer, J. L. (2006), Remotely sensed data available from the US Geological Survey EROS Data Center, in *Earth science satellite remote sensing; data, computational processing, and tools*, edited by J. J. Qu, W. Gao, M. Kafatos, R. E. Murphy and V. V. Salomonson, Tsinghua University Press, Beijing & Springer-Verlag GmbH Berlin.

E, D., and Q. Shen (2004), Enhanced Destriping of Satellite Data of Ice Surface in Antarctica, *Chinese Journal of Polar Research*, 16(1), 1-10.

E, D., Q. Shen, Y. Xu, and G. Chen (2009), High-accuracy topographical information extraction based on fusion of ASTER stereo-data and ICESat/GLAS data in Antarctica, *Science in China, Series D: Earth Sciences*, 52(5), 714-722.

Ebert, A., E. Banzhaf, and J. McPhee The influence of urban expansion on the flood hazard in Santiago de Chile: A modeling approach using remote sensing data, paper presented at 2009 Joint Urban Remote Sensing Event, May 20, 2009 - May 22, IEEE Computer Society, Shanghai, China, 2009.

Ebert, K. A., and A. Yin (2004), A new structural model for the development of the Clemens Well Fault in the San Andreas fault system; Geological Society of America, 2004 annual meeting, *Geological Society of America, 2004 annual meeting, Denver, CO, United States, Nov. 7-10, 2004*, 36(5), 501.

Eckert, S., T. Kellenberger, and K. Itten (2005), Accuracy assessment of automatically derived digital elevation models from aster data in mountainous terrain, *International Journal of Remote Sensing*, 26(9), 1943-1957.

Eckmann, T. C. (2008), Comparing Measures of Subpixel Fire Sizes and Temperatures From ASTER and MODIS, *AGU Fall Meeting Abstracts*, 31(Abstract), 0304.

Eckmann, T. C., P. E. Dennison, and D. A. Roberts (2006), Retrieving Subpixel Fire Sizes From MODIS Using Multiple Endmember Spectral Mixture Analysis, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Eckmann, T. C., D. A. Roberts, and C. J. Still (2008), Using multiple endmember spectral mixture analysis to retrieve subpixel fire properties from MODIS, *Remote Sensing of Environment*, 112(10), 3773-3783.

Eckmann, T. C., D. A. Roberts, and C. J. Still (2009), Estimating subpixel fire sizes and temperatures from ASTER using multiple endmember spectral mixture analysis, *International Journal of Remote Sensing*, 30(22), 5851-5864.

Edgett, K., M. Ramsey, and P. Christensen Aerolian erosion, transport, and deposition of volcaniclastic sands among the shifting sand dunes, Christmas Lake Valley, Oregon: TIMS image analysis, paper presented at JPL, Summaries of the Fifth Annual JPL

Airborne Earth Science Workshop. Volume 2: TIMS Workshop p 13-16 (SEE N95-33789 12-42); UNITED STATES, 1995.

Eisinger, C. L., M. S. Ramsey, R. L. Wessels, and J. H. Fink Discriminating compositional variations on the silicic domes of Medicine Lake Volcano, CA, with the new airborne hyperspectral MODIS/ASTER simulator, paper presented at IAVCEI general assembly 2000; Exploring volcanoes; utilization of their resources and mitigation of their hazards, Volcanological Survey of Indonesia, Indonesia (IDN), 2000.

El Desouky, H. A., P. Muchez, S. Dewaele, A. Boutwood, and R. Tyler The stratiform copper mineralization of the Lufukwe Anticline, Lufilian Foreland, Democratic Republic Congo, paper presented at Geologica Belgica meeting 2006; 2nd Belgian geological congress, Liege, Belgium, Sept. 7-8, 2006, Geologica Belgica, Brussels, Belgium (BEL), Belgium (BEL), 2007.

El Desouky, H. A., P. Muchez, S. Dewaele, A. Boutwood, and R. Tyler (2008), Postorogenic origin of the stratiform Cu mineralization at Lufukwe, Lufilian foreland, Democratic Republic of Congo, *Economic Geology*, 103(3), 555-582.

El Tahir, M. E. H., A. Kaab, and C. Y. Xu (2010), Identification and mapping of soil erosion areas in the Blue Nile, Eastern Sudan using multispectral ASTER and MODIS satellite data and the SRTM elevation model, *Hydrology and Earth System Sciences*, 14(7), 1167-1178.

Eldeiry, A. A. M. (2006), Spatial modeling of soil salinity using remote sensing, GIS, and field data, 141-7189 pp, Colorado State University, Fort Collins, CO; 0053 Advisor: Adviser Luis Garcia.

Elhaddad, A., L. A. Garcia, and J. L. Chavez (2011), Using a surface energy balance model to calculate spatially distributed actual evapotranspiration, *Journal of Irrigation and Drainage Engineering*, 137(1), 17-26.

Ellis, J. (1999), NASA satellite systems for the non-renewable resource sector; Special edition on NASA Earth Science Enterprise Program; new applications and partnership opportunities for industry and society [modified], *Earth Observation Magazine*, 8(3), 46-48.

Elmahdy, S. I., S. Mansoor, H. Omer, and O. Alkouri (2008), Toward better mapping the ophiolite rocks of northern part of Oman Mountains using Landsat ETM+ and ASTER images, *International Journal of Geoinformatics*, 4(2), 51-58.

El-Nagdy, S., and M. G. Abdelsalam (2005), Hyper-spectral analysis of the Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) data; examples from the Neoproterozoic Um Nar banded iron formation, Egypt; Geological Society of America, South-Central Section, 39th annual meeting, *Geological Society of America, South-Central Section, 39th annual meeting, San Antonio, TX, United States, April 1-2, 2005*, 37(3), 7.

El-Nagdy, S. M. (2005), Multi-spectral and hyper-spectral analysis of the Advanced Spaceborne Thermal Emission and Spectrometer (ASTER) data; an example from the Neoproterozoic Um Nar banded iron formation (BIF), Egypt, University of Texas at Dallas, Richardson, TX, United States (USA), United States (USA).

Emery, J. P., D. P. Cruikshank, and J. Van Cleve (2006), Thermal emission spectroscopy (5.2-38 μm) of three Trojan asteroids with the Spitzer Space Telescope; detection of fine-grained silicates, *Icarus*, 182(2), 496-512.

Eneva, M. (2005), Thermal infrared ASTER observations of faults in Southern California, *American Geophysical Union 2005 fall meeting, San Francisco, CA, United States, Dec. 5-9, 2005*, 86(52, Suppl.), @Abstract T51B-1346.

Eneva, M., M. Coolbaugh, S. Bjornstad, and J. Combs Detection of surface temperature anomalies in the Coso geothermal field using thermal infrared remote sensing, paper presented at Geothermal Resources Council - Annual Meeting of the Geothermal Resources Council 2007 "Renewable Baseload Energy: Geothermal Heat Pumps to Engineered Reservoirs", Geothermal Resources Council, Davis, CA 95617-1350, 2007.

Eneva, M., M. Coolbaugh, and J. Combs Application of satellite thermal infrared imagery to geothermal exploration in east central California, paper presented at GRC 2006 Annual Meeting: Geothermal Resources-Securing Our Energy Future, Geothermal Resources Council, Davis, CA 95617-1350, United States, San Diego, CA, United States, 2006.

Eng, B. T., A. T. Murray, M. Pniel, G. Geller, C. Leff, and A. A. Schwartz Implementation of the ASTER science standard data product requirements in the EOSDIS system, paper presented at Earth observing system; Proceedings of the Conference, Denver, CO, Aug. 3-6, 1996; Bellingham, WA, Society of Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 2820), 1996, p. 218-229, Society of Photo-Optical Instrumentation Engineers, United States, 1996.

Ercanoglu, M. (2005), Landslide susceptibility assessment of SE Bartin (west Black Sea region, Turkey) by artificial neural networks, *Natural Hazards and Earth System Sciences (NHESS)*, 5(6), 979-992.

Eroglu, H., G. Cakir, F. Sivrikaya, and A. E. Akay (2010), Using high resolution images and elevation data in classifying erosion risks of bare soil areas in the Hatila Valley Natural Protected Area, Turkey, *Stochastic Environmental Research and Risk Assessment*, 24(5), 699-704.

Er-Raki, S., A. Chehbouni, J. Hoedjes, J. Ezzahar, B. Duchemin, and F. Jacob (2008), Improvement of FAO-56 method for olive orchards through sequential assimilation of thermal infrared-based estimates of ET, *Agricultural Water Management*, 95(3), 309-321.

Esbah, H., B. Deniz, B. Kara, and B. Kesgin (2010), Analyzing landscape changes in the Bafa Lake Nature Park of Turkey using remote sensing and landscape structure metrics, *Environmental monitoring and assessment*, 165(1-4), 617-632.

Esbah, H., B. Kara, B. Deniz, and B. Kesgin (2010), Changing Land Cover Characteristics of a Developing Coastal Town: A Case Study of Didim, Turkey, *Journal of Coastal Research*, 26(2), 274-282.

Estes, L. D., G. S. Okin, A. G. Mwangi, and H. H. Shugart (2008), Habitat selection by a rare forest antelope: A multi-scale approach combining field data and imagery from three sensors, *Remote Sensing of Environment*, 112(5), 2033-2050.

Estes, L. D., P. R. Reillo, A. G. Mwangi, G. S. Okin, and H. H. Shugart (2010), Remote sensing of structural complexity indices for habitat and species distribution modeling, *Remote Sensing of Environment*, 114(4), 792-804.

Evans, E., R. Essery, and R. Lucas (2008), Changing snow cover and the net mass balance of Storglaciaren, northern Sweden, *Annals of Glaciology*, 49(Journal Article), 199-204.

Evans, S. G., N. J. Roberts, and R. H. Guthrie (2006), Use of remote sensing data in the rapid charcaterisation of a major landslide disaster; the case of the catastrophic February 2006 landslide, Leyte Island, Philippines, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Evans, S. G., N. J. Roberts, A. Ischuk, K. B. Delaney, G. S. Morozova, and O. Tutubalina (2009), Landslides triggered by the 1949 Khait earthquake, Tajikistan, and associated loss of life, *Engineering Geology*, 109(3-4), 195-212.

Everett, J. R., R. J. Staskowski, C. Drechsel, R. D. Jacobi, and S. Fletcher Assessing the contribution of satellite hyperspectral data to petroleum exploration; Forty-first annual OPI conference, Ontario-New York oil and gas conference, paper presented at Forty-first annual OPI conference; Ontario-New York oil and gas conference, Niagara Falls, ON, Canada, Nov. 4-6, 2002, Canada (CAN), 2002.

Everett, J. R., R. J. Staskowski, and R. D. Jacobi (2004), Geochemical indications of fractured carbonate reservoirs in New York from ASTER data; AAPG annual meeting, *AAPG annual meeting, Dallas, TX, United States, April 18-21, 2004*, 13(Abstract), 43.

Everett, M. E. (2005), What do electromagnetic induction responses measure?, *The Leading Edge (Tulsa, OK)*, 24(2), 154-157.

Ezaka, T., Y. Kannari, F. Mills, H. Watanabe, M. Sano, and S. Chang (1992), Thermal airborne multispectral ASTER simulator and its preliminary results; 29th international geological congress; abstracts, *29th international geological congress, Kyoto, Japan, Aug. 24-Sept. 3, 1992*, 29(Abstract), 982.

Ezaka, T., Y. Kannari, F. Mills, H. Watanabe, M. Sano, and S. H. Chang Laboratory test results for an airborne ASTER simulator, paper presented at Sensor systems for the early earth observing system platforms; Proceedings of the Conference, Orlando, FL; UNITED STATES; 13-14 Apr. 1993, Bellingham, WA: Society for Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 1939), 1993.

Ezaka, T., and H. Watanabe ASTER simulation data for evaluation of Level 1 processing algorithms, paper presented at Platforms and Systems, Sep 6 1994, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, Rome, Italy, 1995.

Falkowski, M. J., P. E. Gessler, P. Morgan, A. T. Hudak, and A. M. S. Smith (2005), Characterizing and mapping forest fire fuels using ASTER imagery and gradient modeling, *Forest Ecology and Management*, 217(2-3), 129-146.

Fan, J., H. Zhao, and X. Guo DInSAR for land subsidence monitoring using high resolution COSMO-SkyMed SAR data: Preliminary results compared with ASAR, paper presented at 2010 2nd IITA Conference on Geoscience and Remote Sensing, IITA-GRS 2010, August 28, 2010 - August 31, IEEE Computer Society, Piscataway, NJ, 2010.

Farr, T. G. (2003), Short course: new satellite data for the field geologist, in *Geological Society of American Annual Meeting*, edited, Jet Propulsion Lab., California Inst. of Tech.; Pasadena, CA, Puerto Vallarta Mexico.

Fasbender, D., D. Tuia, P. Bogaert, and M. Kanevski (2008), Support-based implementation of bayesian data fusion for spatial enhancement: Applications to ASTER thermal images, *IEEE Geoscience and Remote Sensing Letters*, 5(4), 598-602.

Favier, V., M. Falvey, A. Rabatel, E. Praderio, and D. Lopez (2009), Interpreting discrepancies between discharge and precipitation in high-altitude area of Chile's Norte Chico region (26-32 degrees S), *Water Resources Research*, 45(Journal Article), W02424-W02424.

Feind, R. E., R. M. Welch, and T. A. Berendes ASTER polar cloud mask, paper presented at Infrared Spaceborne Remote Sensing IV, Aug 6-7 96, Denver, CO, USA, 1996.

Feldpausch, T. R. (2006), Selective logging in Amazonia: Forest structure, damage and biogeochemical changes, 140-3523 pp, Cornell University; 0058 Advisor: Adviser Susan J. Riha.

Feldpausch, T. R., A. J. McDonald, C. A. M. Passos, J. Lehmann, and S. J. Riha (2006), Biomass, harvestable area, and forest structure estimated from commercial

timber inventories and remotely sensed imagery in southern Amazonia, *Forest Ecology and Management*, 233(1), 121-132.

Feng, C., J.-W. Ma, Q. Dai, and X. Chen An improved method for cloud removal in ASTER data change detection, paper presented at 2004 IEEE International Geoscience and Remote Sensing Symposium Proceedings: Science for Society: Exploring and Managing a Changing Planet. IGARSS 2004, Sep 20-24 2004, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Anchorage, AK, United States, 2004.

Ferguson, D. J., T. D. Barnie, D. M. Pyle, C. Oppenheimer, G. Yirgu, E. Lewi, T. Kidane, S. Carn, and I. Hamling (2010), Recent rift-related volcanism in Afar, Ethiopia, *Earth and Planetary Science Letters*, 292(3-4), 409-418.

Ferrucci, F. (2004), Satellite monitoring of urban areas; Italia 2004; 32nd international geological congress; abstracts, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004*, 32(Abstract), 1227.

Fet, G. N. (2007), Satellite image processing for biodiversity conservation and environmental modeling in Kyrgyz Republic National Park, 81-2038 pp, Marshall University; 0817 Advisor: Adviser James O. Brumfield.

Fielding, L. W., M. Ozdogan, A. Al-Malki, F. El-Baz, and T. Kusky (2001), Remote sensing of groundwater upwellings off the northeastern coast of Oman by Landsat thermal data; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 346.

Fitzsimmons, K. E. Longitudinal and transverse dunes of the Lake Eyre Basin, paper presented at Advances in regolith; proceedings of the CRC LEME regional regolith symposia 2003, Cooperative Research Centre for Landscape Environments and Mineral Exploration, Bentley, West. Aust., Australia (AUS), Australia (AUS), 2003.

Fitzsimmons, K. E. (2007), Morphological variability in the linear dunefields of the Strzelecki and Tirari Deserts, Australia, *Geomorphology*, 91(1-2), 146-160.

Fitzsimmons, K. E., and K. L. Harper (2002), Imaging the dunes; desert dune dynamics and ASTER satellite imagery, *16th Victorian universities earth sciences conference, Melbourne, Victoria, Australia, Sept. 11, 2002*, 69(Abstract), 45.

Flueraru, C., G. Stancalie, V. Craciunescu, and E. Savin (2007), A Validation of MODIS Snowcover Products in Romania: Challenges and Future Directions, *Transactions in GIS*, 11(6), 927-941.

Flynn, L. P., A. J. L. Harris, P. J. Mouginis-Mark, L. R. Geschwind, S. K. Rowland, and K. A. Horton (2002), The Pu'u 'O'o eruption; space-borne remote sensing of the

evolving lava flow field; AGU 2002 fall meeting, *American Geophysical Union 2002 fall meeting, San Francisco, CA, United States, Dec. 6-10, 2002*, 83(47), 1438.

Folfas, A. P. (2008), Geologic mapping of the Changgo Dome in southern Tibet using ASTER imagery, 105-105 pp, Wright State University, Dayton, OH, United States (USA), United States (USA).

Folger, H. W., B. E. Hubbard, J. Duval, A. E. McCafferty, and R. Page (2006), Synergistic use of airborne gamma-ray survey data and ASTER imagery for mapping cross-border radon potential in the lower Rio Grande Valley, South Texas USA and north Tamaulipas Mexico; Geological Society of America, South-Central Section, 40th annual meeting, *Geological Society of America, South-Central Section, 40th annual meeting, Norman, OK, United States, March 6-7, 2006*, 38(1), 7.

Foppa, N., A. Hauser, D. Oesch, S. Wunderle, and R. Meister (2007), Validation of operational AVHRR subpixel snow retrievals over the European Alps based on ASTER data, *International Journal of Remote Sensing*, 28(21), 4841-4865.

Foppa, N., S. Wunderle, and A. Hauser Operational snow cover estimation at subpixel scale using NOAA-AVHRR data, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology II, Sep 23-26 2002, The International Society for Optical Engineering, Agia Pelagia, Greece, 2002.

Ford, A. L. J., R. R. Forster, R. L. Bruhn, C. F. Raymond, and K. van der Veen (2003), Ice surface velocity patterns on Seward Glacier, Alaska/Yukon, and their implications for regional tectonics in the Saint Elias Mountains; Papers from the International symposium on Fast glacier flow, *International symposium on Fast glacier flow, Yakutat, AK, United States, June 10-14, 2002*, 36(Journal Article), 21-28.

Forman, S. (2004), Pilot Study for Using Aster Images to map Glacial Geomorphology, edited, p. 0, Illinois Univ.; Chicago, IL.

Forstall, C. W., S. L. Haight, and B. R. Hargreaves (2005), Using ASTER data to quantify riparian canopy area for a range of stream orders in eastern Pennsylvania, USA; Geological Society of America, Northeastern Section, 40th annual meeting, *Geological Society of America, Northeastern Section, 40th annual meeting, Saratoga Springs, NY, United States, March 14-16, 2005*, 37(1), 57.

Forte, A. M., E. Cowgill, T. Bernardin, O. Kreylos, and B. Hamann (2007), Focusing of 50-80 percent of total Arabia-Eurasia convergence since 5 Ma along the southern margin of the Greater Caucasus; effect of strain localization along the margins of a rigid inclusion within a young orogen?, *American Geophysical Union 2007 fall meeting, San Francisco, CA, USA, United States, Dec. 10-14, 2007*, 88(52, Suppl.), T13H-07.

Forte, A. M., E. Cowgill, T. Bernardin, O. Kreylos, and B. Hamann (2010), Late Cenozoic deformation of the Kura fold-thrust belt, southern Greater Caucasus, *Geological Society of America Bulletin*, 122(3-4), 465-486.

Fourniadis, I. G., J. G. Liu, and P. J. Mason (2007), Landslide hazard assessment in the Three Gorges area, China, using ASTER imagery: Wushan-Badong, *Geomorphology*, 84(1-2), 126-144.

Fourniadis, I. G., J. G. Liu, and P. J. Mason (2007), Regional assessment of landslide impact in the Three Gorges area, China, using ASTER data; Wushan-Zigui, *Landslides*, 4(3), 267-278.

Foy, N., and L. Copland (2009), Volumetric and area changes of the Kaskawulsh Glacier, Yukon Territory, Canada, *European Geosciences Union general assembly 2009, Vienna, Austria, April 19-24, 2009*, 11(Abstract), EGU2009-1392.

Franklin, J. (2007), Spectral Mixture Analysis of Aster Images to Estimate Forest Biomass and Habitat, edited, p. 15, Washington Univ.; Seattle, WA.

Franklin, J. (2008), Spectral Mixture Analysis of Aster Images to Estimate Forest Biomass and Habitat, edited, p. 8, Washington Univ.; Seattle, WA.

Fredley, J. E. Accommodation of the EOS AM instrument set using capillary pumped heat transport/technology, paper presented at 22nd International Conference on Environmental Systems, Jul 13-16 1992, Publ by SAE, Warrendale, PA, USA, Seattle, WA, USA, 1992.

French, A., F. Jacob, T. Schmugge, and W. Kustas Comparing surface energy flux models using ASTER imagery over Oklahoma, paper presented at 2002 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2002), Jun 24-28 2002, Institute of Electrical and Electronics Engineers Inc, Toronto, Ont., Canada, 2002.

French, A., F. Jacob, T. Schmugge, and W. Kustas (2002), Comparing Two Surface Energy Flux Models Using Aster Imagery Over Jornada, New Mexico, *EGS XXVII General Assembly, Nice, 21-26 April 2002, abstract #3270*, 27(Abstract), 3270.

French, A. N., P. Houser, A. Pinheiro, and J. Meng Land surface temperature estimation for hydrological assimilation (2004 - 18Hydro), 2004.

French, A. N., P. Houser, A. Pinheiro, and J. Meng Land surface temperature estimation for hydrological assimilation (2004 - 18Hydro), 2004.

French, A. N., et al. (2005), Surface energy fluxes with the Advanced Spaceborne Thermal Emission and Reflection radiometer (ASTER) at the Iowa 2002 SMACEX site (USA), *Scientific Results from ASTER*, 99(1-2), 55-65.

French, A. N., et al. (2005), Erratum: Surface energy fluxes with the Advanced Spaceborne Thermal Emission and Reflection radiometer (ASTER) at the Iowa 2002 SMACEX site (USA) (Remote Sensing of Environment (2005) 99:1 (55-65) DOI: 10.1016/j.rse.2005.05. 015), *Remote Sensing of Environment*, 99(4), 471.

French, A. N., F. Jacob, T. J. Schmugger, and W. P. Kustas (2002), TSEB vs. SEBAL: Comparison of two Surface Energy Flux Models, *AGU Spring Meeting Abstracts*, 51(Abstract), 07.

French, A. N., T. Schmugge, J. Ritchie, A. Hsu, F. Jacob, K. Ogawa, and A. Inamdar (2006), Monitoring vegetation cover changes over a semi-arid rangeland with multispectral ASTER thermal infrared emissivities, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

French, A. N., T. J. Schmugge, F. Jacob, and K. Ogawa Two surface temperature retrieval methods compared over agricultural lands, paper presented at Remote Sensing for Agriculture Ecosystems, and Hydrology IV, Sep 22-25 2002, The International Society for Optical Engineering, Agia Pelagia, Greece, 2002.

French, A. N., T. J. Schmugge, and W. P. Kustas Estimating evapotranspiration with ASTER thermal infrared imagery, paper presented at 2001 International Geoscience and Remote Sensing Symposium (IGARSS 2001), Jul 9-13 2001, Institute of Electrical and Electronics Engineers Inc, Sydney, NSW, 2001.

French, A. N., T. J. Schmugge, and W. P. Kustas Combined visible-near infrared and multi-band thermal infrared data for discrimination of vegetated and bare surfaces, paper presented at 2000 Internaitonal Geoscience and Remote Sensing Symposium (IGARSS 2000), Jul 24-Jul 28 2000, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ, USA, Honolulu, HI, USA, 2000.

French, A. N., T. J. Schmugge, and W. P. Kustas (2000), Discrimination of senescent vegetation using thermal emissivity contrast, *Remote Sensing of Environment*, 74(2), 249-254.

French, A. N., T. J. Schmugge, W. P. Kustas, K. L. Brubaker, and J. Prueger (2003), Surface energy fluxes over El Reno, Oklahoma, using high-resolution remotely sensed data, *Water Resources Research*, 39(6), 31-312.

French, A. N., T. J. Schmugge, J. C. Ritchie, A. Hsu, F. Jacob, and K. Ogawa Vegetation change detection using thermal band emissivities over Jornada, New Mexico, USA, paper presented at IAHS Symposium on Remote Sensing for Environmental Monitoring and Change Detection - 24th General Assembly of the International Union of Geodesy and Geophysics (IUGG), IAHS Press, Wallingford, Oxfordshire, OX10 8BB, United Kingdom, 2007.

French, A. N., T. J. Schmugge, J. C. Ritchie, A. Hsu, F. Jacob, and K. Ogawa (2008), Detecting land cover change at the Jornada Experimental Range, New Mexico with ASTER emissivities, *Remote Sensing of Environment*, 112(4), 1730-1748.

Freund, F., and D. Ouzounov (2001), Earth-Atmospheric Coupling Prior to Strong Earthquakes Analyzed by IR Remote Sensing Data, *AGU Fall Meeting Abstracts*, 32(Abstract), 0627.

Frey, C. M., G. Rigo, and E. Parlow (2007), Urban radiation balance of two coastal cities in a hot and dry environment, *International Journal of Remote Sensing*, 28(12), 2695-2712.

Frey, H., W. Haeberli, A. Linsbauer, C. Huggel, and F. Paul (2010), A multi-level strategy for anticipating future glacier lake formation and associated hazard potentials, *Natural Hazards and Earth System Sciences*, 10(2), 339-352.

Friesen, E., N. Miller, R. Stern, S. Arafat, and M. G. Abdelsalam (2005), Remote sensing and GIS as a cyberreconnaissance tool in northern Ethiopia and southern Eritrea; Geological Society of America, 2005 annual meeting, *Geological Society of America, 2005 annual meeting, Salt Lake City, UT, United States, Oct. 16-19, 2005*, 37(7), 108.

Fronabarger, A. K., and N. S. Levine (2004), The use of satellite data to map source rocks for the Theban necropolis near Luxor, Egypt; Geological Society of America, Northeastern Section, 38th annual meeting; Geological Society of America, Southeastern Section, 53rd annual meeting, *Geological Society of America, Northeastern Section, 38th annual meeting; Geological Society of America, Southeastern Section, 53rd annual meeting, Washington, DC, United States, March 25-27, 2004*, 36(2), 65.

Fu, B., Y. Awata, J. Du, and W. He (2005), Late Quaternary systematic stream offsets caused by repeated large seismic events along the Kunlun Fault, northern Tibet, *Geomorphology*, 71(3-4), 278-292.

Fu, B., Y. Awata, J. Du, Y. Ninomiya, and W. He (2005), Complex geometry and segmentation of the surface rupture associated with the 14 November 2001 great Kunlun earthquake, northern Tibet, China, *Tectonophysics*, 407(1-2), 43-63.

Fu, B., and A. Lin (2003), Spatial distribution of the surface rupture zone associated with the 2001 Ms 8.1 Central Kunlun earthquake, northern Tibet, revealed by satellite remote sensing data, *International Journal of Remote Sensing*, 24(10), 2191-2198.

Fu, B., W. M., Y. Ninomiya, and T. Y. The emissivity of rock samples collected from Yarlung Zangbo ophiolite belt, south Tibet, China, Japan, 1999.

Fu, B., Y. Ninomiya, X. Lei, T. Azuma, and Y. Awata (2004), Mapping the active fault triggered the 2003 MW 6.6 Bam (SE Iran) earthquake with ASTER DEM and 3D images; Italia 2004; 32nd international geological congress; abstracts, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004*, 32, Part 2(Abstract), 1181.

Fu, B., Y. Ninomiya, X. Lei, S. Toda, and Y. Awata (2004), Mapping active fault associated with the 2003 Mw 6.6 Bam (SE Iran) earthquake with ASTER 3D images, *Remote Sensing of Environment*, 92(2), 153-157.

Fu, B. H., G. D. Zheng, Y. Ninomiya, C. Y. Wang, and G. Q. Sun (2007), Mapping hydrocarbon-induced mineralogical alteration in the northern Tian Shan using ASTER multispectral data, *Terra Nova*, 19(4), 225-231.

Fu, B. M. K., and Y. Ninomiya The preliminary analysis and evaluation of remote sensing data for lithologic mapping in Beishan area, northwestern Gansu Province, China, Japan, 1998.

Fuchs, H., P. Magdon, C. Kleinn, and H. Flessa (2009), Estimating aboveground carbon in a catchment of the Siberian forest tundra: Combining satellite imagery and field inventory, *Remote Sensing of Environment*, 113(3), 518-531.

Fuckner, M. A. (2008), ASTER Image Application in the Urban Environmental Study of Sao Paulo and Rio de Janeiro, 235-235 pp, Instituto de Pesquisas Espaciais; Sao Jose dos Campos, Brazil, Instituto de Pesquisas Espaciais; Sao Jose dos Campos, Brazil.

Fujimura, H., and G. Yoshinori Spectral reflectance characteristic of masa soil, Japan, 1999.

Fujisada, H. Design and performance of ASTER instrument, paper presented at Advanced and Next-Generation Satellites, Sep 25-28 95, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, Paris, Fr, 1995.

Fujisada, H. Overview of ASTER instrument on EOS-AM1 platform, paper presented at Infrared spaceborne remote sensing II; Proceedings of the Conference, San Diego, CA; UNITED STATES; 27-29 July 1994, Bellingham, WA: Society of Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 2268), 1994.

Fujisada, H. (1995), Overview of ASTER Instrument, *Journal of Remote Sensing Society of Japan*, 15, NO.2(Journal Article), PAGE.100-107.

Fujisada, H. (1998), ASTER Level-1 data processing algorithm, *IEEE Transactions on Geoscience and Remote Sensing*, 36(4), 1101-1112.

Fujisada, H., G. B. Bailey, G. G. Kelly, S. Hara, and M. J. Abrams (2005), ASTER DEM performance, *IEEE Transactions on Geoscience and Remote Sensing*, 43(12), 2707-2713.

Fujisada, H., A. Iwasaki, and S. Hara ASTER stereo system performance, paper presented at Sensors, Systems, and Next-Generation Satellites V, Sep 17-20 2001, The International Society for Optical Engineering, Toulouse, France, 2001.

Fujisada, H., A. Iwasaki, F. Sakuma, S. Hara, and H. Watanabe Comprehensive performance of ASTER instrument over four years of operation, paper presented at Sensors, Systems, and Next-Generation Satellites VIII, Sep 13-15 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Maspalomas, Spain, 2004.

Fujisada, H., J. B. Lurie, and K. Weber Fifth Conference on Sensors, Systems, and Next-Generation Satellites, Toulouse, France, Sept. 17-21, 2001, paper presented at UNITED STATES, the International Society for Optical Engineering Proceedings of SPIE, the International Society for Optical Engineering, 2001.

Fujisada, H., and A. Ono Anticipated performance of ASTER instrument in EM design phase (elevation model), paper presented at Sensor systems for the early earth observing system platforms; Proceedings of the Conference, Orlando, FL; UNITED STATES; 13-14 Apr. 1993, Bellingham, WA: Society for Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 1939), 1993.

Fujisada, H., and A. Ono Overview of ASTER design concept, paper presented at Future European and Japanese Remote-Sensing Sensors and Programs, Apr 1-2 1991, Publ by Int Soc for Optical Engineering, Bellingham, WA, USA, Orlando, FL, USA, 1991.

Fujisada, H., and A. Ono (1992), Preliminary design concept and development targets of Japanese optical sensor for EOS-A, *UNITED KINGDOM*, 12(7), 323-326.

Fujisada, H., and A. Ono (1994), Observational performance of ASTER instrument on EOS-AM1 spacecraft, *Advances in Space Research*, 14(3), 4; p. (3)147-(143)150.

Fujisada, H., F. Sakuma, A. Ono, and M. Kudoh (1998), Design and preflight performance of ASTER instrument protoflight model, *IEEE Transactions on Geoscience and Remote Sensing*, 36(4), 1152-1160.

Fujisada, H., and H. Watanabe ASTER Level-1 data processing concept, paper presented at Platforms and Systems, Sep 6 1994, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, Rome, Italy, 1995.

Fujita, K., A. Sakai, T. Nuimura, S. Yamaguchi, and R. R. Sharma (2009), Recent changes in Imja Glacial Lake and its damming moraine in the Nepal Himalaya revealed by in situ surveys and multi-temporal ASTER imagery, *Environmental Research Letters*, 4(4), 045205-045205.

Fujita, K., R. Suzuki, T. Nuimura, and A. Sakai (2008), Performance of ASTER and SRTM DEMs, and their potential for assessing glacial lakes in the Lunana region, Bhutan Himalaya, *Journal of Glaciology*, 52(185), 220-228.

Fukue, K. (1995), Preliminary study of image browsing system, *Tokai Daigaku Sogo Kagaku Gijutsu Kenkyujo Kenkyukai Shiryoshu*, NO.14(1994)(Journal Article), PAGE.76-86.

Fukue, K., H. Fujisada, and M. Tokunaga New approach to ASTER orthoimage generation, paper presented at Infrared Spaceborne Remote Sensing IV, Aug 6-7 96, Denver, CO, USA, 1996.

Fukui, Y. (2003), A study on surface temperature patterns in the Tokyo Metropolitan area using ASTER data, *Geosciences Journal*, 7(4), 343-346.

Fukui, Y., Y. Hirose, and N. Mushiake A study on the surface temperature distribution and the urban structure in Tokyo with ASTER and LIDAR data, paper presented at 2002 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2002), Jun 24-28 2002, Institute of Electrical and Electronics Engineers Inc, Toronto, Ont., Canada, 2002.

Fukushima, M. Thermal control system of ASTER, paper presented at SAE 1994 Transactions, Journal of Aerospace. Section 1 - Vol. 103 (A96-40177 11-31); UNITED STATES, Warrendale, PA: Society of Automotive Engineers, Inc., 1995.

Fukushima, M. Thermal control system of ASTER. II, paper presented at SAE, International Conference on Environmental Systems, 25th, San Diego, CA; UNITED STATES; 10-13 July 1995, 1995.

Fuller, D. O., A. Troyo, O. Calderon-Arguedas, and J. C. Beier (2010), Dengue vector (*Aedes aegypti*) larval habitats in an urban environment of Costa Rica analysed with ASTER and QuickBird imagery, *International Journal of Remote Sensing*, 31(1), 3-11.

Funahashi, M., M. Kawai, M. Setojima, Y. Imai, and T. Tachikawa Examination of forecast accuracy improvement of variation of vegetation by satellite data, 2006.

Funahashi, M., M. Setojima, R. Okazaki, M. Kawai, I. Yasuteru, and K. i. Okada Examination about grasp of the tree hieght of forest area by ASTR data, Japan, 2005.

Funahashi, M., M. Setojima, R. Okazaki, I. Yasuteru, and K. Yamamoto Examination about grasp of the tree height of urban forests by ASTR data, Japan, 2003.

Fung, T., L. L. H. So, Y. Chen, P. Shi, and J. Wang (2008), Analysis of green space in Chongqing and Nanjing, cities of China with ASTER images using object-oriented image classification and landscape metric analysis, *International Journal of Remote Sensing*, 29(24), 7159-7180.

Fung, W. Y., K. S. Lam, J. Nichol, and M. S. Wong (2009), Derivation of Nighttime Urban Air Temperatures Using a Satellite Thermal Image, *Journal of Applied Meteorology and Climatology*, 48(4), 863-872.

Furusawa, Y., Y. Todate, M. Minomura, H. Kuze, and T. Nobuo Atmospheric correction of Landsat -5/TM data using the 6S code-Derivation of aerosol distribution, Japan, 2003.

Furuta, A., W. Shiraki, and S. Obayashi (2004), Examination of a Generation Method for the ASTER-NDVI Image at the Non-Observational Day Using MODIS Data to be Observed on Two Different Days, *Papers on Environmental Information Science*, No.19(The 19th Conference on Environmental Information Science), 19(SPACE), 59-64.

Futoshi, F., O. Keishi, and K. Endo (1997), Spaceborne Cryocooler for Infrared Sensors, *Fuji Electric Journal*, 70,NO.6(Journal Article), PAGE.338-342.

Gabr, S., A. Ghulam, and T. Kusky (2010), Detecting areas of high-potential gold mineralization using ASTER data, *Ore Geology Reviews*, 38(1-2), 59-69.

Gad, S., M. El-Shafei, and T. Kusky (2004), Integrated satellite remote sensing and field based structural analysis of the late Proterozoic Wadi Kid metamorphic belt, Sinai Peninsula, Egypt; Geological Society of America, North-Central Section, 38th annual meeting; 2004 abstracts with programs, *Geological Society of America, North-Central Section, 38th annual meeting, Saint Louis, MO, United States, April 1-2, 2004*, 36(3), 19.

Gad, S., and T. Kusky (2007), ASTER spectral ratioing for lithological mapping in the arabian-nubian shield, the neoproterozoic Wadi Kid area, Sinai, Egypt, *Gondwana Research*, 11(3), 326-335.

Gad, S. A. (2007), Proterozoic geologic and tectonic evolution of the Wadi Kid area, Sinai, Egypt, based on field and satellite remote sensing studies, 137-5818 pp, Saint Louis University; 0193 Advisor: Adviser Timothy M. Kusky, Saint Louis, MO.

Gallo, K., and L. Ji Multi-sensor Analysis of Urban Ecosystems, paper presented at Space 2004 Conference and Exhibit; San Diego, CA; USA; 28-30 Sept. 2004, American Institute of Aeronautics and Astronautics, 1801 Alexander Bell Drive, Suite 500, Reston, VA, 20191-4344, USA, [URL:<http://www.aiaa.org>], 2004.

Galster, J. C., E. McFadden, J. M. Ramage, and D. T. Rodbell (2006), The Spatial Variation of Modern and LLGM Reconstructed ELAs in the Cordilleras Raura and Huayhuash, Peru, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Galvao, L. S., R. Almeida, and I. Vitorello (2005), Spectral discrimination of hydrothermally altered materials using ASTER short-wave infrared bands: Evaluation in a tropical savannah environment, *International Journal of Applied Earth Observation and Geoinformation*, 7(2), 107-114.

Galvao, L. S., A. R. Formaggio, E. G. Couto, and D. A. Roberts (2008), Relationships between the mineralogical and chemical composition of tropical soils and topography

from hyperspectral remote sensing data, *ISPRS Journal of Photogrammetry and Remote Sensing*, 63(2), 259-271.

Galvao, L. S., A. R. Formaggio, and D. A. Tisot (2006), The influence of spectral resolution on discriminating Brazilian sugarcane varieties, *International Journal of Remote Sensing*, 27(4), 769-777.

Gamanya, R., P. De Maeyer, and M. De Dapper (2007), An automated satellite image classification design using object-oriented segmentation algorithms: A move towards standardization, *Expert Systems with Applications*, 32(2), 616-624.

Ganas, A., E. Lagios, G. Petropoulos, and B. Psiloglou (2010), Thermal imaging of Nisyros volcano (Aegean Sea) using ASTER data: Estimation of radiative heat flux, *International Journal of Remote Sensing*, 31(15), 4033-4047.

Ganev, P. N., and A. Yin (2005), Geometry and kinematics of active faults in the Mongolian-Chinese Altai Mountains; results from analysis of ASTER and DISP satellite images; AGU 2005 fall meeting, *American Geophysical Union 2005 fall meeting, San Francisco, CA, United States, Dec. 5-9, 2005*, 86(52, Suppl.), @Abstract T41A-1269.

Gangopadhyay, P. K., B. Maathuis, and P. Van Dijk (2005), ASTER-derived emissivity and coal-fire related surface temperature anomaly: A case study in Wuda, north China, *International Journal of Remote Sensing*, 26(24), 5555-5571.

Gangopadhyay, P. K., F. van der Meer, and P. van Dijk (2009), Detecting anomalous CO<sub>2</sub> flux using space borne spectroscopy, *International Journal of Applied Earth Observation and Geoinformation*, 11(1), 1-7.

Gani, N. D. (2006), Geological evolution and incision history of the Gorge of the Nile on Ethiopian Plateau from remote sensing and geographic information system analysis, and field studies, 148-1333 pp, The University of Texas at Dallas; 0382 Advisor: Adviser Mohamed G. Abdelsalam.

Gani, N. D. S., and M. G. Abdelsalam (2006), Remote sensing analysis of the Gorge of the Nile, Ethiopia with emphasis on Dejen-Gohatsion region, *Journal of African Earth Sciences*, 44(2), 135-150.

Gao, F., and J. Masek (2007), Retrieving Moderate Resolution Biophysical Parameters by Fusing Landsat-like Data and MODIS Land Products, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 88(52,; Suppl. Volume 1-2).

Gao, F., J. G. Masek, and R. E. Wolfe (2009), Automated registration and orthorectification package for Landsat and Landsat-like data processing, *Journal of Applied Remote Sensing*, 3(Journal Article), 033515-033515.

Gao, F., J. G. Masek, R. E. Wolfe, and C. Huang (2010), Building a consistent medium resolution satellite data set using moderate resolution imaging spectroradiometer

products as reference, *Journal of Applied Remote Sensing*, 4(Journal Article), 043526-043526.

Gao, F., J. G. Masek, R. E. Wolfe, and B. Tan Normalizing landsat and ASTER data using MODIS data products for forest change detection, paper presented at 2010 30th IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Gao, H., X. Gu, T. Yu, H. Gong, J. Li, and X. Li (2010), HJ-1A HSI on-orbit radiometric calibration and validation research, *Science China-Technological Sciences*, 53(11), 3119-3128.

Gao, J. (2008), Mapping of land degradation from ASTER data: A comparison of object-based and pixel-based methods, *Geoscience & Remote Sensing*, 45(2), 149-166.

Gao, J., and Y. Liu (2010), Determination of land degradation causes in Tongyu County, Northeast China via land cover change detection, *International Journal of Applied Earth Observation and Geoinformation*, 12(1), 9-16.

Gao, J., and Y. S. Liu (2008), Mapping of land degradation from space: a comparative study of Landsat ETM+ and ASTER data, *International Journal of Remote Sensing*, 29(14), 4029-4043.

Gao, J., and J. Maro (2010), Topographic controls on evolution of shallow landslides in pastoral Wairarapa, New Zealand, 1979-2003, *Geomorphology*, 114(3), 373-381.

Garcia, M., C. Oyonarte, L. Villagarcia, S. Contreras, F. Domingo, and J. Puigdefabregas (2008), Monitoring land degradation risk using ASTER data: The non-evaporative fraction as an indicator of ecosystem function, *Remote Sensing of Environment*, 112(9), 3720-3736.

Garcia, M., L. Villagarcia, S. Contreras, F. Domingo, and J. Puigdefabregas (2007), Comparison of three operative models for estimating the surface water deficit using ASTER reflective and thermal data, *Sensors*, 7(6), 860-883.

Garcia-Moreno, F., G. Fargant, F. Guerin, C. Israbian, J. C. Mathieu, J. Michaud, A. Bardoux, O. Hagolle, and J. P. Lagouarde MISTIGRI Instrumental concept for high resolution thermal infrared imaging, paper presented at Infrared Spaceborne Remote Sensing and Instrumentation XVII, August 5, 2009 - August 6, SPIE, Bellingham WA, 2009.

Garcia-Villacorta, R. (2005), Linking floristic patterns to edaphic gradients and remote sensing in Peruvian Amazonia, 82-241 pp, University of Missouri - Saint Louis; 0481 Advisor: Adviser Robert E. Ricklefs.

Gebremichael, M., J. Wang, and T. W. Sammis (2010), Dependence of remote sensing evapotranspiration algorithm on spatial resolution, *Atmospheric Research*, 96(4), 489-495.

Gebreslasie, M. T., F. B. Ahmed, and J. A. N. van Aardt (2008), Estimating plot-level forest structural attributes using high spectral resolution ASTER satellite data in even-aged Eucalyptus plantations in southern KwaZulu-Natal, South Africa, *Southern Forests*, 70(3), 227-236.

Gebreslasie, M. T., F. B. Ahmed, and J. A. N. van Aardt (2009), Image-based reflectance conversion of ASTER and IKONOS imagery as precursor to structural assessment of plantation forests in KwaZulu-Natal, South Africa, *Southern Forests*, 71(4), 259-265.

Gebreslasie, M. T., F. B. Ahmed, and J. A. N. van Aardt (2010), Predicting forest structural attributes using ancillary data and ASTER satellite data, *International Journal of Applied Earth Observation and Geoinformation*, 12(Journal Article), S23-S26.

Geek, J., and M. Nolan Volume Change of Brooks Range Glaciers 1956-2004, paper presented at 2006 Arctic Science Conference, Fairbanks, AK (USA), 2-4 Oct 2006, American Association for the Advancement of Science, 1200 New York Avenue, NW Washington DC 20005 USA, [URL:<http://www.aaas.org>], 2006.

Geller, G. (1999), ASTER Standard Data Product Specification, edited.

Geller, G. N., M. Pniel, and N. Dehghani ASTER science data processing development: a look back, paper presented at IGARSS 2001, Sydney Australia, 2001.

Genkova, I., G. Seiz, P. Zuidema, G. Zhao, and L. Di Girolamo (2007), Cloud top height comparisons from ASTER, MISR, and MODIS for trade wind cumuli, *Multi-Angle Imaging SpectroRadiometer (MISR)*, 107(1-2), 211-222.

Genkova, I., G. Zhao, G. Seiz, E. Snodgrass, M. Colon, L. di Girolamo, and B. Rauber Validation of trade wind cumulus cloud properties derived from meteorological satellites, paper presented at Remote Sensing of Clouds and the Atmosphere X; Bruges; Belgium; 19-21 Sept. 2005, 2005.

George, R., R. Bohannon, L. Snee, and P. Chirico (2004), Using satellite-based mapping and reconnaissance field work to assess the emerald resources of the Panjsher Valley, Afghanistan; Geological Society of America, 2004 annual meeting, *Geological Society of America, 2004 annual meeting*, Denver, CO, United States, Nov. 7-10, 2004, 36(5), 583.

Georgiou, S., A. Shepherd, M. McMillan, and P. Nienow (2009), Seasonal evolution of supraglacial lake volume from ASTER imagery, *Dynamics in glaciology*, 50(52), 95-100.

Gersman, R., E. Ben-Dor, M. Beyth, and D. Avigad (2006), Hyperspectral remote sensing as a tool for geological exploration; examples from the northern Danakil Depression, Eritrea, *Israel Geological Society annual meeting 2006, Bet-Shean, Israel, Feb. 19-21, 2006*(Abstract), 44.

Gersman, R., E. Ben-Dor, M. Beyths, D. Avigad, M. Abraha, and A. Kibreab (2008), Mapping of hydrothermally altered rocks by the EO-1 hyperspectral sensor, northern Danakil Depression, Eritrea, *International Journal of Remote Sensing*, 29(13-14), 3911-3936.

Ghaffari, A., G. Priestnall, and M. L. Clarke Artificial neural networks and decision tree classifier performance on medium resolution ASTER data to detect gully networks in southern Italy, paper presented at Image Processing: Algorithms and Systems, Neural Networks, and Machine Learning, SPIE - The International Society for Optical Engineering, San Jose, CA, USA, 2006.

Ghoneim, E. M., M. Ozdogan, A. Almulla, M. Koch, K. Ahmad, and F. El-Baz (2005), Thermal anomalies in eastern Arabia; implication to groundwater recharge; Geological Society of America, 2005 annual meeting, *Geological Society of America, 2005 annual meeting, Salt Lake City, UT, United States, Oct. 16-19, 2005*, 37(7), 107.

Ghorefat, H. A. (2004), Hyperspectral and multispectral studies of evaporite minerals at White Sands, New Mexico, 384-1490 pp, The University of Texas at El Paso; 0459 Advisor: Advisers Philip C. Goodell Richard P. Langford Randy Keller Bernard Hubbard.

Ghorefat, H. A., P. C. Goodell, B. E. Hubbard, and R. E. Al Douri (2004), Spectral dimensionality comparison between multispectral Landsat 7 ETM+, ASTER, and EO-1 ALI, and hyperspectral AVIRIS and Hyperion; Geological Society of America, 2004 annual meeting, *Geological Society of America, 2004 annual meeting, Denver, CO, United States, Nov. 7-10, 2004*, 36(5), 140.

Ghulam, A., and Q. Qin (2007), Calculation of ETM + broadband albedos by radiative simulations, *Beijing Daxue Xuebao (Ziran Kexue Ban)/Acta Scientiarum Naturalium Universitatis Pekinensis*, 43(4), 474-483.

Giacco, F., C. Thiel, L. Pugliese, S. Scarpetta, and M. Marinaro (2010), Uncertainty Analysis for the Classification of Multispectral Satellite Images Using SVMs and SOMs, *IEEE Transactions on Geoscience and Remote Sensing*, 48(10), 3769-3779.

Giardino, M., W. Alberto, and L. Perotti (2008), Integrazione di geomatica e geomorfologia per l'analisi delle morfostrutture e delle deformazioni gravitative profonde di versante applicazioni in Valle di Susa (Alpi Occidentali). Geomatics and geomorphology integration for the analysis of morphostructures and deep-seated gravitational slope deformations; application in the Susa Valley (Western Alps), *Analisi geoambientale, cartografia geomorfologica e tecniche GIS per la gestione del territorio. Geoenvironmental analysis, geomorphological mapping and GIS techniques for land management*, 78(Journal Article), 105-112.

Gieske, A. S., M. T. Wubett, W. J. Timmermans, G. N. Parodi, P. Wolski, and A. Arneth Temperature-emissivity separation with ASTER and LANDSAT 7 imagery validation on the fringe of the Okavango Delta, Botswana, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology V; Barcelona, Spain; Sep. 8-10, 2003, 2004.

Giglio, L. (2006), Detection, evaluation, and analysis of global fire activity using MODIS data, 246-1344 pp, University of Maryland, College Park; 0117 Advisor: Adviser Christopher O. Justice.

Giglio, L., I. Csiszar, A. Restas, J. T. Morisette, W. Schroeder, D. Morton, and C. O. Justice (2008), Active fire detection and characterization with the advanced spaceborne thermal emission and reflection radiometer (ASTER), *Remote Sensing of Environment*, 112(6), 3055-3063.

Giglio, L., J. Descloitres, C. O. Justice, and Y. J. Kaufman (2003), An Enhanced Contextual Fire Detection Algorithm for MODIS, *Remote Sensing of Environment*, 87(2-3), 273-282.

Gigliotti, T. J. (2004), Mapping macrophyte vegetation in Onondaga Lake using IKONOS and ASTER image data (New York), 101-1836 pp, State University of New York College of Environmental Science and Forestry; 0213 Advisor: Major Professor Paul F. Hopkins.

Gilbertson, D. M., K. P. Hefferan, H. Admou, and A. Bond (2003), A comparison of ASTER and Landsat TM imagery, Bou Azzer Inlier, Morocco; Geological Society of America, 2003 annual meeting, *Geological Society of America, 2003 annual meeting, Seattle, WA, United States, Nov. 2-5, 2003*, 35(6), 259.

Gilichinsky, M., D. Melnikov, I. Melekestsev, N. Zaretskaya, and M. Inb (2010), Morphometric measurements of cinder cones from digital elevation models of Tolbachik volcanic field, central Kamchatka, *Canadian Journal of Remote Sensing*, 36(4), 287-300.

Gill, T., and S. Phinn (2008), Estimates of bare ground and vegetation cover from Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) short-wave-infrared reflectance imagery, *Journal of Applied Remote Sensing*, 2(1), 023511.

Gill, T. K., and S. R. Phinn (2009), Improvements to ASTER-derived fractional estimates of bare ground in a savanna rangeland, *IEEE Transactions on Geoscience and Remote Sensing*, 47(2), 662-670.

Gillespie, A., M. Abrams, and Y. Yamaguchi (2005), Scientific results from ASTER, *Scientific Results from ASTER*, 99(1-2), 1.

Gillespie, A., T. Matsunaga, S. Rokugawa, and S. Hook Temperature and emissivity separation from Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) images, paper presented at Infrared Spaceborne Remote Sensing IV, Aug 6-7 96, Denver, CO, USA, 1996.

Gillespie, A., S. Rokugawa, T. Matsunaga, J. S. Cothern, S. Hook, and A. B. Kahle (1998), A temperature and emissivity separation algorithm for Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) images, *IEEE Transactions on Geoscience and Remote Sensing*, 36(4), 1113-1126.

Gillespie, A., S. Rokugawa, T. Matsunaga, J. S. Cothern, S. Hook, and A. B. Kahle (1998), Temperature and emissivity separation algorithm for Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) images, *IEEE Transactions on Geoscience and Remote Sensing*, 36(4), 1113-1126.

Gillespie a, R., J. B. Adams, M. O. Smith, D. Gu, D. E. Sabol, and J. H. Zukin (1995), Forest Mapping Potential of ASTER, *Journal of Remote Sensing Society of Japan*, 15, NO.2(Journal Article), PAGE.154-163.

Gillespie a, R., and D. H. Clark (1995), Potential of ASTER for Inferring Paleoclimatic Conditions, *Journal of Remote Sensing Society of Japan*, 15, NO.2(Journal Article), PAGE.131-141.

Gillespie, A. R., A. B. Kahle, and A. D. Morrison ASTER contributions to Earth systems science, paper presented at Land satellite information in the next decade II: Sources and applications; Proceedings of the Conference, Washington, DC; UNITED STATES; 2-5 Dec. 1997, Bethesda, MD: American Society for Photogrammetry and Remote Sensing, 1997.

Gillespie, A. R., W. H. Li, D. G. Gu, J. B. Adams, and A. B. Kahle (1995), Measuring change in forest with EOS/ASTER; AGU 1995 fall meeting, *American Geophysical Union, 1995 fall meeting, San Francisco, CA, United States, Dec. 11-15, 1995*, 76(46), 132.

Gillies (2000), Extension of Atlanta/Houston urban heat island studies using aster imagery, edited, Utah State Univ.; Logan, UT.

Giri, C., and J. Muhlhausen (2008), Mangrove forest distributions and dynamics in Madagascar (1975-2005), *Sensors*, 8(4), 2104-2117.

Glasser, N., and K. Jansson (2008), The Glacial Map of southern South America, *Journal of Maps*(Journal Article), 175-196.

Glasser, N. F., S. Harrison, S. Ivy-Ochs, G. A. T. Duller, and P. W. Kubik (2006), Evidence from the Rio Bayo valley on the extent of the north Patagonian Icefield during the late Pleistocene-Holocene transition, *Quaternary Research*, 65(1), 70-77.

Glasser, N. F., and K. N. Jansson (2005), Fast-flowing outlet glaciers of the last glacial maximum Patagonian Icefield, *Quaternary Research*, 63(2), 206-211.

Glasser, N. F., K. N. Jansson, S. Harrison, and J. Kleman (2008), The glacial geomorphology and Pleistocene history of South America between 38 degrees S and 56 degrees S, *Quaternary Science Reviews*, 27(3-4), 365-390.

Glasser, N. F., K. N. Jansson, S. Harrison, and A. Rivera (2005), Geomorphological evidence for variations of the North Patagonian Icefield during the Holocene, *Geomorphology*, 71(3-4), 263-277.

Glazovskiy, A. F., V. M. Kotlyakov, and G. A. Nosenko (2003), Pervyy opty obrabotki kosmicheskikh snimkov lednikovykh rayonov Rossii v ramkakh proyekta GLIMS. First experience of space image reduction for glaciated Russian regions within framework of GLIMS Project, *Budushcheye glyatsiosfery v usloviyakh menyayushchegosya klimata, Pushchino, Russian Federation, May 17-21, 2002*, 94(Journal Article), 194-202.

Gleeson, D. F., R. T. Pappalardo, S. E. Grasby, and J. R. Spear (2006), Borup Fiord; a unique glacial environment of astrobiological significance and potential analogue to Europa exploration; Lunar and planetary science, XXVII; papers presented to the Thirty-seventh lunar and planetary science conference, *Thirty-seventh lunar and planetary science conference, Houston, TX, United States, March 13-17, 2006*, 37(Abstract).

Glenn, N., and S. Khan (2004), Mapping geology and structure in hyper-rugged terrain using ASTER remote sensing data; a case study from northern Pakistan, *American Geophysical Union 2004 fall meeting, San Francisco, CA, United States, Dec. 13-17, 2004*, 85(47, Suppl.), Abstract T43C-1340.

Glushkova, N., and V. Balandis (2004), Use of remote sensing data for geological prospecting (on example of Uronai ore unit), *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004*, 32, Part 2(Abstract), 942.

Glushkova, N. V., and V. A. Balandis Use of multispectral images for revealing landscape and geological characteristics of Uronai ore unit, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology III; Barcelona, Spain; Sep. 9-11, 2003, 2004.

Gomes da Silva, D. V., P. S. de Rezende Nascimento, R. A. Petta, L. A. N. de Paiva, and T. A. F. do Nascimento Utilizacao de imagens ETM+, Aster e HRV no mapeamento pedologico na regiao da provincia pegmatitica da Borborema. ETM+, ASTER and HRV imagery to map soils in the Borborema pegmatitic province, paper presented at Sociedade Brasileira de Geologia; 44 degrees congresso, Curitiba, BRA, Brazil, Oct. 26-31, 2008, Sociedade Brasileira de Geologia, Porto Alegre, Brazil (BRA), Brazil (BRA), 2008.

Gomez, C., P. Allemand, C. Delacourt, and P. Ledru (2005), Utilisation combinee de donnees de teledetection multi source; quel potentiel en cartographie geologique?. Utilization of teledetection from multi-sources; what is the potential in geologic mapping?, *Workshop international; Teledetection et systemes d'information geographique "Information spatiale et developpement durable", Rabat, Morocco, Nov. 14-16, 2005*, 20(Abstract), 12.

Gomez, C., C. Delacourt, P. Allemand, and P. Ledru Potentials and limitations of coupling ASTER and airborne geophysical data for improvement of geological mapping in arid region (Namibia, Rehoboth region), paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology III; Barcelona, Spain; Sep. 9-11, 2003, 2004.

Gomez, C., C. Delacourt, P. Allemand, P. Ledru, and R. Wackerle (2005), Using ASTER remote sensing data set for geological mapping, in Namibia, *Physics and Chemistry of the Earth, Parts A/B/C*, 30(1-3), 97-108.

Goncalves, H., J. A. Goncalves, and L. Corte-Real Automatic image registration through the segmentation of images preprocessed by joint histogram analysis, paper presented at Image and Signal Processing for Remote Sensing XV, August 31, 2009 - September 3, SPIE, Berlin, Germany, 2009.

Goncalves, J. A., and A. R. S. Marcal Automatic ortho-rectification of ASTER images by matching digital elevation models, paper presented at 4th International Conference, ICIAR 2007, Springer-Verlag, Montreal, Que., Canada, 2007.

Gongal, K., H. N. N. Bulley, P. K. Panday, and U. K. Haritashya Remote sensing and GIS-based assessment of glacier lake outburst flood potential in the Sagarmatha region of Nepal, paper presented at 2010 AAG annual meeting, Washington, DC, USA, United States, April 14-18, 2010, Association of American Geographers, Washington, DC, United States (USA), 2010.

Gonzalves, H., J. A. Gonzalves, and L. Corte-Real Automatic image registration based on correlation and Hough transform, paper presented at Image and Signal Processing for Remote Sensing XIV, SPIE - The International Society for Optical Engineering, USA, 2008.

Goodell, P. C., and H. Ghrefat (2002), White Sands, New Mexico, as part of an image-processing laboratory; Geology of White Sands, *53rd annual field conference of the New Mexico Geological Society, Albuquerque, NM, United States, Oct. 3-5, 2002*, 53(Journal Article), 353-355.

Goto, K., T. Kuroki, and N. Iso Environmental Index Analysis in the Steep Slope Area used by Satellite Data, paper presented at Proceedings of the General Meeting of the Association of Japanese Geographers, Association of Japanese Geographers, 2008.

Goto, T., H. Hasegawa, and K. Matsumoto The Database of the Ancient Sites in Mesopotamia based on Geospatial Information Data: The Case Study of Babil, IRAQ, paper presented at Proceedings of the General Meeting of the Association of Japanese Geographers, Association of Japanese Geographers, 2008.

Goulden, M. L., S. D. Miller, and H. R. da Rocha (2006), Nocturnal cold air drainage and pooling in a tropical forest, *Journal of Geophysical Research-Part D-Atmospheres*, 111(D8), 14.

Gowda, P. H., J. L. Chavez, P. D. Colaizzi, S. R. Evett, T. A. Howell, and J. A. Tolk (2007), Remote sensing based energy balance algorithms for mapping ET: Current status and future challenges, *Transactions of the American Society of Agricultural and Biological Engineers*, 50(5), 1639-1644.

Gowda, P. H., J. L. Chavez, P. D. Colaizzi, S. R. Evett, T. A. Howell, and J. A. Tolk (2008), ET mapping for agricultural water management: present status and challenges, *Irrigation Science*, 26(3), 223-237.

Gower, S. T. (1997), Validation of Aster and Modis Surface-Temperature and Vegetation Products with Surface-Flux Applications, edited, Wisconsin Univ.; Madison, WI.

Grant, K. L., C. R. Stokes, and I. S. Evans (2009), Identification and characteristics of surge-type glaciers on Novaya Zemlya, Russian Arctic, *Journal of Glaciology*, 55(194), 960-972.

Grant, P. S., E. A. Hildum, and M. C. Peck MODIS and ASTER airborne simulators system description, paper presented at Imaging Spectrometry VI, Jul 31-Aug 2 2000, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, San Diego, USA, 2000.

Griffis, K., and M. Bystrom Object-level semantic change interpretation for multi-band remotely sensed imagery, paper presented at 2008 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2008, IEEE, Piscataway, NJ, USA, 2008.

Griffis, K., and M. Bystrom Modeling and clustering techniques for multi-band change detection, paper presented at 2008 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2008, IEEE, Piscataway, NJ, USA, 2008.

Grunsky, E. (2003), Two papers on the use of hyperspectral airborne-satellite imagery in mineral exploration, *SEG Newsletter*, 55(Abstract), 24-25.

Gu, D. Q., Y. Z. Zhang, J. Fu, and X. L. Zhang (2007), The landscape pattern characteristics of coastal wetlands in Jiaozhou Bay under the impact of human activities, *Environmental monitoring and assessment*, 124(1-3), 361-370.

Guang, J., Y. Xue, L. Bai, and J. Guo Application of AOT products derived from ASTER data to the air pollution research around the Beijing Olympic Games area, paper presented at Remote Sensing of the Environment: 16th National Symposium on Remote Sensing of China, SPIE - The International Society for Optical Engineering, USA, 2008.

Guang, J., Y. Xue, L. Bai, W. Wan, Y. Wang, Y. Li, and X. Li An investigation of air pollution in Hong Kong with ASTER data, paper presented at IGARSS 2008 - 2008 IEEE International Geoscience and Remote Sensing Symposium, IEEE, Piscataway, NJ, USA, 2008.

Guha, A., K. V. Kumar, and M. V. V. Kamaraju (2008), A satellite-based study of coal fires and open-cast mining activity in Raniganj coalfield, West Bengal, *Current science*, 95(11), 1603-1607.

Guimaraes, R. F., O. A. d. C. Junior, E. d. S. Martins, A. P. F. de Carvalho, and R. A. T. Gomes Detection of karst depression by ASTER image in the Bambui Group, Brazil, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology V; Bruges; Belgium; 19-20 Sept. 2005, 2005.

Guo, W., and J. Zhang (2005), Extraction of land use classification information of suburb of Nanjing city using ASTER image, *Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering*, 21(9), 62-66.

Guo, X., T. Kusky, and Z. Li (2009), Spatial and temporal deformation sequences of Daba Shan FTB and its relationships with adjacent tectonic units, central China, *Geological Society of America, 2009 annual meeting, Portland, OR, USA, United States, Oct. 18-21, 2009*, 41(7), 53.

Guo, Y., and Z. Shi (2003), Characteristics and Applications of ASTER, *Remote sensing Technology and Application*, 18(5), 346-352.

Guoyin, C., and D. Mingyi Relationship between thermal inertia and urban heat sink in Beijing derived from Satellite images, paper presented at Urban Remote Sensing Event, 2009 Joint, IEEE Computer Society, 2009.

Gupta, R. P., R. Chakraborty, and A. K. Awasthi (2009), Satellite data can cost effectively show oil field thermal anomalies, *Oil & Gas Journal*, 107(41), 34-36.

Gupta, S. K., A. C. Wilber, and D. P. Kratz (1999), Surface Emissivity Maps for Satellite Retrieval of the Longwave Radiation BudgetRep., 1-4 pp, NASA Langley Research Center; Hampton, VA.

Gurcay, B., B. T. San, E. O. Sumer, and M. Koruyucu (2005), Alunit ve kaolen minerallerinin ASTER goruntusu yardimiyla belirlenmesi--Determining alunite and kaolinite minerals with ASTER data, *58 Turkiye jeoloji kurultayi--58th geological congress of Turkey, Ankara, Turkey, April 11-17, 2005*, 58(Abstract), 206.

Gure, M., M. E. Ozel, H. H. Yildirim, and M. Ozdemir Use of satellite images for forest fires in area determination and monitoring, paper presented at 4th International Conference on Recent Advances in Space Technologies 2009, RAST '09, June 11, 2009 - June 13, IEEE Computer Society, Istanbul, Turkey, 2009.

Gustafson, G. B., J.-L. Moncet, C. F. Ivaldi, H.-C. Huang, and J. M. Sparrow (1991), Mesoscale prediction and satellite cloud analysis for advanced meteorological processing systems; Final Report (Final Report, Apr. 1988 - Dec. 1990) Rep. AD-A240510;PL-TR-91-2008, 1-143 pp, Atmospheric and Environmental Research, Inc.; Cambridge, MA, United States.

Gustafson, W. T., and A. Gillespie Onboard processing of orbital hyperspectral thermal infrared images, paper presented at 2002 IEEE Aerospace Conference; Big Sky, MT; Mar. 9-16, 2002, IEEE, Big Sky, MT, USA, 2002.

Gustafson, W. T., R. Handcock, A. R. Gillespie, and H. Tonooka An image-sharpening method to recover stream temperatures from ASTER images, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology II, Sep 23-26 2002, The International Society for Optical Engineering, Agia Pelagia, Greece, 2002.

Gustafson, W. T., R. N. Handcock, and A. R. Gillespie Image sharpening method to recover stream temperatures from ASTER images, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology II. Edited by Manfred Ehlers. Proceedings of the SPIE, Volume 4886, pp. 72-83 (2003). 2003.

Guth, P. L. (2003), Geomorphometry of DEMs; quality assessment and scale effects; Geological Society of America, 2003 annual meeting, *Geological Society of America, 2003 annual meeting, Seattle, WA, United States, Nov. 2-5, 2003*, 35(6), 445.

Haas, S., and R. Gloaguen Land cover classification and change detection as a basis for hydrological runoff modelling in the Main Ethiopian Rift Valley, paper presented at Geoscience and Remote Sensing Symposium, 2009 IEEE International, IGARSS 2009, IEEE, 2009.

Haboudane, D., and E. M. Bahri Deforestation detection and monitoring in cedar forests of the Moroccan Middle-Atlas Mountains, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Hadjimitsis, D. G., and K. Themistocleous Assessment of the effectiveness of atmospheric correction methods using standard calibration targets, ground measurements and aster images, paper presented at Remote Sensing of Clouds and the Atmosphere XIV, August 31, 2009 - September 1, SPIE, Berlin, Germany, 2009.

Haeberli, W., C. Huggel, A. Kaab, S. Zgraggen-Oswald, A. Pollkvoj, I. Galushkin, I. Zotikov, and N. Osokin (2004), The Kolka-Karmadon rock/ice slide of 20 September 2002; an extraordinary event of historical dimensions in North Ossetia, Russian Caucasus, *Journal of Glaciology*, 50(171), 533-546.

Hagihara, Y., Y. Seto, A. Maeda, H. Fujisada, and M. Kato Band-to-band registration method for ASTER with multi-telescopes, paper presented at Sensors, systems, and next-generation satellites; Proceedings of the Conference, London, United Kingdom, Sept. 22-25, 1997; Bellingham, WA, Society of Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 3221), 1997, p. 239-250, Society of Photo-Optical Instrumentation Engineers, United States, 1997.

Hagihara, Y., Y. Seto, Y. Tetsuo, and M. Kaku (1995), A Development for Registration Algorithm of Different Spectral Images, *IEIC Technical Report (Institute of Electronics, Information and Communication Engineers*, 95, NO.48(SANE95 7-11)(Journal Article), PAGE.1-7.

Hagihara, Y., T. Yoshimitsu, S. Yoichi, H. Fujisada, and M. Kato (1997), Development of Registration Algorithm for Satellite Images with Different Spectral Characteristics, *Journal of Remote Sensing Society of Japan*, 17, NO.3(Journal Article), PAGE.244-257.

Hahn, R. S., and D. P. Dethier (2005), Digital analysis of surficial materials, Colorado Front Range using field, GIS and ASTER techniques; Geological Society of America, Northeastern Section, 40th annual meeting, *Geological Society of America, Northeastern Section, 40th annual meeting, Saratoga Springs, NY, United States, March 14-16, 2005*, 37(1), 57-58.

Hai, P. M., and Y. Yamaguchi Characterizing the Urban growth of Hanoi, Nagoya, and Shanghai city using remote sensing and spatial metrics, paper presented at 2008 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2008, IEEE, Piscataway, NJ, USA, 2008.

Hai, P. M., and Y. Yamaguchi Monitoring the urbanization in Hanoi city center by Landsat and ASTER images, 2006.

Haight, S. L., C. W. Forstall, and B. R. Hargreaves (2005), Ground and satellite estimates of the penetration of ultraviolet and visible radiation through forest canopy in eastern Pennsylvania, USA; Geological Society of America, Northeastern Section, 40th annual meeting, *Geological Society of America, Northeastern Section, 40th annual meeting, Saratoga Springs, NY, United States, March 14-16, 2005*, 37(1), 32.

Hais, M., and T. Kucera (2009), The influence of topography on the forest surface temperature retrieved from Landsat TM, ETM+and ASTER thermal channels, *ISPRS Journal of Photogrammetry and Remote Sensing*, 64(6), 585-591.

Haixia, H., Z. Bing, L. Bo, Z. Wenjuan, and L. Ru Temperature and emissivity separation from ASTER data based on the urban land cover classification, paper presented at Urban Remote Sensing Event, 2009 Joint, IEEE Computer Society, 2009.

Haldemann, A. F., P. M. Andres, R. C. Anderson, N. A. Bryant, K. S. Capraro, E. M. DeJong, D. E. Kiefer, S. R. Levoe, T. L. Logan, and T. Stein (2002), Simulating a MER landing site remote sensing data set for the 2002 FIDO field test, in *AGU Fall Meeting 2002*, edited, San Francisco, CA United States.

Hall, D. K., J. E. Box, K. A. Casey, S. J. Hook, C. A. Shuman, and K. Steffen (2008), Comparison of satellite-derived and in-situ observations of ice and snow surface temperatures over Greenland, *Remote Sensing of Environment*, 112(10), 3739-3749.

Hall, J. L., J. A. Hackwell, D. M. Tratt, D. W. Warren, and S. J. Young Space-based mineral and gas identification using a high-performance thermal infrared imaging spectrometer, paper presented at Infrared Spaceborne Remote Sensing and Instrumentation XVI, SPIE, Bellingham WA, WA 98227-0010, United States, San Diego, CA, United States, 2008.

Hall, S. R., D. L. Farber, J. M. Ramage, D. T. Rodbell, R. C. Finkel, J. A. Smith, B. G. Mark, and C. Kassel (2009), Geochronology of Quaternary glaciations from the tropical Cordillera Huayhuash, Peru, *Quaternary Science Reviews*, 28(25-26), 2991-3009.

Hamade, A. K., M. A. Murphy, and S. A. Hall (2004), Controls on structural styles in the eastern Sierra Madre Oriental; Geological Society of America, 2004 annual meeting, *Geological Society of America, 2004 annual meeting, Denver, CO, United States, Nov. 7-10, 2004*, 36(5), 502.

Hambrey, M., D. Quincey, N. Glasser, S. Richardson, and J. Reynolds (2008), Formation, evolution and geomorphological context of Himalayan moraine dams; Mount Everest region, Nepal, 33rd *international geological congress, Oslo, Norway, Aug. 6-14, 2008*, 33(Abstract), @Abstract 1286310.

Hamilton, G. (2003), Antarctic Glaciology Using High-Resolution ASTER Satellite Imagery, edited, Maine Univ.; Orono, ME.

Hamilton, G. (2007), Dynamics of Polar Glaciers, Ice Sheets, and Ice Caps using Aster Data Products, edited, p. 11.

Hamilton, G. S. (2004), Assessing Changes in Arctic Glaciers and Ice Caps Using Aster Satellite Imagery: Evidence for Regional Climte Change, edited, Maine Univ.; Orono, ME.

Hamzaoui, A. (2005), Teledetection multispectrale et hyperspectrale appliquee a la recherche miniere. Multispectral and hyperspectral detection applied to mineral research, *Workshop international; Teledetection et systemes d'information*

géographique "Information spatiale et développement durable", Rabat, Morocco, Nov. 14-16, 2005, 20(Abstract), 34-35.

Handcock, R. N., A. R. Gillespie, K. A. Cherkauer, J. E. Kay, S. J. Burges, and S. K. Kampf (2006), Accuracy and uncertainty of thermal-infrared remote sensing of stream temperatures at multiple spatial scales, *Remote Sensing of Environment*, 100(4), 427-440.

Hang, Y., Z. Lifu, F. Junyong, Z. Xia, and T. Qingxi Algorithm research of building materials emissivity extracting, paper presented at 2010 30th IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Hannon, E., D. A. Kepert, D. Clark, M. Australasian Institute of, and C. V. Metallurgy (2005), From target generation to two billion tonnes in 18 months; the re-invention of the Chichester Range; Iron ore 2005 conference; proceedings, *Iron ore 2005 conference, Fremantle, West. Aust., Australia, Sept. 19-21, 2005*, 8/2005(Journal Article), 73-77.

Haraki, Y. (1998), Now and Future: Remote Sensing Technology Utilizing SatellitesRep.

Hardgrove, C., J. Moersch, D. M. Drake, J. Piatek, D. Wettergreen, and N. Cabrol (2006), Field tests and ground truthing of a surface-based neutron detector in the Atacama Desert, Chile; Lunar and planetary science, XXXVII; papers presented to the Thirty-seventh lunar and planetary science conference, *Thirty-seventh lunar and planetary science conference, Houston, TX, United States, March 13-17, 2006*, 37(Abstract).

Hardgrove, C., S. C. Whisner, and J. E. Moersch (2008), Thermophysical patterns in terrestrial alluvial fans for application to the study of Martian sedimentary features, *Thirty-ninth lunar and planetary science, Houston, TX, United States, March 10-14, 2008*, 1391(Abstract), @Abstract 1226.

Hardin, D. M., S. Graves, T. Sever, and D. Irwin (2006), Implementing GEOSS Goals in Mesoamerica through the SERVIR Project, *EOS Transactions, American Geophysical Union*, 87(36), 810.

Harijan, N., A. Kumar, S. Bhoi, and V. Tare (2003), Course of River Ganga over a century near Kanpur City based on remote sensing data, *Photonirvachak (Dehra Dun)*, 31(1), 1-2.

Harish Kumar, G. R., D. Singh, and A. Mittal Fusion of MODIS, AVHRR and ASTER data using curvelet transform for land cover classification, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Haritashya, U., J. Shroder, M. Bishop, H. Bulley, J. Olsenholle, Y. Lai, W. Ma, and S. Zhao Exposed glacial and debris-covered ice in the Hindu Kush, Afghanistan; Asian conference on Permafrost, paper presented at Asian conference on Permafrost, Lanzhou, Publisher unknown, China (CHN), China (CHN), 2006.

Haritashya, U. K., M. P. Bishop, J. F. Shroder, and H. N. Bulley (2007), Satellite Observations of Glacier Advances and Retreat in the Western Karakoram, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 88(52,; Suppl. Volume 1-2).

Haritashya, U. K., M. P. Bishop, J. F. Shroder, H. N. Bulley, J. A. Olsenholle, and J. N. Sartan (2006), Snowline and Glacier Assessment in the Central Hindu Kush, Afghanistan, Utilizing Multi- Temporal Satellite Imagery, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Haritashya, U. K., M. P. Bishop, J. F. Shroder, A. B. G. Bush, and H. N. N. Bulley (2009), Space-based assessment of glacier fluctuations in the Wakhan Pamir, Afghanistan, *International Young Scientists' Perspective on Global Change Issues*, 94(1-2), 5-18.

Harper, K. (2002), Application of ASTER satellite imagery, northern Flinders Ranges, South Australia, *16th Victorian universities earth sciences conference, Melbourne, Victoria, Australia, Sept. 11, 2002*, 69(Abstract), 58.

Harris, A. J. L., R. Wright, and L. P. Flynn (1999), Remote monitoring of Mount Erebus volcano, Antarctica, using polar orbiters; progress and prospects; Remote sensing of polar regions, *International Journal of Remote Sensing*, 20(15-16), 3051-3071.

Harris, P. M., and J. Ellis (2008), Satellite imagery and visualization of the Caicos Platform, *AAPG 2008 annual convention and exhibition, San Antonio, TX, United States, April 19-23, 2008*, 2008(Abstract), @unpaginated.

Harrison, S., N. Glasser, V. Winchester, E. Haresign, C. Warren, G. A. T. Duller, R. Bailey, S. Ivy-Ochs, K. Jansson, and P. Kubik (2008), Glaciar Leon, Chilean Patagonia; late-Holocene chronology and geomorphology, *The Holocene*, 18(4), 643-652.

Harrison, S., N. Glasser, V. Winchester, E. Haresign, C. Warren, and K. Jansson (2006), A glacial lake outburst flood associated with recent mountain glacier retreat, Patagonian Andes, *The Holocene*, 16(4), 611-620.

Harrison, S., K. Jansson, and N. Glasser (2005), Reconstructing palaeoclimates in southern South America; the role of geomorphological mapping, *Bulletin of The Society of Cartographers*, 39(1-2), 29-34.

Harrover, M. J., J. McCorriston, and E. A. Oches (2002), Geoarchaeology and the first farmers of southern Arabia; recent applications of Landsat and ASTER satellite imagery for survey and analysis; Geological Society of America, 2002 annual meeting,

*Geological Society of America, 2002 annual meeting, Denver, CO, United States, Oct. 27-30, 2002, 34(6), 380.*

Hartz, D. A., L. Prashad, B. C. Hedquist, J. Golden, and A. J. Brazel (2006), Linking satellite images and hand-held infrared thermography to observed neighborhood climate conditions, *Remote Sensing of Environment*, 104(2), 190-200.

Harvey, J. C., G. Peltzer, S. Hook, J. Myers, R. Dominguez, B. Coffland, M. Fitzgerald, and R. Alley (2005), Mapping active fault zones in Southern California using master multispectral imagery data; Geological Society of America, 2005 annual meeting, *Geological Society of America, 2005 annual meeting, Salt Lake City, UT, United States, Oct. 16-19, 2005, 37(7), 559.*

Harvey, J. C., G. F. Peltzer, S. J. Hook, R. Alley, J. Myers, B. Coffland, R. Dominguez, and M. Fitzgerald (2004), Mapping active fault zones in Southern California using MASTER multispectral imagery data, *American Geophysical Union 2004 fall meeting, San Francisco, CA, United States, Dec. 13-17, 2004, 85(47, Suppl.), Abstract G11A-0778.*

Hasaki, R., and I. Yasushi About a classification of the Arakawa area using ASTER TIR data, Japan, 2006.

Haselwimmer, C., T. Riley, and J. G. Liu (2008), Lithologic mapping in the Oscar II Coast area, Graham Land, Antarctic Peninsula using Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) data, *33rd international geological congress, Oslo, Norway, Aug. 6-14, 2008, 33(Abstract), Abstract 1336984.*

Haselwimmer, C. E., T. R. Riley, and J. G. Liu (2010), Assessing the potential of multispectral remote sensing for lithological mapping on the Antarctic Peninsula: case study from eastern Adelaide Island, Graham Land, *Antarctic Science*, 22(3), 299-318.

Hashimoto, H., S. Nakamura, M. Hasegawa, Y. Natuhara, and Y. Morimoto (2004), The Early Successional Stage of Avifauna in an Urban Wildlife Habitat Park, *Journal of the Japanese Institute of Landscape Architecture*, 68(5), 559-562.

Hasi, B., J. Ma, and Q. Li (2003), Study on aster data classification using self-organizing neural network method, *Advance in Earth Sciences*, 18(3), 345-350.

Hasi, B., J. Ma, Q. Li, and Q. Dai (2004), Dimension Reduction of Self-organized Neural Network Classification for Multi-band Satellite Data, *Geomatics and Information Science of Wuhan University*, 29(5), 461-465.

Hasi, B., J. Ma, Q. Li, X. Han, and Z. Liu (2004), Self-organizing feature map neural network classification of the ASTER data based on wavelet fusion, *Science in China, Series D: Earth Sciences*, 47(7), 651-658.

Hasi, B., J. Ma, Q. Li, Z. Liu, and X. Han (2004), Improved Fuzzy C-mean Classifier and Comparison Study of Its Clustering Results of Satellite Remotely Sensed Data, *Computer Engineering*, 30(11), 14-91.

Hasnain, S. I., R. Kumar, S. Ahmad, and S. Tayal (2010), Glaciers of India; a study of selected glaciers under the changing climate regime (modified) *Rep. 9781411326095*, F275-F291 pp, U. S. Geological Survey, Reston, VA, United States (USA).

Hauff, P. L., E. C. Prosh, D. W. Coulter, M. A. Sares, D. A. Bird, D. C. Peters, and F. B. Henderson, III Evaluating the impact of natural acid drainage on Colorado watersheds using hyperspectral remote sensing, paper presented at Tenth international conference on Tailings and mine waste, Vail, CO, A.A. Balkema Publishers, Lisse, Netherlands (NLD), Netherlands (NLD), 2002.

Haug, T., A. Kaab, and P. Skvarca (2010), Monitoring ice shelf velocities from repeat MODIS and Landsat data - a method study on the Larsen similar to C ice shelf, Antarctic Peninsula, and 10 other ice shelves around Antarctica, *Cryosphere*, 4(2), 161-178.

Hausback, B. P., J. M. Stock, A. Martin-Barajas, D. Pieri, and A. Seymour (2000), Analisis digital de imagenes de volcanes jovenes en Baja California--Analysis of digital images from young volcanic terrains in Baja California; V reunion internacional sobre Geologia de la peninsula de Baja California--V international meeting on the Geology of the Baja California Peninsula, *V reunion internacional sobre Geologia de la peninsula de Baja California--V international meeting on the Geology of the Baja California Peninsula, Loreto, Mexico, Apr. 25-May 1, 2000*, 5(Abstract), 31.

Havenith, H. B., A. Strom, F. Caceres, and E. Pirard (2006), Analysis of landslide susceptibility in the Suusamyr region, Tien Shan: statistical and geotechnical approach, *Landslides*, 3(1), 39-50.

Havenith, H. B., I. Torgoev, A. Melshko, Y. Alioshin, A. Torgoev, and G. Danneels (2006), Landslides in the Mailuu-Suu Valley, Kyrgyzstan; hazards and impacts, *Landslides*, 3(2), 137-147.

Hawk, S. (2004), GIS Internet sites and the American Society of Photogrammetry; Geological Society of America, North-Central Section, 38th annual meeting; 2004 abstracts with programs, *Geological Society of America, North-Central Section, 38th annual meeting, Saint Louis, MO, United States, April 1-2, 2004*, 36(3), 7.

Hawley, D. L. (2002), MTI and Ground Truth Collection: Ivanpah Dry Lake Bed, California. May, July, and August 2002 *Rep. DE2002-806536*, Lockheed Electronics Co.; Las Vegas, NV.

Hayakawa, Y. S., T. Oguchi, and Z. Lin (2008), Comparison of new and existing global digital elevation models: ASTER G-DEM and SRTM-3, *Geophysical Research Letters*, 35(17), L17404.

Hayashi, M., Y. Numata, S. Kazuya, Y. Yasuoka, M. Tamura, and M. Kato  
Development of methodology for wetland mapping using ASTER data. III, Japan, 1999.

Hayashi, M., Y. Numata, S. Kazuya, Y. Yasuoka, M. Tamura, and M. Kato  
Development of methodology for wetland mapping using ASTER data. II, Japan, 1998.

Hayashi, S., H. Tonooka, and H. Takashi Comparison of seven super-resolution algorithms using ASTER /TIR imagery, Japan, 2004.

Hayashi, S., H. Tonooka, and H. Takashi Comparison of algorithms for sharpening thermal infrared imagery, Japan, 2003.

He, F.-Q., Z.-Q. Hu, J.-Z. Yin, and S.-B. Fang (2007), Merging ASTER with TM/ETM + data to monitor land cover change, *Cehui Kexue / Science of Surveying and Mapping*, 32(1), 96-97, 111.

He, Z., B. He, and C. Ying Hydrothermal alteration mapping using ASTER data in East Kunlun Mountains, China, paper presented at 2010 30th IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Hecker, C., C. Kuenzer, and J. Zhang (2007), Remote-sensing-based coal-fire detection with low-resolution MODIS data, *Geology of coal fires; case studies from around the world*, 18(Journal Article), 229-238.

Heiken, G. (2004), Geologic field work in a city...are you crazy?; Geological Society of America, 2004 annual meeting, *Geological Society of America, 2004 annual meeting, Denver, CO, United States, Nov. 7-10, 2004*, 36(5), 102.

Heinzel, V., J. Franke, and G. Menz Assessment of cross-sensor NDVI-variations caused by spectral band characteristics, paper presented at Remote Sensing and Modeling of Ecosystems for Sustainability III, Aug 14-16 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, San Diego, CA, United States, 2006.

Heiskanen, J. (2006), Estimating aboveground tree biomass and leaf area index in a mountain birch forest using ASTER satellite data, *International Journal of Remote Sensing*, 27(6), 1135-1158.

Hellman, M. J. (2002), Analysis of hot springs in Yellowstone National Park using ASTER and AVIRIS remote sensing, University of Pittsburgh, Pittsburgh, PA, United States (USA), United States (USA).

Hellman, M. J., and M. S. Ramsey (2004), Analysis of hot springs and associated deposits in Yellowstone National Park using ASTER and AVIRIS remote sensing;

Volcanic observations from space; new results from the EOS Satellite instruments, *Journal of Volcanology and Geothermal Research*, 135(1-2), 195-219.

Helm, C. W. (2007), Glacier change in Franz Josef Land, 1952-2004, 74-74 pp, University of Colorado at Boulder, Boulder, CO, United States (USA), United States (USA).

Helmut, M., and U. C. Herzfeld (2008), The Rapid Retreat of Jakobshavn Isbrae, West Greenland : Field Observations of 2005 and Structural Analysis of its Evolution, *Natural resources research : (New York, N.Y.)*, 17(Journal Article), 167-179.

Henney, L. A., and I. M. Watson (2006), The Use of the Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) to Detect Sulphur Dioxide Emissions at Fuego and Pacaya Volcanoes, Guatemala, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.), V53A-1727.

Herbreteau, V., F. Demoraes, J. P. Hugot, P. Kittayapong, G. Salem, M. Souris, and J. P. Gonzalez (2006), Perspectives on applied spatial analysis to animal health, *Impact of Emerging Zoonotic Diseases on Animal Health*, 1081(Journal Article), 17-29.

Herman, F., and J. Braun (2008), Evolution of the glacial landscape of the Southern Alps of New Zealand; insights from a glacial erosion model, *Journal of Geophysical Research*, 113(F2), F02009.

Hernandez-Baquero, E. D. (2000), Characterization of the Earth's Surface and Atmosphere From Multispectral and Hyperspectral Thermal Imagery.

Hernandez-Baquero, E. D., and J. R. Schott Atmospheric compensation for surface temperature and emissivity separation, paper presented at Algorithms for Multispectral, Hyperspectral, and Ultraspectral Imagery VI, Apr 24-Apr 26 2000, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, Orlando, FL, USA, 2000.

Herzfeld, U. C. (2008), Master of the Obscure-Automated Geostatistical Classification in Presence of Complex Geophysical Processes, *Mathematical geosciences*, 40(Journal Article), 587-618.

Herzfeld, U. C. (2008), Master of the obscure; automated geostatistical classification in presence of complex geophysical processes, in *Progress in geomathematics*, edited by G. F. Bonham-Carter and Q. Cheng, Springer.

Hewson, R. D., T. J. Cudahy, A. C. Burtt, K. Okada, and A. J. Mauger Assessment of ASTER imagery for geological mapping within the Broken Hill and Olary Domains; To measure is to manage; 12th Australasian remote sensing and photogrammetry conference proceedings, paper presented at 12th Australasian remote sensing and photogrammetry conference, Fremantle, West. Aust, Spatial Sciences Institute, Deakin West, Australia (AUS), Australia (AUS), 2004.

Hewson, R. D., T. J. Cudahy, J. Drake-Brockman, J. Meyers, and A. Hashemi (2006), Mapping geology associated with manganese mineralisation using spectral sensing techniques at Woodie Woodie, east Pilbara; 18th Australian Society of Exploration Geophysicists (ASEG) geophysical conference and exhibition, Australian earth sciences convention 2006 (AESC2006), *18th Australian Society of Exploration Geophysicists (ASEG) geophysical conference and exhibition, Australian earth sciences convention 2006 (AESC2006), Melbourne, Victoria, Australia, July 2-6, 2006*, 37(4), 389-400.

Hewson, R. D., T. J. Cudahy, J. Drake-Brockman, J. Meyers, and A. Hashemi (2006), Mapping geology associated with manganese mineralisation using spectral sensing techniques at Woodie Woodie, east Pilbara, *AESC2006 GSA 18th Australian geological convention, ASEG 18th international geophysical conference and exhibition, Melbourne, Victoria, Australia, July 2-6, 2006*, 82(Abstract), 11.

Hewson, R. D., T. J. Cudahy, and J. F. Huntington Geologic and alteration mapping at Mt fitton, South Australia, using ASTER satellite-borne data, paper presented at 2001 International Geoscience and Remote Sensing Symposium (IGARSS 2001), Jul 9-13 2001, Institute of Electrical and Electronics Engineers Inc, Sydney, NSW, 2001.

Hewson, R. D., T. J. Cudahy, S. Mizuhiko, K. Ueda, and A. J. Mauger (2005), Seamless geological map generation using ASTER in the Broken Hill-Curnamona province of Australia, *Scientific Results from ASTER*, 99(1-2), 159-172.

Hewson, R. D., T. J. Cudahy, M. Shoji, and K. Ueda Processing and evaluation of ASTER imagery to generate seamless geological maps for regional surveys; To measure is to manage; 12th Australasian remote sensing and photogrammetry conference proceedings, paper presented at 12th Australasian remote sensing and photogrammetry conference, Fremantle, West. Aust, Spatial Sciences Institute, Deakin West, Australia (AUS), Australia (AUS), 2004.

Hewson, R. D., A. Mah, M. Dunne, and T. J. Cudahy (2003), Mapping mineralogical and structural relationships with satellite-borne ASTER and airborne geophysics at Broken Hill; ASEG 2003; Growth through innovation; 16th geophysical conference & exhibition, *ASEG 2003; Growth through innovation; 16th geophysical conference & exhibition, Adelaide, South Aust., Australia, Feb. 16-19, 2003*, 102(Abstract), 71.

Hewson, R. D., A. J. Mauger, P. Hausknecht, T. J. Cudahy, R. S. Robertson, K. Okada, and M. Peljo (2003), Geological mapping using ASTER satellite imagery within the Curnamona Province; Broken Hill Exploration Initiative; abstracts from the July 2003 conference *Rep. 0642467714*, 69-72 pp, Australia (AUS).

Hewson, R. D., G. R. Taylor, and L. B. Whitbourn Application of TIR imagery and spectroscopy for the extraction of soil textural information at fowlers gap, Western New South Wales, Australia, paper presented at 2008 IEEE International Geoscience and Remote Sensing Symposium, *IGARSS 2008*, IEEE, Piscataway, NJ, USA, 2008.

Higgins, C. T., F. G. Perez, L. L. Busch, M. C. Fonseca, G. A. Swayze, and R. F. Kokaly (2003), Use of remote-sensing technology to enhance geologic products of the California Geological Survey used for public policy; Geological Society of America, 2003 annual meeting, *Geological Society of America, 2003 annual meeting, Seattle, WA, United States, Nov. 2-5, 2003*, 35(6), 141.

Higman, B. M., P. Lynett, B. McAdoo, J. Borrero, and P. Ruggiero (2005), Geomorphic imprint of the 2004 Sumatra tsunami; Geological Society of America, 2005 annual meeting, *Geological Society of America, 2005 annual meeting, Salt Lake City, UT, United States, Oct. 16-19, 2005*, 37(7), 93.

Hikosaka, S., H. Tonooka, and H. Takashi Improvement of a Bayesian-based method for automatic sub-pixel registration of satellite imagery and GIS, Japan, 2004.

Hill, M. J., A. A. Held, R. Leuning, N. C. Coops, D. Hughes, and H. A. Cleugh (2006), MODIS spectral signals at a flux tower site: Relationships with high-resolution data, and CO<sub>2</sub> flux and light use efficiency measurements, *Spectral Network*, 103(3), 351-368.

Hirano, A. (2001), Digital stereoscopic and hyperspectral data for environmental mapping applications, 1-156 pp, University of Georgia; 0077 Advisor: Director Roy Welch.

Hirano, A., R. Welch, and H. Lang (2003), Mapping from ASTER stereo image data; DEM validation and accuracy assessment; Challenges in geospatial analysis and visualization, *Challenges in geospatial analysis and visualization, Athens, GA, United States, Oct. 29-31, 2001*, 57(5-6), 356-370.

Hirn, B., C. Di Bartola, and F. Ferrucci Near-tactical eruption rate monitoring of Pu'u O'o (Hawaii) 2000-2005 by synergetic merge of payloads ASTER and MODIS, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, 2008.

Hirn, B., C. Di Bartola, and F. Ferrucci Improvement and validation of MODIS performance in automated detection and extent estimate of wildfires, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Hirn, B., C. Di Bartola, and F. Ferrucci (2008), Spaceborne monitoring 2000-2005 of the Pu'u O'o-Kupaianaha (Hawaii) eruption by synergetic merge of multispectral payloads ASTER and MODIS, *IEEE Transactions on Geoscience and Remote Sensing*, 46(10), 2848-2856.

Hirn, B. R., C. D. Bartola, and F. Ferrucci Automated, multi-payload, high-resolution temperature mapping and instant lava effusion rate determination at erupting

volcanoes, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Hirn, B. R., C. Di Bartola, and F. Ferrucci Thermal monitoring of major active volcanoes worldwide by synergetic merge of high- and low-resolution payloads ASTER, ETM+, TM and MODIS, paper presented at 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Denver, CO, United States, 2006.

Hirn, B. R., and F. Ferrucci Southern Italy burn scar mapping by MYME2 procedure using IRS-P6 LISS3, paper presented at 2008 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2008, IEEE, Piscataway, NJ, USA, 2008.

Hirn, B. R., and F. Ferrucci MYME2: A multi-payload integrated procedure for the automated, high-resolution remote sensing of burn scars, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Hirose, K., Y. S. Y. Maruyama, H. T. M. Hang, N. H. Anh, and T. Triet Monitoring of Can Gio mangrove forest in Vietnam, Japan, 2003.

Hirose, K., M. Syoji, H. T. M. Hang, N. H. Anh, T. Triet, and V. N. Nam Mangrove mapping using ASTER VNIR and SWIR data, Japan, 2004.

Hirt, C., M. S. Filmer, and W. E. Featherstone (2010), Comparison and validation of the recent freely available ASTER-GDEM ver1, SRTM ver4.1 and GEODATA DEM-9S ver3 digital elevation models over Australia, *Australian Journal of Earth Sciences*, 57(3), 337-347.

Hishida, H., T. Ooka, and N. Yasunori (2005), Development and Application of Mineral Exploration Technique, *Journal of the Mining and Materials Processing Institute of Japan*, 121, NO.7(Journal Article), PAGE.310-317.

Hlavka, C. A., J. L. Dungan, R. Thirulanambi, and D. Roy Application of Geostatistical Simulation to Enhance Satellite Image Products, paper presented at Seventh International Geostatistics Congress, Banff, Alberta Canada, 2004.

Hlavka, D. L., W. D. Hart, S. P. Pal, M. McGill, and J. D. Spinhirne Initial Validation and Results of Geoscience Laser Altimeter System Optical Properties Retrievals, paper presented at IGARRS Meeting, Anchorage, AK United States United States 20-24 Sep. 2004, 2004.

- Hobish, M. K., P. E. Ardanuy, and V. V. Salomonson (1994), Surface imaging technologies for NASA's Earth observing system, *Journal of Imaging Science and Technology*, 38(4), 301-310.
- Hobson, V. R. (2004), Remote sensing of volcanics; Craters of the Moon lava fields; Geological Society of America, Rocky Mountain Section, 56th annual meeting; Geological Society of America, Cordilleran Section, 100th annual meeting, *Geological Society of America, Rocky Mountain Section, 56th annual meeting; Geological Society of America, Cordilleran Section, 100th annual meeting, Boise, ID, United States, May 3-5, 2004*, 36(4), 79.
- Hobson, V. R., and J. W. Shervais (2004), Variations in the characteristics of Craters of the Moon lava flows from vent to termination; remotely sensed spectra and field observations, *American Geophysical Union 2004 fall meeting, San Francisco, CA, United States, Dec. 13-17, 2004*, 85(47, Suppl.), Abstract V33C-1481.
- Hodge, D., M. Ohlers, S. Bland, and D. Roques (2004), Model building and structural modeling using remotely sensed data, *AAPG annual meeting, Dallas, TX, United States, April 18-21, 2004*, 13(Abstract), 64.
- Hoedjes, J. C. B., A. Chehbouni, J. Ezzahar, R. Escadafal, and H. A. R. De Bruin (2007), Comparison of large aperture scintillometer and eddy covariance measurements: Can thermal infrared data be used to capture footprint-induced differences?, *Journal of Hydrometeorology*, 8(2), 144-159.
- Hoedjes, J. C. B., A. Chehbouni, F. Jacob, J. Ezzahar, and G. Boulet (2008), Deriving daily evapotranspiration from remotely sensed instantaneous evaporative fraction over olive orchard in semi-arid Morocco, *Journal of Hydrology*, 354(1-4), 53-64.
- Hofstra, A. H., and B. W. Rockwell (2009), Pine Grove Mo porphyry and NG alunite area, Utah; deep and shallow products of neighboring silicic cupolas above a large plutonic complex, *Geological Society of America, Rocky Mountain Section, 61st annual meeting, Orem, UT, United States, May 11-13, 2009*, 41(6), 6.
- Holden, Z. A. (2008), Twenty year (1984--2004) temporal and spatial burn severity patterns inferred from satellite imagery in the Gila National Forest, New Mexico, 149-2688 pp, University of Idaho; 0089 Advisor: Adviser Penelope Morgan.
- Holden, Z. A., P. Morgan, A. M. S. Smith, and L. Vierling (2010), Beyond Landsat: a comparison of four satellite sensors for detecting burn severity in ponderosa pine forests of the Gila Wilderness, NM, USA, *International Journal of Wildland Fire*, 19(4), 449-458.
- Holt, E. H., A. J. Peters, I. M. Lowles, H. M. Apsimon, A. T. Buckland, R. H. Maryon, R. L. Walko, R. A. Pielke, and S. A. Luces (1992), Model intercomparisons using the Kuwait smoke plume as a tracer, *Proceedings of the 1992 European Aerosol Conference, Sep 07-11 1992*, 23(SUPPL 1), 949-951.

Hommels, A., K. H. Scholte, J. Munoz-Sabater, R. F. Hanssen, F. D. Van der Meer, S. B. Kroonenberg, E. Aliyeva, D. Huseynov, and I. Guliev Preliminary ASTER and InSAR imagery combination for mud volcano dynamics, Azerbaijan, paper presented at 2003 IGARSS: Learning From Earth's Shapes and Colours, Jul 21-25 2003, Institute of Electrical and Electronics Engineers Inc, Toulouse, France, 2003.

Honda, K., D. H. Nguyen, and H. Shimamura Linking OGC Web services to Google Earth, paper presented at 2006 SICE-ICASE International Joint Conference, IEEE, 2007.

Hong, X., Q. Wang, G. Liu, and H. Li (2005), Vegetation Evolvement Analysis at Gudong Oil Field Using Remote Sensing Data, *Geo-information Science*, 7(4), 5-9.

Hongen, Z., S. Liu, Q. Lin, and J. Shi Sub-pixel lake mapping in Tibetan plateau, paper presented at 2004 IEEE International Geoscience and Remote Sensing Symposium Proceedings: Science for Society: Exploring and Managing a Changing Planet. IGARSS 2004, Sep 20-24 2004, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Anchorage, AK, United States, 2004.

Hook, S. (2000), MASTER - A New Instrument for Hyperspectral Analysis From the Visible to Thermal Infrared, in *Earsel Workshop*, edited.

Hook, S. (2000), Remote Mapping of Land Surface Chemistry by Visible to Thermal Infrared Spectrometry, in *USGS*, edited, Menlo Park, CA United States.

Hook, S., and A. Abtahi In Flight Validation of Thermal Infrared Data Over Land, paper presented at International Society for Optical Engineering (SPIE), Barcelona Spain, 1998.

Hook, S., R. Alley, and M. N. Orton (2002), WINVICAR - A Windows Based Image Analysis Software Package Suitable for Manipulating EOS Data, *AGU Fall Meeting Abstracts*, 51(Abstract), 0175.

Hook, S., L. Rowan, and K. Howard (2000), Mapping the Gold Butte Block with Visible Through Thermal Infrared Spectroscopy, in *Conference and Workshops on Applied Geologic Remote Sensing*, edited, Las Vegas, NV United States.

Hook, S., G. Schladow, A. Abtahi, F. Prata, B. Richards, and S. Palmarsson (2000), Validation of ASTER and MODIS Thermal Infrared Data Product, in *International Conference on Remote Sensing for Marine and Coastal Environments*, edited, Charleston, SC United States.

Hook, S., K. Thome, H. Kieffer, R. Alley, P. Palluconi, A. Gillespie, R. Feind, and H. Lang (1999), ASTER Validation Plan, edited.

Hook, S., K. Thome, J. Myers, and M. Fitzgerald In Flight Validation of MASTER Data - A Necessity for Quantitative Geologic Mapping, paper presented at International Conference and Workshops on Applied Geologic Remote Sensing, Las Vegas, NV United States, 2000.

Hook, S. J., E. A. Abbott, C. Grove, A. B. Kahle, and F. D. Palluconi (1999), Use of multispectral thermal infrared data in geological studies, in *Remote sensing for the earth sciences*, edited by A. N. Rencz and R. A. Ryerson, John Wiley & Sons, New York, NY, United States (USA), United States (USA).

Hook, S. J., G. Chander, J. A. Barsi, R. E. Alley, A. Abtahi, F. D. Palluconi, B. L. Markham, R. C. Richards, S. G. Schladow, and D. L. Helder (2004), In-flight validation and recovery of water surface temperature with Landsat-5 thermal infrared data using an automated high-altitude lake validation site at Lake Tahoe, *IEEE Transactions on Geoscience and Remote Sensing*, 42(12), 2767-2776.

Hook, S. J., J. E. Dmochowski, K. A. Howard, L. C. Rowan, K. E. Karlstrom, and J. M. Stock (2005), Mapping variations in weight percent silica measured from multispectral thermal infrared imagery; examples from the Hiller Mountains, Neveda, USA and Tres Virgenes-La Reforma, Baja California Sur, Mexico, *Remote Sensing of Environment*, 95(3), 273-289.

Hook, S. J., J. J. Myers, K. J. Thome, M. Fitzgerald, and A. B. Kahle (2001), The MODIS/ASTER airborne simulator (MASTER) - A new instrument for Earth science studies, *UNITED STATES*, 76(1), 93-102.

Hook, S. J., and F. Prata (2001), Land surface temperature measurements by ASTER and MODIS - first results, in *European Geophysical Society General Assembly*, edited, Nice France.

Hook, S. J., L. C. Rowan, and K. A. Howard (2001), Mapping lithological variations with visible to thermal infrared spectroscopy; a case study from Gold Butte, NV; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 291.

Hook, S. J., G. Schladow, N. Z. Saleous, L. Gumley, T. Steissberg, A. Abtahi, R. E. Alley, and R. C. Richards (2003), Application of EOS MODIS and ASTER data to lake monitoring, in *International Geoscience and Remote Sensing Symposium*, edited, pp. 1-1, Toulouse France.

Hook, S. J., R. G. Vaughan, H. Tonooka, and S. G. Schladow (2007), Absolute radiometric in-flight validation of mid infrared and thermal infrared data from ASTER and MODIS on the terra spacecraft using the lake tahoe, CA/NV, USA, automated validation site, *IEEE Transactions on Geoscience and Remote Sensing*, 45(6), 1798-1807.

Horwath, J. L. (2007), Quantification and spatial assessment of high Arctic soil organic carbon storage in northwest Greenland, 1-845 pp, University of Washington; 0250 Advisor: Adviser Ronald S. Sletten, Seattle, WA.

Horwath, J. L., and R. S. Sletten (2004), Large and Small Scale Mapping of High Arctic Vegetation by NDVI: Thule, Greenland, *AGU Fall Meeting Abstracts*, 43(Abstract), 0240.

Hossain, M. S., S. R. Chowdhury, N. G. Das, S. M. Sharifuzzaman, and A. Sultana (2009), Integration of GIS and multicriteria decision analysis for urban aquaculture development in Bangladesh, *Landscape and Urban Planning*, 90(3-4), 119-133.

Hossain, M. S., S. R. Chowdhury, S. M. A. Jabbar, S. M. Saifullah, and M. A. Rahman (2008), Occupational health hazards of ship scrapping workers at Chittagong coastal zone, Bangladesh, *Chiang Mai Journal of Science*, 35(2), 370-381.

Hossain, M. S., and N. G. Das (2010), GIS-based multi-criteria evaluation to land suitability modelling for giant prawn (*Macrobrachium rosenbergii*) farming in Companigonj Upazila of Noakhali, Bangladesh, *Computers and Electronics in Agriculture*, 70(1), 172-186.

Hostert, P., and A. Petkov Sensitivity study for urban change analysis comparing Landsat-ETM+ and Terra-ASTER data, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology III; Barcelona, Spain; Sep. 9-11, 2003, 2004.

Hou, B., and A. Mauger (2005), How well does remote sensing aid palaeochannel identification? An example from the Harris greenstone belt, *MESA Journal*, 38(Journal Article), 46-52.

Howat, I. M., I. Joughin, and T. A. Scambos (2007), Rapid changes in ice discharge from Greenland outlet glaciers, *Science*, 315(581), 1559-1561.

Howat, I. M., I. Joughin, S. Tulaczyk, and S. Gogineni (2005), Rapid retreat and acceleration and Helheim Glacier, East Greenland, *Geophysical Research Letters*, 32(22), 4.

Howat, I. M., B. Smith, I. Joughin, and T. Scambos (2007), The rate of ice sheet mass-loss from southeast Greenland from combined GLAS and ASTER observations, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 88(52,; Suppl. Volume 1-2).

Howat, I. M., B. E. Smith, I. Joughin, and T. A. Scambos (2008), Rates of southeast Greenland ice volume loss from combined ICESat and ASTER observations, *Geophysical Research Letters*, 35(17), L17505-L17505.

Howell, B., A. Nguyen Thi Thuc, M. Farmer, and V. Bui Xuan (2007), Some preliminary results on the gold exploration program of Pu Sam Cap Project of Triple Plate Junction Ltd., Viet Nam, *Geology (Vietnam)*, 30(Journal Article), 57-67.

Howell, D., Y. G. Kim, and C. A. Haydu-Houdehell (2008), Development and application of digital soil mapping within traditional soil survey; what will it grow into?, in *Digital soil mapping with limited data*, edited by A. E. Hartemink, M. de Lourdes Mendonca-Santos and A. B. McBratney, pp. 43-51, Springer Science + Business Media, Federal Republic of Germany (DEU), Federal Republic of Germany (DEU).

Hu, X., and Q. Weng (2009), Estimating impervious surfaces from medium spatial resolution imagery using the self-organizing map and multi-layer perceptron neural networks, *Remote Sensing of Environment*, 113(10), 2089-2102.

Hu, Y., and G. Jia (2010), Influence of land use change on urban heat island derived from multi-sensor data, *International Journal of Climatology*, 30(9), 1382-1395.

Hua, C., and Y. Lu Study on thermal environmental distribution in coastal city using ASTER data, paper presented at 2009 Joint Urban Remote Sensing Event, May 20, 2009 - May 22, IEEE Computer Society, Shanghai, China, 2009.

Huang, C., Q. Chen, S. a. Ying, F. Zhao, Y. Shao, W. Yu, J. Chen, F. Liu, X. Xu, and J. Li An analysis on the coupling relationship between urban vegetation and land surface temperature in Hangzhou based on ASTER imagery, paper presented at Geoscience and Remote Sensing Symposium, 2009 IEEE International, IGARSS 2009, IEEE, 2009.

Huang, C., E. L. Geiger, and J. A. Kupfer (2006), Sensitivity of landscape metrics to classification scheme, *International Journal of Remote Sensing*, 27(12-14), 2927-2948.

Huang, C., C. Liu, L. Chang, S. Wang, K. Yan, F. Wu, and A. Wu (2007), Monitoring Polar Environmental Change Using FORMOSAT-2 Satellite, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 88(52,; Suppl. Volume 1-2).

Huang, C., Y. Shao, J. Li, J. Chen, and J. Liu Temporal analysis of land surface temperature in Beijing utilizing remote sensing imagery, paper presented at IGARSS 2008 - 2008 IEEE International Geoscience and Remote Sensing Symposium, IEEE, Piscataway, NJ, USA, 2008.

Huang, F., K. Lisa, S. Xiong, and F. Huang (2005), Holocene grassland vegetation, climate and human impact in central eastern Inner Mongolia, *Science in China, Series D: Earth Sciences*, 48(7), 1025-1039.

Huang, M., S. Liu, and Q. Shu (2004), Analysis of the Factors Impacting Evapotranspiration Estimation Using Remote Sensing Data, *Arid Land Geography*, 27(1), 100-105.

Huang, M., X. Xing, S. Liu, and S. Liu (2005), Study on the Method Obtaining the Three Elements for the Retrieval of the Surface Temperature Based on Infrared Radiometer, *Arid Land Geography*, 28(4), 541-547.

Huang, M.-F., J. Yu, S. Hu, and M. Jing Study on evapotranspiration estimation of small drainage based on ASTER data, paper presented at 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Denver, CO, United States, 2006.

Huang, S., Q. Liu, and X. Li Spectral analysis of soil salinity using the Grey System Theory, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Huang, S., and H. Shi (2005), Fault Analysis Based on ASTER Imaging Information Ⅳ Is Introduced by an Application Test in Baiyin Area, Gansu Province, *Geological journal of China universities*, 11(4), 633-641.

Huang, S., F. Siegert, J. G. Goldammer, and A. I. Sukhinin (2009), Satellite-derived 2003 wildfires in southern Siberia and their potential influence on carbon sequestration, *International Journal of Remote Sensing*, 30(6), 1479-1492.

Huang, W., X. Song, D. W. Lamb, Z. Wang, Z. Niu, L. Liu, and J. Wang (2008), Estimation of winter wheat grain crude protein content from in situ reflectance and advanced spaceborne thermal emission and reflection radiometer image, *Journal of Applied Remote Sensing*, 2(1), 023530.

Huang, W., X. Song, J. Wang, Z. Wang, and C. Zhao Prediction of winter wheat grain protein content by ASTER image, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology X, SPIE - The International Society for Optical Engineering, USA, 2008.

Huawei, W., W. Jindi, X. Zhiqiang, and L. Li (2007), Generating the high spatial and temporal resolution LAI by fusing MODIS and ASTER, *Beijing Daxue Xuebao (Ziran Kexue Ban)/Acta Scientiarum Naturalium Universitatis Pekinensis*, 43(3), 303-308.

Hubbard, B. E., R. G. Clark, A. C. Gellis, M. J. Pavich, and J. C. Mars (2004), Building a geospatial/temporal database for assessing sediment erosion in the Susquehanna watershed; contributions of ASTER, Landsat-7 ETM and ALI imagery; Geological Society of America, Northeastern Section, 38th annual meeting; Geological Society of America, Southeastern Section, 53rd annual meeting, *Geological Society of America, Northeastern Section, 38th annual meeting; Geological Society of America, Southeastern Section, 53rd annual meeting, Washington, DC, United States, March 25-27, 2004*, 36(2), 78.

Hubbard, B. E., and J. K. Crowley (2001), Alteration mineral mapping in the Central Andes using Hyperion, ALI and ASTER; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 319.

Hubbard, B. E., and J. K. Crowley (2005), Mineral mapping on the Chilean-Bolivian Altiplano using co-orbital ALI, ASTER and Hyperion imagery: Data dimensionality issues and solutions, *Scientific Results from ASTER*, 99(1-2), 173-186.

Hubbard, B. E., J. K. Crowley, and J. Mars (2002), Paleohydrologic Analysis of Debris-Flow Inundation at Mount Rainier, Washington Using ASTER and SRTM Derived Topography, *AGU Spring Meeting Abstracts*, 21(Abstract), 01.

Hubbard, B. E., J. K. Crowley, and D. R. Zimbelman (2003), Comparative alteration mineral mapping using visible to shortwave infrared (0.4-2.4 micrometers) Hyperion, ALI and ASTER imagery, *IEEE Transactions on Geoscience and Remote Sensing*, 41(6), 1401-1410.

Hubbard, B. E., H. W. Folger, J. W. Parcher, and W. R. Page (2006), Multi-temporal remote sensing assessment of soil moisture and vector-borne disease potential in the Pleistocene Beaumont and lower Rio Grande delta, Southern Texas and northern Tamaulipas, US-Mexico border region; Geological Society of America, South-Central Section, 40th annual meeting, *Geological Society of America, South-Central Section, 40th annual meeting, Norman, OK, United States, March 6-7, 2006*, 38(1), 7.

Hubbard, B. E., A. C. Gellis, M. J. Pavich, D. Merritts, and R. C. Walter (2006), Remote sensing of land use/cover factors influencing soil erosion in the Little Conestoga watershed, Lancaster County, Pennsylvania; Geological Society of America, 2006 annual meeting, *Geological Society of America, 2006 annual meeting, Philadelphia, PA, United States, Oct. 22-25, 2006*, 38(7), 54.

Hubbard, B. E., W. R. Page, H. W. Folger, M. D. Merrill, and J. W. Parcher  
Multi-temporal remote sensing of soil moisture and vector-borne disease potential in the Rio Grande Delta, south Texas/north Tamaulipas, US-Mexico border area, paper presented at Second national conference on USGS health-related research, Reston, VA, United States, Feb. 27-March 1, 2007 Abstract only, U. S. Geological Survey, Reston, VA, United States (USA), United States (USA), 2008.

Hubbard, B. E., L. C. Rowan, C. Dusel-Bacon, and R. G. Eppinger (2006), Geologic mapping and mineral resource assessment of the Healy-Talkeetna Mountains Quadrangles, Alaska using minimal cloud- and snow-cover ASTER data, *Geological Society of America, 2006 annual meeting, Philadelphia, PA, United States, Oct. 22-25, 2006*, 38(7), 563.

Hubbard, B. E., M. F. Sheridan, G. Carrasco-Nunez, R. Diaz-Castellon, and S. R. Rodriguez (2007), Comparative lahar hazard mapping at volcano Citlaltepetl, Mexico

using SRTM, ASTER and DTED-1 digital topographic data, *Journal of Volcanology and Geothermal Research*, 160(1-2), 99-124.

Hudak, A. T., A. M. Smith, J. S. Evans, and M. J. Falkowski (2006), Estimating Coniferous Forest Canopy Cover From LiDAR and Multispectral Data, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Hudson, P. F., R. R. Colditz, and M. Aguilar-Robledo (2006), Spatial relations between floodplain environments and land use - Land cover of a large lowland tropical river valley: Panuco basin, Mexico, *Environmental management*, 38(3), 487-503.

Hugenholtz, C. H., and T. E. Barchyn (2010), Spatial analysis of sand dunes with a new global topographic dataset: new approaches and opportunities, *Earth Surface Processes and Landforms*, 35(8), 986-992.

Huggel, C., J. Caplan-Auerbach, C. F. Waythomas, and R. L. Wessels (2007), Monitoring and modeling ice-rock avalanches from ice-capped volcanoes: A case study of frequent large avalanches on Iliamna Volcano, Alaska, *Journal of Volcanology and Geothermal Research*, 168(1-4), 114-136.

Huggel, C., A. Kaeaeb, J. M. Reynolds, and A. Heald (2004), Impact-oriented models for potential lake outbursts and ASTER-based application in the Peruvian Andes; Turbulenzen in der Geomorphologie; Jahrestagung der Schweizerischen Geomorphologischen Gesellschaft (SGmG) der SANW. Turbulence in geomorphology; annual meeting of the Swiss Society of Geomorphology of the Swiss Academy of Natural Sciences, *Jahrestagung der Schweizerischen Geomorphologischen Gesellschaft (SGmG) der SANW, Erstfeld, Switzerland, March 27-29, 2003*, 184(Journal Article), 129-143.

Huggel, C., D. Schneider, P. Julio-Miranda, H. Delgado-Granados, and A. Kaab (2007), DEM Data for Lahar Modeling: Lahars From Popocatepetl Volcano (Mexico), 2007 Joint Assembly; Acapulco; Mexico; 22-25 May 2007, 88(25 (2007 Joint Assembly; Suppl.)), V23A-14.

Huggel, C., D. Schneider, P. J. Miranda, H. Delgado Granados, and A. Kaab (2008), Evaluation of ASTER and SRTM DEM data for lahar modeling: A case study on lahars from Popocatepetl Volcano, Mexico, *Journal of Volcanology and Geothermal Research*, 170(1-2), 99-110.

Huggel, C., S. Zgraggen-Oswald, W. Haeberli, A. Kaeaeb, A. Polkvoj, I. Galushkin, and S. G. Evans (2005), The 2002 rock/ice avalanche at Kolka/Karmadon, Russian Caucasus: assessment of extraordinary avalanche formation and mobility, and application of QuickBird satellite imagery, *Natural Hazards and Earth System Sciences*, 5(2), 173-187.

Hughes, C. G., and M. S. Ramsey (2008), Initial Results of Super-Resolving THEMIS Data, *Thirty-Ninth Lunar and Planetary Science Conference; League City, TX; USA; 10-14 Mar. 2008*, 1391(Abstract), 2530.

Hughes, C. G., and M. S. Ramsey (2010), Super-resolution of THEMIS thermal infrared data: Compositional relationships of surface units below the 100 meter scale on Mars, *Icarus*, 208(2), 704-720.

Hughes, C. G., M. S. Ramsey, and H. Tonooka (2007), Super-resolving THEMIS data for improved temperature, composition, and spatial resolution; Lunar and planetary science; XXXVIII; papers presented to the Thirty-eighth lunar and planetary science conference, *Thirty-eighth lunar and planetary science conference, Houston, TX, United States, March 11-16, 2007*, 38(Abstract), @Abstract 1810.

Huh, K., B. Csatho, C. J. Van Der Veen, and Y. Ahn (2006), Reconstructing Holocene Glacier Changes in West Greenland From Multispectral ASTER Imagery, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Huh, K. I., B. M. Castho, and C. van der Veen Reconstructing Holocene glacier changes in West Greenland and from multispectral ASTER imagery, paper presented at 36th international Arctic workshop, Boulder, CO, United States, March 16-18, 2006, University of Colorado, Institute of Arctic and Alpine Research (INSTAAR), Boulder, CO, United States (USA), United States (USA), 2006.

Huh, K. I., and B. G. Mark (2010), Assessing the volume and hypsometric changes of two target glaciers in the tropical Peruvian Andes, *2010 AAG annual meeting, Washington, DC, USA, United States, April 14-18, 2010*, 2010(Abstract), 363.

Hui, F., Q. Tian, and Y. Li (2004), Production and Accuracy Assessment of DEM from ASTER Stereo Image Data, *Remote Sensing Information*, 0(1), 14-18.

Hulley, G. C., and S. J. Hook (2008), A new methodology for cloud detection and classification with ASTER data, *Geophysical Research Letters*, 35(16), L16812-L16812.

Hulley, G. C., and S. J. Hook (2009), The North American ASTER Land Surface Emissivity Database (NAALSED) Version 2.0, *Remote Sensing of Environment*, 113(9), 1967-1975.

Hulley, G. C., S. J. Hook, and A. M. Baldridge (2008), ASTER land surface emissivity database of California and Nevada, *Geophysical Research Letters*, 35(13), L13401-L13401.

Hulley, G. C., S. J. Hook, and A. M. Baldridge (2009), Validation of the North American ASTER Land Surface Emissivity Database (NAALSED) version 2.0 using pseudo-invariant sand dune sites, *Remote Sensing of Environment*, 113(10), 2224-2233.

Hulley, G. C., S. J. Hook, and A. M. Baldridge (2010), Investigating the effects of soil moisture on thermal infrared land surface temperature and emissivity using satellite retrievals and laboratory measurements, *Remote Sensing of Environment*, 114(7), 1480-1493.

Hulley, G. C., S. J. Hook, E. Manning, S.-Y. Lee, and E. Fetzer (2009), Validation of the Atmospheric Infrared Sounder (AIRS) version 5 land surface emissivity product over the Namib and Kalahari deserts, *Journal of Geophysical Research-Atmospheres*, 114(Journal Article), D19104-D19104.

Hung, L. Q., O. Batelaan, and F. de Smedt Lineament extraction and analysis, comparison of LANDSAT ETM and ASTER imagery. Case study: Suoi Muoi tropical karst catchment, Vietnam, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology V; Bruges; Belgium; 19-20 Sept. 2005, 2005.

Hunt, J. E. R., J. J. Qu, X. Hao, and L. Wang Remote sensing of canopy water content: scaling from leaf data to MODIS, paper presented at Remote Sensing and Modeling of Ecosystems for Sustainability VI, SPIE, 2009.

Hurtado, J. (2007), 3-D Surface and Subsurface Deformation Modeling of Fuego Volcano, Guatemala Using Aster, ERS 1/2, and Gravity Data, edited, p. 12.

Hurtado, J. M., Jr. (2007), Integrated application of ASTER, Landsat, CORONA, and SRTM data to tectonostratigraphic mapping in the Nepal Himalaya, *Geological Society of America, 2007 annual meeting, Denver, CO, USA, United States, Oct. 28-31, 2007*, 39(6), 529-530.

Hurtado, J. M., Y. Chee, and T. G. Farr (2005), Topographic and Remote Sensing Analysis of Explosion Craters In the Nevada Test Site: Application to Mars Hazards, *AGU Fall Meeting Abstracts*, 86(52, Suppl.), Abstract P41B-0934.

Huss, M., R. Stoeckil, G. Kappenberger, and H. Blatter (2008), Temporal and spatial changes of Laika Glacier, Canadian Arctic, since 1959, inferred from satellite remote sensing and mass-balance modelling, *Journal of Glaciology*, 54(188), 857-866.

Hussey, M. C. Operational application of the De Beers' hyperspectral scanner; To measure is to manage; 12th Australasian remote sensing and photogrammetry conference proceedings, paper presented at 12th Australasian remote sensing and photogrammetry conference, Fremantle, West. Aust, Spatial Sciences Institute, Deakin West, Australia (AUS), Australia (AUS), 2004.

Hutchison, K. D., and S. Smith Distribution of earth observing system data via the Texas infomart, paper presented at The 2002 EUMETSAT Meteorological Satellite Conference, Dublin (Ireland), 2-6, Sep 2002, EUMETSAT, Am Kavalleriesand 31 Darmstadt D-64295 Germany, 2002.

Ichii, K., M. Maruyama, and Y. Yasushi Multitemporal deforestation analysis of the Brazilian Amazon, using Landsat /MSS,TM,ETM+ and Terra / ASTER imagery, Japan, 2000.

Idehara, Y., S. Mukai, and S. Itaru Thermal state of Kinki area based on Terra ASTER, Japan, 2004.

Iino, N., Y. Toshiaki, and K. Kinoshita (2005), Regional characteristics of high concentration events of volcanic gas at Miyakejima, *Journal of Japan Society for Natural Disaster Science*, 23,NO.4(Journal Article), PAGE.505-520.

Iino, N., T. Yano, K. Kisei, and T. Shiba Miyakejima volcanic gas hazard map using vegetation index images, Japan, 2004.

Imanishi, A., J. Imanishi, K. Murakami, Y. Morimoto, and A. Satomura (2005), Herbaceous plant species richness and species distribution pattern at the precincts of shrines as non-forest greenery in Kyoto city, *Journal of the Japanese Society of Revegetation Technology*, 31(2), 278-283.

Imanishi, J., K. Sugimoto, and Y. Morimoto (2003), An experimental analysis of thermal response numbers as indicators of vegetation water-stress for remote sensing, *Journal of the Japanese Society of Revegetation Technology*, 29(1), 159-164.

Iorga, G., and S. Stefan (2007), Sensitivity of cloud albedo to aerosol concentration and spectral dispersion of cloud droplet size distribution, *Atmosfera*, 20(3), 247-269.

Ishida, H., I. Minoru, and M. Tamura Estimation of blue wave bands using neural network, Japan, 2000.

Ishihama, S., and T. Sekiguchi Landform change in Miyake Island based on high-resolution satellite image, paper presented at Proceedings of the General Meeting of the Association of Japanese Geographers, Association of Japanese Geographers, 2003.

Ishii, Y. Global remote sensing programs in Japan--Special emphasis on earth resources, paper presented at 1991 International Geoscience and Remote Sensing Symposium - IGARSS'91, Jun 3-6 1991, Publ by IEEE, Piscataway, NJ, USA, Espoo, Finl, 1991.

Ishii, Y. Global remote sensing programs in Japan - Special emphasis on earth resources, paper presented at IGARSS '91; Proceedings of the 11th Annual International Geoscience and Remote Sensing Symposium, Espoo, Finland; UNITED STATES; 3-6 June 1991, New York, Institute of Electrical and Electronics Engineers, Inc., 1991.

Ishimaru, N., and K. Iwamura Map feature extraction from hyperspectral imagery using shape and spectral analysis, 2006.

Ishimaru, N., and K. Iwamura An integrated framework for map generation by analyzing hyperspectral imagery, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Ishitsuka, N., and Y. Inoue Estimating current farmland use based on synergy of satellite image and Geo-spatial Agro-ecosystem Simulator, 2006.

Ishiyama, T., S. Fujikawa, K. Okawa, and T. Soichiro Fluctuation monitoring of desertification areas in southern edge of Taklimakan Desert in during 2001 from 1960's, Japan, 2003.

Ishiyama, T., S. Fujikawa, K. Okawa, and T. Soichiro Investigation of surface condition of around oasis in southern part of Xinjiang Uyghur, China, Japan, 2002.

Islam, M., and K. Sado Measurement of Turbidity for Lake Abashiri by using ASTER Level 1B DATA, paper presented at Proceedings of the 17th Annual Conference (2004), Japan Society of Hydrology and Water Resources, Japan Society of Hydrology and Water Resources, 2004.

Islam, M. M., and K. Sado (2005), Water quality monitoring of case 2 water using field spectroradiometer and remote sensing data; Remote sensing and GIS for environmental studies; applications in geography, *1st Gottingen GIS and remote sensing days; environmental studies, Gottingen, Federal Republic of Germany, Oct. 7-8, 2004*, 113(Journal Article), 159-166.

Islam, M. R., and S. F. Begum (2002), Monitoring of water clarity by using ASTER data in the upper Meghna Estuary, Bangladesh, *AGU Fall Meeting Abstracts*, 22(Abstract), 0269.

Isoda, M., T. Takenouchi, M. Kimata, H. Akao, H. Michioka, and M. Ono Design challenges of ASTER in shortwave infrared spectral region, paper presented at Sensor systems for the early earth observing system platforms; *Proceedings of the Conference, Orlando, FL; UNITED STATES; 13-14 Apr. 1993*, SPIE - Society for Photo-Optical Instrumentation engineers, Bellingham, WA, 1993.

Ito, A., M. Jun, and Y. Arakawa An experiment of making a map based on ASTER data, Japan, 2006.

Ito, A., M. Jun, and Y. Fukui Development for estimating green cover ratio in a pixel, Japan, 2004.

Ito, A., J. Miyamoto, C. Shinada, T. Hiroyuki, and T. Tachikawa Shallow landslide hazard assessment using ASTER data part 1 Thematic map made from ASTER data and the possibility, Japan, 2005.

Ito, A., N. Saito, T. Ishiyama, F. Nishio, and S. Jalalidin Evaluation of salinity soils around oases in northern edge of Taklimakan Desert (1), 2006.

Ito, Y., T. Asaki, H. Fukasawa, and M. Furuno (2005), Exploration of Oga area, the southeastern part of the Escondida mine district, Region II, Chile, *2005 annual meeting for Prospecting of ore deposits held under the auspices of Japan Mining Industry Association, Tokyo, Japan, June 8-10, 2005*, 55(1), 39-46.

Itoh, M., S. Ueda, H. Tsuchida, and T. Maekawa Focal plane technology of the thermal infrared radiometer for ASTER, paper presented at Infrared Spaceborne Remote Sensing III, Jul 12-14 1995, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, San Diego, CA, USA, 1995.

Iuchi, M., R. Nagasawa, H. Hiraki, K. E. I. Omura, and M. Kurihara (2006), Study on the land cover classification for the estimation of biomass resource quantity, *Papers on Environmental Information Science*, 20(Journal Article), 517-522.

Iwabuchi, H., S. Rokugawa, O. Jun'ichi, H. Murakami, M. Tokunaga, H. Seiichi, Y. Miyazaki, Y. Kato, and T. Hiroharu A Study on accuracy of Global DEM with ASTER Simulation Data, Japan, 1997.

Iwasaki, A. Investigation of ASTER /SWIR as a quasi-hyper spectral sensor, Japan, 2003.

Iwasaki, A., and H. Fujisada Image correlation tool for ASTER geometric validation, paper presented at Sensors, Systems, and Next-Generation Satellites VI, Sep 23-26 2002, The International Society for Optical Engineering, Agia Pelagia, Crete, Greece, 2002.

Iwasaki, A., and H. Fujisada Attitude evaluation of Terra spacecraft using ASTER image, Japan, 2002.

Iwasaki, A., and H. Fujisada (2005), ASTER geometric performance, *IEEE Transactions on Geoscience and Remote Sensing*, 43(12), 2700-2706.

Iwasaki, A., H. Fujisada, H. Akao, O. Shindou, and S. Akagi Enhancement of spectral separation performance for ASTER/SWIR, paper presented at Infrared Spaceborne Remote Sensing IX, Aug 1-3 2001, The International Society for Optical Engineering, San Diego, CA, United States, 2002.

Iwasaki, A., H. Fujisada, and M. Torii ASTER initial image evaluation, paper presented at Sensors, Systems, and Next-Generation Satellites IV, Sep 25-28 2000, Society of Photo-Optical Instrumentation Engineers, Barcelona, 2001.

Iwasaki, A., H. Fujisada, and S. Tsujimoto ASTER geometric performance, paper presented at Sensors, Systems, and Next-Generation Satellites V, Sep 17-20 2001, The International Society for Optical Engineering, Toulouse, France, 2001.

Iwasaki, A., M. Koga, H. Kanno, N. Yokoya, T. Okuda, and K. Saito Challenge of ASTER digital elevation model, paper presented at 2010 30th IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Iwasaki, A., K. Matsumoto, and H. Fujisada Geometric validation plan for ASTER, paper presented at Proceedings of the 1998 Conference on Sensors, Systems, and Next-Generation Satellites II, Sep 21-24 1998, SPIE, Bellingham, WA, USA, Barcelona, Spain, 1998.

Iwasaki, A., R. Michishita, H. Fujisada, and O. Shigeyuki Image analysis tool for band-to-band registration evaluation, Japan, 2000.

Iwasaki, A., and E. Oyama (2005), Correction of stray light and filter scratch blurring for ASTER imagery, *IEEE Transactions on Geoscience and Remote Sensing*, 43(12), 2763-2768.

Iwasaki, A., and T. Satoshi Investigation of Stereo Image for Multi-angle Sensor, Japan, 2001.

Iwasaki, A., and H. Tonooka (2005), Validation of a crosstalk correction algorithm for ASTER/SWIR, *IEEE Transactions on Geoscience and Remote Sensing*, 43(12), 2747-2751.

Iwashita, K., T. Asaka, H. Nishikawa, T. Kondoh, and T. Tahara (2006), Vegetation biomass change of the Bosoh Peninsula. Impacted by the volcano fumes from the Miyakejima, *Advances in Space Research*, 37(4), 734-740.

Iwashita, Y., E. K. Dean, and J. C. Dozier (2006), Research on construction of resources recycling type society which applies biotechnology Research group on elucidation of phenomena and improvement of the organic and inorganic factor in the infrastructure facilities which follows the resources recycling type society Spectral characteristic evaluation of polluted water lump according to ASTER L1b data, *Nihon Daigaku Daigakuin Seisan Kogaku Kenkyuka Seimeい Kogaku, Risachi, Senta Heisei 17 Nendo Kenkyu Hokokusho Seimeい Kogaku o Oyo shita Shigen Junkangata Shakai no Kochiku ni kansuru Kenkyu*(Journal Article), PAGE.45-48.

Iwata, Y., M. Otsuka, and H. Akao Preflight test results of ASTER/SWIR flight model, paper presented at Sensors, systems, and next-generation satellites; Proceedings of the Conference, London, United Kingdom; UNITED STATES; 22-25 Sept. 1997, Bellingham, WA: Society of Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 3221), 1997.

Jacob, F., F. Petitcolin, T. Schmugge, E. Vermote, A. French, and K. Ogawa (2004), Comparison of land surface emissivity and radiometric temperature derived from MODIS and ASTER sensors, *Remote Sensing of Environment*, 90(2), 137-152.

Jacobs, C. S., and W. J. W. Williams (2005), A geoinformatics approach to teaching our students; using the Quaternary mafic Potrillo volcanic field, southern Rio Grande Rift, to better understand cosmogenic helium and argon/argon geochronology in context with multiple geospatial and geochemical datasets; Geological Society of America, 2005 annual meeting, *Geological Society of America, 2005 annual meeting, Salt Lake City, UT, United States, Oct. 16-19, 2005*, 37(7), 150.

Jacobsen, K., G. Buyuksalih, A. Marangoz, U. Sefercik, and I. Buyuksalih Geometric conditions of space imagery for mapping, paper presented at RAST 2005. Proceedings of 2nd International Conference on Recent Advances in Space Technologies, 9-11 June 2005, IEEE, Istanbul, Turkey, 2005.

Jalali, N., B. Saghaian, F. Imanov, and M. Museyyibov (2009), Recognition of shallow karst water resources and cave potentials using thermal infrared image and terrain characteristics in semi-arid regions of Iran, *International Journal of Applied Earth Observation and Geoinformation*, 11(6), 439-447.

James, M. R., S. Robson, H. Pinkerton, and M. Ball (2006), Oblique photogrammetry with visible and thermal images of active lava flows, *Bulletin of Volcanology*, 69(1), 105-108.

Janicke, J., C. Mayer, K. Scharrer, U. Munzer, and A. Gudmundsson (2006), The use of remote-sensing data for mass-balance studies at Myrdalsjokull ice cap, Iceland, *Journal of Glaciology*, 52(179), 565-573.

Jasinski, M., S. Habib, J. Lundquist, R. McKellip, S. Blonski, and J. Borak Use of satellite-derived aerodynamic roughness for improved meteorological and atmospheric transport modeling, paper presented at 2006 IEEE International Symposium on Geoscience and Remote Sensing, IEEE, Piscataway, NJ, USA, 2006.

Javadnia, E., M. R. Mobasher, and G. A. Kamali (2009), MODIS NDVI Quality Enhancement Using ASTER Images, *Journal of Agricultural Science and Technology*, 11(5), 549-558.

Jean-Baptiste, N. (2006), Structure, modeling, and ecological characterization of Bocozelle mangrove habitat in the coastal zone of Saint Marc Bay, Haiti, 103-6841 pp, University of South Carolina; 0202 Advisor: Adviser John R. Jensen.

Jean-Paul, D., D. Mo, H. Louis, B. Ludovic, G. Agnes, L. Marc, W. Zhijun, L. Chuang, M. Long, and C. Wengbo Using ERS and envisat data to study the glacier changes in Tibet, the Nyainqntanglha example (ESA project no 2401), paper presented at 2004 Envisat and ERS Symposium, Sep 6-10 2004, European Space Agency, Noordwijk, 2200 AG, Netherlands, Salzburg, Austria, 2005.

Jedlovec, G. J., U. Nair, and S. L. Haines (2006), Detection of storm damage tracks with EOS data, *Weather and Forecasting*, 21(3), 249-267.

Jeong, I.-s., and J. Bethel (2010), A Study of Trajectory Models for Satellite Image Triangulation, *Photogrammetric Engineering and Remote Sensing*, 76(3), 265-276.

Jeong, J. H., and T. M. Accuracy Evaluation of Change Detection Using ASTER and IKONOS Image, Japan, 2004.

Jeong Jong, H., and T. Masataka (2006), An Adapted Method for Removing Change Detection Errors due to Pointing Direction Shifts of a Satellite Sensor, *Journal of the Japan Society of Photogrammetry and Remote Sensing*, 45, NO.2(Journal Article), PAGE.16-23.

Ji, L., B. Wylie, B. Ramachandran, and C. Jenkerson (2010), A comparative analysis of three different MODIS NDVI datasets for Alaska and adjacent Canada, *Canadian Journal of Remote Sensing*, 36(Journal Article), S149-S167.

Ji, L., L. Zhang, and B. Wylie (2009), Analysis of Dynamic Thresholds for the Normalized Difference Water Index, *Photogrammetric Engineering and Remote Sensing*, 75(11), 1307-1317.

Ji, L.-Y., J.-D. Xu, X.-D. Lin, and P. Luan (2009), Application of Satellite Thermal Infrared Remote Sensing in Monitoring Changbaishan Tianchi Volcano Activity, *Dizhen Dizhi/Seismology and Geology*, 31(4), 617-627.

Ji, Z., S. Jiancheng, C. Hanfang, D. Jinyong, and W. Yaunhui Approaches to using end-members for sub-pixel snow mapping with MODIS data in Qinghai-Tibet Plateau, paper presented at 2010 30th IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Jian, J., H. Li, and X. Dai (2006), Research on Land Sandy Desertification Using Remote Sensing â€'â€'Taking Qinghai Lake Area as an Example, *Geo-information Science*, 8(2), 116-119.

Jian, J., P. Pan, Y. Chen, and W. Yang (2009), Soil Moisture Retrieval Quantitatively with Remotely Sensed Data and Its Crucial Factors Analysis, *Journal of Water Resource and Protection*, 1(6), 439-447.

Jian, J., and Z. Qing (2006), Extraction of Vegetation Information Based on the ASTER Remote Sensing Imageâ€'â€'taking the Qinghai Lake area as the example, *Remote Sensing Information*(2), 50-52.

Jian, J., W. Yang, Y. Li, X. Wan, L. Peng, T. Zeng, and H. Jiang Retrieving Vegetation Moisture Content with Remotely Sensed Data, paper presented at Education

Technology and Training, 2008. and 2008 International Workshop on Geoscience and Remote Sensing. ETT and GRS 2008. International Workshop on, IEEE, 2008.

Jianyu, C., M. Zhihua, and H. Xianqiang Geomorphological diversity of Dong-Sha Atoll based on spectrum and texture analysis in high resolution remote sensing imagery, paper presented at Remote Sensing of Inland, Coastal, and Oceanic Waters, November 18,2008 - November 21,2008, SPIE, Noumea, New caledonia, 2008.

Jimenez-Berni, J. A., P. J. Zarco-Tejada, E. Fereres, G. Sepulcre-Canto, L. Testi, F. Iniesta, F. J. Villalobos, F. Orgaz, D. A. Goldhamer, and M. Salinas Estimation of evapotranspiration on discontinuous crop canopies using high resolution thermal imagery, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, IEEE, Barcelona, Spain, 2008.

Jimenez-Munoz, J., and J. A. Sobrino (2010), A single-channel algorithm for land-surface temperature retrieval from ASTER data, *IEEE Geoscience and Remote Sensing Letters*, 7(1), 176-179.

Jimenez-Munoz, J., J. A. Sobrino, C. Mattar, and B. Franch (2010), Atmospheric correction of optical imagery from MODIS and Reanalysis atmospheric products, *Remote Sensing of Environment*, 114(10), 2195-2210.

Jimenez-Munoz, J. C., and J. A. Sobrino (2007), Feasibility of retrieving land-surface temperature from ASTER TIR bands using two-channel algorithms: a case study of agricultural areas, *IEEE Geoscience and Remote Sensing Letters*, 4(1), 60-64.

Jimenez-Munoz, J. C., J. A. Sobrino, A. Gillespie, D. Sabol, and W. T. Gustafson (2006), Improved land surface emissivities over agricultural areas using ASTER NDVI, *Remote Sensing of Environment*, 103(4), 474-487.

Jin, R., X. Li, T. Che, L. Z. Wu, and P. Mool (2005), Glacier area changes in the Pumqu river basin, Tibetan Plateau, between the 1970s and 2001, *Journal of Glaciology*, 51(175), 607-610.

Jinlong, F., W. Bingfang, and H. Huiping Comparative Assessment of ASTER Image and ETM+ Fusion Image for Agricultural Applications, paper presented at 2003 IGARSS: Learning From Earth's Shapes and Colours, Jul 21-25 2003, Institute of Electrical and Electronics Engineers Inc, Toulouse, France, 2003.

Jiskoot, H., C. J. Curran, D. L. Tessler, and L. R. Shenton (2009), Changes in Clemenceau Icefield and Chaba group glaciers, Canada, related to hypsometry, tributary detachment, length-slope and area-aspect relations, *World glacier inventory*, 50(53), 133-143.

Jochum, A. M., A. Calera, and A. Cuesta Space-assisted irrigation management: An operational perspective (2005 - H20SUPPLY), 2005.

Johnson, M. E., D. H. Backus, and J. Ledesma-Vazquez (2007), Survey of rocky shores by lithology in the Gulf of California (Mexico); Geological Society of America, Northeastern Section, 42nd annual meeting, *Geological Society of America, Northeastern Section, 42nd annual meeting, Durham, NH, United States, March 12-14, 2007*, 39(1), 42.

Johnson, S. C. (2008), The geospatial imagery revolution... it's everywhere, *Laser Focus World*, 44(1), 117-121.

Johnson, W. R., S. J. Hook, P. Mouroulis, D. W. Wilson, S. D. Gunapala, C. J. Hill, J. M. Mumolo, and B. T. Eng Thermal infrared spectral imager for airborne science applications, paper presented at 2009 IEEE Aerospace Conference, IEEE, Piscataway, NJ, USA, 2009.

Johnson, W. R., S. J. Hook, P. Mouroulis, D. W. Wilson, S. D. Gunapala, C. J. Hill, J. M. Mumolo, and B. T. Eng (2009), Quantum well earth science testbed, *Infrared Physics and Technology*, 52(6), 430-433.

Johnson, W. R., S. J. Hook, P. Mouroulis, D. W. Wilson, S. D. Gunapala, C. J. Hill, J. M. Mumolo, V. Realmuto, and B. Eng Towards HyTES: an airborne thermal imaging spectroscopy instrument, paper presented at Imaging Spectrometry XIV, 2009.

Johnson, W. R., S. J. Hook, P. Mouroulis, D. W. Wilson, S. D. Gunapala, C. J. Hill, J. M. Mumolo, V. Realmuto, and B. T. Eng Thermal infrared spectral imager for airborne science applications, paper presented at Infrared Technology and Applications XXXV, April 13, 2009 - April 17, SPIE, Orlando, FL, United states, 2009.

Jones, B. K., R. R. Risty, and M. Buswell Web-based data delivery services in support of disaster-relief applications, paper presented at Technologies, Systems, and Architectures for Transnational Defense II; Orlando, FL; Apr. 23, 2003, 2003.

Jones, B. K., and B. Tolk Archiving, processing, and disseminating of ASTER products at the USGS EROS Data Center, paper presented at Earth Observing Systems VII; Seattle, WA; July 7-10, 2002, 2002.

Jones, M. (2009), Hyperspectral surveys generate new mineral maps, *Queensland Government Mining Journal*, 2009(1233), 34-37.

Jones, M., T. Cudahy, C. Laukamp, R. Hewson, and M. Thomas (2008), Hyperspectral mineral maps and beyondRep. 9781921489365, 23-28 pp, Department of Mines and Energy, Brisbane, Queensl., Australia (AUS), Australia (AUS).

Jones, M., T. Cudahy, M. Thomas, and C. Laukamp (2008), Hyperspectral and ASTER mineral maps of Queensland now available, *Preview*, 136(Journal Article), 28-29.

Jordan, R., K. Arneson, E. Atekwana, J. Hogan, D. Mutamina, E. Seeger, and P. B. Waltman (2009), Kinematics of Kalaye Escarpment, northern Zambia; providing

international research experience for students, *Geological Society of America, 2009 annual meeting, Portland, OR, United States, Oct. 18-21, 2009, 41(7)*, 127.

Joshi, P. K., B. Gupta, and P. S. Roy (2008), Spectral evaluation of vegetation features using multi-satellite sensor system (Terra ASTER, Landsat ETM+ and IRS 1D LISS III) in man-made and natural landscape, *Nanosensors*, 28(1), 52-61.

Jowitt, S. M., F. M. McEvoy, J. P. Williamson, L. Bateson, J. Naden, A. G. Gunn, and S. Nicolaides Mineralisation potential mapping for ophiolite-hosted volcanic massive sulphide (VHMS) deposits, Troodos Ophiolite, Cyprus, paper presented at Mineral deposit research; meeting the global challenge; proceedings: 8th biennial SGA meeting, Beijing, China, Aug. 18-21, 2005, Springer, Berlin, Federal Republic of Germany (DEU), Federal Republic of Germany (DEU), 2005.

Jowitt, S. M., J. Naden, S. Nicolaides, L. Bateson, K. E. Rollin, and A. G. Gunn (2004), Mineralisation potential mapping for ophiolite-hosted volcanic massive sulphide (VHMS) deposits, Cyprus; 2004 annual winter meeting of the Mineral Deposits Studies Group on Future trends in mineral deposit geology, *2004 annual winter meeting of the Mineral Deposits Studies Group on Future trends in mineral deposit geology, Leeds, United Kingdom, Jan. 6-7, 2004*, 113(2), 147-148.

Joyce, K., S. Samsonov, and G. Jolly Satellite remote sensing of volcanic activity in New Zealand, paper presented at 2008 Second Workshop on Use of Remote Sensing Techniques for Monitoring Volcanoes and Seismogenic Areas (USEReST), IEEE, Piscataway, NJ, USA, 2008.

Joyce, K. E., S. Samsonov, and G. Jolly Temperature, color and deformation monitoring of volcanic regions in New Zealand, paper presented at Geoscience and Remote Sensing Symposium, 2009 IEEE International, IGARSS 2009, IEEE, 2009.

Joyce, K. E., S. Samsonov, V. Manville, R. Jongens, A. Graettinger, and S. J. Cronin (2009), Remote sensing data types and techniques for lahar path detection: A case study at Mt Ruapehu, New Zealand, *Remote Sensing of Environment*, 113(8), 1778-1786.

Judd, W. (1999), Eyes in the sky, *New Zealand Geographic*, 44(Journal Article), 14-15.

Junek, P., and M. O. Altan (2004), Geological Mapping in The Cheleken Peninsula, Turkmenistan Area using Advanced Spaceborne Thermal Emission and Reflection radiometer (aster) Data, *International congress for photogrammetry and remote sensing: ISPRS XXth congress*, 35(4), 645-650.

Justice, C. O., L. Giglio, S. Korontzi, J. Owens, J. T. Morisette, D. Roy, J. Descloitres, S. Alleaume, F. Petitcolin, and Y. Kaufman (2002), The MODIS fire products, *Remote Sensing of Environment*, 83(1-2), 244-262.

Kaab, A. Glacier volume changes using ASTER optical stereo. A test study in Eastern Svalbard, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Kaab, A. (2002), Monitoring high-mountain terrain deformation from repeated air- and spaceborne optical data: Examples using digital aerial imagery and ASTER data, *ISPRS Journal of Photogrammetry and Remote Sensing*, 57(1-2), 39-52.

Kaab, A. (2005), Combination of SRTM3 and repeat ASTER data for deriving alpine glacier flow velocities in the Bhutan Himalaya, *Remote Sensing of Environment*, 94(4), 463-474.

Kaab, A. (2008), Glacier volume changes using ASTER satellite stereo and ICESat GLAS laser altimetry. A test study on Edgeoya, Eastern Svalbard, *IEEE Transactions on Geoscience and Remote Sensing*, 46(10), 2823-2830.

Kaab, A., R. Frauenfelder, M. Hoelzle, I. Sossna, and M. Avian (2009), Glacier, glacier lake and permafrost distribution in the Brahmaputra River basin, *European Geosciences Union general assembly 2009, Vienna, Austria, April 19-24, 2009*, 11(Abstract), EGU2009-13002.

Kaab, A., B. Lefauconnier, and K. Melvold (2005), Flow field of Kronebreen, Svalbard, using repeated Landsat 7 and ASTER data, *ANNALS OF GLACIOLOGY*, 42(Journal Article), 7-13.

Kääb, A., F. Paul, C. Huggel, H. Kieffer, J. Kargel, and R. Wessels (2002), Glacier Monitoring From Aster Imagery: Accuracy and Applications, *EGS XXVII General Assembly, Nice, 21-26 April 2002, abstract #2135*, 27(Abstract), 2135.

Kadowaki, T., H. Tanaka, K. Furuya, T. Tajime, and M. Kimata (1991), Optical imaging sensors for space, *Mitsubishi Denki Giho*, 65(10), 47-53.

Kadowaki, T., H. Tanaka, F. Kiyotoshi, T. Tajime, and M. Kimata (1991), Optical Imaging Sensors for Space, *Mitsubishi Denki Giho*, 65, NO. 10(Journal Article), PAGE.973-979.

Kaaeab, A. (2006), The Global Land Ice Measurements from Space (GLIMS) project, in *Glacier science and environmental change*, edited by P. G. Knight, Blackwell Publishing, Oxford, United Kingdom (GBR), United Kingdom (GBR).

Kaaeab, A., et al. (2005), Remote sensing of glacier- and permafrost-related hazards in high mountains; an overview, *Natural Hazards and Earth System Sciences (NHESS)*, 5(4), 527-554.

Kaaeab, A., C. Huggel, S. Guex, F. Paul, N. Salzmann, K. Schmutz, D. Schneider, and Y. Weidmann (2005), Glacier hazard assessment in mountains using satellite optical data, *EARSeL eProceedings*, 4(1), 79-93.

Kaaeab, A., C. Huggel, F. Paul, R. Wessels, B. Raup, H. Kieffer, and J. Kargel Glacier monitoring from ASTER imagery; accuracy and applications; Proceedings of the EARSeL-LISSL workshop on Observing our cryosphere from space, paper presented at EADSeL-LISSL workshop on Observing our cryosphere from space, Bern, Switzerland, March 11-13, 2002, European Association of Remote Sensing Laboratories (EARSeL), Paris, International (III), 2003.

Kaaeab, A., R. Wessels, W. Haeberli, C. Huggel, J. S. Kargel, and S. J. S. Khalsa (2003), Rapid ASTER imaging facilitates timely assessment of glacier hazards and disasters, *EOS, Transactions, American Geophysical Union*, 84(13), 117-124.

Kaaeab, A., G. T. Zurich, and G. T. Flagstaff (2001), Glacier Monitoring From ASTER Imagery: Accuracy and Applications, *AGU Fall Meeting Abstracts*, 41(Abstract), 06.

Kafle, H. K., and Y. Yamaguchi (2009), Effects of topography on the spatial distribution of evapotranspiration over a complex terrain using two-source energy balance model with ASTER data, *Hydrological Processes*, 23(16), 2295-2306.

Kageyama, S., M. Suzuki, Y. Negishi, Y. Arakawa, and K. Saiki (2003), Application of ASTER/DEM data to petroleum exploration in a rain forest area; Abstracts for papers submitted for the 2003 technical meeting of the JAPT, *2003 technical meeting of the JAPT, Chiba, Japan, June 24-25, 2003*, 68(4), 308.

Kahle, A. ASTER - A New Spaceborne Instrument Which Will Contribute to Thermal Remote Sensing of the Energy and Water Balance over land surfaces, paper presented at Thermal Remote Sensing of Energy and Water Balance Workshop, 1994.

Kahle, A., M. J. Abrams, A. R. Gillespie, D. Pieri, M. Ramsey, L. C. Rowan, T. Schmugge, and R. Wessels (2002), The U.S. ASTER Science Team activities, *IGARSS2002*(Abstract).

Kahle, A., and D. Nichols ASTER and Beyond, paper presented at 1st JPL Workshop on Remote Sensing of Land Surface Emissivity, Pasadena, CA United States, 1997.

Kahle, A., Y. Yamaguchi, and A. Gillespie ASTER Data Products and Science Applications, paper presented at IGARSS Remote Sensing, Houston, TX United States, 1998.

Kahle, A., Y. Yamaguchi, T. Kawakami, M. Pniel, and H. Tsu ASTER Instrument Operations Overview, paper presented at IGARSS Remote Sensing, Houston, TX United States, 1998.

Kahle, A., Y. Yamaguchi, and H. Tsu (2000), The Advanced Thermal Emission and Reflection Radiometer, ASTER, in *American Geophysical Union*, edited, pp. 1-17.

Kahle, A. B. Environmental Remote Sensing Using the Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), paper presented at International Society for Optical Engineering (SPIE)'s 3rd International Asia-Pacific Environmental Remote Sensing Symposium 2002: Remote Sensing of the Atmosphere, Ocean, Environment, and Space, Hangzhou China, 2002.

Kahle, A. B. Geologic remote sensing in the thermal infrared; New technology for geosciences, paper presented at 30th international geological congress on New technology for geosciences, Beijing, China, Aug. 4-14, 1996, International Geological Congress, [location varies], International (III), International (III), 1997.

Kahle, A. B. Rock identification using thermal infrared data, paper presented at Earth Resources Satellite Data Analysis Center, Proceedings of the 3rd International Symposium: JERS-1 and Remote Sensing in the Future, 1991.

Kahle, A. B. (1995), Measuring Change in Forests with EOS/ASTER, edited.

Kahle, A. B. (1995), The Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), edited.

Kahle, A. B. (1997), ASTER: The Spaceborne TIMS, edited.

Kahle, A. B., and E. Abbott Multispectral thermal infrared data from ASTER, paper presented at International Thermal Infrared Remote Sensing Workshop, International Thermal Infrared Remote Sensing Workshop, Huangshan China, 2001.

Kahle, A. B., E. Abbott, and A. R. Gillespie Advanced infrared sensors, paper presented at Land satellite information in the next decade II: Sources and applications; Proceedings of the Conference, Washington, DC; UNITED STATES; 2-5 Dec. 1997, Bethesda, MD: American Society for Photogrammetry and Remote Sensing, 1997.

Kahle, A. B., M. J. Abrams, S. J. Hook, D. C. Pieri, M. Ramsey, L. C. Rowan, T. Schmugge, and R. Wessels Current Activity of the U.S. ASTER Science Team, paper presented at ASTER Symposium, Tokyo Japan, 2001.

Kahle, A. B., and R. E. Alley (1992), Separation of Temperature and Emittance in Remotely Sensed Radiance Measurements, *Remote Sensing of Environment*, 42(2), 107-111.

Kahle, A. B., S. J. Hook, P. Gagnon, and N. O'Neill The Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER); Remote sensing: a tool for modelling and managing environmental changes, paper presented at CANADIAN SYMPOSIUM ON REMOTE SENSING, 16th, Canadian Remote Sensing Society, 1993.

Kahle, A. B., S. J. Hook, D. A. Nichols, M. L. Schier, and H. Tsu The Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), paper presented at Canadian Remote Sensing Society, Remote Sensing: A Tool for Modelling and Managing Environmental Changes, Canada, 1993.

Kahle, A. B., A. D. Morrison, H. Tsu, and Y. Yamaguchi Geologic Remote Sensing in the Thermal Infrared, paper presented at XVIII ISPRS Congress, 1996.

Kahle, A. B., E. J. Njoku, F. D. Palluroni, A. R. Gillespie, S. J. Hook, C. M. Hayden, K. Tsuchiya, and J. Dozier (1994), Remote Sensing of Earth's Surface and Atmosphere: Interdisciplinary Scientific Commission A of the COSPAR Plenary Meeting, 29th, Washington, DC, 28 Aug. - 5 Sep., 1992, *Advances in Space Research* 3 285 p. *Advances in Space Research*, 14(3), 285.

Kahle, A. B., F. D. Palluconi, S. J. Hook, V. J. Realmuto, and G. Bothwell (1991), Advanced Spaceborne Thermal Emission and Reflectance Radiometer (ASTER), *International Journal of Imaging Systems and Technology*, 3(2), 144-156.

Kai, T., Y. Kuwahara, K. Takekazu, and T. Kimura Preparation of time series change information on surficial distribution for green space around Mito City, Japan, 2004.

Kaiser, R. D. Quantitative comparison of temperature/emissivity algorithm performance using SEBASS data, paper presented at Proceedings of the 1999 Algorithms for Multispectral and Hyperspectral Imagery V, Apr 5-Apr 6 1999, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, 1999.

Kalvelage, T., and J. Willems Supporting users through integrated retrieval, processing, and distribution systems at the Land Processes Distributed Active Archive Center, paper presented at 54th International Astronautical Congress of the International Astronautical Federation (IAF); Bremen, Germany; Sep. 29 - Oct. 3, 2003, American Institute of Aeronautics and Astronautics, Inc, Reston, VA, 20191-4344, United States, 2003.

Kalvelage, T., and J. Willems (2005), Supporting users through integrated retrieval, processing, and distribution systems at the land processes distributed active archive center, *Acta Astronautica*, 56(7), 681-687.

Kambara, H., M. Shigeo, H. Kayane, T. Matsunaga, M. Kato, and K. Tooru Application of ASTER spectral data on coral reef mapping, Japan, 1998.

Kamei, K., and O. Nishihara Long life spaceborne cryocooler for ASTER/TIR (Advanced Spaceborne Thermal Emission and Reflection Radiometer Thermal Infrared Radiometer), paper presented at Infrared spaceborne remote sensing II; Proceedings of the Conference, San Diego, CA; UNITED STATES; 27-29 July 1994, Bellingham, WA: Society of Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 2268), 1994.

Kamp, U., Jr., M. P. Bishop, J. Olsenholer, and J. F. Shroder, Jr. (2001), Analysis of ASTER imagery and DEMs for assessing glaciation in the western Himalaya; The International Association of Geomorphologists; fifth international conference on Geomorphology; abstracts of conference papers, *Fifth international conference on Geomorphology, Tokyo, Japan, Aug. 23-28, 2001*, 22(4), C-118.

Kamp, U., M. P. Bishop, J. F. Shroder, and J. Olsenholer (2001), Digital elevation models and geomorphometry for geomorphological and glacier analysis in the western Himalaya; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 320.

Kamp, U., T. Bolch, J. Olsenholer, and J. Roa (2004), ASTER digital elevation models in high mountain geomorphology, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004*, 32, Part 2(Abstract), 1000-1001.

Kamp, U., M. E. Byrne, and T. Bolch Glacier variations between 1975 and 2008 in Ladakh, northwestern India, paper presented at 2010 AAG annual meeting, Washington, DC, USA, United States, April 14-18, 2010, Association of American Geographers, Washington, DC, United States (USA), United States (USA), 2010.

Kamp, U., B. J. Crowley, G. A. Khattak, and L. A. Owen (2008), GIS-based landslide susceptibility mapping for the 2005 Kashmir earthquake region, *Geomorphology*, 101(4), 631-642.

Kamp, U., L. A. Owen, B. J. Crowley, and G. A. Khattak (2010), Back analysis of landslide susceptibility zonation mapping for the 2005 Kashmir earthquake: an assessment of the reliability of susceptibility zoning maps, *Natural Hazards*, 54(1), 1-25.

Kampf, S. K. (2002), Evaporation and land surface energy budget at the Salar de Atacama, northern Chile, 130-749 pp, University of Nevada, Reno; 0139 Advisor: Adviser Scott W. Tyler.

Kampf, S. K., and S. W. Tyler (2003), Characterization of land surface energy fluxes at the Salar de Atacama, Northern Chile using ASTER image classification, *AGU Fall Meeting Abstracts*, 42(Abstract), 1066.

Kampf, S. K., and S. W. Tyler (2006), Spatial characterization of land surface energy fluxes and uncertainty estimation at the Salar de Atacama, Northern Chile, *Advances in Water Resources*, 29(2), 336-354.

Kampf, S. K., S. W. Tyler, S. F. Menz, J. F. Muñoz, and C. O. Astete (2001), Development of Ground and Remotely Based Evaporation Measurements at the Salar de Atacama, Northern Chile, *AGU Fall Meeting Abstracts*, 21(Abstract), 0318.

Kaneko, D. Measurement of reflectance spectrum of rice plant leaves for a crop production model and applicability of water stress indices, paper presented at 2005

Annual Conference, Japan Society of Hydrology and Water Resources, Japan Society of Hydrology and Water Resources, 2005.

Kang, L., Y. Shu, Y. Lei, and L. Zheng (2006), Mapping fruit tree planting area and estimating water consummation from Modis satellite data: a case study in Hebei Plain, China, *EOS Transactions, American Geophysical Union*, 87(Abstract).

Kang, Q., R. Yu, Z. Zhang, and X. Zhao Remote sensing application of soil salinization based on multi-source images, paper presented at MIPPR 2005: Geospatial Information, Data Mining, and Applications, Oct 31-Nov 2 2005, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, Wuhan, China, 2005.

Kang, Q., R. Yu, Z. Zhang, and X. Zhao (2005), Remote Sensing Application in Studying Soil Salinization in Arid Areas Based on ASTER Images, *Arid Land Geography*, 28(5), 675-680.

Kang, Q., R. Yu, Z. Zhang, and X. Zhao (2005), Rapid Survey of Land Salinization Based on Multi-Source Remote Sensing Data, *Remote Sensing Information*(6), 42-45.

Kang, Q., Z. Zhang, C. Wang, and R. Yu (2006), Application of remote sensing technique to land use changes and soil salinization in agricultural area of oasis, *Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering*, 22(2), 73-78.

Kang, Q., Z. Zhang, X. Zhao, and R. Yu (2006), Remote Sensing Application to Rapid Survey of Land Salinization Based on Multi\_source Images, *Journal of Arid Land Resources and Environment*, 20(3), 144-148.

Kaniewski, D., V. De Laet, E. Paulissen, and M. Waelkens (2007), Long-term effects of human impact on mountainous ecosystems, western Taurus Mountains, Turkey, *Journal of Biogeography*, 34(11), 1975-1997.

Kannari, Y., F. Mills, H. Watanabe, T. Ezaka, T. Narita, S. H. E. N. G. H. U. E. I. Chang, and T. Japex Geoscience Inst Comparison of preliminary results from Airborne Aster Simulator (AAS) with TIMS data, paper presented at JPL, Summaries of the Third Annual JPL Airborne Geoscience Workshop. Volume 2: TIMS Workshop p 13-15 (SEE N94-16595 03-42); UNITED STATES, 1992.

Kano, H., J. Osozawa, and T. Ryutaro Extraction of Japanese red pine forest using ASTER data, Japan, 2002.

Kant, Y., B. D. Bharath, J. Mallick, C. Atzberger, and N. Kerle (2009), Satellite-based Analysis of the Role of Land Use/Land Cover and Vegetation Density on Surface Temperature Regime of Delhi, India, *Journal of the Indian Society of Remote Sensing*, 37(2), 201-214.

Kargel, J. S. (2005), Global Land Ice Measurements Form Space (GLIMS) Core Functions: International Organization, Aster Glacier Image Data Management, and Glacier Hazard/Emergency Response, edited, p. 0, Arizona Univ.; Tucson, AZ.

Kargel, J. S., et al. (2005), Multispectral imaging contributions to global land ice measurements from space, *Scientific Results from ASTER*, 99(1-2), 187-219.

Kargel, J. S., and B. Molnia (2003), ASTER Imagery And Interpretation Of Glaciers In Jasper National Park And Elsewhere In The Cordillera, *Third International Conference on Mars Polar Science and Exploration; Alberta; Canada; 13-17 Oct. 2003*, 1184(Abstract), 8127.pdf.

Karkee, M., B. L. Steward, and S. A. Aziz (2008), Improving quality of public domain digital elevation models through data fusion, *Biosystems Engineering*, 101(3), 293-305.

Karnieli, A., Y. J. Kaufman, L. Remer, and A. Wald (2001), AFRI - Aerosol free vegetation index, *Remote Sensing of Environment*, 77(1), 10-21.

Kassabova, T. D., R. T. Pinker, and I. Laszlo Updated Surface Spectral Reflectance Models Compatible with Current Global Land Cover Classifications (2002 - 11atrad); Proceedings of the 11th AMS Conference on Atmospheric Radiation, 2002.

Kato, A., and Y. Yasushi Assessment of water and temperature stresses of vegetation in urban areas by the VWTI index, Japan, 2005.

Kato, M., Y. Maruyama, and M. Tsukada Ps1-01 an Introduction of Aster (The Advanced Spaceborne Thermal Emission and Reflection Radiometer) for the Earth Observation, paper presented at Proceedings Of The 21st Asian Conference On Remote Sensing;ACRS 2000, 2000.

Kato, S., and Y. Yamaguchi (2005), Analysis of urban heat-island effect using ASTER and ETM+ Data: Separation of anthropogenic heat discharge and natural heat radiation from sensible heat flux, *Scientific Results from ASTER*, 99(1-2), 44-54.

Kato, S., and Y. Yamaguchi (2007), Estimation of storage heat flux in an urban area using ASTER data, *Remote Sensing of Environment*, 110(1), 1-17.

Kato, S., Y. Yamaguchi, C.-C. Liu, and C.-Y. Sun (2008), Surface heat balance analysis of Tainan City on March 6, 2001 using ASTER and Formosat-2 data, *Sensors*, 8(9), 6026-6044.

Kato, S., and Y. Yasushi Comparison between surface heat balance and geometrical volume in urban area using ASTER data, Japan, 2005.

Kato, S., and Y. Yasushi Surface heat balance analysis in the city of Nagoya using ASTER data, Japan, 2004.

Kato, S., and Y. Yasushi Surface heat balance analysis in urban areas using remote sensing data, Japan, 2003.

Kato, S., Y. Yasushi, and H. Tonooka Heat flux analysis in urban areas using ASTER data, Japan, 2002.

Kato, Y. Possibility of descriptions of Fukui heavy rainfall and resulted disasters by using remote sensing, paper presented at Disaster Forewarning Diagnostic Methods and Management, Nov 13-16 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, 2006.

Kato, Y. (2006), Possibility of Descriptions of Fukui Heavy Rainfall and Resulted Disasters by using Remote Sensing -Preliminary Report, *Memoirs of Fukui University of Technology*, NO.36,dai1bu(Journal Article), PAGE.229-236.

Katra, I., and N. Lancaster (2007), Surface-sediment dynamics in a dust source from thermal infrared remote sensing, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 41; 88(52, Suppl. Volume 1-2), 0666.

Katra, I., and N. Lancaster (2008), Surface-sediment dynamics in a dust source from spaceborne multispectral thermal infrared data, *Remote Sensing of Environment*, 112(7), 3212-3221.

Katra, I., S. Scheidt, and N. Lancaster (2009), Changes in active eolian sand at northern Coachella Valley, California, *Geomorphology*, 105(3-4), 277-290.

Katsiabani, K., N. Adaktilou, and C. Cartalis (2009), A generalised methodology for estimating land surface temperature for non-urban areas of Greece through the combined use of NOAA-AVHRR data and ancillary information, *Advances in Space Research*, 43(6), 930-940.

Katsurada, Y. Estimation of geological conditions in the Bishri region, Syria by using ASTER remotely sensed images, paper presented at The 114th Annual Meeting, Geological Society of Japan, 2007, Sapporo, Geological Society of Japan, 2007.

Kaufman, Y. J. (2000), The Earth Observing System Terra Mission, *Geoscience and Remote Sensing(Abstract)*, 1.

Kaufman, Y. J., and F. Einaudi (2000), The Earth Observing System Terra Mission, in *Committee on Space Research; 16-23 Jul. 2000*, edited, p. 2, NASA Goddard Space Flight Center; Greenbelt, MD.

Kaufman, Y. J., W. M. Hao, C. Justice, L. Giglio, D. Herring, and F. Einaudi Remote Sensing of Fires and Smoke from the Earth Observing System MODIS Instrument, paper presented at International Workshop, 2001.

Kaufman, Y. J., D. D. Herring, K. J. Ranson, and G. J. Collatz (1998), Earth Observing System AM1 mission to earth, *IEEE Transactions on Geoscience and Remote Sensing*, 36(4), 1045-1055.

Kavak, K. S. Indication of geohazard risk and economic value of gypsum deposits in the Tertiary Sivas Basin (Turkey) using ASTER and Landsat ETM+ images, paper presented at RAST 2005. Proceedings of 2nd International Conference on Recent Advances in Space Technologies, 9-11 June 2005, IEEE, Istanbul, Turkey, 2005.

Kavak, K. S. (2005), Recognition of gypsum geohorizons in the Sivas Basin (Turkey) using ASTER and Landsat ETM+ images, *International Journal of Remote Sensing*, 26(20), 4583-4596.

Kavak, K. S., Y. Tore, H. Temiz, O. Parlak, H. Cigla, and M. Yakan Differentiation of Neotethyan ophiolitic melange and an approach revealing its surficial chromite deposits using ASTER image and spectral measurements (Sivas/Turkey), paper presented at Earth Resources and Environmental Remote Sensing/GIS Applications, September 21, 2010 - September 23, SPIE, Bellingham, WA, 2010.

Kavak, K. S., A. Ucurum, P. J. Lechler, G. B. Arehart, N. Otlu, T. Ekici, and D. Boztug (2004), Determination of alteration zones related to hydrothermal mineralization in the eastern Black Sea region-Turkey using ASTER and Landsat ETM images, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004, 32, Part 2(Abstract)*, 941.

Kavzoglu, T., and I. Colkesen (2009), A kernel functions analysis for support vector machines for land cover classification, *International Journal of Applied Earth Observation and Geoinformation*, 11(5), 352-359.

Kawabata, D., and J. Bandibas (2008), Landslide susceptibility mapping using geological data and DEM from ASTER images and artificial neural networks (ANN), *33rd international geological congress, Oslo, NOR, Norway, Aug. 6-14, 2008, 33(Abstract)*, Abstract 1343902.

Kawabata, D., and J. Bandibas (2009), Landslide susceptibility mapping using geological data, a DEM from ASTER images and an Artificial Neural Network (ANN), *Geomorphology*, 113(1-2), 97-109.

Kawabata, K., S. Wakabayashi, T. Akiyama, H. Fujisada, and M. Kato Parallax error correction method for ASTER SWIR bands, paper presented at Sensors, systems, and next-generation satellites; Proceedings of the Conference, London, United Kingdom; UNITED STATES; 22-25 Sept. 1997, Society of Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 3221), Bellingham, WA:, 1997.

Kawada, M., H. Akao, M. Kobayashi, S. Akagi, T. Maekawa, O. Nishihara, M. Kudoh, and H. Fujisada Performance evaluation of ASTER cryocooler in orbit, paper presented

at Sensors, Systems, and Next-Generation Satellites VI, Sep 23-26 2002, The International Society for Optical Engineering, Agia Pelagia, Crete, Greece, 2002.

Kawada, M., H. Akao, M. Kobayashi, K. Kazuhiko, A. Nishimoto, and N. Osamu Development of long-life Stirling cycle cryocoolers for ASTER, Japan, 1997.

Kawada, M., H. Akao, M. Kobayashi, T. Maekawa, and H. Fujisada In-flight performance of ASTER cryocooler, paper presented at Sensors, systems, and next-generation satellites IV; Proceedings of the Conference, Barcelona, Spain; UNITED STATES; 25-28 Sept. 2000, Bellingham, WA: Society of Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 4169), 2001.

Kawada, M., and H. Fujisada Mechanical cooler development program for ASTER, paper presented at Future European and Japanese Remote-Sensing Sensors and Programs, Apr 1-2 1991, Publ by Int Soc for Optical Engineering, Bellingham, WA, USA, Orlando, FL, USA, 1991.

Kawada, M., H. Fujisada, H. Akao, M. Kobayashi, K. Kawajiri, A. Nishimoto, and O. Nishihara Performance of long-life Stirling cycle cryocoolers for ASTER instrument, paper presented at Sensors, systems, and next-generation satellites; Proceedings of the Conference, London, United Kingdom; UNITED STATES; 22-25 Sept. 1997, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA:, 1997.

Kawada, M., H. Fujisada, M. Kobayashi, H. Akao, O. Nishihara, and A. Nishimoto Verification test and evaluation of vibration characteristics for the ASTER cryocoolers, paper presented at Infrared Spaceborne Remote Sensing III, Jul 12-14 1995, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, San Diego, CA, USA, 1995.

Kawai, M., M. Setojima, M. Funahashi, I. Yasuteru, and T. Tachikawa Examination as to calculation of variation of vegetation and prediction of volume of vegetation by ASTER, Japan, 2005.

Kawajiri, K., Y. Hisamori, T. Oishi, H. Kiyota, M. Kawada, and M. Isoda (1993), A long life Stirling-cycle refrigeration unit for use in outer space, *Mitsubishi Denki Giho*, 67(8), 79-82.

Kawakami, T. ASTER program overview, paper presented at Proceedings of the 1998 Conference on Hyperspectral Remote Sensing and Application, Sep 15-16 1998, SPIE, Bellingham, WA, USA, Beijing, China, 1998.

Kawashima, T., et al. The functional evaluation model for the on-board hyperspectral radiometer, paper presented at Multispectral, Hyperspectral, and Ultraspectral Remote Sensing Technology, Techniques, and Applications III, October 13, 2010 - October 14, SPIE, Bellingham, WA, 2010.

Kawata, Y., H. Fukui, and K. Takemata Surface reflectance ratios for several land classes in Japan between visible and infrared bands from satellite and sky measurement data, paper presented at Passive Optical Remote Sensing of Atmosphere and Clouds IV, Nov 9-10 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Honolulu, HI, United States, 2004.

Kawata, Y., H. Fukui, K. Takemata, and N. Takeuchi (2005), Surface reflectance ratios between visible and infrared bands of satellite images over land areas in Japan for retrieval of aerosol optical thickness, *Atmospheric Remote Sensing: Earth's Surface, Troposphere, Stratosphere and Mesosphere- I*, 36(5), 773-777.

Kay, J., R. N. Handcock, A. Gillespie, C. Konrad, S. Burges, N. Naveh, and D. Booth Stream-temperature estimation from thermal infrared images, paper presented at 2001 International Geoscience and Remote Sensing Symposium (IGARSS 2001), Jul 9-13 2001, Institute of Electrical and Electronics Engineers Inc, Sydney, NSW, 2001.

Kay, J. E., A. R. Gillespie, G. B. Hansen, and E. C. Pettit (2003), Spatial relationships between snow contaminant content, grain size, and surface temperature from multispectral images of Mt. Rainier, Washington (USA), *Remote Sensing of Environment*, 86(2), 216-231.

Kay, J. E., S. K. Kampf, R. N. Handcock, K. A. Cherkauer, A. R. Gillespie, and S. J. Burges (2005), Accuracy of lake and stream temperatures estimated from thermal infrared images, *Journal of the American Water Resources Association*, 41(5), 1161-1175.

Kayadibi, O. Recent advances in satellite technologies using to generate the digital elevation model (DEM), paper presented at 4th International Conference on Recent Advances in Space Technologies 2009, RAST '09, June 11, 2009 - June 13, IEEE Computer Society, Istanbul, Turkey, 2009.

Kaymakci, N., E. Aldanmaz, C. Langereis, T. L. Spell, O. F. Gurer, and K. A. Zanetti (2007), Late Miocene transcurrent tectonics in NW Turkey; evidence from palaeomagnetism and (super 40) Ar- (super 39) Ar dating of alkaline volcanic rocks, *Geological Magazine*, 144(2), 379-392.

Kaymakci, N., M. L. Suzen, I. Kuscu, V. Toprak, and F. Zortul (2005), Uzaktan algilama yontemleriyle kuzeybati Anadolu'da alterasyon minerallerinin haritalanmasi ve alterasyonlari kontrol eden yapisal etmenler--Mapping alteration minerals in western Turkey by remote sensing and structural features that control these alterations, 58 *Turkiye jeoloji kurultayi--58th geological congress of Turkey, Ankara, Turkey, April 11-17, 2005*, 58(Abstract), 204-205.

Kealy, P. S., and S. J. Hook (1993), Separating temperature and emissivity in thermal infrared multispectral scanner data: implications for recovering land surface

temperature, *IEEE Transactions on Geoscience and Remote Sensing*, 31(6), 1155-1164.

Kearney, C., and K. Dean A preliminary analysis of the detection limit of volcanic sulfur dioxide in the North Pacific using ASTER and MODIS, paper presented at 54. Arctic Science Conference, Fairbanks, AK (USA), 21-24 Sep 2003 Extreme Events.Understanding Perturbations to the Physical and biological Environment.p, American Association for the Advancement of Science, 1200 New York Avenue, NW Washington DC 20005 USA, [URL:<http://www.aaas.org>], 2003.

Kearney, C., K. G. Dean, J. Eichelberger, and A. D. U. S. American Association for the Advancement of Science (2003), A preliminary analysis of the detection limit of volcanic sulfur dioxide in the North Pacific using ASTER and MODIS; Extreme events; understanding perturbations to the physical and biological environment, *54th Arctic science conference, Fairbanks, AK, United States, Sept. 21-24, 2003*, 54(Abstract), 184.

Kearney, C., J. Dehn, and K. G. Dean (2004), Space-based TIR detection of volcanic SO (sub 2) in the North Pacific using ASTER and MODIS, *American Geophysical Union 2004 fall meeting, San Francisco, CA, United States, Dec. 13-17, 2004*, 85(47, Suppl.), Abstract V33C-1477.

Keramitsoglou, I., C. Kontoes, K. Koutroumbas, O. Sykoti, and N. Sifakis Mapping of forest species and tree density using new Earth observation sensors for wildfire applications, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology VII, International Society for Optical Engineering, 2005.

Keramitsoglou, I., C. Kontoes, O. Sykoti, N. Sifakis, and P. Xofis (2008), Reliable, accurate and timely forest mapping for wildfire management using ASTER and Hyperion satellite imagery, *Forest Ecology and Management*, 255(10), 3556-3562.

Kernich, A., C. Pain, P. Kilgour, and B. Maly (2004), Regolith landforms in the lower Balonne area, southern Queensland, AustraliaRep. 1329-4768, 59 pp, Cooperative Research Centre for Landscape Evolution and Mineral Exploration, Wembley, West. Aust., Australia (AUS), Australia (AUS).

Kernich, A. L., and C. Pain Geomorphology mapping for NRM issues, southeastern Queensland, paper presented at Advances in regolith; proceedings of the CRC LEME regional regolith symposia 2003, Cooperative Research Centre for Landscape Environments and Mineral Exploration, Bentley, West. Aust., Australia (AUS), Australia (AUS), 2003.

Kernich, A. L., C. F. Pain, J. D. A. Clarke, and A. D. Fitzpatrick (2009), Geomorphology of a dryland fluvial system: the Lower Balonne River, southern Queensland, *Australian Journal of Earth Sciences*, 56(Journal Article), 139-153.

- Kervyn, F., S. Ayub, R. Kajara, E. Kanza, and B. Temu (2006), Evidence of recent faulting in the Rukwa rift (West Tanzania) based on radar interferometric DEMs, *Journal of African Earth Sciences*, 44(2), 151-168.
- Kervyn, M., G. G. J. Ernst, R. Goossens, and P. Jacobs (2008), Mapping volcano topography with remote sensing: ASTER vs. SRTM, *Advances in the Remote Sensing of Volcanic Activity and Hazards*, 29(22), 6515-6538.
- Kervyn, M., G. G. J. Ernst, A. J. L. Harris, F. Belton, E. Mbede, and P. Jacobs (2008), Thermal remote sensing of the low-intensity carbonatite volcanism of Oldoinyo Lengai, Tanzania, *Advances in the Remote Sensing of Volcanic Activity and Hazards*, 29(22), 6467-6499.
- Kervyn, M., G. G. J. Ernst, J. Keller, R. G. Vaughan, J. Klaudius, E. Pradal, F. Belton, H. B. Mattsson, E. Mbede, and P. Jacobs (2010), Fundamental changes in the activity of the natrocarbonatite volcano Oldoinyo Lengai, Tanzania, *Bulletin of Volcanology*, 72(8), 913-931.
- Kervyn, M., G. G. J. Ernst, J. Klaudius, J. Keller, E. Mbede, and P. Jacobs (2008), Remote sensing study of sector collapses and debris avalanche deposits at Oldoinyo Lengai and Kerimasi volcanoes, Tanzania, *Advances in the Remote Sensing of Volcanic Activity and Hazards*, 29(22), 6565-6595.
- Kervyn, M., F. Kervyn, R. Goossens, S. K. Rowland, and G. G. J. Ernst (2007), Mapping volcanic terrain using high-resolution and 3D satellite remote sensing, in *Mapping hazardous terrain using remote sensing*, edited by R. M. Teeuw, pp. 5-30, Geological Society of London, London, United Kingdom (GBR).
- Kesgin, B., and E. Nurlu (2009), Land cover changes on the coastal zone of Candarli Bay, Turkey using remotely sensed data, *Environmental monitoring and assessment*, 157(1-4), 89-96.
- Keshri, A. K., A. Shukla, and R. P. Gupta (2009), ASTER ratio indices for supraglacial terrain mapping, *International Journal of Remote Sensing*, 30(2), 519-524.
- Kesten, D., M. Weber, C. Haberland, C. Janssen, A. Agnon, Y. Bartov, I. Rabba, and D. Group (2008), Combining satellite and seismic images to analyse the shallow structure of the Dead Sea Transform near the DESERT transect, *International Journal of Earth Sciences*, 97(1), 153-169.
- Kester, J. E. Building good spectral vegetation backgrounds in the VNIR, paper presented at IGARSS 2008 - 2008 IEEE International Geoscience and Remote Sensing Symposium, IEEE, Piscataway, NJ, USA, 2008.
- Khalsa, S. J. S., M. Dyurgerov, T. Khromova, B. Raup, and R. G. Barry Space-Based Mapping of Glacier Changes using ASTER and GIS Tools, paper presented at 2003

IGARSS: Learning From Earth's Shapes and Colours, Jul 21-25 2003, Institute of Electrical and Electronics Engineers Inc, Toulouse, France, 2003.

Khalsa, S. J. S., M. B. Dyurgerov, T. Khromova, B. H. Raup, and R. G. Barry (2004), Space-based mapping of glacier changes using ASTER and GIS tools; Special issue on the 2003 international geoscience and remote sensing symposium (IGARSS'03); Learning from Earth's shapes and colors, *2003 international geoscience and remote sensing symposium (IGARSS'03); Learning from Earth's shapes and colors, USA, 2003*, 42(10), 2177-2183.

Khalsa, S. J. S., M. B. Dyurgerov, B. H. Raup, G. Scharfen, and R. G. Barry (2003), New tools for analyzing glacier changes from space, *American Geophysical Union 2003 fall meeting, San Francisco, CA, United States, Dec. 8-12, 2003*, 84(46, Suppl.), Abstract C11C-0838.

Khan, S. D., and N. F. Glenn (2006), New strike-slip faults and litho-units mapped in Chitral (N. Pakistan) using field and ASTER data yield regionally significant results, *International Journal of Remote Sensing*, 27(20), 4495-4512.

Khan, S. D., and K. Mahmood (2008), The application of remote sensing techniques to the study of ophiolites, *Earth-Science Reviews*, 89(3-4), 135-143.

Khan, S. D., K. Mahmood, J. Casey, and M. Flower (2007), Late Cretaceous arc-continent collision in western Pakistan and implications for Himalayan Orogeny, *Geological Society of America, 2007 annual meeting, Denver, CO, United States, Oct. 28-31, 2007*, 39(6), 131.

Khan, S. D., K. Mahmood, and J. F. Casey (2007), Mapping of Muslim Bagh ophiolite complex (Pakistan) using new remote sensing, and field data, *Journal of Asian Earth Sciences*, 30(2), 333-343.

Khan, S. D., D. J. Walker, S. A. Hall, K. C. Burke, M. T. Shah, and L. Stockli (2009), Did the Kohistan-Ladakh island arc collide first with India?, *Geological Society of America Bulletin*, 121(3-4), 366-384.

Khanbilvardi, R., B. Shtuinman, V. Kushnir, and S. Stanichny Short term forecast of the quality of water in New York coastal zone using multispectral satellite data, paper presented at OCEANS 2005, 17-23 Sept. 2005, IEEE, Washington, DC, USA, 2005.

Khromova, T., A. Glazovsky, G. Nossenko, and M. Dyurgerov Glacier mapping from historical data and ASTER images; Papers and recommendations; Snow watch 2002 workshop and workshop on Assessing global glacier recession, paper presented at Snow watch 2002 workshop and workshop on Assessing global glacier recession, Camp Spring, MD, United States, Oct. 31-Nov. 1, 2002, National Snow and Ice Data Center/World Data Center for Glaciology, Boulder, CO, United States (USA), United States (USA), 2003.

Khromova, T., V. Kotlyakov, and G. Nosenko Results of ASTER and LANDSAT imagery application to the glaciated regions of Russia in the frame or GLIMS project, paper presented at Earth: Our Changing Planet. Proceedings of IUGG XXIV general assembly, Perugia, ITA, Italy, July 2-13, 2007, IUGG, [location varies], International (III), International (III), 2007.

Khromova, T., G. Nosenko, R. Armstrong, B. Raup, S. S. Khalsa, and R. Barry (2005), First Results of GLIMS Database Population for Former Soviet Union Glacier Regions, *AGU Fall Meeting Abstracts*, 86(no. 52, Suppl.), Abstract C51B-0286.

Khromova, T. E., M. B. Dyurgerov, and R. G. Barry (2003), Late-twentieth century changes in glacier extent in the Ak-shirak Range, Central Asia, determined from historical data and ASTER imagery, *Geophysical Research Letters*, 30(16), 4.

Khromova, T. E., G. B. Osipova, D. G. Tsvetkov, M. B. Dyurgerov, and R. G. Barry (2006), Changes in glacier extent in the eastern Pamir, Central Asia, determined from historical data and ASTER imagery, *Remote Sensing of Environment*, 102(1-2), 24-32.

Kiang, R., F. Adimi, and S. Kempler Accessing and Utilizing Remote Sensing Data for Vectorborne Infectious Diseases Surveillance and Modeling, paper presented at The International Conference on Emerging Infectious Diseases (ICEID 2008), American Society for Microbiology; Washington, DC, 2008.

Kiang, R. K., F. Adimi, and S. Kempler Accessing, Utilizing and Visualizing NASA Remote Sensing Data for Malaria Modeling and Surveillance, paper presented at Mekong Malaria Colloquium, 2007.

Kiefer, D. (2006), Monitoring Sediment Resuspension in Coral Reefs and Seagrass Beds with MODIS and ASTER Sensors, edited, p. 11, University of Southern California; Los Angeles, CA.

Kieffer, H. H., et al. (2000), New eyes in the sky measure glaciers and ice sheets, *EOS, Transactions, American Geophysical Union*, 81(24), 265-270-271.

Kieffer, H. H., K. F. Mullins, and D. J. MacKinnon (2008), Validation of the ASTER instrument level 1A scene geometry, *Photogrammetric Engineering and Remote Sensing*, 74(3), 289-301.

Kieffer, H. H., and R. L. Wildey (1996), Establishing the moon as a spectral radiance standard, *Journal of Atmospheric and Oceanic Technology*, 13(2), 360-375.

Kilby, W. E., and L. D. Jones (2004), MapPlace.ca; more power!; Geological Society of America, Rocky Mountain Section, 56th annual meeting; Geological Society of America, Cordilleran Section, 100th annual meeting, *Geological Society of America, Rocky Mountain Section, 56th annual meeting; Geological Society of America, Cordilleran Section, 100th annual meeting*, Boise, ID, United States, May 3-5, 2004, 36(4), 30.

Kincaid, J. L., and A. G. Klein (2007), Glacier Change in the Rwenzori Mountains, East Africa, 2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007, 88(52,; Suppl. Volume 1-2).

King, M. D., and D. D. Herring (2000), Monitoring Earth's Vital Signs, *Scientific American*, 282(4), 92.

King, M. D., S. Platnick, G. Wind, G. T. Arnold, S. A. Ackerman, and R. Frey (2007), Remote Sensing of the Radiative and Microphysical Properties of Clouds during TC4: Results from MAS, MASTER, MODIS, and MISR, 2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007, 88(52,; Suppl. Volume 1-2).

King, M. D., S. Platnick, G. Wind, G. T. Arnold, and R. T. Dominguez (2010), Remote sensing of radiative and microphysical properties of clouds during TC4: Results from MAS, MASTER, MODIS, and MISR, *Journal of Geophysical Research-Atmospheres*, 115(Journal Article), D00J07-D00J07.

Kirimoto, K., Y. Kawahara, and O. Sumitoshi Environmental Observations of Ariake Bay by ASTER and SAR images, Japan, 2002.

Kirkland, L. E., K. C. Herr, and P. M. Adams (2007), Straightforward results from a Mars analog site (Alunite, Nevada); learning to combine near- and thermal-infrared spectral interpretations for Mars, *Thirty-eighth lunar and planetary science conference, Houston, TX, United States, March 11-16, 2007*, 38(Abstract), @Abstract 2232.

Kishino, M. (1995), Application of ASTER Data to Oceanography, Limnology and Sea Ice, *Journal of Remote Sensing Society of Japan*, 15, NO.2(Journal Article), PAGE.164-169.

Kishino, M., A. Tanaka, and J. Ishizaka (2005), Retrieval of Chlorophyll a, suspended solids, and colored dissolved organic matter in Tokyo Bay using ASTER data, *Scientific Results from ASTER*, 99(1-2), 66-74.

Kiyota, H., M. Kobayashi, H. Akao, and K. Kawajiri Long life spaceborne cryocooler for ASTER/SWIR (Advanced Spaceborne Thermal Emission and Reflection Radiometer Short Wavelength Infrared Radiometer), paper presented at Infrared spaceborne remote sensing II; Proceedings of the Conference, San Diego, CA; UNITED STATES; 27-29 July 1994, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, 1994.

Klaassen, A. L., and C. K. Gacke (2004), Access to Land Data Products Through the Land Processes DAAC, *AGU Fall Meeting Abstracts*, 23(Abstract), 0046.

Klein, A. G., and J. L. Kincaid Glacier retreat in the Tres Cruces region of Bolivia from 1975 to present, paper presented at Association of American Geographers 2009 annual meeting, Las Vegas, NV, United States, March 22-27, 2009, Association of

American Geographers, Washington, DC, United States (USA), United States (USA), 2009.

Kneubuhler, M., M. Schaepman, and K. Thome Long-term vicarious calibration efforts of MERIS at railroad valley playa (NV) - An update, paper presented at 2nd Working Meeting on MERIS and AATSR Calibration and Geophysical Validation, MAVT-2006, Mar 20-24 2006, European Space Agency, Noordwijk, 2200 AG, Netherlands, Frascati, Italy, 2006.

Knudson, A. T. (2006), Dirty rocks: Thermal infrared studies of dusty, sandy, or coated soils and rocks on Mars and Earth, 262-6263 pp, Arizona State University; 0010 Advisor: Adviser Philip R. Christensen.

Knudson, A. T., and P. R. Christensen (2001), Thermal Infrared Multispectral Analysis of Mafic Volcanic Rocks Near Gila Bend, Arizona, *AGU Fall Meeting Abstracts*, 52(Abstract), 0583.

Knudson, A. T., and P. R. Christensen (2001), Thermal infrared multispectral analysis of mafic volcanic rocks near Gila Bend, Arizona, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 432.

Knudson, A. T., and P. R. Christensen (2002), Multispectral thermal infrared analysis of mafic volcanic rocks near Gila Bend, Arizona; Geological Society of America, 2002 annual meeting, *Geological Society of America, 2002 annual meeting, Denver, CO, United States, Oct. 27-30, 2002*, 34(6), 550-551.

Kobayashi, C., Y. Orihashi, D. Hiarata, J. A. Naranjo, M. Kobayashi, and R. Anma (2010), Compositional variations revealed by ASTER image analysis of the Viedma Volcano, southern Andes Volcanic Zone, *Revista Geológica de Chile*, 37(2), 433-441.

Kobayashi, H. Examination of geometric correction about ASTER, IKONOS and Quick Bird images, paper presented at 114th The Japanese Forestry Society Congress, The Japanese Forestry Society Congress Database, 2003.

Kobayashi, H., A. Ninomiya, Y. Mizuochi, K. Ueda, A. Chiba, and K. Okada (2004), Study on the site assessment for the geological sequestration of the atmospheric carbon dioxide related to ultramafic rocks using ASTER data; Abstracts from the 110th symposium of Society of Exploration Geophysicists of Japan, *110th symposium of Society of Exploration Geophysicists of Japan, Tokyo, Japan, May 25, 2004*, 57(4), 415.

Kobayashi, Y., and Y. Yasuoka Evaluation of Economic Effect of Evergreen Forest and Deciduous Forest in the South Western Area of Tokyo, paper presented at JILA Annual Scientific Research Meeting, Japanese Institute of Landscape Architecture, 2008.

Kobayashi, Y., and Y. Yasuoka (2007), Environmental Valuation of forest in the South Western Area of Tokyo Using Potential Model, *Journal of the City Planning Institute of Japan*, 42(Journal Article), 76-76.

Koboltschig, G., H. Holzmann, W. Schoener, and M. Zappa Potential of a water balance model with high temporal resolution for the distributed modelling of ice- and snowmelt processes at high elevated sites; Proceedings of the 63rd annual eastern snow conference, paper presented at 63rd eastern snow conference, Newark, DE, United States, June 7-9, 2006, United States (USA), 2006.

Koboltschnig, G., H. Holzmann, C. Kroisleitner, W. Schoener, and M. Zappa (2007), Snow- and icemelt contribution of Alpine catchments on different spatial scales: the transferability of model parameters, *9th European Geosciences Union General Assembly, Vienna (Austria), 15-20 Apr 2007*(Abstract).

Koch, M., J. Inzana, and F. El-Baz (2005), Applications of Hyperion hyperspectral and ASTER multispectral data in characterizing vegetation for water resources studies in arid lands; Geological Society of America, 2005 annual meeting, *Geological Society of America, 2005 annual meeting, Salt Lake City, UT, United States, Oct. 16-19, 2005*, 37(7), 107.

Kodama, S., A. Iwasaki, R. Nakamura, and Y. Yamaguchi Reflectance of the lunar surface inferred from ASTER lunar imagery, 2006.

Kodama, S., R. Nakamura, N. Yamamoto, H. Yamamoto, K. Iwao, M. Matsuoka, S. Tsuchida, and S. Sekiguchi (2007), Global Earth Observatory Grid (GEO Grid); development of an IT infrastructure for the earth science using satellite dataRep., 36-37 pp, U. S. Geological Survey, Reston, VA, United States (USA).

Kodama, S., I. Takeda, and Y. Yamaguchi (2010), Mapping of hydrothermally altered rocks using the Modified Spectral Angle Mapper (MSAM) method and ASTER SWIR data, *International Journal of Geoinformatics*, 6(1), 41-53.

Kodama, S., H. Yamamoto, N. Yamamoto, A. Kamei, R. Nakamura, K. Iwao, and S. Tsuchida Aster Digital Elevation Model and orthorectified images generated on the GEO Grid, paper presented at 2010 30th IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Kohiyama, M., and F. Yamazaki (2005), Image fluctuation model for damage detection using middle-resolution satellite imagery, *International Journal of Remote Sensing*, 26(24), 5603-5627.

Koizumi, K., Y. Ueno, C. Tanimoto, C. Piao, Z. Li, X. Wang, and Q. Guo Estimation of moisture movement in the ground around the Dunhuang Mogao Grottoes by satellite remote sensing, paper presented at -Canada Rock Mechanics Symposium 2008, June 29, 2008 - July 2, Omnipress, San Francisco, CA, United states, 2008.

Komatsu, T. Recent changes of landforms on and around debris-covered glaciers in the Sagarmatha (Everest) region, Khumbu Himal, paper presented at Annual Meeting

of the Association of Japanese Geographers, Spring 2006, Association of Japanese Geographers, 2006.

Komiya, T., H. Nakayama, and T. Shimaoka (2006), APPLICABLITY OF NDVI ON ESTIMATE OF STABILIZATION OF LARGE-SCALE LANDFILL, *Environmental Systems Research*, 34(Journal Article), 423-431.

Kopackova, V., M. Rajchl, D. Nyvlt, J. Sebesta, T. Hroch, and J. Vit (2008), Detection of changes in the Chira and Piura lower-catchment's areas, Sechura Desert, Peru, based on spatial and spectral analyses of multitemporal Earth observation data, 33rd international geological congress, Oslo, NOR, Norway, Aug. 6-14, 2008, 33(Abstract), @Abstract 1343281.

Kopackova, V., S. Shevrel, A. Bourguignon, and M. Rajchl (2008), Spectral mineral mapping utilizing high altitude and ground-based spectroradiometry; case studies from Sokolov open-pit mine, Czech Republic, and Sechura desert, Peru, 33rd international geological congress, Oslo, NOR, Norway, Aug. 6-14, 2008, 33(Abstract), @Abstract 1343337.

Korona, J., E. Berthier, M. Bernard, F. Remy, and E. Thouvenot (2009), SPIRIT. SPOT 5 stereoscopic survey of Polar Ice: Reference Images and Topographies during the fourth International Polar Year (2007-2009), *ISPRS Journal of Photogrammetry and Remote Sensing*, 64(2), 204-212.

Kotarba, A. Z. (2010), Estimation of fractional cloud cover for Moderate Resolution Imaging Spectroradiometer/Terra cloud mask classes with high-resolution over ocean ASTER observations, *Journal of Geophysical Research-Atmospheres*, 115(Journal Article), D22210-D22210.

Kotlyakov, V. M., A. M. Dyakova, V. S. Koryakin, V. I. Kravtsova, G. B. Osipova, G. M. Varnakova, V. N. Vinogradov, O. N. Vinogradov, and N. M. Zverkova (2010), Glaciers of the former Soviet UnionRep. 9781411326095, F1-F125 pp, U. S. Geological Survey, Reston, VA, United States (USA).

Kotlyakov, V. M., and G. A. Nosenko (2001), Khod rabot po proyektu GLIMS v Moskovskom regional'nom tsentre obrabotki dannykh (RC 16). Course of operations under GLIMS project in Moscow Regional Data-Processing Centre (RC 16), *Materialy Glyatsiologicheskikh Issledovanii*, 91(Journal Article), 254-260.

Kotlyakov, V. M., and G. A. Nosenko (2001), O mezhunarodnom proyekte "Global'nyy monitoring lednikov iz kosmosa" i Moskovskom regional'nom tsentre obrabotki dannykh. International program "Global monitoring of glaciers from space" and Moscow Regional Data-Processing Center, *Materialy Glyatsiologicheskikh Issledovanii*, 91(Journal Article), 121-124.

Kotlyakov, V. M., G. A. Nosenko, G. B. Osipova, A. S. Khomidov, and D. G. Tsvetkov (2008), Kosmicheskiy monitoring podvizhki lednika Geograficheskogo Obshchestva na

Pamire. Satellite monitoring of the Geographical Society's Glacier movements in the Pamirs, *Materialy Glyatsiologicheskikh Issledovaniy*, 105(Journal Article), 145-148.

Kotlyakov, V. M., G. B. Osipova, and D. G. Tsvetkov (2010), Glaciers of the former Soviet Union; investigations of the fluctuations of surge-type glaciers in the Pamirs based on observations from space modifiedRep. 9781411326095, F77-F93 pp, U. S. Geological Survey, Reston, VA, United States (USA).

Kouchi, K. i., and F. Yamazaki (2007), Characteristics of tsunami-affected areas in moderate-resolution satellite images, *IEEE Transactions on Geoscience and Remote Sensing*, 45(6), 1650-1657.

Kouli, M., C. Loupasakis, P. Soupios, and F. Vallianatos (2010), Landslide hazard zonation in high risk areas of Rethymno Prefecture, Crete Island, Greece, *Natural Hazards*, 52(3), 599-621.

Kourtzi, N., I. Shepherd, G. Schwartz, and P. Pavlakis (2001), Integrating spaceborne SAR imagery into operational systems for fisheries monitoring, *Canadian Journal of Remote Sensing*, 27(4), 291-305.

Kratt, C., W. M. Calvin, and M. F. Coolbaugh (2010), Mineral mapping in the Pyramid Lake basin: Hydrothermal alteration, chemical precipitates and geothermal energy potential, *Remote Sensing of Environment*, 114(10), 2297-2304.

Kratt, C., M. Coolbaugh, and W. Calvin Remote detection of quaternary borate deposits with ASTER satellite imagery as a geothermal exploration tool, paper presented at GRC 2006 Annual Meeting: Geothermal Resources-Securing Our Energy Future, Geothermal Resources Council, Davis, CA 95617-1350, United States, San Diego, CA, United States, 2006.

Kratt, C., M. Coolbaugh, and W. Calvin Possible extension of Brady's fault identified using remote mapping techniques, paper presented at International Collaboration for Geothermal Energy in the Americas - Geothermal Resources Council: 2003 Annual Meeting, Oct 12-15 2003, Geothermal Resources Council, Davis, United States, Morelia, Michoacan, Mexico, 2003.

Kratt, C. B. (2005), Geothermal exploration with remote sensing from 0.45--2.5 mum over Brady-Desert Peak, Churchill County, Nevada, 110-282 pp, University of Nevada, Reno; 0139 Advisor: Adviser Wendy Calvin.

Kraus, C. Generacion de mapa geologico detallado de peninsula Antartica con metodos de sensores remotos. Detailed geological mapping of the Antarctic Peninsula using remote sensing methods, paper presented at II simposio latinoamericano de investigaciones antarticas; VI reunion chilena de investigacion antartica, Concepcion, Chile, Aug. 16-18, 2006, International (III), 2006.

Kraus, C. (2007), Generation of a detailed geological map of the Antarctic Peninsula applying remote sensing methods; Antarctica; a keystone in a changing world; online proceedings for the Tenth international symposium on Antarctic earth sciences *Rep. 0196-1497*, @Extended Abstract 189 pp, U. S. Geological Survey, Reston, VA, United States (USA), United States (USA).

Kraus, T., M. Schmidt, S. W. Dech, and C. Samimi (2009), The potential of optical high resolution data for the assessment of leaf area index in East African rainforest ecosystems, *International Journal of Remote Sensing*, 30(19), 5039-5059.

Kropaacek, J., and V. Hochschild Parametrization of integrated hydrological model of Nam Co lake catchment on Tibetan Plateau using synergy of SAR and optical data, paper presented at Geoscience and Remote Sensing Symposium, 2009 IEEE International, IGARSS 2009, IEEE, 2009.

Kruse, F. A. Geologic remote sensing; new technology, new information, paper presented at International space year; space remote sensing; 12th annual international geoscience and remote sensing symposium, Houston, TX, United States, May 26-29, 1992, Institute of Electrical and Electronics Engineers, New York, NY, United States (USA), United States (USA), 1992.

Kruse, F. A. Improving multispectral mapping by spectral modeling with hyperspectral signatures, paper presented at Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery XIII, SPIE, Bellingham WA, WA 98227-0010, United States, Orlando, FL, United States, 2007.

Kruse, F. A. (1999), Visible-infrared sensors and case studies, in *Remote sensing for the earth sciences*, edited by A. N. Rencz and R. A. Ryerson, John Wiley & Sons, New York, NY, United States (USA), United States (USA).

Kruse, F. A. (2005), ASTER Multispectral Mapping Improvements Through Integration and Spectral-Spatial Scaling of HSI Data; Monthly Report December 2005, edited, p. 87, Horizon Geolmaging LLC, Boulder, CO.

Kruse, F. A. (2005), ASTER Multispectral Mapping Improvements Through Integration and Spectral-Spatial Scaling of HSI Data; Monthly Report, November 2005, edited, pp. 1-18, Horizon Geolmaging LLC, Boulder, CO.

Kruse, F. A., and E. LeDrew Combined SWIR and LWIR mineral mapping using MASTER/ASTER, paper presented at Remote sensing; integrating our view of the planet; Internatioanl Geoscience and Remote Sensing Symnposium (IGARSS); 24th Canadian symposium on Remote sensing, Toronto, ON, Canada, June 24-28, 2002, Institute of Electrical and Electronics Engineers, New York, NY, United States (USA), United States (USA), 2002.

Kruse, F. A., and S. L. Perry Regional mineral mapping by extending hyperspectral signatures using multispectral data, paper presented at 2007 IEEE Aerospace

Conference, Institute of Electrical and Electronics Engineers Computer Society, Piscataway, NJ 08855-1331, United States, Big Sky, MT, United States, 2007.

Kruse, F. A., and S. L. Perry (2009), Improving multispectral mapping by spectral modeling with hyperspectral signatures, *Journal of Applied Remote Sensing*, 3(Journal Article), 033504-033504.

Ku, J., D. Butler, L. Ottenstein, T. Swanson, and A. Fitzkee CPL Applications on the EOS-TERRA Spacecraft, paper presented at Two-Phase Thermal Control Technology; 6-7 Jul. 2000; Noordwijk; Netherlands, European Space Agency. European Space Research and Technology Center, ESTEC; Noordwijk, Netherlands, 2000.

Kudo, M., and K. Hideaki (1994), Summary of EOS ASTER, *IEIC Technical Report (Institute of Electronics, Information and Communication Engineers*, 93,NO.484(SANE93 89-100)(Journal Article), PAGE.75-80.

Kudo, M., K. Hideaki, K. Ogikubo, Y. Narimatsu, F. Takahashi, I. Mase, A. Watanabe, and T. Shigeru Preliminary Design of ASTER, Japan, 1993.

Kudo, M., K. Masakuni, F. Takahashi, and O. Kazuhiro Development Status of EOS -AM1/ ASTER System, Japan, 1996.

Kudo, M., N. Ogi, T. Sato, and F. Mitsuru (2003), Heritage of ASTER Instrument On Orbit Performance, *IEIC Technical Report (Institute of Electronics, Information and Communication Engineers*, 103,NO.156(SANE2003 23-36)(Journal Article), PAGE.55-60.

Kudoh, M., N. Ohgi, T. Sato, and F. M. Heritage of ASTER Instrument On Orbit Performance, Japan, 2004.

Kuenzer, C., C. Hecker, J. Zhang, S. Wessling, and W. Wagner (2008), The potential of multiurnal MODIS thermal band data for coal fire detection, *International Journal of Remote Sensing*, 29(3), 923-944.

Kuenzer, C., J. Zhang, J. Li, S. Voigt, H. Mehl, and W. Wagner (2007), Detecting unknown coal fires: Synergy of automated coal fire risk area delineation and improved thermal anomaly extraction, *International Journal of Remote Sensing*, 28(20), 4561-4585.

Kuhn, S. S. (2003), Characterization of dome processes at Soufriere Hills Volcano, Montserrat; synthesis of infrared remote sensing data with a multi-parameter database, University of Pittsburgh, Pittsburgh, PA, United States (USA), United States (USA).

Kuhn, S. S., and M. Ramsey (2002), Monitoring the surface changes and growth of the Soufriere Hills lava dome; thermal infrared analyses of field and spaceborne data; AGU 2002 fall meeting, *American Geophysical Union 2002 fall meeting, San Francisco, CA, United States, Dec. 6-10, 2002*, 83(47), 1474.

Kumar, A., V. K. Dadhwal, and S. K. Ghosh Study of sub-pixel classification algorithms for high dimensionality data set, paper presented at 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Denver, CO, United States, 2006.

Kumar, M., G. Bhatt, P. Beeson, and C. Duffy (2006), Automated Detection and Spatio-Temporal Classification of Channel Reaches in Semi-arid Southwestern US Using ASTER, *2006 AGU Joint Assembly, Baltimore, Maryland (USA), 23-26 May 2006*(Abstract).

Kumpula, T., B. C. Forbes, and F. Stammler (2010), Remote Sensing and Local Knowledge of Hydrocarbon Exploitation: The Case of Bovanenkovo, Yamal Peninsula, West Siberia, Russia, *Arctic*, 63(2), 165-178.

Kunte, P. D., J. T. S. Sumantyo, and L. A. Bayuaji Relationship between radar response and geomorphic characteristics of the Gulf of Khambat, west coast, India, 2006.

Kuo, Y., F. Ayoub, J. Avouac, S. Leprince, Y. Chen, and J. H. Shyu (2005), Co-seismic horizontal ground slips of 1999 Chi-chi earthquake (Mw 7.6) deduced from image-comparison of satellite SPOT and aerial photos, *American Geophysical Union 2005 fall meeting, San Francisco, CA, United States, Dec. 5-9, 2005*, 86(52, Suppl.), @Abstract T41B-1301.

Kurczyn Robledo, J. A., T. Kretzschmar, and A. Hinojosa Corona (2006), Evaluacion del escurrimiento superficial en el noreste del valle de Guadalupe, B. C., Mexico, usando el metodo de curvas numeradas y datos de satelite. Runoff evaluation in northeastern Guadalupe Valley, Baja California, Mexico, utilizing the breakthrough curve method and satellite data, *Revista Mexicana de Ciencias Geologicas*, 24(1), 1-14.

Kurczyn-Robledo, J. A., T. Kretzschmar, and A. Hinojosa-Corona (2006), Surface runoff evaluation in the northeastern Valle de Guadalupe, B. C., Mexico, using the curve number method and satellite data, *Revista Mexicana De Ciencias Geologicas*, 24(1), 1-14.

Kuroki, T., N. Iso, and K. Goto Classification of NDVI change and related landform of Unzen volcano, paper presented at Proceedings of the General Meeting of the Association of Japanese Geographers, Association of Japanese Geographers, 2008.

Kurucu, Y., and N. K. Chiristina (2008), Monitoring the impacts of urbanization and industrialization on the agricultural land and environment of the Torbali, Izmir region, Turkey, *Environmental monitoring and assessment*, 136(1-3), 289-297.

Kuscu, I., N. Kaymakci, and M. L. Suzen (2005), Demiroksit-bakir altın (DOBA) tipi yatakclarin uzaktan algilama yontemleriyle haritalanmasi; Hasancelebi-Hekimhan

(Malatya) ornegi--Mapping of ironoxide-copper-gold (IOCG) type mineral occurrences using remote sensing; Hasancelebi-Hekimhan (Malatya) as a case study, *58. Turkiye jeoloji kurultayi--58th geological congress of Turkey, Ankara, Turkey, April 11-17, 2005*, 58(Abstract), 219-220.

Kushida, K. (2010), Detection of Active Wildland Fires Using Multitemporal MODIS Images, *Ieee Geoscience and Remote Sensing Letters*, 7(2), 301-305.

Kustas, W. P., and J. M. Norman (2000), Evaluating the effects of subpixel heterogeneity on pixel average fluxes (in satellite remote sensor data), *UNITED STATES*, 74(3), 327-342.

Kustas, W. P., J. H. Prueger, K. S. Humes, and P. J. Starks (1999), Estimation of surface heat fluxes at field scale using surface layer versus mixed-layer atmospheric variables with radiometric temperature observations, *Journal of Applied Meteorology*, 38(2), 224-238.

Kusumi, H., H. Watanabe, and Y. Morimoto (2007), Analytical evaluation of slope failure location using ASTER image data, *Zairyo/Journal of the Society of Materials Science, Japan*, 56(9), 833-838.

Kutuzov, S. (2007), The recent climate change and glaciers retreat in the Tien Shan mountains, Central Asia, *9th European Geosciences Union General Assembly, Vienna (Austria)*, 15-20 Apr 2007(Abstract).

Kutuzov, S., and M. Shahgedanova (2009), Glacier retreat and climatic variability in the eastern Terskey-Alatao, inner Tien Shan between the middle of the 19th century and beginning of the 21st century, *Global and Planetary Change*, 69(1-2), 59-70.

Kuwahara, Y., T. Kimura, T. Koyanagi, and A. Okamoto (2004), Estimation of Time Series Change on Surficial Distribution of Green Tracts of Land: Vicinity of Mito City, Ibaraki Prefecture, *Papers on Environmental Information Science*, No.18(The 18th Conference on Environmental Information Science), 18(SPACE), 131-136.

Kwarteng, A., P. Homewood, and M. Mettraux Remote sensing of the modern carbonate system of the Bar Al Hikman Peninsula, Oman, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Kyakuno, T. (2008), Quantitative Representation of Distribution and Mixture of Urban Land Use Through Spatial Autocorrelation and Information Entropy, *Journal of Asian Architecture and Building Engineering*, 7(2), 427-434.

Kyriacos, T., H. G. Diofantos, A. Retalis, and N. Chrysoulakis Accuracy assessment of atmospheric correction algorithms using sunphotometers (AERONET), LIDAR system

and in-situ spectroradiometers, paper presented at Remote Sensing of Clouds and the Atmosphere XV, September 21, 2010 - September 23, SPIE, Bellingham, WA, 2010.

Laake, A., and M. Insley (2004), Using satellite imagery aids seismic surveys in planning, acquisition and processing, *World Oil*, 225(9), 27-33.

Lai, K., Y. Chen, L. Chung, P. Li, and D. Lam (2006), Quaternary basin formation along the Dien Bien Phu fault zone and its neotectonic implication of northwestern Vietnam, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Lai, K., Y. Chen, and D. Lam (2007), Implications of river morphology response to Dien Bien Phu Fault in NW Vietnam, *American Geophysical Union 2007 fall meeting, San Francisco, CA, United States, Dec. 10-14, 2007*, 88(52, Suppl.), @Abstract T31G-05.

Lai, K.-Y., Y.-G. Chen, L.-H. Chung, and D. D. Lam (2006), Active tectonics and Quaternary basin formation along the Dien Bien Phu fault zone, northwestern Vietnam, *EOS Transactions, American Geophysical Union*, 87(Abstract).

Lambros, S. (2002), Technical Support for EOS ASTER Instrument, edited, Futron Corp.; Bethesda, MD.

Lammoglia, T., C. R. Souza Filho, and R. Almeida Filho Deteccao de microexsudacoes de hidrocarbonetos na bacia do Tucano Norte (BA) por sensoriamento remoto orbital e modelagem espacial. Detection of hydrocarbon microseeps in the Tucano Norte Subbasin (Bahia), from orbital remote sensing and space modelling, paper presented at Sociedade Brasileira de Geologia; 44 degrees congresso, Curitiba, Brazil, Oct. 26-31, 2008/ Geological Society of Brazil; annals of the 44th congress, Sociedade Brasileira de Geologia, Porto Alegre, Brazil (BRA), Brazil (BRA), 2008.

Lampkin, D. J. (2005), Optical remote sensing for monitoring evolution of ablation season mountain snow cover, 232-710 pp, The University of Arizona; 0009 Advisor: Adviser Stephen R. Yool.

Lampkin, D. J., and S. R. Yool (2004), Monitoring mountain snowpack evolution using near-surface optical and thermal properties, *Eastern Snow Conference/Western Snow Conference*, 18(18), 3527-3542.

Laneve, G., M. M. Castronuovo, and E. G. Cadau Assessment of the fire detection limit using SEVIRJ/MSG sensor, paper presented at 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Denver, CO, United States, 2006.

Laneve, G., B. Hirn, C. Di Bartola, and F. Ferrucci Maximizing the detection and mapping of minimal area burn scars with a multi-payload multi-method automated approach: Application to summer fire seasons in Italy, paper presented at 2010 30th IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July

25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Lang, H. (1999), ASTER Digital Elevation Models [Algorithm Theoretical Basis Document for:] Version 3.0Rep., 1-73 pp, Jet Propulsion Lab., California Inst. of Tech.; Pasadena, CA.

Lang, H. R., R. Welch, Y. Miyazaki, B. Bailey, and G. Kelly The ASTER along-track stereo experiment - A potential source of global DEM data in the late 1990's, paper presented at Infrared spaceborne remote sensing IV; Proceedings of the Conference, Denver, CO; UNITED STATES; 6-7 Aug. 1996, Society of Photo-Optical Instrumentation Engineers, WA, 1996.

Lang, N. P., and M. G. Abdelsalam (2002), Geologic mapping in arid regions with ASTER data; an example from NW Arizona; Geological Society of America, South-Central Section, 36th annual meeting, *Geological Society of America, South-Central Section, 36th annual meeting, Alpine, TX, United States, Apr. 11-12, 2002*, 34(3), 4.

Langenberg, H. (2009), News & Views: Cartography: Terra cognita, *Nature Geoscience*, 2(9), 542-542.

Lapazaran, J., M. Petlicki, F. J. Navarro, F. Macho, and P. Glowacki Radio-echo sounding and ice volume changes of Ariebreen, Hornsund, Spitsbergen, paper presented at Earth: Our Changing Planet. Proceedings of IUGG XXIV general assembly, Perugia, ITA, Italy, July 2-13, 2007, IUGG, [location varies], International (III), International (III), 2007.

Larsen, I. J., and D. R. Montgomery (2009), Does landslide erosion keep pace with exhumation of the Tsangpo Gorge?, *Geological Society of America, 2009 annual meeting, Portland, OR, USA, United States, Oct. 18-21, 2009*, 41(7), 300.

Lasaponara, R., and A. Lanorte (2007), Remotely sensed characterization of forest fuel types by using satellite ASTER data, *International Journal of Applied Earth Observation and Geoinformation*, 9(3), 225-234.

Lasaponara, R., and A. Lanorte (2007), Remotely sensed characterization of forest fuel types by using satellite ASTER data, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 9; 88(52, Suppl. Volume 1-2), 225-234.

Lasher-Trapp, S., and J. P. Stachnik (2007), Giant and ultragiant aerosol particle variability over the eastern Great Lakes region, *Journal of Applied Meteorology and Climatology*, 46(5), 651-659.

Laukamp, C. (2008), Validation of spectral techniques for exploration in the Mt Isa TerraneRep., 89-94 pp, Predictive Mineral Discovery Cooperative Research Centre

(pmd\*CRC), University of Melbourne, School of Earth Sciences, Melbourne, Victoria, Australia (AUS).

Laukamp, C., J. S. Cleverley, T. Cudahy, R. Hewson, M. Jones, N. Oliver, and M. Thomas (2008), Validation of spectral remote sensing data for geological mapping and detection of hydrothermal footprints in the Mount Isa Inlier (final report and database) *Rep.*, 1-61 pp, Predictive Mineral Discovery Cooperative Research Centre (pmd\*CRC), University of Melbourne, School of Earth Sciences, Melbourne, Victoria, Australia (AUS).

Lavrent'yev, I. I. (2008), Izmeneniya strukturny i dinamiki lednika Frit'of na shpitsbergene za posledniye 70 let po dannym distantsionnykh issledovaniy. Structural change and dynamics of the Fritjof Glacier in Svalbard during the last 70 years from remote sensing data, *Vestnik Moskovskogo Universiteta, Seriya 5: Geografiya*, 2008(6), 45-50.

Lawrie, K., C. Pain, S. Rogers, and R. Creswell (2008), Geoscience; a critical component underpinning evidence-based decision making in natural resource management, *33rd international geological congress, Oslo, NOR, Norway, Aug. 6-14, 2008*, 33(Abstract), Abstract 1340006.

Leach, J. (2009), Geomorphic mapping of shallow marine sanctuary areas; a case study from Rickett's Point, *7th international conference on Geomorphology, Melbourne, Victoria, Australia, July 6-11, 2009*, 7(Abstract), @Abstract no. 698.

Lee, J.-D., and J.-S. Park Combining Digital Topographic Maps for DEM Extraction from ASTER Stereo Imagery, 2006.

Lee, R. B., III, et al. (1998), Prelaunch calibrations of the Clouds and the Earth's Radiant Energy System (CERES) Tropical Rainfall Measuring Mission and Earth Observing System morning (EOS-AM1) spacecraft thermistor bolometer sensors, *IEEE Transactions on Geoscience and Remote Sensing*, 36(4), 1173-1185.

Lee, S., S. Kang, J. Kim, and D. Lee (2006), Estimating temporal pattern of surface soil moisture content in Gwangneung forest using MODIS data, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Leff, C. (2000), ASTER Level 1 Data Products Specification (GDS Version), edited.

Leibee, J. One size fits all [scientific achievements of TERRA satellite], paper presented at Sensors, Systems, and Next-Generation Satellites IV, 25-28 Sept. 2000, SPIE-Int. Soc. Opt. Eng, Barcelona, Spain, 2001.

Lein, J. K. (2004), Assessing the applicability of satellite imagery for environmental monitoring and regulatory compliance assessment, *International Journal of Environmental Technology and Management*, 4(1-2), 157-173.

Leipard, D. L., and J. C. Hickey (2004), Using remote sensing to determine the environmental impact of volcanic extrusive products at Arenal Volcano and Poas Volcano, Costa Rica; Geological Society of America, 2004 annual meeting, *Geological Society of America, 2004 annual meeting, Denver, CO, United States, Nov. 7-10, 2004*, 36(5), 78.

Lenzano, M. G., J. C. Leiva, and L. E. Lenzano (2010), Recent variation of the Las Vacas Glacier Mt. Aconcagua region, Central Andes, Argentina, based on ASTER stereoscopic images, *Advances in Geosciences*, 22(Journal Article), 185-189.

Leprince, S., F. Ayoub, Y. Klinger, and J.-P. Avouac Co-Registration of Optically Sensed Images and Correlation (COSI-Corr): An operational methodology for ground deformation measurements, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Leprince, S., E. Berthier, F. Ayoub, C. Delacourt, and J. Avouac (2007), Monitoring Earth Surface Dynamics With Optical Imagery, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 88(52,; Suppl. Volume 1-2).

Levin, N., E. Ben-Dor, and A. Karnieli (2004), Topographic information of sand dunes as extracted from shading effects using Landsat images, *Remote Sensing of Environment*, 90(2), 190-209.

Levin, N., A. Shmida, O. Levanoni, H. Tamari, and S. Kark (2007), Predicting mountain plant richness and rarity from space using satellite-derived vegetation indices, *Diversity and Distributions*, 13(6), 692-703.

Levine, N. S., and B. C. Doyle (2005), GSI; geospatial investigations; an interdisciplinary NASA workforce development program; Geological Society of America, 2005 annual meeting, *Geological Society of America, 2005 annual meeting, Salt Lake City, UT, United States, Oct. 16-19, 2005*, 37(7), 157.

Levine, N. S., and C. C. Kaufman (2008), Land Use, Erosion, and Habitat Mapping on an Atlantic Barrier Island, Sullivan's Island, South Carolina, *Journal of Maps*(Journal Article), 161-174.

Lewis, D., H. Yao, J. Fridgen, and R. Kincaid Investigation on the potential of using ASTER image for corn plant residue coverage estimation in three Indiana counties, paper presented at 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Denver, CO, United States, 2006.

Lewis, D., H. Yao, and R. Kincaid (2006), Crop Residue Coverage Estimation Using ASTER Imagery, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

- Li, B. L., A. X. Zhu, C. H. Zhou, Y. H. Zhang, T. Pei, and C. Z. Qin (2008), Automatic mapping of snow cover depletion curves using optical remote sensing data under conditions of frequent cloud cover and temporary snow, *Hydrological Processes*, 22(16), 2930-2942.
- Li, C., and J. Sha (2006), Knowledge Based Self-Organizing Neural Network Remote Sensing Image Classification Approach, *Remote sensing Technology and Application*, 21(6), 507-511.
- Li, C., and A. Shaban (2006), Knowledge Based Bayes Image Classification Approachâ€”Land Cover, *Research of Soil and Water Conservation*, 13(6), 126-128.
- Li, C.-H., H.-Q. Xu, and L.-C. Chen (2010), Cross-comparison between ASTER and landsat-7 ETM+ multispectral imagery, *Spectroscopy and Spectral Analysis/Guang Pu Xue Yu Guang Pu Fen Xi*, 30(9), 2518-2524.
- Li, F., M. C. Anderson, W. P. Kustas, R. L. Scott, and J. H. Prueger Utility of Satellite Thermal Remote Sensing for Mapping Riparian and Upland Desert Water Use, 2006.
- Li, F., M. C. Anderson, W. P. Kustas, R. L. Scott, and J. H. Prueger Utility of Satellite Thermal Remote Sensing for Mapping Riparian and Upland Desert Water Use, 2006.
- Li, F., T. J. Jackson, W. P. Kustas, T. J. Schmugge, A. N. French, M. H. Cosh, and R. Bindlish (2004), Deriving land surface temperature from Landsat 5 and 7 during SMEX02/SMACEX, *Remote Sensing of Environment*, 92(4), 521-534.
- Li, F. Q., W. P. Kustas, M. C. Anderson, J. H. Prueger, and R. L. Scott (2008), Effect of remote sensing spatial resolution on interpreting tower-based flux observations, *Remote Sensing of Environment*, 112(2), 337-349.
- Li, H., J. Chen, and M. Yu (2005), Extracting Vegetation Coverage Information from ASTER Remote Sensing Data Based on Linear Spectral Immixture Model, *Geo-information Science*, 7(1), 103-115.
- Li, H., Q.-Z. Lin, Q.-J. Wang, Q.-J. Liu, and Y. Chen (2010), A novel hyperspectra absorption enhancing method based on morphological top-hat transformation, *Spectroscopy and Spectral Analysis/Guang Pu Xue Yu Guang Pu Fen Xi*, 30(9), 2433-2437.
- Li, H., and Q. Tian (2004), An Introduction to ASTER Data and ASTER Mission, *Remote Sensing Information*, 0(3), 53-47.
- Li, H.-T., W.-P. Li, and X.-M. Li (2006), Application of ASTER image to soil salinization assessment, *Hydrogeology and Engineering Geology / Shiwen Dizhi Gongcheng Dizhi*, 33(5), 75-79.

Li, J., X. Li, and J. Chen The Study of Object-Oriented Classification Method of Remote Sensing Image, paper presented at 2009 First International Conference on Information Science and Engineering (ICISE 2009), IEEE Computer Society, 2009.

Li, M., Y. Tan, and S. Peng (2006), A Study on Modeling Poplar Stands Parameters Based on ASTER Remote Sensed Datasets, *Journal of Nanjing Forestry University.Natural Sciences Edition*, 30(5), 123-126.

Li, M., Y. Tan, S. Peng, L. Zhou, and Y. Ma (2006), Practicality Evaluation on Fusion and Feature Transform of ASTER Remotely Sensed Imagery, *Journal of Nanjing Forestry University.Natural Sciences Edition*, 30(3), 78-80.

Li, P., and W. M. Moon (2004), Land cover classification using MODIS-ASTER airborne simulator (MASTER) data and NDVI: A case study of the Kochang area, Korea, *Canadian Journal of Remote Sensing*, 30(2), 123-136.

Li, P., W. M. Moon, H.-Y. Paik, and G.-H. Choi Land cover mapping in Kochang area of Korea using MASTER (MODIS/ASTER airborne simulator) data, paper presented at 2002 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2002), Jun 24-28 2002, Institute of Electrical and Electronics Engineers Inc, Toronto, Ont., Canada, 2002.

Li, P., H. Yu, and T. Cheng (2009), Lithologic mapping using ASTER imagery and multivariate texture, *Canadian Journal of Remote Sensing*, 35(Journal Article), S117-S125.

Li, P.-j. (2004), Lithological discrimination using aster images and geostatistical texture, *Kuangwu Yanshi/Jouranl of Mineralogy and Petrology*, 24(3), 116-120.

Li, P. J., X. Y. Long, and L. Liu (2007), Ophiolite mapping using ASTER data: a case study of Derni ophiolite complex, *Acta Petrologica Sinica*, 23(5), 1175-1180.

Li, Q., C. Cheng, and S. Guo Bayesian network classification for aster data based on wavelet transformation, paper presented at International Conference on Space Information Technology, Nov 19-20 2005, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, 2005.

Li, Q., I. Sato, and Y. Murakami Steerable filter based multiscale registration method for JERS-1 SAR and ASTER images, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Li, Q., I. Sato, and F. Sakuma A novel strategy for precise geometric registration of GIS and satellite images, paper presented at 2008 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2008, IEEE, Piscataway, NJ, USA, 2008.

Li, S.-m., H. Li, D.-f. Sun, and L.-d. Zhou (2009), Estimation of Regional Leaf Area Index by Remote Sensing Inversion of PROSAIL Canopy Spectral Model, *Spectroscopy and Spectral Analysis/Guang Pu Xue Yu Guang Pu Fen Xi*, 29(10), 2725-2729.

Li, X., M. Friedl, and A. Strahler (2002), Geometric-Optical Modeling of Directional Thermal Radiance for Improvement of Land Surface Temperature Retrievals from MODIS, ASTER, and Landsat-7 InstrumentsRep., 5-5 pp, Boston Univ.; Dept. of Geography; Boston, MA.

Li, X., and D. E. Wickland (1998), Geometric-Optical Modeling of Directional Thermal Radiance for Improvement of Land Surface Temperature Retrievals from MODIS, ASTER, edited, Boston Univ.; Boston, MA.

Li, Y., W. Yang, L. Tong, J. Jian, and X. Gu (2009), Remote sensing quantitative monitoring and analysis of fuel moisture content based on spectral index, *Guangxue Xuebao/Acta Optica Sinica*, 29(5), 1403-1407.

Li, Y.-b., J.-a. Shao, H. Yang, and X.-y. Bai (2009), The relations between land use and karst rocky desertification in a typical karst area, China, *Environmental Geology*, 57(3), 621-627.

Li, Y.-X., W.-N. Yang, and L. Tong The Quantitative Inversion and Space-Time Variety Analysis of VWC Based on the Remote Sensing Spectrum, paper presented at 2008 International Workshop on Education Technology and Training & 2008 International Workshop on Geoscience and Remote Sensing, IEEE, 2008.

Li, Z., Q. Dong, X. Cheng, and F. Yan The monitoring of land-cover change in western China from remote sensing data, paper presented at 2002 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2002), Jun 24-28 2002, Institute of Electrical and Electronics Engineers Inc, Toronto, Ont., Canada, 2002.

Lia, S., H. Li, L. Zhou, and D. Sun Analysis and validation of MODIS and ASTER LAI products inverted by PROSAIL, paper presented at 2nd International Conference on Earth Observation for Global Changes, May 25, 2009 - May 29, SPIE, 2009.

Liang, S. Inversion of land surface temperature and emissivity simultaneously from multispectral thermal infrared imagery, paper presented at IGARSS 2000 - Proceedings of the IEEE 2000 National Geoscience and Remote Sensing Symposium, Honolulu, HI, July 24-28, 2000. Vol. 7 ; Piscataway, NJ, Institute of Electrical and Electronics Engineers, Inc., 2000, p. 3133-3135, Institute of Electrical and Electronics Engineers, Inc., United States, 2000.

Liang, S. (2001), An optimization algorithm for separating land surface temperature and emissivity from multispectral thermal infrared imagery, *IEEE Transactions on Geoscience and Remote Sensing*, 39(2), 264-274.

- Liang, S. (2001), Narrowband to broadband conversions of land surface albedo I algorithms, *Remote Sensing of Environment*, 76(2), 213-238.
- Liao, Z., Y. Hong, J. Wang, H. Fukuoka, K. Sassa, D. Karnawati, and F. Fathani (2010), Prototyping an experimental early warning system for rainfall-induced landslides in Indonesia using satellite remote sensing and geospatial datasets, *Landslides*, 7(3), 317-324.
- Lilly, C., and R. L. Nusbaum (2007), Satellite-based geologic mapping of the central Tibesti volcanic province, Chad, *Geological Society of America, Southeastern Section, 56th annual meeting, Savannah, GA, United States, March 29-30, 2007*, 39(2), 98.
- Lin, J.-C., and W.-H. Tsai (1994), Feature-preserving clustering of 2-D data for two-class problems using analytical formulas: an automatic and fast approach, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 16(5), 554-560.
- Lin, Y. F., Y. S. Yang, S. H. C., A. Iwashita, H. Baba, H. M. Morohoshi Toshikazu, and S. Iizuka (2003), Image interpretation of ASTER VNIR in the vicinity of Hua-Tung Longitudinal Valley, East Coast Taiwan, *Bulletin of School of Information Science Kyushu Tokai University*, NO.3-29(Journal Article), PAGE.43-49.
- Lina, X., N. Ruiqing, and Z. Xueqiang Estimating sub pixel snow cover area by a new spectral unmixing method using MODIS data and ASTER data, paper presented at MIPPR 2007: Remote Sensing and GIS Data Processing and Applications; and Innovative Multispectral Technology and Applications, SPIE, Bellingham WA, WA 98227-0010, United States, Wuhan, China, 2007.
- Ling, F., C. Wang, and Q. Zhang (2006), Filling voids in SRTM data by using the data from ASTER and spatial elevation difference interpolation, *Journal of Huazhong University of Science and Technology.Nature Science*, 34(12), 108-110.
- Ling, F., C. Wang, and Q. Zhang (2007), On SRTM and ASTER global free digital elevation models for hydrological research, *2nd International Symposium on Methodology in Hydrology, Nanjing, China*(311), 523-529.
- Lira, J. (2009), A method to derive texture-relief from ASTER bands 3N and 3B, *International Journal of Remote Sensing*, 30(23), 6329-6341.
- List, M. R., and B. P. Hausback (2003), Remote sensing evaluation of Mammoth Mountain, California; mapping spatial and temporal variations in volcanogenic CO (sub 2) induced tree kills; Geological Society of America, Cordilleran Section, 99th annual meeting, *Geological Society of America, Cordilleran Section, 99th annual meeting, Puerto Vallarta, Mexico, April 1-3, 2003*, 35(4), 7.
- List, M. R., B. P. Hausback, C. D. Farrar, and D. C. Pieri (2003), Remote sensing and GIS evaluation of CO (sub 2) -induced tree kills at Mammoth Mountain, California; 1989

to present; Geological Society of America, 2003 annual meeting, *Geological Society of America, 2003 annual meeting, Seattle, WA, United States, Nov. 2-5, 2003*, 35(6), 321.

Littlefield, E., and W. Calvin Remote sensing for geothermal exploration over Buffalo Valley, NV, paper presented at Geothermal Resources Council Annual Meeting 2009, Geothermal 2009, October 4, 2009 - October 7, Geothermal Resources Council, Davis, CA, 2009.

Liu, C., R. Kan, K. Hiroaki, and M. Misuo (2006), Retrieval of the Surface Reflectivity and the Aerosol Optical Thickness over Chiba Land Area from ASTER and Landsat, *Journal of Remote Sensing*, 10(5), 756-761.

Liu, C. C. (2006), Processing of FORMOSAT-2 daily revisit imagery for site surveillance, *IEEE Transactions on Geoscience and Remote Sensing*, 44(11), 3206-3214.

Liu, C.-C., A. Kamei, K.-H. Hsu, S. Tsuchida, H.-M. Huang, S. Kato, R. Nakamura, and A.-M. Wu (2010), Vicarious Calibration of the Formosat-2 Remote Sensing Instrument, *IEEE Transactions on Geoscience and Remote Sensing*, 48(4), 2162-2169.

Liu, D. S., and R. L. Pu (2008), Downscaling thermal infrared radiance for subpixel land surface temperature retrieval, *Sensors*, 8(4), 2695-2706.

Liu, G., and H. Lu Evaluation of land use classification accuracy based upon TM and CBERS-02B HR data fusion, paper presented at Multispectral, Hyperspectral, and Ultraspectral Remote Sensing Technology, Techniques, and Applications III, October 13, 2010 - October 14, SPIE, Bellingham, WA, 2010.

Liu, H. (2007), Relationships between landscape pattern and land surface temperature and their applications to the study of West Nile Virus: As case studies in cities of Indianapolis and Chicago, United States, 132-4420 pp, Indiana State University; 0094 Advisor: Adviser Qihao Weng.

Liu, H., and Q. Weng (2009), Scaling Effect on the Relationship between Landscape Pattern and Land Surface Temperature: A Case Study of Indianapolis, United States, *Photogrammetric Engineering and Remote Sensing*, 75(3), 291-304.

Liu, H., and Q. Weng (2009), An examination of the effect of landscape pattern, land surface temperature, and socioeconomic conditions on WNV dissemination in Chicago, *Environmental monitoring and assessment*, 159(1-4), 143-161.

Liu, H., and Q. H. Weng (2008), Seasonal variations in the relationship between landscape pattern and land surface temperature in Indianapolis, USA, *Environmental monitoring and assessment*, 144(1-3), 199-219.

Liu, H., L. Xu, J. Ding, B. Zhuoma, X. Deng, and Z. Liu Atmospheric correction and land surface temperature retrieval method for FY-3 IR observations, paper presented at

2010 2nd IITA Conference on Geoscience and Remote Sensing, IITA-GRS 2010, August 28, 2010 - August 31, IEEE Computer Society, Piscataway, NJ, 2010.

Liu, J., Y. Song, X. Fan, C. Huang, and Y. Shao Retrieval and correlation analysis of urban land surface temperature and vegetation fraction using ASTER data, paper presented at 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Denver, CO, United States, 2006.

Liu, J., H. Yang, Z. Yan, and H. Zhang A study on extracting the land area from the remotely sensed images and the scale-transformation method based on the histo-variogram, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Liu, J. G., P. J. Mason, N. Clerici, S. Chen, A. Davis, F. Miao, H. Deng, and L. Liang (2004), Landslide hazard assessment in the Three Gorges area of the Yangtze River using ASTER imagery; Zigui-Badong, *Geomorphology*, 61(1-2), 171-187.

Liu, J. G., P. J. Mason, N. Clerici, S. Chen, A. M. Davis, F. Miao, H. Deng, L. Liang, and D. Massonnet Landslide hazard assessment in the Three Gorges area of the Yangtze River using ASTER imagery, paper presented at 2003 IEEE international geoscience and remote sensing symposium, Toulouse, France, July 21-25, 2003; Learning from Earth's shapes and sizes, Institute of Electrical and Electronics Engineers, New York, NY, United States (USA), United States (USA), 2003.

Liu, J. L., and Y. Li The glacier extraction based on ASTER data, paper presented at 2008 International Workshop on Earth Observation and Remote Sensing Applications (EORSA), IEEE, Piscataway, NJ, 2008.

Liu, M., X. Li, P. Jiang, and J. Sheng (2005), The Application of ASTER Data in Cotton Information Classification --Taking 16 Farm of Nongyishi of Production and Construction Group as An Example, *Remote sensing Technology and Application*, 20(6), 591-595.

Liu, Q., S. Liu, Y. Zhang, X. Wang, Y. Zhang, W. Guo, and J. Xu (2010), Recent shrinkage and hydrological response of Hailuogou glacier, a monsoon temperate glacier on the east slope of Mount Gongga, China, *Journal of Glaciology*, 56(196), 215-224.

Liu, Q., X.-Z. Xin, R.-R. Deng, Q. Xiao, Q.-H. Liu, and G.-L. Tian Retrieve component temperature for wheat field with ASTER image, paper presented at 2002 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2002), Jun 24-28 2002, Institute of Electrical and Electronics Engineers Inc, Toronto, Ont., Canada, 2002.

Liu, S., and J. Shi MODIS fraction snow mapping, paper presented at 2002 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2002), Jun 24-28 2002, Institute of Electrical and Electronics Engineers Inc, Toronto, Ont., Canada, 2002.

Liu, Y., and T. Hiyama A scaling approach for satellite-derived land surface temperature over terrain area, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology VII, Sep 20-22 2005, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, Bruges, Belgium, 2005.

Liu, Y., T. Hiyama, and Y. Yamaguchi (2006), Scaling of land surface temperature using satellite data: A case examination on ASTER and MODIS products over a heterogeneous terrain area, *Remote Sensing of Environment*, 105(2), 115-128.

Liu, Y., M. Li, J. Yang, and Y. Shu Tidal flat stability analysis based on GIS and RS technology: A case study in Dongsha sandbank, offshore the coast of Jiangsu province, paper presented at Geoinformatics 2007: Geospatial Information Science, SPIE, Bellingham WA, WA 98227-0010, United States, Nanjing, China, 2007.

Liu, Y., Y. Noumi, and Y. Yamaguchi (2009), Discrepancy Between ASTER- and MODIS- Derived Land Surface Temperatures: Terrain Effects, *Sensors*, 9(2), 1054-1066.

Liu, Y., Y. Yamaguchi, and T. Hiyama A new approach to reduce inconsistency between MODIS and ASTER land surface temperature products, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology VIII, Sept. 11-13, 2006., 2006.

Liu, Y. B., Y. Yamaguchi, and C. Q. Ke (2007), Reducing the discrepancy between ASTER and MODIS land surface temperature products, *Sensors*, 7(12), 3043-3057.

Liu, Z. Q., H. C. Li, and D. X. Yuan (2009), Relationship between speleothem d13C and karst-desertification in western Guizhou, *European Geosciences Union general assembly 2009, Vienna, AUT, Austria, April 19-24, 2009*, 11(Abstract), EGU2009-3384.

Livo, K. E., and K. Watson (2005), Soil surface characterization of the Mancos Shale within the Gunnison Gorge National Conservation Area using master data; Geological Society of America, Rocky Mountain Section, 57th annual meeting, *Geological Society of America, Rocky Mountain Section, 57th annual meeting, Grand Junction, CO, United States, May 23-25, 2005*, 37(6), 39.

Llopis, M., A. Vidal, and B. Hoyos Multi-temporal classification for irrigation detection in the Vinalopo region in Spain using ASTER images, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Logar, A. M., D. E. Lloyd, E. M. Corwin, M. L. Penaloza, R. E. Feind, T. A. Berendes, K.-S. Kuo, and R. M. Welch (1998), ASTER polar cloud mask, *IEEE Transactions on Geoscience and Remote Sensing*, 36(4), 1302-1312.

Longbottom, T., and U. K. Haritashya An analysis of alpine glacier morphology in the eastern, central, and western Himalaya using remote sensing data, paper presented at 2010 AAG annual meeting, Washington, DC, USA, United States, April 14-18, 2010, Association of American Geographers, Washington, DC, United States (USA), 2010.

Longley-Sinitsyna, D. A., C. M. Knox-Robinson, and A. Belous (2004), Geological controls and spatial distribution of gold mineralisation in the Karakala mineral field of the southern Kyrgyz Republic, central Asia; SEG 2004; Predictive mineral discovery under cover; SEG conference and exhibition; extended abstracts, *SEG 2004, Perth, West. Aust., Australia, Sept. 27-Oct. 1, 2004*, 33(Abstract), 439.

Lopez, P., P. Chevallier, V. Favier, B. Pouyaud, F. Ordenes, and J. Oerlemans (2010), A regional view of fluctuations in glacier length in southern South America, *Global and Planetary Change*, 71(1-2), 85-108.

Lovick, J., S. Li, and V. E. Romanovsky (2002), Fusion of RADARSAT SAR interferograms with other image and geological data sets to establish temporal, spatial and physical behaviors of the active layer at Sagwon, Alaska; AGU 2002 fall meeting, *American Geophysical Union 2002 fall meeting, San Francisco, CA, United States, Dec. 6-10, 2002*, 83(47), F261.

Lu, D., and Q. Weng (2006), Spectral mixture analysis of ASTER images for examining the relationship between urban thermal features and biophysical descriptors in Indianapolis, Indiana, USA, *Thermal Remote Sensing of Urban Areas*, 104(2), 157-167.

Lu, Y., C. Hua, X. Yang, and Y. Wei (2008), Quantitative analysis of urban thermal environmental effect based on ASTER data, *Geomatics and Information Science of Wuhan University*, 33(3), 297-301.

Lubis, A. M., and N. Isezaki (2009), Shoreline changes and vertical displacement of the 2 April 2007 Solomon Islands earthquake Mw 8.1 revealed by ALOS PALSAR images, *Physics and Chemistry of the Earth*, 34(6-7), 409-415.

Lucas, R., K. Medcalf, A. Brown, P. Bunting, J. Breyer, D. Clewley, S. Keyworth, and P. Blackmore (2011), Updating the Phase 1 habitat map of Wales, UK, using satellite sensor data, *ISPRS Journal of Photogrammetry and Remote Sensing*, 66(1), 81-102.

Lucca, E. V. D. (2007), Image Fusion Using Wavelet Transform to Characterize the Thermal Plume Produced by Nuclear Power Plant in Angra dos Reis, 150-150 pp, Instituto Nacional de Pesquisas Espaciais; Sao Jose dos Campos, Brazil.

Lutz, B., D. P. Roy, C. Leff, S. Lewicki, E. Geier, D. Ziskin, K. Kilpatrick, and A. Chu A review of EOS Terra quality assessment, paper presented at IGARSS 2000. IEEE 2000

International Geoscience and Remote Sensing Symposium. Taking the Pulse of the Planet: The Role of Remote Sensing in Managing the Environment, 24-28 July 2000, IEEE, 2000.

Lytwyn, J. (2010), Remote sensing and GIS investigation of glacial features in the region of Devil's Lake State Park, South-Central Wisconsin, USA, *Geomorphology*, 123(1-2), 46-60.

Ma, D., and P. Li (2008), The use of multiscale texture in image classification for lithologie mapping, *Acta Petrologica Sinica*, 24(6), 1425-1430.

Ma, J. W., and H. Bagan (2005), Land-use classification using ASTER data and self-organized neutral networks, *International Journal of Applied Earth Observation and Geoinformation*, 7(3), 183-188.

Ma, W., Y. Ma, M. Li, Z. Hu, L. Zhong, Z. Su, H. Ishikawa, and J. Wang (2008), Estimating surface fluxes over the north Tibetan Plateau area with ASTER imagery, *Hydrology & Earth System Sciences Discussions*, 5(4), 1705-1730.

Ma, W. Q., Y. M. Ma, T. Matsunaga, Z. Y. Hu, L. Zhong, M. S. Li, Y. Z. Zhao, Y. J. Wang, and J. M. Wang (2008), Land Surface and Vegetation Variables Estimated from ASTER Data over Akesu Region of Xingjiang in April 2002, *Plateau Meteorology*, 27(3), 544-550.

Macdonald, F. A., K. Mitchell, and A. J. Stewart (2005), Amelia Creek: a Proterozoic impact structure in the Davenport Ranges, Northern Territory, *Australian Journal of Earth Sciences*, 52(4-5), 631-640.

Machado, A. E., G. R. Scharfen, R. G. Barry, S. S. Khalsa, B. Raup, R. Swick, V. J. Troisi, and I. Wang (2001), Glacier Land Ice Measurements from Space (GLIMS) and the GLIMS Information Management System at NSIDC, *AGU Fall Meeting Abstracts*, 22(Abstract), 0702.

Machwitz, M., T. Landmann, C. Conrad, A. Cord, and S. Dech Land cover analysis on sub-continental scale: FAO LCCS standard with 250 meter MODIS satellite observations in West Africa, paper presented at 2008 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2008, IEEE, Piscataway, NJ, USA, 2008.

Mackawa, T., O. Nishihara, Y. Aoki, K. Tsubosaka, and S. Kitamura Design challenges of ASTER in thermal infrared spectral region, paper presented at Sensor systems for the early earth observing system platforms; Proceedings of the Conference, Orlando, FL; UNITED STATES; 13-14 Apr. 1993, Bellingham, WA: Society for Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 1939), 1993.

MacKnight Iv, R. B., E. Silver, T. Kennedy-Bowdoin, W. L. Pickles, and A. Waibel Remote sensing analysis of structure and geothermal potential of the Humboldt Block, Nevada, paper presented at 2004 IEEE International Geoscience and Remote Sensing

Symposium Proceedings: Science for Society: Exploring and Managing a Changing Planet. IGARSS 2004, Sep 20-24 2004, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Anchorage, AK, United States, 2004.

Magnsson, E., H. Rott, H. Bjornsson, M. J. Roberts, E. Berthier, F. Palsson, H. Geirsson, S. Gudmundsson, R. Bennett, and E. Sturkell (2006), Unsteady Glacier Flow Revealed by Multi-Source Satellite Data, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Mah, G. R., J. C. Eidenshink, K. W. Sheffield, and J. Myers Earth Observing System precursor data sets, paper presented at Sensor systems for the early earth observing system platforms; Proceedings of the Conference, Orlando, FL; UNITED STATES; 13-14 Apr. 1993, Society for Photo-Optical Instrumentation Engineers, Bellingham, WA, 1993.

Mah, G. R., and J. Myers AVIRIS and TIMS data processing and distribution at the land processes distributed active archive center, paper presented at In JPL, Summaries of the 4th Annual JPL Airborne Geoscience Workshop. Volume 1: AVIRIS Workshop p 109-112 (SEE N95-23844 07-42); UNITED STATES, 1993.

Mahoney, C., C. LaBaw, H. Sobel, and A. Kahle Thermal infrared imaging spectrometer. An advanced optics technology instrument, paper presented at Imaging Spectroscopy of the Terrestrial Environment, Apr 16-17 1990, Publ by Int Soc for Optical Engineering, Bellingham, WA, USA, Orlando, FL, USA, 1990.

Maillard, P., T. Alencar-Silva, and D. A. Clausi (2008), An evaluation of Radarsat-1 and ASTER data for mapping veredas (palm swamps), *Sensors*, 8(9), 6055-6076.

Main, M. (2004), Wykorzystanie metod geoinformatycznych do identyfikacji i charakterystyki składowisk odpadów przemysłowych na potrzeby rekultywacji. Applying geo-informatic methods to identify and characterize an industrial waste for recultivation purpose, *Inżynieria Środowiska - Rocznik Akademii Górnictwa i Hutniczo-Hutniczej*, 9(2), 201-210.

Maki, M., T. Kojima, and T. Akiyama (2007), Potential of ASTER DEM for Forest Ecological Research, *Journal of Remote Sensing Society of Japan*, 27(1), 39-45.

Mallick, K., B. K. Bhattacharya, and N. K. Patel (2009), Estimating volumetric surface moisture content for cropped soils using a soil wetness index based on surface temperature and NDVI, *Agricultural and Forest Meteorology*, 149(8), 1327-1342.

Mallinis, G., F. Maris, I. Kalinderis, and N. Koutsias (2009), Assessment of Post-fire Soil Erosion Risk in Fire-Affected Watersheds Using Remote Sensing and GIS, *Giscience & Remote Sensing*, 46(4), 388-410.

Mancini, F., M. De Giglio, and M. Nurra (2008), Use of Landsat and Terra-ASTER data for environmental monitoring, *Rivista Italiana Di Telerilevamento*, 40(3), 39-53.

Mandl, D., et al. A space-based sensor Web for disaster management, paper presented at 2008 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2008, IEEE, Piscataway, NJ, USA, 2008.

Manners, R. B., F. J. Magilligan, and P. S. Goldstein (2007), Floodplain Development, El Nino, and Cultural Consequences in a Hyperarid Andean Environment, *Annals of the Association of American Geographers*, 97(2), 229-249.

Manobianco, J., and G. E. Taylor Operational real-time mesoscale numerical weather prediction at the Kennedy Space Center, 1994.

Mao, K., Z. Qin, J. Shin, and P. Gong (2005), A practical split-window algorithm for retrieving land-surface temperature from MODIS data, *International Journal of Remote Sensing*, 26(15), 3181-3204.

Mao, K., J. Shi, Z. Li, Z. Qin, X. Wang, and L. Jiang A multiple-band algorithm for separating land surface emissivity and temperature from ASTER imagery, paper presented at 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Denver, CO, United States, 2006.

Mao, K., J. Shi, Z. Qin, P. Gong, W. Liu, and L. Xu A mutiple-band algorithm for retrieving land surface temperature and emissivity from EOS/MODIS data, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Mao, K., J. Shi, Z. Qin, P. Gong, B. Xu, and L. Jiang (2006), A Four-Channel Algorithm for Retrieving Land Surface Temperature and Emissivity from ASTER Data, *Journal of Remote Sensing*, 10(4), 593-599.

Mao, K., J. Shi, H. Tang, Z.-A. Li, X. Wang, and K.-S. Chen (2008), A neural network technique for separating land surface emissivity and temperature from ASTER imagery, *IEEE Transactions on Geoscience and Remote Sensing*, 46(1), 200-208.

Mao, K., H. Tang, Z. Chen, Y. Qiu, Z. Qin, and M. Li (2006), A Split-window Algorithm for Retrieving Land-Surface Temperature from ASTER Data, *Remote Sensing Information*(5), 7-11.

Mao, K. B., H. J. Tang, X. F. Wang, Q. B. Zhou, and D. L. Wang (2008), Near-surface air temperature estimation from ASTER data based on neural network algorithm, *International Journal of Remote Sensing*, 29(20), 6021-6028.

Mao, X., W. Liu, J. Du, and W. Xu (2005), Comparison between ETM+ and ASTER Data for Extraction of Alteration Information: A Case Study of Fenghuangshan Orefield, Tongling, Anhui Province, *Geoscience*, 19(2), 309-314.

Marangoz, A. M., G. Buyuksalih, I. Buyuksalih, U. G. Sefercik, and H. Akcin Geometric evaluation, automated DEM and orthoimage generation from along-track stereo ASTER images, paper presented at RAST 2005. Proceedings of 2nd International Conference on Recent Advances in Space Technologies, 9-11 June 2005, IEEE, Istanbul, Turkey, 2005.

Marcal, A. R. S., and J. S. Borges Estimation of the "natural" number of classes of a multispectral image, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Marcal, A. R. S., J. S. Borges, J. A. Gomes, and J. F. Pinto Da Costa (2005), Land cover update by supervised classification of segmented ASTER images, *International Journal of Remote Sensing*, 26(7), 1347-1362.

Mardirossian, G. Application of remote sensing (optical and SAR) to monitoring water resources, paper presented at NATO advanced research workshop on Supply of water to cities in emergency situations, Tel Aviv, Israel, June 5-7, 2007, Netherlands (NLD), 2007.

Marina, S., and C. Constantinos Study of the urban heat island of Athens, Greece during daytime and night-time, paper presented at 2007 Urban Remote Sensing Joint Event, URS, Institute of Electrical and Electronics Engineers Computer Society, Piscataway, NJ 08855-1331, United States, Paris, France, 2007.

Marrakchi, O., A. Agina, and A. Elghali (2009), Evaluating SVM and BPNN classifiers for remote sensing data, *International Review on Computers and Software*, 4(5), 600-605.

Mars, J. C., D. N. Riley, and S. K. Gaffney (2007), Lithologic mapping using Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) data in the White Sands, New Mexico region, *Geological Society of America, 2007 annual meeting, Denver, CO, USA, United States, Oct. 28-31, 2007*, 39(6), 529.

Mars, J. C., and L. C. Rowan (2005), Calibration and regional mapping of argillic and phyllitic alteration using advanced spaceborne thermal emission and reflection radiometer (ASTER) data, Hyperion data, and environment for visualizing images (ENVI) logical operator algorithms; Geological Society of America, 2005 annual meeting, *Geological Society of America, 2005 annual meeting, Salt Lake City, UT, United States, Oct. 16-19, 2005*, 37(7), 107.

Mars, J. C., and L. C. Rowan (2006), Regional mapping of phyllitic- and argillic-altered rocks in the Zagros magmatic arc, Iran, using Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) data and logical operator algorithms, *Geosphere*, 2(3), 161-186.

Mars, J. C., and L. C. Rowan (2007), Mapping phyllitic and argillic-altered rocks in southeastern Afghanistan using Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) dataRep. 0196-1497, U. S. Geological Survey, Reston, VA, United States (USA), United States (USA).

Mars, J. C., and L. C. Rowan (2010), Spectral assessment of new ASTER SWIR surface reflectance data products for spectroscopic mapping of rocks and minerals, *Remote Sensing of Environment*, 114(9), 2011-2025.

Mars, J. C., and J. C. Wynn (2002), Geologic mapping of the Sierra San Jose mountain range, Mexico using advanced spaceborne thermal emission and reflection radiometer (ASTER) data; a remote sensing tool to assist geologic mapping in the field; Geological Society of America, 2002 annual meeting, *Geological Society of America, 2002 annual meeting, Denver, CO, United States, Oct. 27-30, 2002*, 34(6), 551.

Marsh, S. H., K. Greally, and A. A. M. I. U. S. Environmental Research Institute of Michigan From TM to JERS-1 to ASTER; toward mineral identification with satellite data; Proceedings of the Eleventh thematic conference on geologic remote sensing; practical solutions for real world problems, paper presented at Eleventh thematic conference on Applied geologic remote sensing, Las Vegas, NV, United States, Feb. 27-29, 1996, Environmental Research Institute of Michigan, Ann Arbor, MI, United States (USA), United States (USA), 1996.

Marshak, A. Three-Dimensional Radiative Transfer in Cloudy Atmospheres, paper presented at 2nd Asian-Pacific Radiation Symposium, 2006.

Marshak, A., S. Platnick, T. Varnai, G. Wen, and R. F. Cahalan (2006), Impact of three-dimensional radiative effects on satellite retrievals of cloud droplet sizes, *Journal of Geophysical Research-Part D-Atmospheres*, 111(D9), 12.

Marshak, A., G. Wen, J. A. Coakley, Jr., L. A. Remer, N. G. Loeb, and R. F. Cahalan (2008), A simple model for the cloud adjacency effect and the apparent bluing of aerosols near clouds, *Journal of Geophysical Research-Atmospheres*, 113(D14), D14S17-D14S17.

Martha, T. R., A. Guha, V. K. Kumranchat, M. V. V. Kamaraju, and E. V. R. Raju (2010), Recent coal-fire and land-use status of Jharia Coalfield, India from satellite data, *International Journal of Remote Sensing*, 31(12), 3243-3262.

Marti-Cardona, B., T. E. Steissberg, S. G. Schladow, and S. J. Hook (2008), Relating fish kills to upwellings and wind patterns in the Salton Sea, *Hydrobiologia*, 604(Journal Article), 85-95.

Martin, D. M., T. K. Anderson, S. J. Troyer, and A. S. Yoshinobu (2007), Structural evolution of McKinney Hills laccolith-host rock system; Geological Society of America, South-Central Section, 41st annual meeting; Geological Society of America,

North-Central Section, 41st annual meeting, *Geological Society of America, South-Central Section, 41st annual meeting; Geological Society of America, North-Central Section, 41st annual meeting, Lawrence, KS, United States, April 11-13, 2007*, 39(3), 70.

Martin, J. P., and R. D. Jacobi (2006), Understanding hydrothermal alteration of the Ordovician carbonate platform of New York State; implications for hydrocarbon exploration; GAC-MAC annual meeting; abstracts--AGC-AMC congrès annuel; resumes, *GAC-MAC annual meeting, Montreal, QC, Canada, May 14-17, 2006*, 31(Abstract), 97.

Martinez-Beltran, C., M. A. Osann Jochum, A. Calera, and J. Melia (2009), Multisensor comparison of NDVI for a semi-arid environment in Spain, *International Journal of Remote Sensing*, 30(5), 1355-1384.

Martini, B. A., T. D. Cocks, P. A. Cocks, and W. L. Pickles Operational airborne hyperspectral remote sensing for global geothermal exploration, paper presented at IGARSS 2004. 2004 IEEE International Geoscience and Remote Sensing, 20-24 Sept. 2004; Science for Society: Exploring and Managing a Changing Planet., IEEE, Anchorage, AK, USA, 2004.

Martonchik, J. V., D. J. Diner, R. A. Kahn, T. P. Ackerman, M. M. Verstraete, B. Pinty, and H. R. Gordon (1998), Techniques for the retrieval of aerosol properties over land and ocean using multiangle imaging, *IEEE Transactions on Geoscience and Remote Sensing*, 36(4), 1212-1227.

Maruyama, Y. (2000), Newest technological trends of aerospace technology. Utilization of satellite data in various foreign countries and the trends, *Promoting Machine Industry in Japan*, 33, NO.8(Journal Article), PAGE.49-54.

Marzo, G. A., T. L. Roush, and R. C. Hogan (2009), Automated classification of visible and infrared spectra using cluster analysis, *Journal of Geophysical Research-Planets*, 114(Journal Article), E08001-E08001.

Masek, J. G., E. F. Vermote, N. E. Saleous, R. Wolfe, F. G. Hall, K. F. Huemmrich, F. Gao, J. Kutler, and T.-K. Lim (2006), A landsat surface reflectance dataset for North America, 1990-2000, *IEEE Geoscience and Remote Sensing Letters*, 3(1), 68-72.

Massironi, M., L. Bertoldi, P. Calafa, D. Visona, A. Bistacchi, C. Giardino, and A. Schiavo (2008), Interpretation and processing of ASTER data for geological mapping and granitoids detection in the Saghro massif (eastern Anti-Atlas, Morocco), *Geosphere*, 4(4), 736-759.

Massironi, M., G. Forlani, G. Cremonese, M. T. Capria, V. Da Deppo, L. Giacomini, G. Naletto, G. Pasquare, R. Roncella, and E. Flamini (2008), Simulations using terrestrial geological analogues to assess interpretability of potential geological features of the

Hermean surface restituted by the STereo imaging Camera of the SIMBIOSYS package (BepiColombo mission), *Planetary and Space Science*, 56(8), 1079-1092.

Massom, R., V. Lytle, I. Allison, T. Worby, T. Markus, T. Scambos, T. Haran, H. Enomoto, K. Tateyama, and A. Pfaffling Validation of EOS Aqua AMSR Sea Ice Products for East Antarctica, paper presented at IGARSS 04, Anchorage, AK United States United States 20-24 Sep. 2004, 2004.

Masuda, K., and T. Takashima Evaluation of ASTER input radiance considering the aerosol effect, paper presented at Infrared Spaceborne Remote Sensing IV, Aug 6-7 96, 1996.

Masumoto, H., T. Okamoto, A. Hiroshi, and M. Fukushima Thermal Design of the ASTER /SWIR, Japan, 1995.

Matano, Y. (2004), Recent progress of satellite remote sensing technology for mineral resource exploration, *Chigaku Zasshi = Journal of Geography*, 113(6), 878-881.

Matano, Y., I. Kohei, G. y. Saito, and M. Kato Application of ASTER data to the agricultural land distribution map, Japan, 1999.

Matarrese, R., M. Acquaro, A. Morea, K. Tijani, and M. T. Chiaradia Applications of remote sensing techniques for mapping Posidonia Oceanica meadows, paper presented at 2008 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2008, IEEE, Piscataway, NJ, USA, 2008.

Mathieu, R., T. Chinn, and B. Fitzharris (2009), Detecting the equilibrium-line altitudes of New Zealand glaciers using ASTER satellite images, *New Zealand Journal of Geology and Geophysics*, 52(3), 209-222.

Matsumoto, M., and K. Arai The .EPSILON.-T separation with the approximation of the spectral emissivity by orthogonal function expansion, Japan, 1993.

Matsumoto-moriyama, M., and K. Arai Some ideas for iterative estimation of atmospheric condition, surface temperature and emissivity, paper presented at Proceedings of the 13th Annual International Geoscience and Remote Sensing Symposium, Aug 18-21 1993, Publ by IEEE, Piscataway, NJ, USA, Tokyo, Jpn, 1993.

Matsumoto-Moriyama, M., and K. Arai (1994), An inversion for emissivity-temperature separation with ASTER data, *Advances in Space Research*, 14(3), 67-70.

Matsunaga, T. Water Surface Temperature Estimation Using ASTER TIR. 2. The Effect of the Measurement Noise, Japan, 1994.

Matsunaga, T. Water Surface Temperature Estimation Using ASTER TIR. LOWTRAN 7 Simulation, Japan, 1994.

Matsunaga, T. The difference between laboratory and in-situ pixel-averaged emissivity: The effects on temperature-emissivity separation, paper presented at JPL, Summaries of the 4th Annual JPL Airborne Geoscience Workshop. Volume 2: TIMS Workshop p 5-8 (SEE N95-23917 07-42); UNITED STATES, 1993.

Matsunaga, T. (1996), Water Surface Temperature Estimation Using Linear Equations of Brightness Temperature Observed by Advanced Spaceborne Thermal Emission and Reflection Radiometer /Thermal Infrared Radiometer ( ASTER TIR). Preliminary Evaluation of Estimation Error with Atmospheric Temperature and Humidity Data around Japan, *Journal of Remote Sensing Society of Japan*, 16, NO.5(Journal Article), PAGE.404-415.

Matsunaga, T., and T. Fujitani Analysis of the relationship between land cover changes and thermal environment in Tsukuba using ASTER data, Japan, 2005.

Matsunaga, T., and T. Fujitani Observation of recent land cover changes in Tsukuba area using ASTER data, Japan, 2004.

Matsunaga, T., A. Hoyano, K. Izawa, and M. Yosei Preliminary study on environmental monitoring of subtropical shallow water areas using ASTER image, Japan, 2001.

Matsunaga, T., A. Hoyano, and I. Kazutoshi Subtropical shallow water sea floor distribution map using ASTER VNIR/ Landsat TM image, Japan, 2001.

Matsunaga, T., A. Hoyano, and I. Yu Preliminary study of using MODIS data for the estimation of evapotranspiration, Japan, 2002.

Matsunaga, T., Y. Ito, N. Takashi, M. Moriyama, and H. Tonooka Vicarious calibration of ASTER TIR using ground targets. Salton Sea and Railroad Valley, June 2001, Japan, 2001.

Matsunaga, T., T. Nonaka, Y. Sawabe, N. M, H. Tonooka, and H. Fukasawa Cross and Vicarious Calibration Experiments for Terra ASTER and Landsat-7 ETM+ in the Thermal Infrared Region Using Hot Ground Targets, paper presented at Proceedings of the CEReS international symposium on remote sensing of the atmosphere and validation of satellite data, Japan, 2001.

Matsunaga, T., T. Nonaka, Y. Sawabe, M. Moriyama, H. Tonooka, and H. Fukasawa Vicarious and cross calibration methods for satellite thermal infrared sensors using hot ground targets, paper presented at 2001 International Geoscience and Remote Sensing Symposium (IGARSS 2001), Jul 9-13 2001, Institute of Electrical and Electronics Engineers Inc, Sydney, NSW, 2001.

Matsunaga, T., T. Nonaka, S. Y., M. Moriyama, H. Tonooka, and H. Fukasawa Cross Calibration of Terra ASTER , Landsat -7 ETM+, and MASTER in the Thermal Infrared Region Using Ground Targets. Lake Tahoe, March 2000, Japan, 2000.

Matsunaga, T., T. Nonaka, S. Yoriko, M. Moriyama, H. Tonooka, and H. Fukasawa Vicarious calibration of ASTER TIR and ETM+ thermal infrared band using ground targets. Salton Sea and Railroad Valley, June 2000, Japan, 2001.

Matsunaga, T., and S. Rokugawa Simulated Images of LANDSAT TM, NOAA AVHRR, and ASTER TIR Thermal Channels From TIMS Data-San Francisco Bay, California, Japan, 1993.

Matsunaga, T., S. Rokugawa, and Y. Ishii Application of split window technique to TIMS data, paper presented at JPL, Summaries of the Third Annual JPL Airborne Geoscience Workshop. Volume 2: TIMS Workshop p 16-18 (SEE N94-16595 03-42); UNITED STATES, 1992.

Matsunaga, T., S. Rokugawa, H. Tonooka, Y. Kannari, and O. Kin'ya The Field Experiment for the ASTER Vicarious Calibration in the Thermal Infrared Region (1), Japan, 1996.

Matsunaga, T., S. Rokugawa, and I. Yoshinori (1993), Application of the Split Window Technique to Thermal Infrared Multispectral Scanner(TIMS) Data, *Journal of Remote Sensing Society of Japan*, 13, NO.2(Journal Article), PAGE.89-101.

Matsunaga, T., Y. Sawabe, H. Akira, and S. Rokugawa Validation of ASTER TES algorithm using ASTER and TIMS data, Japan, 2001.

Matsunaga, T., Y. Sawabe, S. Rokugawa, H. Tonooka, and M. Moriyama Early evaluation of ASTER emissivity products and its application to environmental and geologic studies, paper presented at Infrared Spaceborne Remote Sensing IX, Aug 1-3 2001, The International Society for Optical Engineering, 2002.

Matsunaga, T., N. Takashi, M. Moriyama, H. Tonooka, and N. Doi Validation of calibration accuracy of an airborne thermal infrared sensor by ground measurements-Salton Sea, Jan 1999, Japan, 2000.

Matsunaga, T., T. Ueki, N. Miyako, and T. Tachikawa Validation of ASTER water surface temperature algorithm using in-situ water temperature data in Tokyo Bay, Japan, 2002.

Matsuoka, Y., H. Kawamura, F. Sakaida, and K. Hosoda (2011), Retrieval of high-resolution sea surface temperature data for Sendai Bay, Japan, using the Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), *Remote Sensing of Environment*, 115(1), 205-213.

Matsushita, B., Y. Onda, M. Xu, Y. Otsuki, and M. Toyota (2006), Detecting Forest Degradation in Kouchi, Japan Using Visible, Near-IR, Mid-IR, and Thermal- IR Data from ASTER, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Matsushita, B., Y. Onda, M. Xu, and M. Toyota Detecting forest degradation in Kochi, Japan: Combining in situ field measurements with remote sensing techniques, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Matsushita, B., M. Toyota, and Y. Onda Extraction of devastated forest plantation from analysis of ASTER data - A case study on Hinoki forest plantation in Kouchi , Japan, paper presented at [Meeting: volume title in Japanese], Japanese Forest Society, 2005.

Matsushita, B., M. Xu, Y. Onda, Y. Otsuki, and M. Toyota (2010), Detecting forest degradation in Kochi, Japan: Ground-based measurements versus satellite (Terra ASTER) remote sensing, *Hydrological Processes*, 24(5), 588-595.

Matthews, J. (2005), Stereo observation of lakes and coastal zones using ASTER imagery, *Scientific Results from ASTER*, 99(1-2), 16-30.

Matthews, J. P., and T. Awaji (2010), Synoptic mapping of internal-wave motions and surface currents near the Lombok Strait using the Along-Track Stereo Sun Glitter technique, *Remote Sensing of Environment*, 114(8), 1765-1776.

Matthews, J. P., S. R. Wallis, and Y. Yamaguchi (2004), ASTER views a high altitude Tibetan lake in stereo, *EOS, Transactions, American Geophysical Union*, 85(43), 435-439-440.

Matthews, J. P., X. D. Yang, J. Shen, and T. Awaji (2008), Structured Sun glitter recorded in an ASTER along-track stereo image of Nam Co Lake (Tibet): An interpretation based on supercritical flow over a lake floor depression, *Journal of Geophysical Research-Oceans*, 113(C1), C01019-C01019.

Matthias, B., and H. Martin Mapping imperviousness using NDVI and linear spectral unmixing of ASTER data in the Cologne-Bonn region (Germany), paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology III, Sep 9-11 2003, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, 2004.

Maturilli, A., and J. Helbert (2008), Martian analogues emissivity spectra from the Berlin Emissivity Database (BED) in the [3-50] mu m spectral region; Lunar and planetary science; XXXIX; papers presented to the Thirty-ninth lunar and planetary science conference, *Thirty-ninth lunar and planetary science conference, Houston, TX, United States, March 10-14, 2008*, 1391(Abstract), @Abstract 1278.

Mauger, A. J. (2003), Comparison of various remote sensing and spectral radiometer instruments, *MESA Journal*, 29(Journal Article), 26-29.

May, J.-H., and H. Veit (2006), Geomorphological indicators of large-scale climatic changes in the eastern Bolivian lowlands; Palaeo-Geooekologie der Zentralen Anden. Paleo-geoecology of the Central Andes, *Geographica Helvetica*, 62(2), 120-134.

Mayer, D. P., R. E. Arvidson, A. Wang, P. Sobron, and M. P. Zheng (2009), Mapping minerals at a potential Mars analog site on the Tibetan Plateau, *Fortieth lunar and planetary science conference, Houston, TX, USA, United States, March 23-27, 2009*, 1468(Abstract), 1877.

Mayer, H., and U. C. Herzfeld (2004), Recent changes in the dynamics of Alaskan glaciers derived from geomathematical analysis of ASTER satellite data and field observations; Italia 2004; 32nd international geological congress; abstracts, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004*, 32(Abstract), 99.

Mayer, H., and U. C. Herzfeld (2006), Jakobshavn Isbrae, West Greenland: Structural Evolution During Transition from Stable Fast Flow to Rapid Retreat, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Mayer, H., and U. C. Herzfeld (2008), The rapid retreat of Jakobshavn Isbrae, West Greenland; field observations of 2005 and structural analysis of its evolution, in *Progress in geomathematics*, edited by G. F. Bonham-Carter and Q. Cheng, Springer.

McAdoo, B. G., N. Richardson, and J. Borrero (2007), Inundation distances and run-up measurements from ASTER, QuickBird and SRTM data, Aceh coast, Indonesia, *Satellite Observations Related to Sumatra Tsunami and Earthquake of 26 December 2004*, 28(13), 2961-2975.

McCabe, M. F., and E. F. Wood (2006), Scale influences on the remote estimation of evapotranspiration using multiple satellite sensors, *Remote Sensing of Environment*, 105(4), 271-285.

McCarthy, E., G. Bluth, I. M. Watson, W. Rose, A. Tupper, and Y. Kamada (2003), Detection and fate of the August 18 and 28, 2000 eruption clouds of Miyake Jima, Japan; an analysis using TOM, MODIS, AVHRR, GMS, and ASTER; AGU 2003 fall meeting, *American Geophysical Union 2003 fall meeting, San Francisco, CA, United States, Dec. 8-12, 2003*, 84(46).

McCarty, J. L., T. Loboda, and S. Trigg (2008), A hybrid remote sensing approach to quantifying crop residue burning in the United States, *Applied Engineering in Agriculture*, 24(4), 515-527.

McFadden, E., J. M. Ramage, and D. T. Rodbell (2006), Landsat TM and ETM+ derived equilibrium line altitudes and their implications, Cordillera Huayhuash, Peru,

1986-2005, *Geological Society of America, 2006 annual meeting, Philadelphia, PA, United States, Oct. 22-25, 2006*, 38(7), 97.

McKenney, R., J. F. Payne, J. Ramage, B. Kortlever, and J. Apgar (2005), Sub-arctic climate variability indicated by patterns of channel change in the upper Yukon Basin, Yukon Territory, Canada; Geological Society of America, 2005 annual meeting, *Geological Society of America, 2005 annual meeting, Salt Lake City, UT, United States, Oct. 16-19, 2005*, 37(7), 224.

McLaurin, B. T. (2008), Reconnaissance geology of the Boquillas and Ocuca Hills, northern Sonora, Mexico, *Geological Society of America, 2008 annual meeting, Houston, TX, United States, Oct. 5-9, 2008*, 40(6), 198.

McRivette, M. W., A. Yin, and X. Chen (2004), South-directed backthrusting beneath the eastern Kunlun Shan; implications for mechanisms of plateau growth; Geological Society of America, 2004 annual meeting, *Geological Society of America, 2004 annual meeting, Denver, CO, United States, Nov. 7-10, 2004*, 36(5), 50.

Mege, D., and R. Schultz (2007), Sublinear displacement-length scaling of igneous dikes in basalt, *American Geophysical Union 2007 fall meeting, San Francisco, CA, United States, Dec. 10-14, 2007*, 88(52, Suppl.), @Abstract T11A-0340.

Meigs, S. F., W. J. W. Williams, and M. E. McMillan (2004), GIS and remote sensing applied to the Quaternary Potrillo volcanic field, southern Rio Grande Rift; Geological Society of America, Rocky Mountain Section, 56th annual meeting; Geological Society of America, Cordilleran Section, 100th annual meeting, *Geological Society of America, Rocky Mountain Section, 56th annual meeting; Geological Society of America, Cordilleran Section, 100th annual meeting, Boise, ID, United States, May 3-5, 2004*, 36(4), 79.

Melendez-Pastor, I., J. Navarro-Pedreno, M. Koch, and I. Gomez (2010), Applying imaging spectroscopy techniques to map saline soils with ASTER images, *Geoderma*, 158(1-2), 55-65.

Mellors, R. J., T. Bunyapanasarn, and B. Panahi (2002), Preliminary InSAR Analysis of Lokbatan mud Volcano Near Baku, Azerbaijan, *AGU Fall Meeting Abstracts*, 51(Abstract), 0951.

Mellors, R. J., T. Bunyapanasarn, and B. M. Panahi (2005), InSAR analysis of the Absheron Peninsula and nearby areas, Azerbaijan; Mud volcanoes, geodynamics and seismicity, *NATO advanced research workshop on Mud volcanism, geodynamics and seismicity, Baku, Azerbaijan, May 20-22, 2003*, 51(Journal Article), 201-209.

Mellors, R. J., and B. Panahi (2003), Analysis of mud volcanoes on the Absheron Peninsula, Azerbaijan using InSAR, *AGU Fall Meeting Abstracts*, 51(Abstract), 0400.

Meltzner, A. J., K. Sieh, M. Abrams, C. D. Agnew, K. W. Hudnut, J.-P. Avouac, and D. H. Natawidjaja (2006), Uplift and subsidence associated with the great Aceh-Andaman earthquake of 2004, *Journal of Geophysical Research*, 111(B2), 8.

Mengesha, A. B., and M. G. Abdelsalam (2001), Comparison and data fusion of ASTER, ETM+ and SIR-C/X-SAR imagery for geological mapping in arid regions; the Afar Depression, Ethiopia; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 288-289.

Menzies, J., R. Jensen, E. Brondizio, E. Moran, and P. Mausel (2007), Accuracy of neural network and regression leaf area estimators for the Amazon Basin, *Geoscience & Remote Sensing*, 44(1), 82-92.

Mercer, J. B., D. Edwards, J. Maduck, G. Hong, and Y. Zhang Fusion of high resolution radar and low resolution multi-spectral optical imagery, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Merlin, O., A. Al Bitar, J. P. Walker, and Y. Kerr (2009), A sequential model for disaggregating near-surface soil moisture observations using multi-resolution thermal sensors, *Remote Sensing of Environment*, 113(10), 2275-2284.

Merlin, O., B. Duchemin, O. Hagolle, F. Jacob, B. Coudert, G. Chehbouni, G. Dedieu, J. Garatuza, and Y. Kerr (2010), Disaggregation of MODIS surface temperature over an agricultural area using a time series of Formosat-2 images, *Remote Sensing of Environment*, 114(11), 2500-2512.

Merrill, M. D., H. Folger, B. Hubbard, and W. R. Page (2006), Soil geochemistry and geology in the lower Rio Grande Valley, Texas; Geological Society of America, 2006 annual meeting, *Geological Society of America, 2006 annual meeting, Philadelphia, PA, United States, Oct. 22-25, 2006*, 38(7), 136.

Mertes, J. R., M. P. Bishop, J. F. Shroder, U. K. Haritashya, H. N. Bulley, and J. A. Olsenholle (2007), Glacial Velocity Changes of Batura Glacier, Western Karakoram Himalaya, 2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007, 88(52,; Suppl. Volume 1-2).

Meyer, D., and G. Chander Cross-calibration of A.M. constellation sensors for long term monitoring of land surface processes, paper presented at Multispectral, Hyperspectral, and Ultraspectral Remote Sensing Technology, Techniques, and Applications, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, Goa, India, 2006.

Mezned, N., S. Abdeljaoued, and M. R. Boussema Unmixing based landsat ETM+ and ASTER image fusion for hybrid multispectral image analysis, paper presented at 2007

IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Mezned, N., S. Abdeljaoued, and M. R. Boussema (2010), A comparative study for unmixing based Landsat ETM plus and ASTER image fusion, *International Journal of Applied Earth Observation and Geoinformation*, 12(Journal Article), S131-S137.

Miao, F., J. Li, C. Ye, L. Li, Q. Wang, B. Wu, and H. Luo A survey of land use in lugu lake using multispectral remote sensing, paper presented at 2nd International Conference on Earth Observation for Global Changes, May 25, 2009 - May 29, SPIE, 2009.

Michel, U. Advanced automated classification strategy for settlement area detection, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology V; Bruges; Belgium; 19-20 Sept. 2005, 2005.

Michishita, R., A. Furuta, O. Shigeyuki, A. Iwasaki, and H. Fujisada A study on estimating MTF of ASTER data, Japan, 1999.

Michishita, R., A. Iwasaki, H. Fujisada, and S. Obayashi Analysis of Registration Trend of ASTER data with Revision of Geometric Database, Japan, 2001.

Mied, R. P., T. F. Donato, and W. Chen (2006), Use of Visible Satellite Imagery to Determine Velocity in Tidal Rivers, *EOS, Transactions, American Geophysical Union*, 87(5).

Mied, R. P., T. F. Donato, and C. T. Friedrichs (2006), Eddy generation in the tidal Potomac river, *Estuaries and Coasts*, 29(6B), 1067-1080.

Miege, C., A. Rabatel, Y. Arnaud, A. Racoviteanu, P. Wagnon, and P. Chevallier (2009), Mass balance fluctuations of Chhota Shigri Glacier estimated from remotely sensed snow line altitudes, *European Geosciences Union general assembly 2009, Vienna, Austria, April 19-24, 2009*, 11(Abstract), EGU2009-4037.

Mihalcea, C., B. W. Brock, G. Diolaiuti, C. D'Agata, M. Citterio, M. P. Kirkbride, M. E. J. Cutler, and C. Smiraglia (2008), Using ASTER satellite and ground-based surface temperature measurements to derive supraglacial debris cover and thickness patterns on Miage Glacier (Mont Blanc Massif, Italy), *Cold Regions Science and Technology*, 52(3), 341-354.

Mihalcea, C., B. W. Brock, G. Diolaiuti, C. D'Agata, M. Citterio, M. P. Kirkbride, C. Smiraglia, and M. E. J. Cutler (2007), Comparison of ground based and ASTER derived measurements of surface temperature and supraglacial debris thickness on Miage Glacier, Mont Blanc Massif, Italy, *9th European Geosciences Union General Assembly, Vienna (Austria), 15-20 Apr 2007*(Abstract).

Mihalcea, C., C. Mayer, G. Diolaiuti, C. D'Agata, C. Smiraglia, A. Lambrecht, E. Vuillermoz, G. Tartari, and J. Jacka (2008), Spatial distribution of debris thickness and melting form remote-sensing and meteorological data, at debris-covered Baltoro Glacier, Karakoram, Pakistan; Papers from the cryospheric section of the International Union of Geodesy and Geophysics meeting, *International Union of Geodesy and Geophysics meeting, Perugia, Italy, July 2-13, 2007*, 48(Journal Article), 49-57.

Milewski, A., M. Sultan, E. Yan, R. Becker, A. Abdeldayem, F. Soliman, and K. A. Gelil (2009), A remote sensing solution for estimating runoff and recharge in arid environments, *Journal of Hydrology*, 373(1-2), 1-14.

Miller, P. E., M. Kunz, J. P. Mills, M. A. King, T. Murray, T. D. James, and S. H. Marsh (2009), Assessment of Glacier Volume Change Using ASTER-Based Surface Matching of Historical Photography, *IEEE Transactions on Geoscience and Remote Sensing*, 47(7), 1971-1979.

Millington, A. C., K. White, N. A. Drake, G. Wadge, and D. J. Archer Remote sensing of geomorphological processes and surficial material geochemistry in drylands; Advances in environmental remote sensing, paper presented at Institute of British Geographers annual conference, John Wiley & Sons, Chichester, United Kingdom (GBR), United Kingdom (GBR), 1995.

Mills, F., Y. Kannari, H. Watanabe, M. Sano, and S. H. Chang (1994), Thermal airborne multispectral ASTER simulator and its preliminary results, *Advances in Space Research*, 14(3), 10; p. (13)49-(13)58.

Mingyi, D., W. Qianwei, and C. Guoyin Temporal and spatial variations of urban heat island effect in Beijing using ASTER and TM data, paper presented at 2009 Joint Urban Remote Sensing Event, May 20, 2009 - May 22, IEEE Computer Society, Shanghai, China, 2009.

Minomura, M., H. Kuze, and T. Nobuo Derivation of surface albedo and aerosol optical thickness from Landsat7 ETM+ image using MODTRAN4 simulation, Japan, 2004.

Mira, M., T. Schmugge, E. Valor, V. Caselles, and C. Coll Comparison of field emissivities with laboratory measurements and ASTER data, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology X, SPIE - The International Society for Optical Engineering, USA, 2008.

Mira, M., T. J. Schmugge, E. Valor, V. Caselles, and C. Coll (2009), Comparison of thermal infrared emissivities retrieved with the two-lid box and the TES methods with laboratory spectra, *IEEE Transactions on Geoscience and Remote Sensing*, 47(4), 1012-1021.

Misner, T. J. (2003), Multi-frequency, multi-temporal, brush fire scar analysis in a semi-arid urban environment, University of Pittsburgh, Pittsburgh, PA, United States (USA), United States (USA).

Misra, A., R. P. Gupta, and A. K. Sen Using ASTER TIR radiance and surface emissivity data to map lithology and silica abundance in a metamorphic terrain, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Misra, S., M. Arif, N. Basavaiah, P. K. Srivastava, and A. Dube (2010), Structural and anisotropy of magnetic susceptibility (AMS) evidence for oblique impact on terrestrial basalt flows: Lonar crater, India, *Geological Society of America Bulletin*, 122(3-4), 563-574.

Mitchell, A., and R. M. Lucas Integration of aerial photography, hyperspectral and SAR data for mangrove characterization, paper presented at 2001 International Geoscience and Remote Sensing Symposium (IGARSS 2001), Jul 9-13 2001, Institute of Electrical and Electronics Engineers Inc, Sydney, NSW, 2001.

Mitra, D. S., and T. J. Majumdar (2004), Thermal inertia mapping over the Brahmaputra basin, India using NOAA-AVHRR data and its possible geological applications, *International Journal of Remote Sensing*, 25(16), 3245-3260.

Miura, T., H. Yoshioka, K. Fujiwara, and H. Yamamoto (2008), Inter-comparison of ASTER and MODIS surface reflectance and vegetation index products for synergistic applications to natural resource monitoring, *Sensors*, 8(4), 2480-2499.

Miyazaki, Y., M. Kaku, and W. Hiroshi (1995), DEM Generation with ASTER Stereo Data, *Journal of Remote Sensing Society of Japan*, 15, NO.2(Journal Article), PAGE.182-189.

Miyazaki, Y., M. Kaku, M. Tokumitsu, and H. Seiichi DEM Generation with ASTER Stereo Data, Japan, 1995.

Miyazaki, Y., M. Kaku, and H. Tsu (1996), DEMs (digital terrain models) from ASTER VNIR stereo data; 30th international geological congress; abstracts, *30th international geological congress, Beijing, China, Aug. 4-14, 1996*, 30(Abstract), 463.

Miyazaki, Y., T. Osanai, and H. Watanabe Digital terrain model of JERS-1 data for ASTER VNIR stereo application, paper presented at Proceedings of the 13th Annual International Geoscience and Remote Sensing Symposium IGARSS'93, Aug 18-21 1993, Publ by IEEE, Piscataway, NJ, USA, 1993.

Mobasher, K. (2007), Kinematic and tectonic significance of the fold- and fault-related fracture systems in the Zagros Mountains, southern Iran, 143-2195 pp, Georgia State University; 0079 Advisor: Adviser Hassan A. Babaie.

Mobasher, K., E. H. Hendrix, H. A. Babaie, Z.-Y. Yin, A. A. Hassanipak, M. G. Abdel-Salam, and M. Ghazi (2002), Structural GIS analysis of the Khoy ophiolite

complex, northwestern Iran; Geological Society of America, 2002 annual meeting, *Geological Society of America, 2002 annual meeting, Denver, CO, United States, Oct. 27-30, 2002*, 34(6), 412.

Mobasher, M. R., M. Chahardoli, and M. Farajzadeh (2010), Introducing PASAVI and PANDVI Methods for Sugarcane Physiological Date Estimation, Using ASTER Images, *Journal of Agricultural Science and Technology*, 12(3), 309-320.

Moersch, J. E., J. Farmer, A. Baldrige, A. D. Howard, J. Moore, J. Rice, Lunar, and H. T. X. U. S. Planetary Institute (2001), Remote sensing of evaporite minerals in Badwater Basin, Death Valley, at varying spatial scales and in different spectral regions [Mars analogs] *Rep. 0161-5297*, 45-46 pp, Lunar and Planetary Institute, Houston, TX, United States (USA), United States (USA).

Moersch, J. E., J. Farmer, and S. J. Hook (2000), Detectability of Martian evaporites; terrestrial analog studies with MASTER data; *Lunar and planetary science, XXXI; papers presented to the Thirty-first lunar and planetary science conference, Thirty-first lunar and planetary science conference, Houston, TX, United States, March 13-17, 2000*, 31(Abstract).

Moersch, J. E., S. C. Whisner, C. Hardgrove, D. McCleese, and D. Beaty (2007), Thermophysical characterization of terrestrial analogs for Martian sedimentary features, *Seventh international conference on Mars, Pasadena, CA, United States, July 9-13, 2007*, 1353(Abstract), Abstract 3355.

Moghtaderi, A., F. Moore, and A. Mohammadzadeh (2007), The application of advanced space-borne thermal emission and reflection (ASTER) radiometer data in the detection of alteration in the Chadormalu paleocrater, Bafq region, Central Iran, *Journal of Asian Earth Sciences*, 30(2), 238-252.

Moghtaderi, A., F. Moore, and A. Mohammadzadeh (2008), The application of advanced space-borne thermal emission and reflection (ASTER) radiometer data in the detection of alteration in the Chadormalu Paleocrater, Bafq region, central Iran, *33rd international geological congress, Oslo, Norway, Aug. 6-14, 2008*, 33(Abstract), @Abstract 1185186.

Mollot, L. A., D. Munro, and R. E. Bilby (2007), Classifying fine-scale spatial structure of riparian forests using hyperspectral high-resolution remotely sensed imagery at the Cedar River municipal watershed in western Washington, USA, *Canadian Journal of Remote Sensing*, 33(1-4), 99-108.

Molnia, B. F. (2007), Late nineteenth to early twenty-first century behavior of Alaskan glaciers as indicators of changing regional climate; Climate change impacts on mountain glaciers and permafrost, *Global and Planetary Change*, 56(1-2), 23-56.

Molnia, B. F. (2009), Inventorying and monitoring the recent behavior of Afghanistan's glaciers; debris-covered glaciers, supraglacial lakes, and the potential for catastrophic

flooding (jokulhlaups), *European Geosciences Union general assembly 2009, Vienna, Austria, April 19-24, 2009, 11(Abstract)*, EGU2009-13939.

Molnia, B. F., P. Geissler, and E. Lee (2007), The glacier monitoring component of the USGS Afghanistan project, *Geological Society of America, 2007 annual meeting, Denver, CO, United States, Oct. 28-31, 2007, 39(6)*, 424.

Momose, A., N. Kadowaki, H. Hyodo, T. Yajima, T. Hayashi, and K. Yamamoto (2005), Lithofacies discrimination utilizing polarimetric synthetic aperture radar data in Kalgoorlie area, Australia, *2005 annual meeting for Prospecting of ore deposits held under the auspices of Japan Mining Industry Association, Tokyo, Japan, June 8-10, 2005, 55(1)*, 47-58.

Momose, H., H. Ise, H. Hashimoto, Y. Morimoto, and N. Fujiwara Evaluation of urban natural environment using habitat prediction models of the Great tit as an indicator species, paper presented at JILA the 22th Scientific Research Meeting, Japanese Institute of Landscape Architecture, 2004.

Momose, H., S. i. Kamei, N. Fujiwara, and M. Masahiko Application of the EOS - Terra ASTER data in the survey on the natural environment for wide area, Japan, 2004.

Momose, H., F. Nobuo, H. Ise, H. Hashimoto, and Y. Morimoto (2004), Evaluation of Urban Natural Environment Using Habitat Prediction Models of the Great Tit as an Indicator Species, *Journal of the Japanese Institute of Landscape Architecture, 67, NO.5(Journal Article)*, PAGE.491-494.

Mondino, E. B., F. G. Tonolo, P. Boccardo, and T. Bellone DTMs generation from satellite stereo images: Accuracy tests in mountain region, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology IV, Sep 14-16 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Maspalomas, Spain, 2004.

Montzka, C., M. Canty, P. Kreins, R. Kunkel, G. Menz, H. Vereecken, and F. Wendland (2008), Multispectral remotely sensed data in modelling the annual variability of nitrate concentrations in the leachate, *Environmental Modelling and Software, 23(8)*, 1070-1081.

Montzka, C., M. Canty, R. Kunkel, G. Menz, H. Vereecken, and F. Wendland (2008), Modelling the water balance of a mesoscale catchment basin using remotely sensed land cover data, *Journal of Hydrology, 353(3-4)*, 322-334.

Moon, W. M., and J.-S. Won (2002), Polarimetric synthetic aperture radar (SAR) and geodynamic applications; an overview of a new Earth system observation concept, *Geosciences Journal (Seoul), 6(4)*, 341-346.

Moore, F., F. Rastmanesh, H. Asadi, and S. Modabberi (2008), Mapping mineralogical alteration using principal-component analysis and matched filter processing in the

Takab area, north-west Iran, from ASTER data, *International Journal of Remote Sensing*, 29(10), 2851-2867.

Moreau, J., J.-F. Ghienne, D. P. Le Heron, J.-L. Rubino, and M. Deynoux (2005), 440 Ma ice stream in North Africa, *Geology (Boulder)*, 33(9), 753-756.

Moreira, R. d. C. (2000), Influence of Remote Sensor Band Positioning and Bandwidth and of Atmospheric Effects on the Vegetation Index Determinations, 182-182 pp, Instituto Nacional de Pesquisas Espaciais; Sao Jose dos Campos, Brazil.

Morisette, J. T., L. Giglio, I. Csiszar, and C. O. Justice (2005), Validation of the MODIS active fire product over Southern Africa with ASTER data, *International Journal of Remote Sensing*, 26(19), 4239-4264.

Morisette, J. T., L. Giglio, I. Csiszar, A. Setzer, W. Schroeder, D. Morton, and C. O. Justice (2005), Validation of MODIS active fire detection products derived from two algorithms, *Earth Interactions*, 9(1, paper no. 9), 1-25.

Morita, I., M. Konno, C. Shinada, H. Tashiro, S. Takahashi, K. Hideo, A. Ito, and T. Tachikawa (2005), Shallow Landslide Hazard Assessment using Aster Data, *Nippon Koei Technical Forum*, NO.14(Journal Article), PAGE.33-40.

Morita, I., M. Konno, T. Shu, A. Ito, M. Jun, and T. Tachikawa Shallow landslide hazard assessment using ASTER data part 2 Estimating slope stability using the geotechnical method, Japan, 2005.

Moriyama, M., and K. Arai Error Analysis for T/E separation, Japan, 1997.

Moriyama, M., T. Ishiyama, and Y. Amiki (1994), The Simplified Expression of the Radiative Transfer Equation in the Thermal IR Spectrum, *Reports of the Faculty of Engineering, Nagasaki University*, 24(42), 45-49.

Moriyama, M., and M. Kato Investigation of ASTER VNIR/SWIR atmospheric correction method using together with DEM, Japan, 2004.

Moriyama, M., M. Kato, and T. Tetsushi Error analysis of the Rayleigh-only atmospheric correction in the VNIR/SWIR spectrum, Japan, 2003.

Moriyama, M., M. Kazuhiko, and K. Arai Atmospheric Corection over the Gray Pixels, Japan, 1995.

Moriyama, M., and U. Rika Supervised classification method using spectral reflectance database, Japan, 1997.

Moriyama, M., T. Yano, and K. Norihiro Improvement of the thermoradiometer of the environmental temperature measurement, Japan, 2001.

Morris, J. N., A. J. Poole, and A. G. Klein Retreat of tropical glaciers in Colombia and Venezuela from 1984 to 2004 as measured from ASTER and Landsat images; Proceedings of the 63rd annual eastern snow conference, paper presented at 63rd eastern snow conference, Newark, DE, United States, June 7-9, 2006, United States (USA), 2006.

Motohashi, M., and A. Iwasaki Geometric performance evaluation for satellite images using mutual information, 2006.

Motoi, H., S. Yuji, and T. Matsunaga Estimation of turbidity using multi-date SPOT and ASTER data in coastal lagoon environments, Japan, 2002.

Motoi, H., S. Yuji, T. Matsunaga, and T. Kozu Feasibility study for the estimation of chlorophyll-a concentration using ASTER data in coastal environments, Japan, 2002.

Mouginismark, P., et al. (1991), Analysis of Active Volcanos from the Earth Observing System, *Remote Sensing of Environment*, 36(1), 1-12.

Mouginis-Mark, P. J. (2004), Post Eruption Hazards at Mt. Pinatubo, Philippines; Final ReportRep., 1-14 pp, Hawaii Univ.; Honolulu, HI.

Mousavi, S. R., S. Pirasteh, and A. Amani (2009), Landslides and Active Faults Using Remote Sensing and GIS Techniques in Central Alborz Mountains, Iran, *Disaster Advances*, 2(3), 24-29.

Mueller, K., C. Miller, and A. Boissonade The Utility Of Surface Roughness Datasets in the Modeling of United States Hurricane Property Losses, 2006.

Mukherjee, S. K., and M. G. Abdelsalam (2004), Structural control of the Neoproterozoic Sawawin Banded Iron Formation, Arabian Shield, Saudi Arabia from remote sensing and field studies; Geological Society of America, 2004 annual meeting, *Geological Society of America, 2004 annual meeting, Denver, CO, United States, Nov. 7-10, 2004*, 36(5), 430.

Mukherjee, S. K., M. G. Abdelsalam, and R. Stern (2006), Hyperspectral analysis of the advanced space-borne thermal emission and reflection radiometer (ASTER) data; a case study from the Neoproterozoic Sawawin banded iron formation, Arabian Shield; Geological Society of America, South-Central Section, 40th annual meeting, *Geological Society of America, South-Central Section, 40th annual meeting, Norman, OK, United States, March 6-7, 2006*, 38(1), 8.

Muller, J. P., et al. Dragon project 2558: Exploitation of SAR and optical imagery for monitoring the environmental impacts of The Three Gorges dam, paper presented at 2008 Dragon Symposium - Dragon 1 Programme Final Results 2004-2007, European Space Agency, Noordwijk, 2200 AG, Netherlands, 2008.

Munoz-Salinas, E., M. Castillo-Rodriguez, V. Manea, M. Manea, and D. Palacios (2010), On the Geochronological Method Versus Flow Simulation Software Application for Lahar Risk Mapping: a Case Study of Popocatepetl Volcano, Mexico, *Geografiska Annaler Series A-Physical Geography*, 92A(3), 311-328.

Muraoka, H., M. Hidetoshi, N. Hakan, T. San, and T. Araki Applying data mining method for detecting landslide susceptible area by using ASTER, Japan, 2005.

Muraoka, H., H. Nefeslioglu, S. Taner, and T. Araki Applying data mining method for detecting landslide susceptible area by using ASTER (2), Japan, 2006.

Murayama, N., Y. Nakayama, E. Kunihiko, X. Zheng, and D. Yun Estimation of bathymetric map of Dongting Lake by using satellite data with DEM information, Japan, 2003.

Murphy, M. A., and W. P. Burgess (2006), Geometry, kinematics, and landscape characteristics of an active transtension zone, Karakoram fault system, southwest Tibet, *Journal of Structural Geology*, 28(2), 268-283.

Murphy, S. W., S. F. De, and C. Oppenheimer The spatial extent of thermal anomalies at Lascar Volcano, paper presented at 2010 30th IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Murray, A., B. Eng, C. Leff, and A. Schwarz (1997), Techniques for Unifying Disparate Elements in an EOS Instrument's Product Generation System Development Environment [abstract], *abstract(Abstract)*.

Murray, A., B. Eng, C. Leff, and A. Schwarz (1997), Techniques for Unifying Disparate Elements in an EOS Instrument's Product Generation System Development Environment, edited, pp. 1-14, Jet Propulsion Lab., California Inst. of Tech.; Pasadena, CA.

Murray, A., B. Eng, and K. Thome Implementation of a very large atmospheric correction lookup table for ASTER using a relational database management system, paper presented at Earth observing system; Proceedings of the Conference, Denver, CO; 3-6 Aug. 1996, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, 1996.

Murray, A. T., B. T. Eng, and C. C. Voge (1996), Software For Generation Of ASTER Data ProductsRep. ISSN0145319X; NPO-19701, 60-61 pp, Jet Propulsion Lab., California Inst. of Tech.; Pasadena, CA, United States.

Murray, T., K. Scharrer, T. D. James, S. R. Dye, E. Hanna, A. D. Booth, N. Selmes, A. Luckman, A. L. C. Hughes, and P. Huybrechts (2009), Has dynamic thinning switched

off in south-east Greenland?, *European Geosciences Union general assembly 2009, Vienna, Austria, April 19-24, 2009, 11(Abstract)*, EGU2009-10095.

Musacchio, M., S. Amici, M. Silvestri, S. Teggi, M. F. Buongiorno, S. Silenzi, and S. Devoti Application of CIRILLO: A new atmospheric correction tool on Castel Porziano Beach (CPB), paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology VII, SPIE, Bellingham WA, WA 98227-0010, United States, Florence, Italy, 2007.

Mushkin, A., L. K. Balick, and A. R. Gillespie Temperature/emissivity separation of MTI data using the terra/ASTER TES algorithm, paper presented at Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery VIII, Apr 1-4 2002, The International Society for Optical Engineering, Orlando, FL, United States, 2002.

Mushkin, A., I. Danilina, A. R. Gillespie, L. K. Balick, and M. F. McCabe Roughness effects on thermal-infrared emissivities estimated from remotely sensed images, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology VII, SPIE, Bellingham WA, WA 98227-0010, United States, Florence, Italy, 2007.

Mushkin, A., and A. Gillespie Estimating sub-pixel surface roughness using remotely sensed stereoscopic data, paper presented at 2004 IEEE International Geoscience and Remote Sensing Symposium Proceedings: Science for Society: Exploring and Managing a Changing Planet. IGARSS 2004, Sep 20-24 2004, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, 2004.

Mushkin, A., and A. R. Gillespie (2005), Estimating sub-pixel surface roughness using remotely sensed stereoscopic data, *Scientific Results from ASTER*, 99(1-2), 75-83.

Mushkin, A., S. Kampf, and A. Gillespie (2003), Estimating relative micro-topographic surface roughness using remotely-sensed stereo spectral data; Geological Society of America, 2003 annual meeting, *Geological Society of America, 2003 annual meeting, Seattle, WA, United States, Nov. 2-5, 2003*, 35(6), 168.

Muskett, R. R., C. S. Lingle, J. M. Sauber, A. S. Post, W. V. Tangborn, B. T. Rabus, and K. A. Echelmeyer (2009), Airborne and spaceborne DEM- and laser altimetry-derived surface elevation and volume changes of the Bering Glacier system, Alaska, USA, and Yukon, Canada, 1972-2006, *Journal of Glaciology*, 55(190), 316-326.

Muth, T., D. Grujic, C. Walls, and D. A. Kellett (2008), Geological mapping in northwestern Bhutan using ASTER remote sensing data, *2008 colloquium and annual general meeting of the Atlantic Geoscience Society, Dartmouth, NS, Canada, Feb. 1-2, 2008*, 44(Abstract), 29.

Muukkonen, P., and J. Heiskanen (2005), Estimating biomass for boreal forests using ASTER satellite data combined with standwise forest inventory data, *Remote Sensing of Environment*, 99(4), 434-447.

Muukkonen, P., and J. Heiskanen (2007), Biomass estimation over a large area based on standwise forest inventory data and ASTER and MODIS satellite data: A possibility to verify carbon inventories, *Remote Sensing of Environment*, 107(Journal Article), 617-624.

Myers, J. MODIS and ASTER airborne simulators, paper presented at Earth observing systems IV; Proceedings of the Conference, Denver, CO; UNITED STATES; 18-20 July 1999, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, 1999.

Myers, J. Airborne simulators for the NASA Earth Observing System, paper presented at International Airborne Remote Sensing Conference and Exhibition - Development, Integration, Applications & Operations, 3rd, Copenhagen, Denmark; UNITED STATES; 7-10 July 1997, Ann Arbor, MI: ERIM International, Inc., 1997.

Myers, J., and S. J. Hook (1997), The MODIS/ASTER Simulator (MASTER) - A New Multispectral Airborne Imaging Spectroradiometer for Land Surface Studies, edited, Copenhagen, Denmark.

Myers, W., E. Warner, and R. Tutwiler Poly-Pattern Compressive Segmentation of ASTER Data for GIS, paper presented at Proceedings of the 2006 Civil Commercial Imagery Evaluation Workshop, NASA Stennis Space Center, MS, 2007.

N, F. A., S. T. J, and W. P. Kustas (2002), Estimating evapotranspiration over El Reno, Oklahoma with ASTER imagery, *Agronomie : (Paris)*, 22(Journal Article), 105-106.

N, J. K., N. F. Glasser, I. Stroeve A P, and I. Swift D A (2008), Modification of peripheral mountain ranges by former ice sheets : The Brecon Beacons, Southern UK; Glacial Landscape Evolution - Implications for Glacial Processes, Patterns and Reconstructions, *Geomorphology*, 97(Journal Article), 178-189.

Nagao, N., and S. Omatsu Remote Sensing Data Analysis for ASTER Using SOM and LVQ, paper presented at The 51st Annual Conference of the Institute of Systems, Control and Information Engineers, The Institute of Systems, Control and Information Engineers, 2007.

Nagihara, S., and C. R. Hart (2006), Satellite-based long-term monitoring of saltcedar control along the riparian corridor of the lower Pecos River, Texas, *AAPG 2006 annual convention, Houston, TX, United States, April 9-12, 2006*, 15(Abstract), 77.

Naito, C., and Y. Yasushi Spectral indices for lithologic discrimination using the ASTER SWIR bands, Japan, 1998.

Nakayama, D., K. Sakamoto, and H. Matsuyama New Topographic Correction Method of Satellite Image in the Season of Low Solar Elevation, paper presented at Annual Meeting of the Association of Japanese Geographers, Spring 2008, Association of Japanese Geographers, 2008.

Nakayama, D., K. Sakamoto, and H. Matsuyama (2009), New topographic correction method of satellite image in the season of low solar elevation, *7th international conference on Geomorphology, Melbourne, Victoria, Australia, July 6-11, 2009*, 7(Abstract), @Abstract no. 450.

Nakayama, H., T. Komiya, T. Shimaoka, and T. Ishizaki Relation between vegetation and stabilization of waste in a landfill, paper presented at The 17th Annual Conference of The Japan Society of Waste Management Experts, Japan Society of Waste Management Experts, 2006.

Nakayama, Y., T. Yanagi, S. Yamaguchi, J. Nishimura, and G. Mu (2007), Monitoring of environmental change in Dzungar Basin by the analysis of multi-temporal satellite data sets, *Biological and Physical Processes on Land*, 39(Journal Article), 52-59.

Nan, P., Q. Qin, and Y.-J. Yao (2009), Land surface temperature anomalies and monitoring through thermal remote sensing: a case of coal bed methane area at Jiaozuo, Henan Province, *Beijing Daxue Xuebao (Ziran Kexue Ban)/Acta Scientiarum Naturalium Universitatis Pekinensis*, 45(1), 137-143.

Nan, P., Q.-M. Qin, Y.-J. Yao, and C. Jin Preliminary study on monitoring of land surface temperature at coal mine district by thermal remote sensing, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Nas, B., H. Karabork, S. Ekercin, and A. Berkay (2009), Mapping chlorophyll-a through in-situ measurements and Terra ASTER satellite data, *Environmental monitoring and assessment*, 157(1-4), 375-382.

Nascimento, P. S. d. R., R. A. Petta, D. V. G. Silva, T. A. F. do Nascimento, and T. F. d. C. Campos Geoinformacao aplicada na atividade mineraria do semi-arido do nordeste Brasileiro. Geoinformation applied to mining activities in the semi-arid region of northeastern Brazil, paper presented at Sociedade Brasileira de Geologia; 44 degrees congresso, Curitiba, BRA, Brazil, Oct. 26-31, 2008, Sociedade Brasileira de Geologia, Porto Alegre, Brazil (BRA), Brazil (BRA), 2008.

Nasipuri, P., and A. Chatterjee (2009), Land use around Maithon reservoir: a study from high-resolution ASTER data, *Current science*, 97(1), 25-27.

Nasipuri, P., T. J. Majumdar, and D. S. Mitra (2006), Study of high-resolution thermal inertia over western India oil fields using ASTER data, *Acta Astronautica*, 58(5), 270-278.

Nasuno, I., T. Kurose, K. Takaichi, H. Iimuro, and Y. Fukui (2004), Landcover classification in urban area using ASTER image; Abstracts from the 110th symposium of Society of Exploration Geophysicists of Japan, *110th symposium of Society of Exploration Geophysicists of Japan, Tokyo, Japan, May 25, 2004*, 57(4), 416.

Nauman, T. W., and C. Rasmussen (2008), Digital soil classification for soil survey using ASTER satellite imagery and DEM data in Organ Pipe Cactus National Monument, Arizona, *Geological Society of America, 2008 annual meeting, Houston, TX, United States, Oct. 5-9, 2008*, 40(6), 60.

Navalgund, R. R., V. Jayaraman, and P. S. Roy (2007), Remote sensing applications: An overview, *Current science*, 93(12), 1747-1766.

Neal, C., O. Girina, S. Senyukov, A. Rybin, J. Osiensky, P. Izbekov, and G. Ferguson (2009), Russian eruption warning systems for aviation, *Natural Hazards*, 51(2), 245-262.

Neale, C. M. U. Spatially Distributed Fluxes Obtained with High-Resolution Remote Sensing During SMACEX in Central Iowa (2003 - 17HYDRO), 2003.

Necsoiu, M., S. Leprince, C. Dinwiddie, D. Hooper, and G. Walter (2009), Recent migration rates of the Great Kobuk sand dunes, Alaska; technologic and scientific implications for planetary dune systems, *Fortieth lunar and planetary science conference, Houston, TX, USA, United States, March 23-27, 2009*, 1468(Abstract), 2074.

Necsoiu, M., S. Leprince, D. M. Hooper, C. L. Dinwiddie, R. N. McGinnis, and G. R. Walter (2009), Monitoring migration rates of an active subarctic dune field using optical imagery, *Remote Sensing of Environment*, 113(11), 2441-2447.

Neeck, S. P., C. J. Scolese, and F. Bordi EOS AM-1, paper presented at Proceedings of the 1998 Conference on Sensors, Systems, and Next-Generation Satellites II, Sep 21-24 1998, SPIE, Bellingham, WA, USA, Barcelona, Spain, 1998.

Neeck, S. P., C. J. Scolese, and F. Bordi EOS AM-1: Launch - 9 months, paper presented at Sensors, systems, and next-generation satellites; Proceedings of the Conference, London, United Kingdom, Sept. 22-25, 1997; Bellingham, WA, Society of Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 3221), 1997, p. 150-161, Society of Photo-Optical Instrumentation Engineers, United States, 1997.

Neeck, S. P., C. J. Scolese, and F. Bordi Eos-Am1 - L-2, paper presented at Advanced and next generation satellites II; Proceedings of the Meeting, Taormina, Italy; 23-26 Sept. 1996, Bellingham, WA: Society of Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 2957), 1996.

Neeck, S. P., C. J. Scolese, and F. Bordi EOS-AM1: project update, paper presented at Advanced and Next-Generation Satellites, Sep 25-28 95, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, 1995.

Neeck, S. P., T. J. Venator, and J. T. Bolek Jitter and stability calculation for the ASTER instrument, paper presented at Platforms and Systems, Sep 6 1994, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, Rome, Italy, 1995.

Negishi, Y., M. Suzuki, and K. Noguchi (2003), Sedimentary facies mapping using TERRA/ASTER satellite data; Abstracts for papers submitted for the 2003 technical meeting of the JAPT, *2003 technical meeting of the JAPT, Chiba, Japan, June 24-25, 2003*, 68(4), 308.

Nema, N., K. Asakuma, H. Kuze, and T. Nobuo Examination of the aerosol model derivation method over Chiba area from AVHRR images, Japan, 2001.

Nemani, R., L. Pierce, S. Running, and L. Band (1993), Forest ecosystem process at the watershed scale: sensitivity to remotely-sensed leaf area index estimates, *International Journal of Remote Sensing*, 14(13), 2519-2534.

Nemani, R., L. Pierce, S. Running, and S. Goward (1993), Developing Satellite-Derived Estimates of Surface Moisture Status, *Journal of Applied Meteorology*, 32(3), 548-557.

Nemoto, Y., M. Fukushima, N. Takumi, S. Iwade, H. Yagi, M. Kimata, M. Isoda, K. Furuya, and T. Shigetoshi Design of Multispectral Band Infrared Linear Image Sensor for SWIR in ASTER, Japan, 1991.

Nemoto, Y., F. Mitsuru, Y. Yamaguchi, Y. Onodera, S. Iwade, Y. Yoneda, S. Tanaka, M. Isoda, and F. Kiyotoshi Development of TEG evaluating thermal stress for IRCCD of SWIR in ASTER on EOS -A, Japan, 1991.

Nertan, A., G. Stancalie, A. Iordache, and S. Catana Monitoring and evaluation of the vegetation state of agricultural crops using satellite - derived radiative products, paper presented at RAST 2005. Proceedings of 2nd International Conference on Recent Advances in Space Technologies, 9-11 June 2005, IEEE, Istanbul, Turkey, 2005.

Neto, F. A. (1993), 1st Results on Orienting Simulated Along-Track Satellite Stereoscopic Imagery, *Photogrammetric Record*, 14(81), 439-446.

Netzband, M., and A. Rahman Physical characterisation of deprivation in cities: How can remote sensing help to profile poverty (slum dwellers) in the megacity of Delhi India?), paper presented at Urban Remote Sensing Event, 2009 Joint, IEEE Computer Society, 2009.

Netzband, M., and A. Rahman Physical characterisation of deprivation in cities: How can remote sensing help to profile poverty (slum dwellers) in the megacity of Delhi

India?, paper presented at 2009 Joint Urban Remote Sensing Event, May 20, 2009 - May 22, IEEE Computer Society, Piscataway, NJ, 2009.

Ngcofe, L., H. Minnaar, and L. Chevallier (2010), A comparative study of hyperspectral versus multispectral images as an aid in geological mapping near Alexander Bay, Northern Cape, South Africa, *South African Journal of Geology*, 113(2), 141-154.

Ni, W., Z. Guo, G. Sun, and H. Chi Investigation of forest height retrieval using SRTM-DEM and ASTER-GDEM, paper presented at 2010 30th IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Nicandrou, A., L. A. Mofor, R. Delpak, and R. B. Robinson Hydrological Assessment and Modelling of the River Fani Catchment in Albania using GIS and Remote Sensing, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology V, Sep 8-10 2003, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, 2004.

Nichol, J. (2005), Remote sensing of urban heat islands by day and night, *Photogrammetric Engineering and Remote Sensing*, 71(5), 613-621.

Nichol, J. (2009), An Emissivity Modulation Method for Spatial Enhancement of Thermal Satellite Images in Urban Heat Island Analysis, *Photogrammetric Engineering and Remote Sensing*, 75(5), 547-556.

Nichol, J. E., W. Y. Fung, K.-s. Lam, and M. S. Wong (2009), Urban heat island diagnosis using ASTER satellite images and 'in situ' air temperature, *Atmospheric Research*, 94(2), 276-284.

Nichol, J. E., and M. S. Wong (2008), Spatial variability of air temperature and appropriate resolution for satellite-derived air temperature estimation, *International Journal of Remote Sensing*, 29(24), 7213-7223.

Nichols, D. A., M. Schwaller, M. Pniel, and G. Geller EOSDIS support for the advanced spaceborne thermal emission and reflection radiometer (ASTER), paper presented at Advanced and Next-Generation Satellites, Sep 25-28 95, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, 1995.

Nicholson, L., J. Marin, D. Lopez, A. Rabatel, F. Bown, and A. Rivera (2009), Glacier inventory of the upper Huasco Valley, Norte Chico, Chile; glacier characteristics, glacier change and comparison with central Chile, *World glacier inventory*, 50(53), 111-118.

Nicolas, B., G. Gilles, L. Didier, P. Philippe, and L. Yannick (2005), Apport de l'imagerie satellitaire radar pour l'exploration géologique en zones arides; The contribution of radar satellite imagery to geological exploration in arid areas, *Comptes rendus. Geoscience*, 337(Journal Article), 719-728.

Nicoletti, V., S. Silvestri, F. Rizzetto, L. Tosi, M. Putti, and P. Teatini Use of remote sensing for the delineation of surface peat deposits south of the Venice Lagoon (Italy), paper presented at Learning from Earth's shapes and sizes; 2003 IEEE international geoscience and remote sensing symposium; proceedings, Jul 21-25 2003, Institute of Electrical and Electronics Engineers Inc, 2003.

Nikolakopoulos, K., D. Vaiopoulos, and G. Skianis Monitoring of the environmental changes at Lefkas Island using remote sensing data and GIS techniques, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology V; Bruges; Belgium; 19-20 Sept. 2005, 2005.

Nikolakopoulos, K., D. Vaiopoulos, and G. Skianis Comparing a DTM created with ASTER data to GTOPO 30 and to one created from 1/50.000 topographic maps, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology IV, Sep 14-16 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Maspalomas, Spain, 2004.

Nikolakopoulos, K. G. Pansharpening vs Wavelet vs PCA fusion technique for use with Landsat ETM panchromatic and multispectral data, paper presented at Image and Signal Processing for Remote Sensing X, Sep 13-15 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Maspalomas, Spain, 2004.

Nikolakopoulos, K. G. Use of Vegetation Indexes with ASTER VNIR Data for Burnt Areas Detection in Western Peloponnese, Greece, paper presented at 2003 IGARSS: Learning From Earth's Shapes and Colours, Jul 21-25 2003, Institute of Electrical and Electronics Engineers Inc, Toulouse, France, 2003.

Nikolakopoulos, K. G., and N. Chrysoulakis Updating the 1:50.000 topographic maps using ASTER and SRTM DEM: the case of Athens, Greece, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology VI., SPIE - The International Society for Optical Engineering, 2006.

Nikolakopoulos, K. G., E. K. Kamaratakis, and N. Chrysoulakis (2006), SRTM vs ASTER elevation products. Comparison for two regions in Crete, Greece, *International Journal of Remote Sensing*, 27(21), 4819-4838.

Nikolakopoulos, K. G., and G. Lathourakis Along the track vs across the track satellite stereo-pair for DTM creation, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Nikolakopoulos, K. G., et al. Updating the 1/50.000 geological maps of IGME with remote sensing data, marine geology data, GPS measurements and GIS techniques: The case of KEA Island, paper presented at Remote Sensing for Environmental

Monitoring, GIS Applications, and Geology IX, August 31, 2009 - September 3, SPIE, Bellingham WA, 2009.

Nikolakopoulos, K. G., P. I. Tsombos, and A. Zervakou Evaluating SRTM and ASTER DEM accuracy for the broader area of Sparti, Greece, paper presented at SAR Image Analysis, Modeling, and Techniques IX, SPIE, Bellingham WA, WA 98227-0010, United States, Florence, Italy, 2007.

Nikolakopoulos, K. G., D. A. Vaiopoulos, and G. A. Skianis ASTER DIM vs GTOPO30 and 1/250.000 topographic maps. -The case of Lefkas Island, Greece, paper presented at 2004 IEEE International Geoscience and Remote Sensing Symposium Proceedings: Science for Society: Exploring and Managing a Changing Planet. IGARSS 2004, Sep 20-24 2004, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Anchorage, AK, United States, 2004.

Nikolakopoulos, K. G., D. A. Vaiopoulos, and G. A. Skianis Fusion and Atmospheric Correction Techniques on Multitemporal and Multisensor Satellite data for the Detection of burnt areas in Western Peloponnese, Greece, paper presented at Image and Signal Processing for Remote Sensing IX, Sep 9-12 2003, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Barcelona, Spain, 2004.

Nikolakopoulos, K. G., D. A. Vaiopoulos, and G. A. Skianis Use of multitemporal remote sensing thermal data for the detection of areas with lower temperature in Alfios River basin western Peloponnese, Greece, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology V; Barcelona, Spain; Sep. 8-10, 2003, 2004.

Nikolakopoulos, K. G., D. A. Vaiopoulos, G. A. Skianis, P. Sarantinos, and A. Tsitsikas Combined use of Remote Sensing, GIS and GPS data for landslide mapping, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Ninomiya, Y. Lithologic mapping with multispectral ASTER TIR and SWIR data, paper presented at Sensors, Systems and Next-Generation Satellites VII, Sep 8-10 2003, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Barcelona, Spain, 2004.

Ninomiya, Y. A Stabilized Vegetation Index and Several Mineralogic Indices Defined for ASTER VNIR and SWIR Data, paper presented at 2003 IGARSS: Learning From Earth's Shapes and Colours, Jul 21-25 2003, Institute of Electrical and Electronics Engineers Inc, Toulouse, France, 2003.

Ninomiya, Y. Advanced Remote Lithologic Mapping in Ophiolite Zone with ASTER Multispectral Thermal Infrared Data, paper presented at 2003 IGARSS: Learning From

Earth's Shapes and Colours, Jul 21-25 2003, Institute of Electrical and Electronics Engineers Inc, Toulouse, France, 2003.

Ninomiya, Y. Rock type mapping with indices defined for multispectral thermal infrared ASTER data: Case studies, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology II, Sep 23-26 2002, The International Society for Optical Engineering, Agia Pelagia, Greece, 2002.

Ninomiya, Y. Mapping quartz, carbonate minerals and mafic-ultramafic rocks using remotely sensed multispectral thermal infrared ASTER data, paper presented at Thermosense XXIV, Apr 1-4 2002, The International Society for Optical Engineering, 2002.

Ninomiya, Y., and B. Fu Prospects on estimating SiO<sub>2</sub> content in the surface rocks with ASTER thermal infrared data, Japan, 1999.

Ninomiya, Y., and B. Fu (1999), Potential Applicability of ASTER Thermal Infrared Multispectral Data on Estimation of SiO<sub>2</sub> Content in Surface Rocks, *Journal of Remote Sensing Society of Japan*, 19, NO.5(Journal Article), PAGE.440-453.

Ninomiya, Y., and B. Fu (2002), Quartz Index, Carbonate Index and SiO<sub>2</sub> Content Index Defined for ASTER TIR Data, *Journal of Remote Sensing Society of Japan*, 22, NO.1(Journal Article), PAGE.50-61.

Ninomiya, Y., and B. Fu (2004), A new lithologic mapping with ASTER thermal infrared radiance at the sensor data; Italia 2004; 32nd international geological congress; abstracts, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004*, 32(Abstract), 1325.

Ninomiya, Y., and B. Fu (2006), Lithologic Mapping System for Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) Data, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Ninomiya, Y., B. Fu, and T. J. Cudahy (2006), Corrigendum to "Detecting lithology with Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) multispectral thermal infrared "radiance-at-sensor" data" [Remote Sensing of Environment 99(1-2):127-139 (2005), ASTER special issue] (DOI:10.1016/j.rse.2005.06.009), *Remote Sensing of Environment*, 101(4), 567.

Ninomiya, Y., B. Fu, and K. Ma (1998), Field investigation at Beishan area of China for lithologic mapping with ASTER TIR spectral data; Golden anniversary special issue, *Butsuri-Tansa = Geophysical Exploration*, 51(4), 432-433.

Ninomiya, Y., B. Fu, T. Milne, and B. Cechet Spectral indices for lithologic mapping with ASTER thermal infrared data applying to a part of Beishan Mountains, Gansu, China; IGARSS 2001; Scanning the present and resolving the future; proceedings, paper presented at IEEE 2001 international geoscience and remote sensing

symposium, Sydney, N.S.W., Australia, July 9-13, 2001, Institute of Electrical and Electronics Engineers, New York, NY, United States (USA), United States (USA), 2001.

Ninomiya, Y., B. H. Fu, and T. J. Cudahy (2005), Detecting lithology with Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) multispectral thermal infrared "radiance-at-sensor" data, *Scientific Results from ASTER*, 99(1-2), 127-139.

Ninomiya, Y., B. H. Fu, and T. J. Cudahy (2006), Detecting lithology with Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) multispectral thermal infrared "radiance-at-sensor" data" (vol 99, pg 127, 2005), *Remote Sensing of Environment*, 101(4), 567-567.

Ninomiya, Y., and B. M. K. Fu Field Investigation at Beishan Area of China for Lithologic Mapping with ASTER TIR Spectral Data, Japan, 1998.

Ninomiya, Y., T. Matsunaga, and Y. Yamaguchi Estimation of SiO (sub 2) content using simulated TIR remote sensing data generated from spectra measured on the sawed surfaces of rocks at Cuprite, Nevada, U.S.A; New technology for geosciences, paper presented at 30th international geological congress on New technology for geosciences, Beijing, China, Aug. 4-14, 1996, International Geological Congress, [location varies], International (III), International (III), 1997.

Ninomiya, Y., T. Matsunaga, Y. Yamaguchi, K. Ogawa, S. Rokugawa, K. Uchida, H. Muraoka, and M. Kaku (1997), Comparison of thermal infrared emissivity spectra measured in situ, in the laboratory, and derived from thermal infrared multispectral scanner (TIMS) data in Cuprite, Nevada, USA, *International Journal of Remote Sensing*, 18(7), 1571-1581.

Ninomiya, Y., T. Matsunaga, Y. Yamaguchi, K. Ogawa, S. Rokugawa, K. Uchida, H. Muraoka, and M. Kaku (1997), A comparison of thermal infrared emissivity spectra measured in situ, in the laboratory, and derived from thermal infrared multispectral scanner (TIMS) data in Cuprite, Nevada, U.S.A, *ERIM eleventh thematic conference on Applied geologic remote sensing practical solutions for real world problems*, Las Vegas, NV, United States, Feb. 27-29, 1996, 18(7), 1571-1581.

Ninomiya, Y., T. Matsunaga, Y. Yamaguchi, K. Uchida, H. Muraoka, and M. Kaku (1996), Estimation of SiO (sub 2) content in the surface rocks with an ASTER simulating data set; 30th international geological congress; abstracts, *30th international geological congress, Beijing, China, Aug. 4-14, 1996*, 30(Abstract), 446.

Ninomiya, Y., T. Matsunaga, Y. Yasushi, K. Uchida, H. Muraoka, and K. Manabu Measurements of TIR spectral emissivity at Cuprite, Nevada, Japan, 1995.

Ninomiya, Y., T. Yutaka, B. Fu, and M. K. A basic research for a lithologic mapping using ASTER TIR data in Tibetan area, Japan, 1998.

Nishida, S., J. Hachiya, K. Matsumoto, H. Fujisada, and M. Kato System design and performances of ASTER level-1 data processing, paper presented at Proceedings of the 1998 Conference on Sensors, Systems, and Next-Generation Satellites II, Sep 21-24 1998, SPIE, Bellingham, WA, USA, 1998.

Nishimura, J. i., and Y. Nakayama (2004), Monitoring of environmental changes in Dzungar basin based on the analysis of multi-temporal satellite data, *Proceedings of the Institute of Natural Sciences, Nihon University*, NO.39(Journal Article), PAGE.117-135.

Nonaka, T., H. Akira, and T. Matsunaga Estimation of the water temperature considering the climate of the local areas using ASTER, Japan, 2002.

Nonaka, T., S. Yoriko, T. Matsunaga, M. Moriyama, and H. Tonooka Recalibration of thermal infrared bands of Terra ASTER and Landsat -7 ETM+ using the vicarious and cross calibration results, Japan, 2001.

Nonaka, T., S. Yoriko, T. Matsunaga, M. Moriyama, and H. Tonooka (2002), Radiometric Calibration of Thermal Infrared Bands of Terra ASTER and Landsat -7 ETM+ Using Hot Ground Targets, *Journal of Remote Sensing Society of Japan*, 22,NO. 1(Journal Article), PAGE.62-78.

Nonomura, A., Y. Kawahara, Y. Tanaka, Y. Takeuchi, and Y. Ken Estimation of turbidity and electrical conductivity in Fuchu reservoir by using ASTER data (August 2003), Japan, 2003.

Nonomura, A., T. Masuda, and M. Hitoshi (2006), Estimation of vegetation dynamics affected by wildfire in Naoshima, Kagawa using satellite data, *Journal of the Japanese Society of Revegetation Technology*, 32,NO. 1(Journal Article), PAGE.3-8.

Nonomura, A., and T. Nasuda (2007), A fundamental study for evaluation of vegetation vitality and vegetation fraction with spectral reflectance, *Journal of the Japanese Society of Revegetation Technology*, 33(1), 83-88.

Nonomura, A., M. Yamanaka, S. Hasegawa, M. Takuro, and S. Miyagawa (2004), Estimating soil moisture for afforestation using Terra / ASTER satellite data, *Journal of the Japanese Society of Revegetation Technology*, 30,NO. 1(Journal Article), PAGE.92-97.

Nori, W., H. M. Sulieman, and I. Niemeyer Detection of land cover changes in El Rawashda Forest, Sudan: A systematic comparison, paper presented at Geoscience and Remote Sensing Symposium,2009 IEEE International,IGARSS 2009, IEEE, 2009.

Norman, J. M., M. C. Anderson, W. P. Kustas, A. N. French, J. Mecikalski, R. Torn, G. R. Diak, T. J. Schmugge, and B. C. W. Tanner (2003), Remote sensing of surface energy fluxes at 101-m pixel resolutions, *Water Resources Research*, 39(8), 91-917.

North, W., and D. C. Perkins (2001), EOSDIS Terra CD Data Sampler 2: Mount Oyama Eruption Forces Evacuation; 1.0Rep. NASA/NP-2000-11-132-GSFC;NAS 1.83:11-132-GSFC;NONP-NASA-CD-2002075677, cd-rom pp, NASA Goddard Space Flight Center; Greenbelt, MD.

Nosenko, G., A. Glazovsky, D. Tsvetkov, and G. Osipova Glacier changes in the polar Urals during XX century from historical data, ASTER and Landsat, paper presented at Earth: Our Changing Planet. Proceedings of IUGG XXIV general assembly, Perugia, ITA, Italy, July 2-13, 2007, IUGG, [location varies], International (III), International (III), 2007.

Nossenko, G., and D. G. Tzvetkov Assessment of glaciers change on Polar Urals from ASTER imagery; Papers and recommendations; Snow watch 2002 workshop and workshop on Assessing global glacier recession, paper presented at Snow watch 2002 workshop and workshop on Assessing global glacier recession, Camp Spring, MD, United States, Oct. 31-Nov. 1, 2002, National Snow and Ice Data Center/World Data Center for Glaciology, Boulder, CO, United States (USA), United States (USA), 2003.

Notarnicola, C. Environmental changes induced by dump pollution analyzed through historical orthophotos and multi-spectral images, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology VI, Sep 13-14 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, Stockholm, Sweden, 2006.

Novikova, Y., T. Cudahy, S. A. Wilde, and S. Lang (2008), Mapping mineral alteration associated with onshore hydrocarbon seepage using ASTER and Hyperion data, *AESC 2008 19th Australian geological convention, Perth, West. Aust., Australia, July 20-24, 2008*, 89(Abstract), 189-190.

Nowicki, S. A. (2002), Annual Nighttime Surface Temperature Variation of Phoenix from ASTER Data, *AGU Spring Meeting Abstracts*, 52(Abstract), 02.

Nowicki, S. A. (2007), Data fusion, compression, and visualization of thermal and visible imagery for remote analysis of geologic surfaces on Earth and MarsRep., 71-72 pp, U. S. Geological Survey, Reston, VA, United States (USA).

Nuimura, T., and K. Fujita Glacier variation analysis using with remote sensing data and topographical map in Khumbu Himal, Nepal Himalayas, paper presented at The 2007 Conference Japanese Society of Snow and Ice, Japanese Society of Snow and Ice, 2007.

Nuimura, T., K. Fukui, K. Asahi, and Y. Ageta The surface change of Khumbu Glacier based on GPS survey and ASTER imagery Khumbu Himal, eastern Nepal, between 1995 to 2004, paper presented at The 2005 Conference Japanese Society of Snow and Ice, Japanese Society of Snow and Ice, 2005.

Nuimura, T., K. Fukui, K. Asahi, K. Fujita, and Y. Ageta (2006), Surface lowering and flow speed decrease of Khumbu Glacier detected from GPS survey and ASTER-DEM, in Nepal Himalayas between 1995 and 2004, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Numata, Y., K. Saito, Y. Yamano, Y. Yasuoka, and M. Kaku Ground Based Observation of Vegetation Coverage, LAI and APAR to Develop New Vegetation Indices Algorithm for ASTER, paper presented at International Symposium on Vegetation Monitoring, Chiba, Japan, Aug. 29-31, 1995, Proceedings, Chiba University, Chiba, Japan, 1995.

Numata, Y., K. Saito, Y. Yoshiki, Y. Yasuoka, and M. Kaku Development of vegetation index algorithm using ASTER data. (Part 2 ), Japan, 1995.

Numata, Y., K. Saito, Y. Yoshiki, Y. Yasuoka, and M. Kaku Remote sensing .3 Development of vegetation index algorithm by ASTER data.(1), Japan, 1995.

Numata, Y., Y. Yamano, Y. Takatsuki, A. Koizumi, M. Hayashi, S. Kazuya, Y. Yasuoka, and M. Kato Development of methodology for wetland mapping using ASTER data, Japan, 1997.

Nye, C. J. (2006), Introduction to Augustine Volcano and Overview of the 2006 Eruption, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Obayashi, S., H. Kojima, and F. Akihiro Applicability of the ASTER data in the construction fields, Japan, 2001.

Obayashi, S., K. Naoto, H. Matsuyama, T. Sho, and H. Iyoda Applicability of the ASTER data for the slope stability evaluation, Japan, 2001.

Ochi, S., M. Nakamura, W. Takeuchi, and Y. Yasuoka (2003), Assessment of Vegetation Impact to Urban Heat Island using Remote Sensing Data, *SEISAN KENKYU*, 55(2), 222-225.

Oda, Y., T. Yoshinaga, K. Koike, and F. Yamada (2007), Detecting geological information of tideland sediments by remote sensing technique, *Geoinforum-2007 annual meeting*, 18(2), 120-121.

Odagiri, J. i., R. Shuichi, H. Murakami, S. Hara, Y. Miyazaki, and M. Kato A Study on Accuracy of Global DEM with ASTER Simulation Data(2), Japan, 1997.

Odeh, T., R. Gloaguen, M. Schirmer, S. Geyer, T. Rodiger, and C. Siebert Exploration of Wadi Zerka Ma'in rotational fault and its drainage pattern, Eastern of Dead Sea, by means of remote sensing, GIS and 3D geological modeling, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology IX, August 31, 2009 - September 3, SPIE, Bellingham WA, 2009.

Ogawa, K., and T. Schmugge (2003), Estimating broadband emissivity of North Africa using satellite thermal infrared multispectral radiometers, *AGU Fall Meeting Abstracts*, 22(Abstract), 0951.

Ogawa, K., and T. Schmugge (2004), Mapping Surface Broadband Emissivity of the Sahara Desert Using ASTER and MODIS Data, *Earth Interactions*, 8(7), 1-14.

Ogawa, K., T. Schmugge, and F. Jacob (2002), Estimation of Land Surface Window (8-12  $\mu\text{m}$ ) Emissivity from Multi-Spectral Thermal Infrared Remote Sensing --A Case Study in a Part of Sahara Desert, *AGU Fall Meeting Abstracts*, 72(Abstract), 0893.

Ogawa, K., T. Schmugge, F. Jacob, and A. French Mapping Land Surface Window (8-12  $\mu\text{m}$ ) Emissivity from ASTER Thermal Data, paper presented at 2003 IGARSS: Learning From Earth's Shapes and Colours, Jul 21-25 2003, Institute of Electrical and Electronics Engineers Inc, Toulouse, France, 2003.

Ogawa, K., T. Schmugge, F. Jacob, and A. French Estimation of broadband emissivity from satellite multi-channel thermal infrared data using spectral libraries, paper presented at 2002 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2002), Jun 24-28 2002, Institute of Electrical and Electronics Engineers Inc, Toronto, Ont., Canada, 2002.

Ogawa, K., T. Schmugge, F. Jacob, and A. French (2002), Estimation of broadband land surface emissivity from multi-spectral thermal infrared remote sensing, *Agronomie*, 22(6), 695-696.

Ogawa, K., T. Schmugge, F. Jacob, and A. French (2003), Estimation of land surface window (8-12 micro m) emissivity from multi-spectral thermal infrared remote sensing-A case study in a part of Sahara Desert, *Geophysical Research Letters*, 30(2), 4.

Ogawa, K., T. Schmugge, and S. Rokugawa Estimating thermal infrared broadband emissivity of arid region using remote sensing, paper presented at Multispectral and Hyperspectral Remote Sensing Instruments and Applications II, Nov 9-11 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Honolulu, HI, United States, 2005.

Ogawa, K., T. Schmugge, and S. Rokugawa (2008), Estimating broadband emissivity of arid regions and its seasonal variations using thermal infrared remote sensing, *IEEE Transactions on Geoscience and Remote Sensing*, 46(2), 334-343.

Ogi, N., T. Sato, F. Mitsuru, H. Aoka, S. Akagi, K. Minoru, Y. Aoki, O. Hidehiko, and M. Kawada On Board Performance of the Cryocoolers on ASTER SWIR and TIR, Japan, 2004.

Ohgi, N., A. Iwasaki, T. Kawashima, and H. Inada Japanese hyper-multi spectral mission, paper presented at 2010 30th IEEE International Geoscience and Remote

Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Ohmae, H. ASTER TIR subsystem and calibration, paper presented at NASA. Goddard Space Flight Center, The Fifth Calibration/Data Product Validation Panel Meeting 24 p (SEE N94-23595 06-43); UNITED STATES, 1992.

Ohmae, H., S. Kitamura, and M. Niwa (1994), Overview of Thermal Infrared Radiometer on ASTER, *Advances in Space Research*, 14(3), 4; p. (3)151-(153)154.

Ohmae, H., T. Maekawa, Y. Aoki, and S.-i. Kitamura Preflight test results of ASTER TIR flight model, paper presented at Sensors, systems, and next-generation satellites; Proceedings of the Conference, London, United Kingdom; 22-25 Sept. 1997, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, 1997.

Ohno, T., H. Watanabe, T. Kawakami, S. Fujita, and R. H. Cohen Data acquisition scheduling algorithm for multi-telescope instrument with pointing function, paper presented at Advanced and next generation satellites II; Proceedings of the Meeting, Taormina, Italy; 23-26 Sept. 1996, Society of Photo-Optical Instrumentation Engineers, WA, 1996.

Ok, A. O., and M. Turker DEM generation and accuracy assessment from stereo ASTER imagery, paper presented at RAST 2005. Proceedings of 2nd International Conference on Recent Advances in Space Technologies, 9-11 June 2005, IEEE, 2005.

Okada, K. Strategic significance of advanced mineral and lithological mapping based on hyperspectral remote sensing for mineral exploration; perspective of next generation satellite-borne sensors as successors to ASTER; To measure is to manage; 12th Australasian remote sensing and photogrammetry conference proceedings, paper presented at 12th Australasian remote sensing and photogrammetry conference, Fremantle, West. Aust, Spatial Sciences Institute, Deakin West, Australia (AUS), Australia (AUS), 2004.

Okada, K., and M. Ishii Mineral and lithological mapping using thermal infrared remotely sensed data from ASTER simulator, paper presented at Proceedings of the 13th Annual International Geoscience and Remote Sensing Symposium IGARSS'93, Aug 18-21 1993, Publ by IEEE, Piscataway, NJ, USA, 1993.

Okada, K., M. Oshii, I. Kohno, and C.-J. F. Chung Mineral and lithological mapping using remotely sensed data from ASTER, paper presented at 1994 International Association for Mathematical Geology annual conference including the International symposium for mineral exploration (ISME'94) and Geochautauqua '94, Mont Tremblant, QC, International Association for Mathematical Geology, 1994.

Okai, M., and H. Tonooka Early results of surface emissivity estimation in the 10 .MU.m-CO<sub>2</sub> band usin ASTER/MODIS data, 2006.

Okazaki, R., M. Funahashi, M. Setojima, I. Yasuteru, and S. Hara Examination about understanding of the difference of forest characteristic by using ASTER nadir and backward image, Japan, 2004.

Okochi, Y., A. Ootubo, M. Kuniyasu, T. Ezaka, and T. Tachikawa (2004), Information map for disaster prevention using ASTER data; Abstracts from the 110th symposium of Society of Exploration Geophysicists of Japan, *110th symposium of Society of Exploration Geophysicists of Japan, Tokyo, Japan, May 25, 2004*, 57(4), 416.

Okubo, Y., M. Kaku, S. Rokugawa, and H. Tsu (2002), Remote-sensing survey for coastal environmental change in Asia; Society of Exploration Geophysicists, international exposition and 72nd annual meeting; technical program, expanded abstracts with authors' biographies, *Society of Exploration Geophysicists, 72nd annual meeting, Salt Lake City, UT, United States, Oct. 6-11, 2002*, 72(Abstract), 2435-2438.

Okubo, Y., S. Rokugawa, and H. Tsu (2004), Remote-sensing survey for coastal environmental change in Thailand; Italia 2004; 32nd international geological congress; abstracts, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004*, 32, Part 2(Abstract), 1184.

Okuda, T., and A. Iwasaki Estimation of satellite pitch attitude from ASTER image data, paper presented at 2010 30th IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Okumura, H., R. Yamasaki, T. Goto, and K. Arai Change detection method for remotely sensed images based on multivariate analysis method and statistical test, paper presented at Image and Signal Processing for Remote Sensing XV, August 31, 2009 - September 3, SPIE, Berlin, Germany, 2009.

Olariu, C., R. J. Stern, and J. P. Bhattacharya (2002), The Red River delta, Lake Texoma; a remote sensing study of delta; Geological Society of America, South-Central Section, 36th annual meeting, *Geological Society of America, South-Central Section, 36th annual meeting, Alpine, TX, United States, Apr. 11-12, 2002*, 34(3), 31.

Olaya, W., E. Espinola, S. Yepez, and F. Urbani (2007), Revision geologica de la Isla La Blanquilla mediante el uso de sensores remotos. Geology of La Blanquilla Island by means of remote sensing; Memorias del IX congreso geologico venezolano. Memoirs of the IX Venezuelan geological congress, *IX congreso geologico venezolano, Caracas, Venezuela, Oct. 21-25, 2007*, 39(Journal Article), 7.

Oleson, R., and J. Walkes (2006), NASA LP DAAC and USGS EROS data; what we have and where to get it; Proceedings of the U.S. Geological Survey Sixth biennial geographic information science workshopRep., 32-33 pp, United States (USA).

Oliveira, G. D., S. B. A. Rolim, P. C. De Mello-Farias, A. Meneguzzi, and C. Lutckmeier (2008), Industrial pollution of environmental compartments in the Sinos River Valley, RS, Brazil: Geochemical-biogeochemical characterization and remote sensing, *Water, air, and soil pollution*, 192(1-4), 183-198.

Oliver, S., and S. van der Wielen (2006), Mineral mapping with ASTER, *Aus Geo News*, 82(Journal Article).

O'Neill, M. A., and I. J. Dowman (1993), Simulation study of the ASTER sensor using a versatile general purpose rigid sensor modelling system, *International Journal of Remote Sensing*, 14(3), 565-582.

Ono, A. Concept of ASTER calibration requirement, paper presented at NASA. Goddard Space Flight Center, The Fifth Calibration/Data Product Validation Panel Meeting 18 p (SEE N94-23595 06-43); UNITED STATES, 1992.

Ono, A. (1991), Special Issue on Aerospace Toward the 21st Century. Optical Sensors for Earth Observation, *Journal of the Society of Instrument and Control Engineers*, 30, NO. 10(Journal Article), PAGE.905-910.

Ono, A., and S. Fumihiro (1996), Earth Environment Observing System and Ground Information System. Optical Imager ASTER and its Calibration, *Journal of the Society of Instrument and Control Engineers*, 35, NO. 9(Journal Article), PAGE.675-678.

Ono, A., and F. Sakuma ASTER instrument calibration plan, paper presented at Sensor systems for the early earth observing system platforms; Proceedings of the Conference, Orlando, FL; UNITED STATES; 13-14 Apr. 1993, Bellingham, WA: Society for Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 1939), 1993.

Ono, A., and F. Sakuma ASTER calibration concept, paper presented at Future European and Japanese Remote-Sensing Sensors and Programs, Apr 1-2 1991, Publ by Int Soc for Optical Engineering, Bellingham, WA, USA, 1991.

Ono, A., F. Sakuma, K. Arai, Y. Yamaguchi, H. Fujisada, P. N. Slater, K. J. Thome, F. D. Palluconi, and H. H. Kieffer (1996), Preflight and In-flight Calibration Plan for ASTER, *Bulletin of NRLM*, 45(4), 376.

Ono, A., F. Sakuma, K. Arai, Y. Yamaguchi, H. Fujisada, P. N. Slater, K. J. Thome, F. D. Palluconi, and H. H. Kieffer (1996), Preflight and in-flight calibration plan for ASTER, *Journal of Atmospheric and Oceanic Technology*, 13(2), 321-335.

Ono, M. Parallax error correction techniques by image matching for ASTER/SWIR band-to-band registration, paper presented at Platforms and Systems, Sep 6 1994, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, Rome, Italy, 1995.

Ooka, T., K. Kojima, N. Masuda, and K. Hirose (2002), Technology development of remote sensing with ASTER data, *2002 annual meeting of Japan Mining Industry Association, Tokyo, Japan, June 12-14, 20002*, 52(1), 45-49.

Oppenheimer, C. (1993), Infrared Surveillance of Crater Lakes using Satellite Data, *Journal of Volcanology and Geothermal Research*, 55(1-2), 117-128.

Oppenheimer, C. (1996), Crater lake heat losses estimated by remote sensing, *Geophysical Research Letters*, 23(14), 1793-1796.

Oppenheimer, C. (1997), Remote sensing of the colour and temperature of volcanic lakes, *International Journal of Remote Sensing*, 18(1), 5-7.

Oppenheimer, C., and A. McGonigle Remote sensing of volcanic plumes, paper presented at Workshop-short course on Volcanic systems geochemical and geophysical monitoring; melt inclusions; methods, applications and problems, Naples, De Frede Editore, Naples, Italy (ITA), Italy (ITA), 2002.

Oppenheimer, C., and G. Yirgu (2002), Thermal imaging of an active lava lake; Erta 'Ale Volcano, Ethiopia, *International Journal of Remote Sensing*, 23(22), 4777-4782.

Ori, G. G., G. Diachille, G. Komatsu, L. Marinangeli, and A. P. Rossi (2007), River morphologies and palaeodrainages of western Africa (Sahara and Sahel) during humid climatic conditions, in *Sedimentary processes, environments and basins; a tribute to Peter Friend*, edited by G. Nichols, E. A. Williams and C. Paola, pp. 519-533, Blackwell, Oxford.

Ormeci, C., and S. Ekercin Water quality monitoring using satellite image data: A case study around the Salt Lake in Turkey, paper presented at Remote Sensing of the Ocean, Sea Ice, and Large Water Regions 2005, Sep 19-20 2005, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, Bruges, Belgium, 2005.

Osaki, K. Vegetation analysis in urban area by nested variogram model, Japan, 2005.

Osaki, K. Simulated analysis of dependency of vegetation index on spatial resolution of sensors by QuickBird and ASTER, paper presented at Image and Signal Processing for Remote Sensing X, Sep 13-15 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Maspalomas, Spain, 2004.

Osaki, K. Estimation of dependence of spatial resolution on vegetation index by ASTER and MODIS, paper presented at 2002 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2002), Jun 24-28 2002, Institute of Electrical and Electronics Engineers Inc, Toronto, Ont., Canada, 2002.

Osaki, K. Comparison of normalized vegetation index by ASTER with by MODIS in Tokyo, Japan, 2002.

Osawa, N., and O. Susumu Monitoring a volcanic plume at Miyake Island with satellite data, Japan, 2006.

Osinska-Skotak, K. (2007), Studies of soil temperature on the basis of satellite data, *International Agrophysics*, 21(3), 275-284.

Osipov, E. Y. (2007), GIS reconstruction of LGM glaciation and climate in Lake Baikal watershed, *9th European Geosciences Union General Assembly, Vienna (Austria)*, 15-20 Apr 2007(Abstract).

Oskin, M., and D. W. Burbank (2005), Alpine landscape evolution dominated by cirque retreat, *Geology (Boulder)*, 33(12), 933-936.

Oskouei, M. M. Integrated use of Hyperion and ASTER data for alteration mapping, paper presented at Earth Resources and Environmental Remote Sensing/GIS Applications, September 21, 2010 - September 23, SPIE, Bellingham, WA, 2010.

Osterloo, M. M. (2006), Structural analysis of an extensional basin in south-central Oregon; strain quantification using field and remote sensing data sets from Warner Valley, Indiana University at Bloomington, Bloomington, IN, United States (USA), United States (USA).

Osterloo, M. M., S. P. Brumby, B. J. Douglas, D. B. Finkelstein, H. O. Funsten, and L. L. Pratt (2005), Analysis of Fracture Alignment and Hydrothermal Flow in Accommodation Zones That Link Facing Half-Grabens, Oregon Basalt Plateau, *AGU Spring Meeting Abstracts*, 86(18 suppl.), S41C-04.

Ottle, C., and M. Stoll (1993), Effect of Atmospheric Absorption and Surface Emissivity on the Determination of Land-Surface Temperature from Infrared Satellite Data, *International Journal of Remote Sensing*, 14(10), 2025-2037.

Ouyang, W., F. Hao, J. Zhang, M. Zhang, and F. Yongshuo The desert disturbance analysis of regional oil exploitation by Aster and ETM images in northwest of China, paper presented at 22nd Annual ACM Symposium on Applied Computing, ACM, New York, NY, USA, 2007.

Owe, M., and G. D'Urso Remote Sensing for Agriculture, Ecosystems, and Hydrology III; Proceedings of the conference, Toulouse, France, Sept. 17-19, 2001, paper presented at UNITED STATES, the International Society for Optical EngineeringProceedings of SPIE, the International Society for Optical Engineering, 2002.

Owe, M., G. D'Urso, and L. Toullos Proceedings of SPIE: Remote Sensing for Agriculture, Ecosystems, and Hydrology IV, paper presented at Remote Sensing for Agriculture Ecosystems, and Hydrology IV, Sep 22-25 2002, The International Society for Optical Engineering, 2002.

Owiyo, T. M. (2006), Assessment of land degradation attributes using near infrared spectroscopy, spatial modeling and satellite data in a tropical landscape, 152-5300 pp, Cornell University; 0058 Advisor: Adviser Stephen DeGloria.

Ozdemir, I., D. A. Norton, U. Y. Ozkan, A. Mert, and O. Senturk (2008), Estimation of tree size diversity using object oriented texture analysis and aster imagery, *Sensors*, 8(8), 4709-4724.

Ozeki, M., M. Hotta, M. Kawakami, and O. Koichi (2006), Survey and research on the maintenance and regeneration of natural environment in Kirigamine. Actual conditions of vegetational changes in Kirigamine, *Kirigamine ni okeru Shizen Kankyo no Hozen to Saisei ni kansuru Chosa Kenkyu Heisei 16-17 Nendo Naganoken Kankyo Hozen Kenkyujo Kenkyu Purojekuto Seika Hokoku 4*(Journal Article), PAGE.17-24.

Oztan, N. S., and M. L. Suzen Evaporate mapping in Bala region (Ankara) by remote sensing techniques, paper presented at 4th International Conference on Recent Advances in Space Technologies 2009, RAST '09, June 11, 2009 - June 13, IEEE Computer Society, Istanbul, Turkey, 2009.

Ozyavas, A. (2007), Application of radar altimetry and multi temporal satellite imagery to confirm climatic changes affecting water level of Caspian Sea, *Geological Society of America, 2007 annual meeting, Denver, CO, United States, Oct. 28-31, 2007*, 39(6), 218.

Paeth, H. (2007), A contribution to sustainable forest management in Patagonia. - Object-oriented classification and forest parameter extraction based on ASTER and landsat ETM plus data, *Erdkunde*, 61(2), 218-219.

Page, W. R., B. E. Hubbard, J. S. Duval, H. W. Folger, A. E. McCafferty, J. W. Parcher, and Z. D. Wilson (2006), Template for compiling bi-national geologic map datasets in the US-Mexico border region; an example from Southern Texas and northern Mexico, US-Mexico border environmental health initiative; Geological Society of America, South-Central Section, 40th annual meeting, *Geological Society of America, South-Central Section, 40th annual meeting, Norman, OK, United States, March 6-7, 2006*, 38(1), 7.

Paguican, E. M. R., A. M. F. Lagmay, K. S. Rodolfo, R. S. Rodolfo, A. M. P. Tengonciang, M. R. Lapus, E. G. Baliatan, and E. C. Obille, Jr. (2009), Extreme rainfall-induced lahars and dike breaching, 30 November 2006, Mayon Volcano, Philippines, *Bulletin of Volcanology*, 71(8), 845-857.

Palluconi, F., G. Hoover, R. Alley, M. Jentoft-Nilsen, and T. Thompson (1999), Advanced Spaceborne Thermal Emission & Reflection Radiometer Algorithm Theoretical Basic Document for: An Atmospheric Correction Method for ASTER Thermal Radiometry Over LandRep., 1-29 pp, Jet Propulsion Lab., California Inst. of Tech.; Pasadena, CA.

Palluconi, F., A. B. Kahle, G. Hoover, and J. E. Conel The spectral emissivity of prairie and pasture grasses at Konza Prairie, Kansas, paper presented at Symposium on FIFE - First ISLSCP Field Experiment, Anaheim, CA; UNITED STATES; 7-9 Feb. 1990, Boston, MA, American Meteorological Society, 1990.

Palluconi, F., H. Tonooka, S. Hook, A. Abtahi, R. Alley, T. Thompson, G. Hoover, and S. Zadourian EOS ASTER thermal infrared band vicarious calibration, paper presented at Sensors, Systems, and Next-Generation Satellites V, Sep 17-20 2001, The International Society for Optical Engineering, 2001.

Palluconi, F. D. Validation of the ASTER thermal infrared surface radiance data product, paper presented at Earth observing system; Proceedings of the Conference, Denver, CO; 3-6 Aug. 1996, Society of Photo-Optical Instrumentation Engineers, WA, 1996.

Pan, G., and D. Tang (2010), Damage information derived from multi-sensor data of the Wenchuan Earthquake of May 2008, *International Journal of Remote Sensing*, 31(13), 3509-3519.

Panday, P. K., H. N. N. Bulley, U. Haritashya, K. Frey, and J. Rogan Supraglacial lake assessment in the Sagarmatha region of Nepal Himalaya, paper presented at Association of American Geographers 2009 annual meeting, Las Vegas, NV, United States, March 22-27, 2009, Association of American Geographers, Washington, DC, United States (USA), United States (USA), 2009.

Pani, D., and S. Loddo (2004), Fire related change detection analysis using multitemporal remotely sensed data; Italia 2004; 32nd international geological congress; abstracts, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004, 32, Part 2(Abstract)*, 1181-1182.

Pantaleoni, E. (2007), Assessing coastal plain wetland composition using advanced spaceborne thermal emission and reflection radiometer imagery, 147-2192 pp, Virginia Polytechnic Institute and State University; 0247 Advisor: Advisers John M. Galbraith Randolph H. Wynne.

Pantaleoni, E., R. H. Wynne, J. M. Galbraith, and J. B. Campbell (2009), A logit model for predicting wetland location using ASTER and GIS, *International Journal of Remote Sensing*, 30(9), 2215-2236.

Pantaleoni, E., R. H. Wynne, J. M. Galbraith, and J. B. Campbell (2009), Mapping wetlands using ASTER data: a comparison between classification trees and logistic regression, *International Journal of Remote Sensing*, 30(13), 3423-3440.

Paradella, W. R., and C. G. De Oliveira Evaluation of the altimetric information from RADARSAT-1, ASTER and SRTM data for topographic mapping in the Amazon Region, paper presented at 2007 IEEE International Geoscience and Remote Sensing

Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Parcharidis, I., K. Pavlopoulos, M. Poscolieri, and P. Kourkouli (2009), Using time series of satellite Earth's observation data to determine geomorphological and paleogeographical changes at the South eastern coastal areas of Gokceada (Imvros) island (Turkey), *Zeitschrift Fur Geomorphologie*, 53(Journal Article), 139-149.

Parra, J. G., and J. M. Stock (2003), Volcanic hazards assessment using remote sensing data from the Tres Virgenes volcanic complex, Baja California Sur, Mexico; Geological Society of America, Cordilleran Section, 99th annual meeting, *Geological Society of America, Cordilleran Section, 99th annual meeting, Puerto Vallarta, Mexico, April 1-3, 2003*, 35(4), 17.

Paskaleva, B., M. M. Hayat, J. S. Tyo, Z. Wang, and M. Martinez Feature selection for spectral sensors with overlapping noisy spectral bands, paper presented at Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery XII, Apr 17-20 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, Kissimmee, FL, United States, 2006.

Patrick, M., K. Dean, and J. Dehn (2004), Active mud volcanism observed with Landsat 7 ETM+, *Journal of Volcanology and Geothermal Research*, 131(3-4), 307-320.

Patrick, M. R., J. L. Smellie, A. J. L. Harris, R. Wright, K. Dean, P. Izbekov, H. Garbeil, and E. Pilger (2005), First recorded eruption of Mount Belinda Volcano (Montagu Island), South Sandwich Islands, *Bulletin of Volcanology*, 67(5), 415-422.

Paul, F. (2006), The new Swiss glacier inventory 2000; application of remote sensing and GIS, 1-194 pp, Universitaet Zuerich, Geographisches Institut, Zurich, Switzerland (CHE); Universitaet Zuerich, Zurich, Switzerland (CHE), Switzerland (CHE).

Paul, F., and L. M. Andreassen (2009), A new glacier inventory for the Svartisen region, Norway, from Landsat ETM plus data: challenges and change assessment, *Journal of Glaciology*, 55(192), 607-618.

Paul, F., C. Huggel, and A. Kaab (2004), Combining satellite multispectral image data and a digital elevation model for mapping debris-covered glaciers, *Remote Sensing of Environment*, 89(4), 510-518.

Paul, F., A. Kaab, and W. Haeberli (2007), Recent glacier changes in the Alps observed by satellite: Consequences for future monitoring strategies, *Global and Planetary Change*, 56(1-2), 111-122.

Paul, F., A. Kaaeab, and J.-O. Hagen (2005), Perspectives on the production of a glacier inventory from multispectral satellite data in Arctic Canada; Cumberland Peninsula, Baffin Island; Papers from the International symposium on Arctic glaciology,

*International symposium on Arctic glaciology, Geilo, Norway, Aug. 23-27, 2004, 42(Journal Article), 59-66.*

Paul, F., and F. Svoboda (2009), A new glacier inventory on southern Baffin Island, Canada, from ASTER data; II, Data analysis, glacier change and applications, *European Geosciences Union general assembly 2009, Vienna, AUT, Austria, April 19-24, 2009, 11(Abstract)*, EGU2009-11436.

Paul, F., and F. Svoboda (2009), A new glacier inventory on southern Baffin Island, Canada, from ASTER data; II, Data analysis, glacier change and applications, *World glacier inventory*, 50(53), 22-31.

Pavelsky, T. M., and L. C. Smith (2009), Remote sensing of suspended sediment concentration, flow velocity, and lake recharge in the Peace-Athabasca Delta, Canada, *Water Resources Research*, 45(11), W11417.

Payan, V. (2003), Caracterisation de l'emissivite des surfaces terrestres a partir de donnees multispectrales en infrarouge median et thermique (French and English text), 98-806 pp, Universite de Sherbrooke (Canada); 0512 Advisor: Directeur Alain Royer.

Payan, V., and A. Royer (2004), Analysis of Temperature Emissivity Separation (TES) algorithm applicability and sensitivity, *International Journal of Remote Sensing*, 25(1), 15-37.

Payan, V., and A. Royer (2004), Spectral emissivity of northern land cover types derived with MODIS and ASTER sensors in MWIR and LWIR, *Canadian Journal of Remote Sensing*, 30(2), 150-156.

Peet, V. M., M. S. Ramsey, and D. A. Crown (2006), Terrestrial volcanic and impact analogs to small Martian craters; utilizing remote sensing and field-based datasets to analyze formation and sediment transport processes; Lunar and planetary science, XXXVII; papers presented to the Thirty-seventh lunar and planetary science conference, *Thirty-seventh lunar and planetary science conference, Houston, TX, United States, March 13-17, 2006*, 37(Abstract).

Peet, V. M., M. S. Ramsey, and D. A. Crown (2007), Remote sensing analyses of small terrestrial volcanic and impact craters; a Mars analog for formation, morphology, and erosional processes; Lunar and planetary science, *Thirty-eighth lunar and planetary science conference, Houston, TX, United States, March 11-16, 2007*, 38(Abstract), @Abstract 2330.

Peet, V. M., M. S. Ramsey, and D. A. Crown (2007), Evaluating laboratory and satellite data of small terrestrial impact and volcanic craters as Mars analogs, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 21; 88(52, Suppl. Volume 1-2), 0218.

Peijun, D., Z. Huapeng, Y. Linshan, L. Pei, and Z. Hairong Comparison of vegetation index from ASTER, CBERS and Landsat ETM+, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Peijun, D., L. Pei, and L. Yan Urban thermal environment simulation and prediction based on remote sensing and GIS, paper presented at Geoscience and Remote Sensing Symposium, 2009 IEEE International, IGARSS 2009, IEEE, 2009.

Pena, M. A. (2009), Examination of the Land Surface Temperature Response for Santiago, Chile, *Photogrammetric Engineering and Remote Sensing*, 75(10), 1191-1200.

Pena, M. A., and S. H. Altmann (2009), Recognition of the effect of *Cinara cupressi* (Hemiptera: Aphididae) in the sanitary condition of *Austrocedrus chilensis* by multispectral images, *Bosque*, 30(3), 151-158.

Pena, S. A. (2005), Geological remote sensing in southern Tunisia for oil and gas exploration, University of Texas at Dallas, Richardson, TX, United States (USA), United States (USA).

Pena, S. A., and M. G. Abdelsalam (2006), Orbital remote sensing for geological mapping in southern Tunisia: Implication for oil and gas exploration, *Journal of African Earth Sciences*, 44(2), 203-219.

Peng, G.-x., J. Li, Y.-h. Chen, and A.-p. Norizan (2007), A Forest Fire Risk Assessment Using ASTER Images in Peninsular Malaysia, *Zhongguo Kuangye Daxue Xuebao Journal of China University of Mining and Technology*, 17(2), 232-237.

Pepe, M., L. Boschetti, P. A. Brivio, and A. Rampini (2010), Comparing the performance of fuzzy and crisp classifiers on remotely sensed images: A case of snow classification, *International Journal of Remote Sensing*, 31(23), 6189-6203.

Pequignot, E., A. Chedin, and N. A. Scott (2008), Infrared continental surface emissivity spectra retrieved from AIRS hyperspectral sensor, *Journal of Applied Meteorology and Climatology*, 47(6), 1619-1633.

Perego, A., M. Cremaschi, and A. Zerboni Il telerilevamento nella ricostruzione della paleoidrografia olocenica in zone aride; il caso di studio di Wadi Tanezzuft, Libia SO. Remote sensing to reconstruct the paleohydrology of Holocene arid environments; case study of Wadi Tanezzuft, SW Libya, paper presented at Atti della 1 (super a) riunione del Gruppo di Geologia e Informatica, San Leo, Italy, May 31-June 1, 2006 Proceedings of the 1st meeting of the Geology and Information Technology Group, Societa Geologica Italiana, Rome, Italy (ITA), Italy (ITA), 2007.

Peres, L. F., and C. C. DaCamara Land-surface emissivity maps based on MSG SEVIRI information, paper presented at Proceedings of the 2005 EUMETSAT Meteorological Satellite Conference, EUMETSAT, Am Kavalleriesand 31 Darmstadt D-64295 Germany, 2006.

Peres, L. F., and C. C. DaCamara (2005), Emissivity maps to retrieve land-surface temperature from MSG/SEVIRI, *IEEE Transactions on Geoscience and Remote Sensing*, 43(8), 1834-1844.

Perkins, D. C. (2000), EOSDIS Terra Data Sampler #1: Western US Wildfires 2000; 1.1 Rep. NASA/NP-2000-11-132-GSFC;NAS 1.83:11-132-GSFC;NONP-NASA-CD-2001109972, CD-ROM pp, NASA Goddard Space Flight Center; Greenbelt, MD.

Permenter, J. L., and C. Oppenheimer (2002), The Tibesti Volcanoes of Chad: an ASTER-based Remote Sensing Analysis, *AGU Fall Meeting Abstracts*, 11(Abstract), 1130.

Permenter, J. L., and C. Oppenheimer (2002), The Tibesti volcanoes of Chad; an ASTER-based remote sensing analysis; AGU 2002 fall meeting, *American Geophysical Union 2002 fall meeting, San Francisco, CA, United States, Dec. 6-10, 2002*, 83(47), 1042.

Permenter, J. L., and C. Oppenheimer (2007), Volcanoes of the Tibesti massif (Chad, northern Africa), *Bulletin of Volcanology*, 69(6), 609-626.

Perreault, J. M., and A. R. Gillespie (2009), Remote sensing of volcano stream temperatures prior to eruptive phases, *Geological Society of America, 2009 annual meeting, Portland, OR, USA, United States, Oct. 18-21, 2009*, 41(7), 276.

Perry, J. L. (2003), An investigation into the use of ASTER (Advanced Spaceborne Thermal Emission and Reflection Radiometer) data for geologic mapping in the Powder River Basin, Wyoming, 121-121 pp, Bowling Green State University, Bowling Green, OH, United States (USA), United States (USA).

Perski, Z., J. Jania, and M. Stober SAR-interferometric flow velocities of two tidewater glaciers in NW Spitsbergen: Methods and results, paper presented at Proceedings of FRINGE 2003 Workshop, Dec 1-5 2003, European Space Agency, Noordwijk, 2200 AG, Netherlands, Frascati, Italy, 2004.

Perveen, M. F., R. Nagasawa, A. O. C. Ahmed, M. I. Uddin, and R. Kimura (2008), Integrating biophysical and socio-economic data using GIS for land evaluation of wheat cultivation: A case study in north-west Bangladesh, *Journal of Food Agriculture & Environment*, 6(2), 432-437.

Petropoulos, G. P., W. Knorr, M. Scholze, L. Boschetti, and G. Karantounias (2010), Combining ASTER multispectral imagery analysis and support vector machines for

rapid and cost-effective post-fire assessment: a case study from the Greek wildland fires of 2007, *Natural Hazards and Earth System Sciences*, 10(2), 305-317.

Petrovic, A., and S. Khan (2008), Remote sensing mapping of hydrocarbon-induced rock alterations in Lisbon Valley, Utah, *Geological Society of America, 2008 annual meeting, Houston, TX, United States, Oct. 5-9, 2008*, 40(6), 263.

Petrovic, A., S. D. Khan, and H. S. Chafetz (2006), Finding hydrocarbon-induced alterations in Lisbon Valley, Utah; hyperspectral remote sensing and geochemical studies, *AAPG 2006 annual convention, Houston, TX, United States, April 9-12, 2006*, 15(Abstract), 85.

Petrovic, A., S. D. Khan, and H. S. Chafetz (2008), Remote detection and geochemical studies for finding hydrocarbon-induced alterations in Lisbon Valley, Utah, *Marine and Petroleum Geology*, 25(8), 696-705.

Petts, A. E. (2002), The morphotectonic study of the Paralana Escarpment and Yudnamutana Gorge, northern Flinders Ranges, S.A, *16th Victorian universities earth sciences conference, Melbourne, Victoria, Australia, Sept. 11, 2002*, 69(Abstract), 56.

Pfister, G., J. C. Gille, D. Ziskin, G. Francis, D. P. Edwards, M. N. Deeter, and E. Abbott (2005), Effects of a Spectral Surface Reflectance on Measurements of Backscattered Solar Radiation: Application to the MOPITT Methane Retrieval, *Journal of Atmospheric and Oceanic Technology*, 22(5), 566-574.

Pflanz, D., R. Freitag, M. Krubitschek, N. Tsukanov, and B. Baranov (2009), Tectonic geomorphology at the eastern coast of Kamchatka Cape Peninsula, Russia, *7th international conference on Geomorphology; ancient landscapes; modern perspectives, Melbourne, Victoria, Australia, July 6-11, 2009*, 7(Abstract), @Abstract no. 490.

Philips, R. L., and O. Beerli (2008), Scaling-up knowledge of growing-season net ecosystem exchange for long-term assessment of North Dakota grasslands under the Conservation Reserve Program, *Global Change Biology*, 14(5), 1008-1017.

Phillips, R., O. Beerli, E. Scholljegerdes, D. Bjergaard, and J. Hendrickson (2009), Integration of geospatial and cattle nutrition information to estimate paddock grazing capacity in Northern US prairie, *Agricultural Systems*, 100(1-3), 72-79.

Phillips, R. J. (2008), Geological map of the Karakoram fault zone, eastern Karakoram, Ladakh, NW Himalaya, *Journal of Maps*, 2008(Journal Article), 21-37.

Phillips, R. L., O. Beerli, and M. Liebig (2006), Landscape estimation of canopy C : N ratios under variable drought stress in Northern Great Plains rangelands, *Journal of Geophysical Research-Biogeosciences*, 111(G2), G02015-G02015.

Philp, A. (2003), The geography of change along the Lewis and Clark trail; utilizing distributed geospatial systems as a means of understanding; *Geological Society of*

America, 2003 annual meeting, *Geological Society of America, 2003 annual meeting, Seattle, WA, United States, Nov. 2-5, 2003*, 35(6), 606.

Piatek, J. L. (2009), Thermophysical properties of terrestrial rock and debris-covered glaciers as analogs for Martian lobate debris aprons, *Fortieth lunar and planetary science conference, Houston, TX, USA, United States, March 23-27, 2009*, 1468(Abstract), 2127.

Piatek, J. L., et al. (2007), Surface and subsurface composition of the Life in the Atacama field sites from rover data and orbital image analysis, *Journal of Geophysical Research-Biogeosciences*, 112(G4), G04S04-G04S04.

Piatek, J. L., C. Hardgrove, J. E. Moersch, D. J. McCleese, and D. Beaty (2007), Potential rock glaciers on Mars; comparison with terrestrial analogs, *Seventh international conference on Mars, Pasadena, CA, United States, July 9-13, 2007*, 1353(Abstract), @Abstract 3353-3354.

Piatek, J. L., et al. (2005), Spectroscopic results from the Life in the Atacama (LITA) Project 2004 field season; Lunar and planetary science, XXXVI; papers presented to the Thirty-sixth lunar and planetary science conference, *Thirty-sixth lunar and planetary science conference, Houston, TX, United States, March 14-18, 2005*, 36(Abstract).

Pieri, D. Monitoring volcanism and transient processes with the Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), paper presented at Infrared spaceborne remote sensing IV; Proceedings of the Conference, Denver, CO; UNITED STATES; 6-7 Aug. 1996, Society of Photo-Optical Instrumentation Engineers, WA, 1996.

Pieri, D., and M. Abrams (2004), ASTER watches the world's volcanoes: A new paradigm for volcanological observations from orbit, *Journal of Volcanology and Geothermal Research*, 135(1-2), 13-28.

Pieri, D., and M. Abrams (2005), ASTER observations of thermal anomalies preceding the April 2003 eruption of Chikurachki volcano, Kurile Islands, Russia, *Scientific Results from ASTER*, 99(1-2), 84-94.

Pieri, D., M. Abrams, A. Abtahi, M. F. Buongiorno, G. Holland, G. Hufford, G. M. Saggiani, and J. Simpson In-Situ Observations of Volcanic Plumes for Applications and Research, paper presented at NASA Solid Earth & Natural Hazards (SENH) 2005 Program Review Proceedings, 2005.

Pieri, D., M. Abrams, P. Ko, and H. Tan The ASTER volcano archive a global perspective, paper presented at Earth; our changing planet; proceedings of IUGG XXIV general assembly, Perugia, ITA, Italy, July 2-13, 2007, IUGG, [location varies], International (III), 2007.

Pieri, D., and M. F. Buongiorno (1995), Landsat TM observations of Mt. Etna summit crater radiance increases before the 1991-1993 eruption; implications for ASTER observations; AGU 1995 fall meeting, *American Geophysical Union, 1995 fall meeting, San Francisco, CA, United States, Dec. 11-15, 1995*, 76(46), 135.

Pieri, D., T. Gubbels, G. Hufford, P. Olsson, and V. Realmuto (2006), Assessing Mesoscale Volcanic Aviation Hazards using ASTER, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Pieri D C Crisp J Kahle, A. B. (1995), Observing Volcanism and Other Transient Phenomena with ASTER, *Journal of Remote Sensing Society of Japan, 15, NO.2(Journal Article)*, PAGE.148-153.

Pieri, D. C., M. J. Abrams, and H. L. Tan (2007), Eruptions on A Virtual Globe: The Aster Volcano Archive, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 33; 88(52, Suppl. Volume 1-2), 0868.

Piscini, A., S. Amici, and D. Fieri Spectral analysis of aster and hyperion data for geological classification of volcano teide, paper presented at 2010 30th IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Piurek, R. B. (2007), Classification of wetland ground-water interactions using remote sensing, 116 pp, State University of New York at Buffalo; 0656 Advisor: Adviser Matthew W. Becker, Buffalo, NY.

Pocock, J. M., S. D. Thompson, Z. L. Aslett, L. E. Huebner, D. Pace, and G. S. Vice (2007), Lithologic mapping of the Terraced Hills, northwestern Pyramid Lake, Nevada, using ASTER and HyMap remote sensing data; Geological Society of America, Rocky Mountain Section, 59th annual meeting, *Geological Society of America, Rocky Mountain Section, 59th annual meeting, Saint George, UT, United States, May 7-9, 2007*, 39(5), 36.

Poli, D. (2005), Modelling of spaceborne linear array sensors, 212-176 pp, Eidgenoessische Technische Hochschule Zuerich (Switzerland); 0663; Institute of Geodesy and Photogrammetry (IGP), ETH Honggerberg, 8093 Zurich, Switzerland.

Polychronaki, A., and I. Z. Gitas (2010), The development of an operational procedure for burned-area mapping using object-based classification and ASTER imagery, *International Journal of Remote Sensing, 31(4)*, 1113-1120.

Poulton, S. (2006), Turkish delight, *Materials World, 14(2)*, 24-26.

Powell, S. L., D. Pflugmacher, A. A. Kirschbaum, Y. Kim, and W. B. Cohen (2007), Moderate resolution remote sensing alternatives: A review of Landsat-like sensors and their applications, *Journal of Applied Remote Sensing, 1(1)*, 012506.

Prescott, T. G. (2006), Estimating temporal and spatial variations in water clarity at Lake Tahoe, California-Nevada, using ASTER multi-spectral remote sensing data, 96-257 pp, University of Nevada, Reno; 0139 Advisor: Adviser Wendy M. Calvin.

Prieto Ballesteros, O., et al. (2006), The permafrost in the Imuruk Lake basaltic field (Alaska) as a Martian permafrost analogue; *Lunar and planetary science, XXXVII; papers presented to the Thirty-seventh lunar and planetary science conference, Thirty-seventh lunar and planetary science conference, Houston, TX, United States, March 13-17, 2006, 37(Abstract)*.

Pritchard, M. E., L. Tumia, and E. Trautmann (2006), InSAR monitoring of volcanoes at the highest resolution: Creation and analysis of 30 meter/pixel topographic maps with interferograms from Andean volcanoes, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006, 87(52; Suppl.)*.

Privette, J. L., and G. P. Asner The Prototype Validation Exercise (PROVE) for EOS land and atmosphere products, paper presented at IEEE 1999 International Geoscience and Remote Sensing Symposium. IGARSS'99; 'Remote Sensing of the Systems Earth - A Challenge for the 21st Century', Jun 28-Jul 2 1999, IEEE, 1999.

Privette, J. L., G. P. Asner, J. Conel, K. F. Huemmrich, R. Olson, A. Rango, A. F. Rahman, K. Thome, and E. A. Walter-Shea (2000), The EOS prototype validation exercise (PROVE) at Jornada: Overview and lessons learned, *Remote Sensing of Environment, 74(1), 1-12*.

Pryce, T. O., and M. J. Abrams (2010), Direct detection of Southeast Asian smelting sites by ASTER remote sensing imagery: technical issues and future perspectives, *Journal of Archaeological Science, 37(12), 3091-3098*.

Pshenichnikov, A. Y. (2005), Otobrazheniya nekotorykh hidrologicheskikh kharakteristik ozer cherez ikh morfometricheskiye pokazateli; na primere Kurganskoy oblasti. Visualization of lake hydrology characteristics with the use of their morphometry; examples from Kurgan region, *Vestnik Moskovskogo Universiteta, Seriya 5: Geografiya, 2005(3), 47-53*.

Pu, R., P. Gong, R. Michishita, and T. Sasagawa (2008), Spectral mixture analysis for mapping abundance of urban surface components from the Terra/ASTER data, *Remote Sensing of Environment, 112(3), 939-954*.

Pu, R. L., P. Gong, R. Michishita, and T. Sasagawa (2006), Assessment of multi-resolution and multi-sensor data for urban surface temperature retrieval, *Remote Sensing of Environment, 104(2), 211-225*.

Pugliese, L., S. Scarpetta, and F. Giacco (2008), An application of the Self Organizing Map Algorithm to computer aided classification of ASTER multispectral data, *Rivista Italiana Di Telerilevamento, 40(1), 123-129*.

Pugnaghi, S., G. Gangale, S. Corradini, and M. F. Buongiorno (2006), Mt. Etna sulfur dioxide flux monitoring using ASTER-TIR data and atmospheric observations, *Journal of Volcanology and Geothermal Research*, 152(1-2), 74-90.

Pugnaghi, S., S. Teggi, S. Corradini, M. F. Buongiorno, T. Caltabiano, V. Lombardo, and D. C. Pieri (2002), Aster So<sub>2</sub> Estimation During The 2001 Mt. Etna Eruption, *EGS XXVII General Assembly, Nice, 21-26 April 2002, abstract #342*, 27(Abstract), 342.

Pugnaghi, S., S. Teggi, S. Corradini, M. F. Buongiorno, L. Merucci, and M. P. Bogliolo (2002), Estimation of SO<sub>2</sub> abundance in the eruption plume of Mt. Etna using two MIVIS thermal infrared channels: a case study from the Sicily-1997 Campaign, *Bulletin of Volcanology*, 64(5), 328-337.

Purvis, C. L., V. Lakshmi, and B. Helmuth (2006), Satellite Monitoring of Long Term Changes in Intertidal Thermal Conditions, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Qari, M. H. T., A. A. Madani, M. I. M. Matsah, and Z. Hamimi (2008), Utilization of ASTER and Landsat data in geologic mapping of basement rocks of Arafat Area, Saudi Arabia, *Arabian Journal for Science and Engineering*, 33(1C), 99-116.

Qi, L., I. Sato, and Y. Murakami Simultaneous perturbation stochastic approximation algorithm for automated image registration optimization, paper presented at 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Denver, CO, United States, 2006.

Qiang, Y., Z. Zhi, W.-t. Chen, and L.-p. Qian Water quality monitoring by remote sensing in Hushan Tailings Reservoir of Huji, Hubei Province, paper presented at Remote Sensing of the Environment: 16th National Symposium on Remote Sensing of China, SPIE - The International Society for Optical Engineering, USA, 2008.

Qing, K., R. Yu, X. Li, and X. Deng Application of spectral angle mapping model to rapid assessment of soil salinization in arid area, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Qiu, F., M. Abdelsalam, and P. Thakkar (2006), Spectral analysis of ASTER data covering part of the Neoproterozoic Allaqi-Heiani suture, Southern Egypt, *Journal of African Earth Sciences*, 44(2), 169-180.

Qiu, H.-L., and J. Zhong Remote sensing of landcover changes in Turfan Basin, northwest China using Landsat and ASTER data, paper presented at Multispectral and Hyperspectral Image Acquisition and Processing, Oct 22-24 2001, The International Society for Optical Engineering, 2001.

Qui, Z., W. Li, M. Gao, and H. o. Zhang An algorithm to retrieve land surface temperature from ASTER thermal band data for agricultural drought monitoring, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology VIII, Sep 11-13 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, 2006.

Quigley, M. C. (2002), Tectonic development of Proterozoic structures and their influence on Laramide and Miocene deformation, north Virgin Mountains, SE Nevada and NW Arizona, University of New Mexico, Albuquerque, NM, United States (USA), United States (USA).

Quincey, D. J., and N. F. Glasser (2009), Morphological and ice-dynamical changes on the Tasman Glacier, New Zealand, 1990-2007, *Global and Planetary Change*, 68(3), 185-197.

Quincey, D. J., R. M. Lucas, S. D. Richardson, N. F. Glasser, M. J. Hambrey, and J. M. Reynolds (2005), Optical remote sensing techniques in high-mountatin environments: application to glacial hazards, *Progress in Physical Geography*, 29(4), 475-505.

Quincey, D. J., A. Luckman, and D. Benn (2009), Quantification of Everest region glacier velocities between 1992 and 2002, using satellite radar interferometry and feature tracking, *Journal of Glaciology*, 55(192), 596-606.

Quintanilha, J. A., L. E. Filho, and A. M. K. Beltrame Spatial and spectral comparison among IKONOS, CBERS and ASTER images to identify and detect land occupation changes around urban railway in Sao Paulo - Brazil, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Quirk, B. R., and R. J. Thompson Early EOS activities at the land processes Distributed Active Archive Center, paper presented at Technical Papers - 1991 ACSM-ASPRS Annual Convention, Publ by ACSM, Bethesda, MD, USA, Baltimore, MD, USA, 1991.

Quiros, E., A. M. Felicisimo, and A. Cuartero (2009), Testing Multivariate Adaptive Regression Splines (MARS) as a Method of Land Cover Classification of TERRA-ASTER Satellite Images, *Sensors*, 9(11), 9011-9028.

Racoviteanu, A. (2009), Remote sensing and GIS techniques for assessing decadal glacier changes in the Sikkim and Nepal Himalayas, *European Geosciences Union general assembly 2009, Vienna, Austria, April 19-24, 2009*, 11(Abstract), EGU2009-3342.

Racoviteanu, A., Y. Arnaud, and M. W. Williams Estimating glacier changes in the Cordillera Blanca, Peruvian Andes at decadal scales using remote sensing, GIS

methods and field-based measurements, paper presented at Earth: Our Changing Planet. Proceedings of IUGG XXIV general assembly, Perugia, ITA, Italy, July 2-13, 2007, IUGG, [location varies], International (III), International (III), 2007.

Racoviteanu, A. E., Y. Arnaud, M. W. Williams, and J. Ordonez (2008), Decadal changes in glacier parameters in the Cordillera Blanca, Peru, derived from remote sensing, *Journal of Glaciology*, 54(186), 499-510.

Racoviteanu, A. E., W. F. Manley, Y. Arnaud, and M. W. Williams (2007), Evaluating digital elevation models for glaciologic applications: An example from Nevado Coropuna, Peruvian Andes, *Global and Planetary Change*, 59(1-4), 110-125.

Racoviteanu, A. E., F. Paul, B. Raup, S. J. S. Khalsa, and R. Armstrong (2009), Challenges and recommendations in mapping of glacier parameters from space; results of the 2008 Global Land Ice Measurements from Space (GLIMS) workshop, Boulder, Colorado, USA, *World glacier inventory*, 50(53), 53-69.

Racoviteanu, A. E., M. W. Williams, and R. G. Barry (2008), Optical remote sensing of glacier characteristics: A review with focus on the Himalaya, *Sensors*, 8(5), 3355-3383.

Radhakrishnan, K. (2008), Major thrust areas of remote sensing and GIS applications in geosciences - An overview, *Journal of the Geological Society of India*, 71(2), 153-170.

Rafiq, L., T. Blaschke, and P. Zeil Application of satellite derived information for disaster risk reduction; Vulnerability assessment for SW-coast of Pakistan, paper presented at Earth Resources and Environmental Remote Sensing/GIS Applications, September 21, 2010 - September 23, SPIE, Bellingham, WA, 2010.

Rager, A. H., H. B. Rager, and G. R. Seymour (2002), Using remote sensing and GIS to identify potential clay sources for Topoc Buff ware, Willow Beach, Arizona; Geological Society of America, 2002 annual meeting, *Geological Society of America, 2002 annual meeting, Denver, CO, United States, Oct. 27-30, 2002*, 34(6), 379.

Rai, R., and I. Sato Parameter selection and its evaluation for ASTER data classification model using support vector machine (SVM), 2006.

Raimadoya, M. A., and B. H. Trisasongko Application of polsar for tropical timber plantation in Indonesia, paper presented at PollnSAR 2007: 3rd International Workshop on Science and Applications of SAR Polarimetry and Polarimetric Interferometry, European Space Agency, Noordwijk, 2200 AG, Netherlands, 2007.

Rajasekar, U., and Q. Weng (2009), Urban heat island monitoring and analysis using a non-parametric model: A case study of Indianapolis, *ISPRS Journal of Photogrammetry and Remote Sensing*, 64(1), 86-96.

Rajasekar, U., and Q. Weng (2009), Application of Association Rule Mining for Exploring the Relationship between Urban Land Surface Temperature and Biophysical Social Parameters, *Photogrammetric Engineering and Remote Sensing*, 75(4), 385-396.

Rajesh, H. M. (2004), Application of remote sensing and GIS in mineral resource mapping - An overview, *Journal of Mineralogical and Petrological Sciences*, 99(3), 83-103.

Ramage, J. M., D. T. Rodbell, S. Hall, J. A. Smith, B. G. Mark, G. O. Seltzer, R. Finkel, D. Farber, and S. Otto (2004), Paleo-ELA depression and regional ELA gradients in the Cordillera Huayhuash, Peru; Geological Society of America, 2004 annual meeting, *Geological Society of America, 2004 annual meeting, Denver, CO, United States, Nov. 7-10, 2004*, 36(5), 513.

Ramage, J. M., D. T. Rodbell, S. A. Otto, and K. E. Stevens (2003), Pre-late-glacial to Recent glacier extents and constraints on ELA depression in the Jahuacocha Valley, Cordillera Huayhuash, Peru; Geological Society of America, 2003 annual meeting, *Geological Society of America, 2003 annual meeting, Seattle, WA, United States, Nov. 2-5, 2003*, 35(6), 423.

Ramage, J. M., J. A. Smith, D. T. Rodbell, and G. O. Seltzer (2005), Comparing reconstructed Pleistocene equilibrium-line altitudes in the tropical Andes of central Peru; Glacial geology and paleoclimate records from the Americas; in memory of Geoffrey Owen Seltzer, 1959-2005, *JQS.Journal of Quaternary Science*, 20(7-8), 777-788.

Ramsey, M., J. M. Byrnes, R. Wessels, and P. Izbekov (2007), Applications of Moderate-Resolution Satellite Remote Sensing for the Northern Pacific Volcanic Arcs, edited, p. 45.

Ramsey, M., and J. Dehn (2004), The synergy of field and satellite-based thermal infrared observations for volcanic surfaces, *AGU Fall Meeting Abstracts*, 32(47. Suppl.), Abstract V32A-08.

Ramsey, M., D. Howard, P. Christensen, N. Lancaster, and T. A. Z. D. o. G. Arizona State Univ Mineralogic variability of the Kelso Dunes, Mojave Desert, California derived from Thermal Infrared Multispectral Scanner (TIMS) data, paper presented at JPL, Summaries of the 4th Annual JPL Airborne Geoscience Workshop. Volume 2: TIMS Workshop p 9-12(SEE N95-23917 07-42); UNITED STATES, 1993.

Ramsey, M., and J. LaBrecque (2004), Automation of the ASTER Emergency Data Acquisition Protocol for Scientific Analysis, Disaster Monitoring and Preparedness, edited, p. 0, Pittsburgh Univ.; Pittsburgh, PA.

Ramsey, M., and R. Wessels (2007), Monitoring Changing Eruption Styles of Kilauea Volcano Over the Summer of 2007 With Spaceborne Infrared Data, *2007 AGU Fall*

*Meeting; San Francisco, CA; USA; 10-14 Dec. 2007, 88(52, Suppl. Volume 1-2), Abstract V51H-07.*

Ramsey, M., and S. Wright (2005), Mapping stratigraphy from space: Analysis of thermal infrared data of impact crater ejecta on Mars and Earth from the THEMIS and ASTER instruments, *AGU Fall Meeting Abstracts*, 86(52, Suppl.), P24A-07.

Ramsey, M. S. (2002), Ejecta distribution patterns at Meteor Crater, Arizona: On the applicability of lithologic end-member deconvolution for spaceborne thermal infrared data of Earth and Mars, *Journal of Geophysical Research-Planets*, 107(E8), 5059-5059.

Ramsey, M. S. (2002), Closing the terrestrial-planetary remote sensing loop: Spectral, spatial and physical proxies, *AGU Fall Meeting Abstracts*, 62(Abstract), 12.

Ramsey, M. S. (2004), Quantitative geological surface processes extracted from infrared spectroscopy and remote sensing, in *Infrared Spectroscopy in Geochemistry, Exploration, and Remote Sensing*, edited by P. King, M. Ramsey and G. Swayze, pp. 197-213, Mineralogical Association of Canada, London, ON.

Ramsey, M. S. (2006), The critical need for moderate to high resolution thermal infrared data for volcanic hazard mitigation and process monitoring from the micron to the kilometer scale, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Ramsey, M. S., and D. A. Crown (2004), Quantitative analyses of terrestrial crater deposits; constraining formation and sediment transport processes on Mars, *Thirty-fifth lunar and planetary science conference, Houston, TX, United States, March 15-19, 2004*, 35(Abstract), @unpaginated.

Ramsey, M. S., and J. Dehn (2004), Spaceborne observations of the 2000 Bezymianny, Kamchatka eruption; the integration of high-resolution ASTER data into near real-time monitoring using AVHRR, *Journal of Volcanology and Geothermal Research*, 135(1-2), 127-146.

Ramsey, M. S., J. Dehn, J. N. Adleman, J. F. Larsen, R. G. McGimsey, C. A. Neal, and R. L. Wessels (2003), Deciphering silicic dome emplacement processes in the North Pacific; quantitative analyses of high resolution satellite and field-based data; AGU 2003 fall meeting, *American Geophysical Union 2003 fall meeting, San Francisco, CA, United States, Dec. 8-12, 2003*, 84(46).

Ramsey, M. S., and J. H. Fink Hazard mitigation associated with silicic dome emplacement; monitoring surface textural variations using remote sensing, paper presented at IAVCEI general assembly 2000; Exploring volcanoes; utilization of their resources and mitigation of their hazards, IAVCEI, Indonesia (IDN), 2000.

Ramsey, M. S., and J. H. Fink (1997), Remote determination of lava vesicularity; technique preparation for the upcoming spaceborne ASTER instrument; Geological

Society of America, Cordilleran Section, 93rd annual meeting [modified], *Geological Society of America, Cordilleran Section, 93rd annual meeting, Kailua-Kona, HI, United States, May 21-23, 1997*, 29(5), 58.

Ramsey, M. S., and J. H. Fink (1999), Estimating silicic lava vesicularity with thermal remote sensing: a new technique for volcanic mapping and monitoring, *Bulletin of Volcanology*, 61(1-2), 32-39.

Ramsey, M. S., and L. P. Flynn (2004), Strategies, insights, and the recent advances in volcanic monitoring and mapping with data from NASA's Earth Observing System; Volcanic observations from space; new results from the EOS Satellite instruments, *Journal of Volcanology and Geothermal Research*, 135(1-2), 1-11.

Ramsey, M. S., and N. Lancaster (1998), Using remote sensing to derive sediment mixing patterns in arid environments; future global possibilities with the ASTER instrument; Geological Society of America, 1998 annual meeting, *Geological Society of America, 1998 annual meeting, Toronto, ON, Canada, Oct. 26-29, 1998*, 30(7), 360.

Ramsey, M. S., and D. C. Pieri (2002), Monitoring, assessment and mitigation of volcanic hazards using the spaceborne ASTER instrument; Geological Society of America, 2002 annual meeting, *Geological Society of America, 2002 annual meeting, Denver, CO, United States, Oct. 27-30, 2002*, 34(6), 550.

Ramsey, M. S., W. L. Stefanov, P. R. Christensen, and A. A. M. I. U. S. Erim International Monitoring world-wide urban land cover changes with ASTER; preliminary results from the Phoenix, AZ LITER site; Proceedings of the Thirteenth international conference on Applied geologic remote sensing, paper presented at Thirteenth international conference and workshops on Applied geologic remote sensing, Vancouver, BC, Canada, March 1-3, 1999, Environmental Research Institute of Michigan, Ann Arbor, MI, United States (USA), United States (USA), 1999.

Rango, A., A. Laliberte, J. Herrick, C. Steele, B. Bestelmeyer, and M. J. Chopping (2006), Use of UAVs for Remote Measurement of Vegetation Canopy Variables, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Ranson, K. J., G. J. Collatz, D. J. Diner, A. B. Kahle, and V. V. Salomonson (1998), Special issue on EOS AM-1 platform, instruments, and scientific data, *IEEE Transactions on Geoscience and Remote Sensing*, 36(4), 1039-1353.

Ranson, K. J., Y. Kaufman, D. Herring, G. J. Collatz, F. Bordi, and T. Si-Chee Overview of EOS AM-1 platform and science, paper presented at IGARSS '98. Sensing and Managing the Environment. 1998 IEEE International Geoscience and Remote Sensing. Symposium Proceedings, 6-10 July 1998, IEEE, Seattle, WA, USA, 1998.

Ranzi, R., G. Grossi, L. Iacovelli, and S. Taschner Use of multispectral ASTER images for mapping debris-covered glaciers within the GLIMS project, paper presented at 2004 IEEE International Geoscience and Remote Sensing Symposium Proceedings: Science

for Society: Exploring and Managing a Changing Planet. IGARSS 2004, Sep 20-24 2004, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Anchorage, AK, United States, 2004.

Rassineux, B., and T. Labbe (1995), Stress field determination in an alloy 600 stress corrosion crack specimen (Determination du champ de contraintes dans une éprouvette de corrosion sous contrainte de l'alliage 600) *Rep.*

Rastmanesh, F., F. Moore, H. Asadi Harouni, and S. Modabberi (2008), Mapping mineralogical alteration using principal component analysis and matched filter processing in Takab area, NW Iran from ASTER data, *33rd international geological congress, Oslo, Norway, Aug. 6-14, 2008*, 33(Abstract), @Abstract 1257014.

Rau, F., F. Mauz, H. de Angelis, R. Jana, J. A. Neto, P. Skvarca, S. Vogt, H. Saurer, and H. Gossmann (2004), Variations of glacier frontal positions on the northern Antarctic Peninsula; Papers from the Seventh international symposium on Antarctic glaciology, *Seventh international symposium on Antarctic glaciology, Milan, Italy, Aug. 25-29, 2003*, 39(Journal Article), 525-530.

Raup, B., et al. (2007), Remote sensing and GIS technology in the global land ice measurements from space (GLIMS) project, *Computers & Geosciences*, 33(1), 104-125.

Raup, B., S. J. S. Khalsa, C. Helm, and R. Armstrong The GLIMS glacier database; successes and challenges, paper presented at Earth: Our Changing Planet. Proceedings of IUGG XXIV general assembly, Perugia, ITA, Italy, July 2-13, 2007, IUGG, [location varies], International (III), International (III), 2007.

Raup, B., A. Racoviteanu, S. J. S. Khalsa, C. Helm, R. Armstrong, and Y. Arnaud (2007), The GLIMS geospatial glacier database: A new tool for studying glacier change, *Global and Planetary Change*, 56(1-2), 101-110.

Raup, B. H., R. Armstrong, G. Scharfen, S. S. Khalsa, I. Wang, and R. G. Barry (2003), Global Land Ice Measurements from Space (GLIMS) Database at NSIDC, *AGU Fall Meeting Abstracts*, 84(46 Suppl.), Abstract C11C-0837.

Raup, B. H., S. J. S. Khalsa, R. Armstrong, and A. Racoviteanu (2009), GLIMS; progress in mapping the world's glaciers, *European Geosciences Union general assembly 2009, Vienna, AUT, Austria, April 19-24, 2009*, 11(Abstract), EGU2009-6398-2001.

Raup, B. H., S. S. Khalsa, and R. Armstrong (2006), Creating improved ASTER DEMs over glacierized terrain, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Raup, B. H., H. H. Kieffer, T. M. Hare, and J. S. Kargel (2000), Generation of data acquisition requests for the ASTER satellite instrument for monitoring a globally

distributed target: glaciers, *IEEE Transactions on Geoscience and Remote Sensing*, 38(2 pt 2), 1105-1112.

Rauschkolb, J. W., and E. G. Frost (2004), Using satellite imagery to detect hydrocarbons in California and Azerbaijan, *Pacific Section AAPG, SEPM, & SEG, Bakersfield, CA, USA, United States, May 19-12, 2004*(Journal Article), @unpaginated.

Ray, D. K., U. S. Nair, R. M. Welch, and T. A. Berendes (2001), Satellite Remote Sensing of Surface Moisture Over South West Australia, *AGU Spring Meeting Abstracts*(Abstract).

Ray, D. K., U. S. Nair, R. M. Welch, and R. O. Lawton (2002), Impact of Deforestation on Cloud Properties and Rainfall Over the Costa Rica-Nicaraguan region, *AGU Fall Meeting Abstracts*, 21(Abstract), 0724.

Ray, D. K., U. S. Nair, R. M. Welch, H. Qingyuan, Z. Jian, S. Wenying, T. Kikuchi, and T. J. Lyons (2003), Effects of land use in southwest Australia. 1. Observations of cumulus cloudiness and energy fluxes, *Journal of Geophysical Research*, 108(D14), 5-1.

Ray, D. K., U. S. Nair, R. M. Welch, and W. Su Impact of land use on Southwest Australian regional climate, paper presented at 2001 International Geoscience and Remote Sensing Symposium (IGARSS 2001), Jul 9-13 2001, Institute of Electrical and Electronics Engineers Inc, Sydney, NSW, 2001.

Ray, D. K., U. S. Nair, R. M. Welch, and W. Su (2001), Influence of land use change on cumulus cloud formation and surface energy fluxes in southwest Australia, *AGU Spring Meeting Abstracts*(Abstract).

Ray, D. K., U. S. Nair, R. M. Welch, W. Su, and T. Kikuchi Influence of land use on the regional climate of southwest Australia; AMS Symposium on Global Change and Climate Variations, 2002.

Ray, D. K., U. S. Nair, R. M. Welch, W. Su, and T. Kikuchi (2002), Climatic Influence of Land Use Change in Southwestern Australia, *AGU Spring Meeting Abstracts*, 41(Abstract), 08.

Ray, P. K. C., I. Parvaiz, R. Jayangondaperumal, V. C. Thakur, V. K. Dadhwal, and F. A. Bhat (2009), Analysis of seismicity-induced landslides due to the 8 October 2005 earthquake in Kashmir Himalaya, *Current science*, 97(12), 1742-1755.

Realmuto, V. J. (1997), The potential use of Earth Observing System data to monitor volcanic sulfur dioxide emissions from space; AGU 1997 fall meeting [modified], *American Geophysical Union, 1997 fall meeting, San Francisco, CA, United States, Dec. 8-12, 1997*, 78(46), 798-799.

Realmuto, V. J. (2000), The potential use of Earth Observing System data to monitor the passive emission of sulfur dioxide from volcanoes; Remote sensing of active volcanism, *Geophysical Monograph*, 116(Journal Article), 101-115.

Realmuto, V. J. (2001), An overview of volcanological applications of remote sensing; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 348.

Realmuto, V. J. (2005), Monitoring Volcanic Plumes and Clouds with the NASA Earth Observing System, *AGU Fall Meeting Abstracts*, 21(Abstract), 0663.

Realmuto, V. J. (2006), Multi-sensor Mapping of Volcanic Plumes and Clouds, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.), Abstract V43E-06.

Realmuto, V. J., and A. Eldering (2004), A Multisensor Approach to the Remote Sensing of Volcanic Emissions, *AGU Fall Meeting Abstracts*, 85(no. 47, Suppl.), Abstract V32A-03.

Realmuto, V. J., S. J. Hook, and J. Vandenbosch The 1994 TIMS airborne calibration experiment: Castaic Lake, California, paper presented at its Summaries of the Fifth Annual JPL Airborne Earth Science Workshop. Volume 2: TIMS Workshop p 29-32 (SEE N95-33789 12-42), 1995.

Realmuto, V. J., A. J. Sutton, and T. Elias (1997), Multispectral thermal infrared mapping of sulfur dioxide plumes: a case study from the East Rift Zone of Kilauea Volcano, Hawaii, *Journal of Geophysical Research*, 102(B7), 15057-15072.

Rebelo, L.-M. (2010), Eco-hydrological characterization of inland Wetlands in Africa using L-band SAR, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 3(4), 554-559.

Rein, B., and C. Passchier (2004), Giant's footprint, *International Journal of Remote Sensing*, 25(12), 2243-2244.

Reinhackel, G., B. Zhukov, D. Oertel, A. Muller, and P. Strobl Unmixing of simulated ASTER data with applications for the assessment of mining impacts in Central Germany, paper presented at Imaging Spectrometry IV, Jul 20-21 1998, The International Society for Optical Engineering, San Diego, United States, 1998.

Reithmaier, M., M. Gockede, T. Markkanen, A. Knohl, G. Churkina, C. Rebmann, N. Buchmann, and T. Foken (2006), Use of remotely sensed land use classification for a better evaluation of micrometeorological flux measurement sites, *Theoretical and Applied Climatology*, 84(4), 219-233.

Ren, D. (2003), Wavelet-based Fusion Of Panchromatic ETM+ And Multispectral ASTER Images Covering The Neoproterozoic Allaqi-Heiani Suture,Southeastern Egypt, *AGU Fall Meeting Abstracts*, 42(Abstract), 0302.

Ren, D. (2005), ASTER digital image processing for geological mapping: Examples from Neoproterozoic Allaqi-Heiani Suture, Egypt, 267-3020 pp, The University of Texas at Dallas; 0382 Advisor: Adviser Mohamed G. Abdelsalam.

Ren, D., and M. Abdelsalam (2004), Wavelet-based remote sensing data fusion, *AAPG annual meeting, Dallas, TX, United States, April 18-21, 2004*, 13(Abstract), 117.

Ren, D., and M. G. Abdelsalam (2001), Optimum Index Factor (OIF) for ASTER data; examples from the Neoproterozoic Allaqi Suture, Egypt; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 289-290.

Ren, D., and M. G. Abdelsalam (2003), ASTER band-ratio images for geological mapping in arid regions; the Neoproterozoic Allaqi-Heiani Suture, southern Egypt; Geological Society of America, South-Central Section, 37th annual meeting; Geological Society of America, Southeastern Section, 52nd annual meeting, *Geological Society of America, South-Central Section, 37th annual meeting; Geological Society of America, Southeastern Section, 52nd annual meeting, Memphis, TN, United States, March 13-14, 2003*, 35(1), 66.

Ren, D., and M. G. Abdelsalam (2004), Geological Features Extraction and Fusion Using Wavelet Transform of ASTER Images: Examples from the Neoproterozoic Allaqi-Heiani Suture, Southeastern Egypt, *American Geophysical Union 2004 fall meeting, San Francisco, CA, United States, Dec. 13-17, 2004*, 85(47, Suppl.), Abstract G51B-0091.

Ren, D., and M. G. Abdelsalam (2005), Tracing along-strike structural continuity in the Neoproterozoic Allaqi-Heiani Suture, southern Egypt using principal component analysis (PCA), fast Fourier transform (FFT), and redundant wavelet transform (RWT) of ASTER data; Geological Society of America, South-Central Section, 39th annual meeting, *Geological Society of America, South-Central Section, 39th annual meeting, San Antonio, TX, United States, April 1-2, 2005*, 37(3), 5.

Ren, D., M. G. Abdelsalam, and R. J. Stern (2004), Complex structural information extraction by applying synergistic processing techniques to ASTER images; principal component analysis (PCA), fast Fourier transform (FFT), and redundant wavelet transform (RWT); with examples from the Neoproterozoic Allaqi Suture, southeastern Egypt; Geological Society of America, 2004 annual meeting, *Geological Society of America, 2004 annual meeting, Denver, CO, United States, Nov. 7-10, 2004*, 36(5), 385.

Ren, D. W., and M. G. Abdelsalam (2006), Tracing along-strike structural continuity in the Neoproterozoic Allaqi-Heiani Suture, southern Egypt using principal component

analysis (PCA), fast Fourier transform (FFT), and redundant wavelet transform (RWT) of ASTER data, *Journal of African Earth Sciences*, 44(2), 181-195.

Reuter, H. I., A. Neison, P. Strobl, W. Mehl, and A. Jarvis A first assessment of Aster GDEM tiles for absolute accuracy, relative accuracy and terrain parameters, paper presented at Geoscience and Remote Sensing Symposium, 2009 IEEE International, IGARSS 2009, IEEE, 2009.

Ribeiro, O. L., C. L. da Silva, M. E. Silva, and N. Morales Tectonica e paleogeografia do Rio Solimoes na regiao de Coari (AM). Tectonics and paleogeography of the Solimoes River in the Coari area, Amazonas, paper presented at Sociedade Brasileira de Geologia; 44 degrees congresso, Curitiba, BRA, Brazil, Oct. 26-31, 2008, Sociedade Brasileira de Geologia, Porto Alegre, Brazil (BRA), 2008.

Richter, R. (2000), Bandpass-resampling effects on the retrieval of radiance and surface reflectance, *Applied Optics*, 39(27), 5001-5005.

Richter, R., and C. Coll (2002), Bandpass-resampling effects for the retrieval of surface emissivity, *Applied Optics*, 41(18), 3523-3529.

Richter, R., A. Muller, M. Habermeyer, S. Dech, K. Segl, and H. Kaufmann (2005), Spectral and radiometric requirements for the airborne thermal imaging spectrometer ARES, *International Journal of Remote Sensing*, 26(15), 3149-3162.

Ritchie, J., T. Schmugge, F. Jacob, and A. Rango (2003), Ground/master/aster spectral reflectance measurements of northern chihuahuan desert vegetation, *EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #1573(Abstract)*, 1573.

Ritchie, J. C., T. J. Schmugge, A. Hsu, and A. Rango Comparison of ASTER, MASTER, and ground-based hyperspectral reflectance measurements, paper presented at IAHS Symposium on Remote Sensing for Environmental Monitoring and Change Detection - 24th General Assembly of the International Union of Geodesy and Geophysics (IUGG), IAHS Press, Wallingford, Oxfordshire, OX10 8BB, United Kingdom, 2007.

Ritter, M., and T. Diehl (2007), High resolution satellite images and differential GPS in geomorphological and geoarchaeological research on Boni Island (Fourth Nile Cataract, north Sudan), *Atlas of cultural and environmental change in arid Africa*, 21(Journal Article), 92-95.

Rivard, B., P. J. Thomas, and J. Giroux (1995), Precise emissivity of rock samples, *Remote Sensing of Environment*, 54(2), 152-160.

Rivera, A., T. Benham, G. Casassa, J. Bamber, and J. A. Dowdeswell (2007), Ice elevation and areal changes of glaciers from the Northern Patagonia Icefield, Chile, *Global and Planetary Change*, 59(1-4), 126-137.

Rivera, A., et al. Exploracioe identificacion del lago subglacial Ellsworth, Antartica 2006. Exploration and identification of Ellsworth subglacial lake, Antarctica 2006, paper presented at II simposio latinoamericano de investigaciones antarticas; VI reunion chilena de investigacion antartica, Concepcion, Chile, Aug. 16-18, 2006, [varies], [varies], International (III), International (III), 2006.

Rivera, A., G. Casassa, J. Bamber, and A. Kaaeab (2005), Ice-elevation changes of Glaciar Chico, southern Patagonia, using ASTER DEMs, aerial photographs and GPS data, *Journal of Glaciology*, 51(172), 105-112.

Rivera, M., R. Monge, and P. Navarro (2005), Nuevos datos sobre el volcanismo Cenozoico (Grupo Calipuy) en el norte del Peru; departamentos de La Libertad y Ancash. New data on northern Peru Cenozoic volcanism (Calipuy Group); La Libertad and Ancash districts, *Sociedad Geologica del Peru. Boletin*, 99(Journal Article), 7-21.

Rivero, R. G. (2006), Development of predictive models of soil phosphorus in Water Conservation Area-2A (Everglades), integrating remote sensing, GIS and geostatistics, 181-7737 pp, University of Florida; 0070 Advisor: Advisers Sabine Grunwald Paul Zwick.

Rivero, R. G., S. Grunwald, M. W. Binford, and T. Z. Osborne (2009), Integrating spectral indices into prediction models of soil phosphorus in a subtropical wetland, *Remote Sensing of Environment*, 113(11), 2389-2402.

Rivero, R. G., S. Grunwald, and G. L. Bruland (2007), Incorporation of spectral data into multivariate geostatistical models to map soil phosphorus variability in a Florida wetland, *Geoderma*, 140(4), 428-443.

Roa Lobo, J. G. (2007), Identifying landslide hazards in a tropical mountain environment, using geomorphologic and probabilistic approaches, 182-709 pp, University of Maryland, College Park; 0117 Advisor: Adviser Michael Kearney.

Roberts, J. W., J. Van Aardt, and F. Ahmed (2008), Assessment of image fusion procedures using entropy, image quality, and multispectral classification, *Journal of Applied Remote Sensing*, 2(1), 023522.

Robinson, A. C. (2009), Evidence against Quaternary slip on the northern Karakorum Fault suggests kinematic reorganization at the western end of the Himalayan-Tibetan orogen, *Earth and Planetary Science Letters*, 286(1-2), 158-170.

Robinson, A. C., A. Yin, C. E. Manning, T. M. Harrison, S. Zhang, and X. Wang (2007), Cenozoic evolution of the eastern Pamir: Implications for strain-accommodation mechanisms at the western end of the Himalayan-Tibetan orogen, *Bulletin of the Geological Society of America*, 119(7), 882-896.

Robinson, C. A., A. Buynevich, F. El-Baz, and A. Shaban (2005), Integrative remote sensing techniques to detect coastal fresh-water seeps; Geological Society of America, 2005 annual meeting, *Geological Society of America, 2005 annual meeting, Salt Lake City, UT, United States, Oct. 16-19, 2005*, 37(7), 106-107.

Robson, L. T., M. J. Roach, R. F. Berry, and E. S. D. B. V. A. Latrobe University (2004), Lithological mapping in a vegetated environment using ASTER & geophysical data; VUEESC; Victorian universities earth & environmental sciences conference, *18th Victorian universities earth & environmental sciences conference, Melbourne, Victoria, Australia, Sept. 27, 2004*, 75(Abstract), 40.

Rocchini, D. (2007), Effects of spatial and spectral resolution in estimating ecosystem alpha -diversity by satellite imagery, *Remote Sensing of Environment*, 111(4), 423-434.

Rockwell, B. W. (2009), Comparison of ASTER- and AVIRIS-derived mineral and vegetation maps of the White Horse replacement alunite deposit and surrounding area, Marysvale volcanic field, UtahRep., 1-31 pp, U. S. Geological Survey, Reston, VA, United States (USA), United States (USA).

Rockwell, B. W. (2010), Mineral and vegetation maps of the Bodie Hills, Sweetwater Mountains, and Wassuk Range, California/Nevada, generated from ASTER satellite dataRep., 5 p., 4 sheets pp, U. S. Geological Survey, United States (USA), United States (USA).

Rockwell, B. W., and A. H. Hofstra (2008), Identification of quartz and carbonate minerals across northern Nevada using ASTER thermal infrared emissivity data - Implications for geologic mapping and mineral resource investigations in well-studied and frontier areas, *Geosphere*, 4(1), 218-246.

Rockwell, B. W., and A. H. Hofstra (2009), Remote detection of argillic alteration in quartzites and quartz arenites above and distal to porphyry Cu and Mo deposits; implications for assessments of concealed deposits, *Geological Society of America, Rocky Mountain Section, 61st annual meeting, Orem, UT, United States, May 11-13, 2009*, 41(6), 6.

Rockwell, B. W., and A. H. Hofstra (2009), Mapping argillic and advanced argillic alteration in volcanic rocks, quartzites, and quartz arenites in the western Richfield 1 degrees X 2 degrees quadrangle, southwestern Utah, using ASTER satellite data, *Geological Society of America, Rocky Mountain Section, 61st annual meeting, Orem, UT, United States, May 11-13, 2009*, 41(6), 39.

Roessner, S., H. U. Wetzel, H. Kaufmann, and A. Sarnagoev (2005), Potential of satellite remote sensing and GIS for landslide hazard assessment in southern kyrgyzstan (Central Asia), *Natural Hazards*, 35(3), 395-416.

Roessner, S., H. U. Wetzel, H. Kaufmann, and A. Sarnagoev (2006), Satellite remote sensing and GIS for analysis of mass movements with potential for dam formation,

*Italian Journal of Engineering Geology and Environment (Testo Stampato), 2006, Special(Journal Article), 103-114.*

Rojas, E. H. M. (2005), Genetic Synthesis of Artificial Neural Networks ART2 in the Classification of Aster Images for Land Use and Land Cover Mapping in the North Area, Mato Grosso State.

Rojas, F. (2002), Modulation transfer function analysis of the moderate resolution imaging spectroradiometer (MODIS) on the TERRA satellite, 156-6015 pp, The University of Arizona; 0009 Advisor: Director Robert A. Schowengerdt.

Rojas, F., R. A. Schowengerdt, and S. F. Biggar Validation of the on-orbit modulation transfer function for the moderate imaging spectroradiometer (MODIS-AM) using on-orbit calibration data and high contrast imagery, paper presented at 2002 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2002), Jun 24-28 2002, Institute of Electrical and Electronics Engineers Inc, Toronto, Ont., Canada, 2002.

Rojas, F., R. A. Schowengerdt, and S. F. Biggar (2002), Early results on the characterization of the Terra MODIS spatial response, *UNITED STATES*, 83(1-2), 50-61.

Rokugawa, S. (1995), Derivation of Surface Temperature and Surface Emissivity from ASTER TIR Data, *Journal of Remote Sensing Society of Japan*, 15, NO.2(Journal Article), PAGE.125-130.

Rokugawa, S., and T. Ariyama Influence of Water Vapor Profiles on Atmospheric Correction for Thermal Infrared Sensor Data, Japan, 1993.

Rokugawa, S., T. Matsunaga, H. Tonooka, H. Tsu, Y. Kannari, and K. Okada (1999), Temperature and emissivity separation from ASTER on EOS AM-1 - preflight validation by ASTER airborne simulator, *Calibration and characterization of satellite sensors; Proceedings of the*; UNITED KINGDOM; 12-19 July 1998, 23(8), 1463-1469.

Rokugawa, S., T. Matsunaga, H. Tonooka, H. Tsu, and O. K. y. Kannari Yoshiaki Flight Experiment of ASTER Airborne Simulator in June, 1996, Japan, 1996.

Rokugawa, S., T. Matsunaga, H. Tsu, and Y. Ishii (1994), Future potential of thermal infrared multispectral data for mapping temperature and emissivity parameters, *Advances in Space Research*, 14(3), 10; p. (13)71-(13)80.

Rokugawa, S., T. Matsunaga, H. Tsu, H. Tonooka, Y. Kannari, and K. Okada Flight experiment of ASTER airborne simulator for temperature and emissivity products, paper presented at Sensors, systems, and next-generation satellites; Proceedings of the Conference, London, United Kingdom; UNITED STATES; 22-25 Sept. 1997, Society of Photo-Optical Instrumentation Engineers, WA:, 1997.

Rokugawa, S., et al. Estimation of land surface characteristics using an airborne ASTER simulator; IGARSS '93; better understanding of Earth environment [modified], paper presented at 13th Annual International Geoscience and Remote Sensing Symposium IGARSS'93, Tokyo, Japan, Aug. 18-21, 1993, Institute of Electrical and Electronics Engineers, New York, NY, United States (USA), United States (USA), 1993.

Rokugawa, S., A. Toshiaki, I. Sato, and T. Hiroji (1999), System-Dynamical Considerations in the Efficiency of Data Processing on Remote Sensing . Modelling of Data Flow System for ASTER Ground Data System, *Journal of Remote Sensing Society of Japan*, 19,NO.3(Journal Article), PAGE.247-264.

Rokugawa, S., A. Toshiaki, I. Sato, and T. Hiroji (2001), System-Dynamical Considerations in the Efficiency of Data Processing on Remote Sensing . Dynamics of ASTER Ground Data System, *Journal of Remote Sensing Society of Japan*, 21,NO.2(Journal Article), PAGE.186-198.

Rokugawa, S., A. Toshiaki, I. Sato, and H. Tsu System-Dynamical Consideration in the Efficiency of ASTER Data Processing, Japan, 1995.

Rokugawa, S., A. Toshiaki, I. Sato, and H. Tsu System Dynamics of ASTER Data Flow in Ground Data System, Japan, 1994.

Rokugawa, S., H. Tsu, and A. B. Kahle (1994), The advanced spaceborne thermal emission and reflection radiometer ( ASTER ) as a global earth observation system with high spatial resolution and extensive spectral coverage, *J Space Technol Sci*, 10,NO. 1(Journal Article), PAGE.44-52.

Rokugawa, S., H. Tsu, H. Watanabe, K. Okada, Y. Kannari, S.-H. Chang, and A. A. M. I. U. S. Environmental Research Institute of Michigan Development and preliminary evaluation of an airborne ASTER simulator (AAS); Proceedings of the Eleventh thematic conference on geologic remote sensing; practical solutions for real world problems, paper presented at Eleventh thematic conference on Applied geologic remote sensing, Las Vegas, NV, United States, Feb. 27-29, 1996, Environmental Research Institute of Michigan, Ann Arbor, MI, United States (USA), United States (USA), 1996.

Rolim, S. B. A., and M. T. de Oliveira (2008), Characterization of industrial pollution in the Sinos River valley with geochemical and remote sensing techniques, *33rd international geological congress, Oslo, Norway, Aug. 6-14, 2008*, 33(Abstract), 1307796.

Rolim, S. B. A., and R. N. Vanacor Statistical landslide hazard mapping using remote sensing data and GIS: case study in northeastern region of Rio Grande do Sul State, Brazil, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, IEEE, Barcelona, Spain, 2008.

Roman, M. O., et al. (2006), Validating the MODerate Resolution Imaging Spectroradiometer (MODIS) Bidirectional Reflectance Distribution Function (BRDF) Albedo, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006, 87(52; Suppl.)*.

Rose, S., and M. Ramsey (2008), The Eruptive Behavior of Klyuchevskoy Volcano, Kamchatka, *AGU Fall Meeting Abstracts, 43(Abstract)*, 2141.

Rose, S., and M. Ramsey (2009), The 2005 eruption of Kliuchevskoi volcano: Chronology and processes derived from ASTER spaceborne and field-based data, *Journal of Volcanology and Geothermal Research, 184(3-4)*, 367-380.

Rose, W. I. (1993), Ground truth spectrometry and imagery of eruption clouds to maximize utility of satellite imagery; *Topical Progress Report Rep. NASA-CR-194358; NAS 1.26:194358, 1-41 pp*, Michigan Technological Univ.; Geological Engineering, Geology and Geophysics.; Houghton, MI, United States.

Rossetti, D. d. F. (2010), Multiple remote sensing techniques as a tool for reconstructing late Quaternary drainage in the Amazon lowland, *Earth Surface Processes and Landforms, 35(10)*, 1234-1239.

Rossi, A. (2002), Possible dust devils tracks detected in Tenere' Desert (Nigeria) - An analogue to Mars, *Lunar and Planetary Science XXXIII; Houston, TX; Mar. 11-15, 2002, 1109(Abstract)*, 1307.

Rossi, A. P. (2002), Seven Possible New Impact Structures in Western Africa Detected on ASTER Imagery, *Lunar and Planetary Science XXXIII; 33rd; 11-15 Mar. 2002; Houston, TX, 1109(Abstract)*.

Rossi, A. P., and L. Marinangeli (2004), The first terrestrial analogue to Martian dust devil tracks found in Tenere Desert, Niger, *Geophysical Research Letters, 31(6)*, 4.

Roush, T. L., F. Esposito, G. R. Rossman, and L. Colangeli (2006), Gypsum optical constants in the visible and near-infrared; real and imagined; *Lunar and planetary science, XXXVII; papers presented to the Thirty-seventh lunar and planetary science conference, Thirty-seventh lunar and planetary science conference, Houston, TX, United States, March 13-17, 2006, 37(Abstract)*.

Rousselin, T., N. Saporiti, R. Kourdian, G. Lerouge, and K. Guerin (2008), Use of service oriented architectures and geospatial intelligence methods with multisensors remote sensing data for the environmental monitoring of a petroleum area, *33rd international geological congress, Oslo, Norway, Aug. 6-14, 2008, 33(Abstract)*, Abstract 1344916.

Rovani, R., and N. Abe (2006), "Topographic Correction Effect on Sugi (Cryptomeria japonica D. Don) Stand Volume Estimation using Multi Temporal Landsat TM and ASTER Satellite Images in Mountainous Tsugawa Region, Niigata Prefecture", *J For Plann, 12(2)*, 49-58.

Rowan, L. C. (1998), Analysis of simulated Advanced Spaceborne Thermal Emission and Reflection (ASTER) radiometer data of the Iron Hill, Colorado, study area for mapping lithologies, *Journal of Geophysical Research, Volume 103*(no. D24), 32,291-232,306.

Rowan, L. C., S. J. Hook, M. J. Abrams, and J. C. Mars (2003), Mapping hydrothermally altered rocks at Cuprite, Nevada, using the advanced spaceborne thermal emission and reflection radiometer (Aster), a new satellite-imaging system, *Economic Geology*, 98(5), 1019-1027.

Rowan, L. C., and J. C. Mars (2001), Initial Lithologic Mapping Results Using Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) Data, *AGU Spring Meeting Abstracts*(Abstract).

Rowan, L. C., and J. C. Mars (2001), Advances in lithologic mapping by using optical remote sensing measurements; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 347.

Rowan, L. C., and J. C. Mars (2003), Lithologic mapping in the Mountain Pass, California area using Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) data, *Remote Sensing of Environment*, 84(3), 350-366.

Rowan, L. C., J. C. Mars, and C. J. Simpson (2005), Lithologic mapping of the Mordor, NT, Australia ultramafic complex by using the Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), *Scientific Results from ASTER*, 99(1-2), 105-126.

Rowan, L. C., R. G. Schmidt, and J. C. Mars (2006), Distribution of hydrothermally altered rocks in the Reko Diq, Pakistan mineralized area based on spectral analysis of ASTER data, *Remote Sensing of Environment*, 104(1), 74-87.

Roy, P. (2007), Atmospheric smog modeling, using EOS satellite ASTER image sensor, with feature extraction for pattern recognition techniques and its correlation with in-situ ground sensor data, 61-2015 pp, Marshall University; 0817.

Roy, P., J. O. Brumfield, and A. Vaseashta Atmospheric smog modeling using ASTER absorption bands and its correlation with in-situ ground sensor data, paper presented at 2007 NSTI Nanotechnology Conference and Trade Show - NSTI Nanotech 2007, Nano Science and Technology Institute, Cambridge, MA 02139, United States, Santa Clara, CA, United States, 2007.

Roy, R. A. Satellite Validation: A Project to Create a Data-Logging System to Monitor Lake Tahoe, paper presented at Summer Student Research Presentations, 2005.

Ryan, R. (2003), High Spatial Resolution Thermal Satellite Technologies, in *Next Generation High ResTucson, AZ United States United States 22-23 Apr. 2003olution*

*Multispectral Thermal Infrared Remote Sensing Workshop*; edited, pp. 1-35, Lockheed Martin Space Operations; Bay Saint Louis, MS.

Ryu, J.-H., J.-S. Won, and K. D. Min (2002), Waterline extraction from Landsat TM data in a tidal flat a case study in Gomso Bay, Korea, *Remote Sensing of Environment*, 83(3), 442-456.

Saadat, H., R. Bonnell, F. Sharifi, G. Mehuis, M. Namdar, and S. Ale-Ebrahim (2008), Landform classification from a digital elevation model and satellite imagery, *Geomorphology*, 100(3-4), 453-464.

Sabine, C. (1999), Remote sensing strategies for mineral exploration, in *Remote sensing for the earth sciences*, edited by A. N. Rencz and R. A. Ryerson, John Wiley & Sons, New York, NY, United States (USA), United States (USA).

Sabol Jr, D. E., A. R. Gillespie, E. Abbott, and G. Yamada (2009), Field validation of the ASTER Temperature-Emissivity Separation algorithm, *Remote Sensing of Environment*, 113(11), 2328-2344.

Sahetapy-Engel, S. (2007), Ground-based thermal remote sensing of eruption dynamics at Santiaguito lava dome complex, Guatemala, University of Hawaii at Manoa, Honolulu, HI, United States (USA), United States (USA).

Saito, G. Determination for regional differences of agriculture using satellite data, paper presented at Agriculture and Hydrology Applications of Remote Sensing, Nov 15-17 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, 2006.

Saito, H. (2006), Estimation and evaluation of drainage basins including landslide masses using data mining techniques and ASTER data, *The joint international symposium on Environmental changes and Earth surface processes in semi-arid and temperate areas, Ulan Bator, Mongolia, June 9-15, 2006*, 27(4), 504.

Saito, H., M. F. Bellan, A. Al-Habshi, M. Aizpuru, and F. Blasco (2003), Mangrove research and coastal ecosystem studies with SPOT-4 HRVIR and TERRA ASTER in the Arabian Gulf, *International Journal of Remote Sensing*, 24(21), 4073-4092.

Saito, H., and N. Iwao Study on the extraction of defoliated stands of Japanese cedar (*Cryptomeria Japonica*) by using remote sensing technique, Japan, 2005.

Saito, H., D. Nakayama, and H. Matsuyama Estimation and Evaluation of Drainage Basins Including Landslides Using Data Mining Techniques and ASTER Data, paper presented at Annual Meeting of the Association of Japanese Geographers, Spring 2006, The Association of Japanese Geographers, 2006.

Saito, H., D. Nakayama, and H. Matsuyama Transferability of the Estimation Model for Basins with Landslides Using Data Mining Techniques, paper presented at Annual

Meeting of the Association of Japanese Geographers, Autumn 2006, Association of Japanese Geographers, 2006.

Saito, H., D. Nakayama, and H. Matsuyama (2007), Estimation and evaluation of drainage basins with landslides using decision tree technique and ASTER data, *Journal of the Japan Landslide Society*, 44(1), 1-14.

Saito, H., D. Nakayama, and H. Matsuyama (2009), Mountain slope partition focusing on a hierarchy of slope unit using digital elevation models, *7th international conference on geomorphology, Melbourne, Victoria, Australia, July 6-11, 2009*, 7(Abstract), @Abstract no. 451.

Saito, K., Y. Numata, Y. Yamano, M. Maya, T. Yukie, Y. Yasuoka, and M. Kato A Study of the Effective Vegetation Parameters for ASTER data, Japan, 1996.

Saito, M., T. Murakami, N. Ishitsuka, K. Kiichiro, M. Kato, K. Tooru, Y. Tsukada, Y. Matano, and I. Kohei The methodology development of the satellite soil map using ASTER data, Japan, 1998.

Sakuma, F. (1999), Preflight cross-calibration activities at NRLM, *Calibration and characterization of satellite sensors; Proceedings of the; UNITED KINGDOM; 12-19 July 1998*, 23(8), 1435-1442.

Sakuma, F. (2000), Caribration Technique for Radiometers Boarding on Earth Observing Satellites, *Journal of Remote Sensing Society of Japan*, 20,NO.5(Journal Article), PAGE.590-601.

Sakuma, F., B. C. Johnson, S. F. Biggar, J. J. Butler, J. W. Cooper, M. Hiramatsu, and K. Suzuki EOS AM-1 preflight radiometric measurement comparison using the Advanced Spaceborne Thermal Emission and Reflection radiometer (ASTER) visible near-infrared integrating sphere, paper presented at Earth observing system; Proceedings of the Conference, Denver, CO; UNITED STATES; 3-6 Aug. 1996, Society of Photo-Optical Instrumentation Engineers, WA, 1996.

Sakuma, F., B. C. Johnson, S. F. Biggar, J. J. Butler, J. W. Cooper, and M. S. K. Hiramatsu (1997), EOS AM-1 preflight radiometric measurement comparison using the Advanced Spaceborne Thermal Emission and Reflection Radiometer ( ASTER ) visible near-infrared integrating sphere, *Bulletin of NRLM*, 46,NO.2(Journal Article), PAGE.114-126.

Sakuma, F., M. Kobayasi, and A. Ono Aster round-robin radiometers for the preflight cross-calibration of EOS AM-1 instruments, paper presented at Proceedings of the 1994 International Geoscience and Remote Sensing Symposium. Vol 4 (of 4), Aug 8-12 1994, IEEE, Piscataway, NJ, USA, Pasadena, CA, USA, 1994.

Sakuma, F., and A. Ono Radiometric calibration of the EOS ASTER instrument, paper presented at New Developments and Applications in Optical Radiometry IV NEWRAD '92, 5-7 Oct. 1992, Baltimore, MA, USA, 1993.

Sakuma, F., and A. Ono (1994), Radiometric Calibration of the EOS ASTER Instrument, *Bulletin of NRLM*, 43, NO.2(Journal Article), PAGE.125-135.

Sakuma, F., A. Ono, and K. Arai Radiometric calibration techniques for ASTER, paper presented at Platforms and Systems, Sep 6 1994, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, Rome, Italy, 1995.

Sakuma, F., A. Ono, M. Kudoh, H. Inada, S. Akagi, and H. Ohmae Aster on-board calibration status, paper presented at Sensors, Systems, and Next-Generation Satellites VI, Sep 23-26 2002, The International Society for Optical Engineering, Agia Pelagia, Crete, Greece, 2002.

Sakuma, F., A. Ono, S. Tsuchida, N. Ohgi, H. Inada, S. Akagi, and H. Ono (2005), Onboard calibration of the ASTER instrument, *IEEE Transactions on Geoscience and Remote Sensing*, 43(12), 2715-2723.

Sakuma, F., T. Sato, H. Inada, S. Akagi, and H. Ono Onboard calibration status of ASTER, paper presented at Sensors, Systems, and Next-Generation Satellites X, SPIE - The International Society for Optical Engineering, Stockholm, Sweden, 2006.

Sakuma, F., T. Sato, H. Inada, S. Akagi, and H. Ono ASTER on-board calibration status, paper presented at Sensors, Systems, and Next-Generation Satellites XII, September 15, 2008 - September 18, SPIE, Cardiff, Wales, United kingdom, 2008.

Sakuma, F., T. Sato, H. Inada, S. Akagi, and H. Ono On-board calibration status of ASTER, paper presented at Sensors, Systems, and Next-Generation Satellites X, Sep 11-13 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, 2006.

Sakuma, F., H. Tonooka, N. Ohgi, and H. Ono Prediction of the radiometric calibration coefficients of ASTER/TIR, paper presented at Sensors, Systems, and Next-Generation Satellites IX, Sep 20-22 2005, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, Bruges, Belgium, 2005.

Sakuno, Y., and Y. Isao Preliminary study for the evaluation of land cover changes using topographical maps and ASTER data in the basin of Hiroshima Bay, Japan, 2002.

Sakuno, Y., S. Kazunori, H. Yamano, and M. Tsuneo The feature of coral reef deciphered from ASTER image and the field survey result in Amami-Oshima Island, 2004, Japan, 2004.

Sakuno, Y., T. Kuniyuki, and T. Matsunaga Validation of ASTER water surface temperature algorithm using MODIS SST data, Japan, 2005.

Sakuno, Y., and T. Matsunaga Feasibility study for the estimation of primary production using ASTER TIR data in coastal environments, Japan, 2002.

Sakuno, Y., T. Matsunaga, T. Kozu, and K. Takayasu Preliminary study of the monitoring for turbid coastal waters using a new satellite sensor, "ASTER", paper presented at Proceedings of the Twelfth (2002) International Offshore and Polar Engineering Conference, May 26-31 2002, International Society of Offshore and Polar Engineers, Cupertino, CA 95015-0189, United States, Kitakyushu, Japan, 2002.

Sakuno, Y., T. Matsunaga, T. Kozu, K. Takayasu, and T. Shimomai Monitoring primary production in brackish Lake Shinji using multi-date satellite data, paper presented at Twenty-Third International Symposium on Space Technology and Science; Matsue, Japan; May 23 - June 2, 2002, Japan Society for Aeronautical and Space Sciences, Tokyo, 105-0004, Japan, 2002.

Sakuno, Y., and I. Yosuke Preliminary study for a method of long term wave data collection and GIS construction in Indonesian domestic sea using satellite data, Japan, 2002.

Salami, A. T., J. Akinyede, and A. de Gier (2010), A preliminary assessment of NigeriaSat-1 for sustainable mangrove forest monitoring, *International Journal of Applied Earth Observation and Geoinformation*, 12(Journal Article), S18-S22.

Salisbury, J. W. (1992), Temperature and emissivity separation, *Remote Sensing of Environment*, 42(2), 83-165.

Salisbury, J. W., and D. M. D'Aria (1992), Emissivity of terrestrial materials in the 8-14  $\mu$ m atmospheric window, *Remote Sensing of Environment*, 42(2), 83-106.

Salisbury, J. W., and D. M. D'Aria (1992), Infrared (8-14 micron) remote sensing of soil particle size, *Remote Sensing of Environment*, 42(2), 157-165.

Salisbury, J. W., D. M. Daria, and F. F. Sabins (1993), Thermal Infrared Remote-Sensing of Crude-Oil Slicks, *Remote Sensing of Environment*, 45(2), 225-231.

Salomonson, V. V. Recent results from the NASA EOS program emphasizing the Terra mission and the outlook for future missions through 2003, paper presented at AIAA Space 2000 Conference and Exposition, Long Beach, CA; UNITED STATES; 19-21 Sept. 2000, 2000.

Salomonson, V. V. Recent Results From The Nasa Earth Science Terra Mission and Future Possibilities, paper presented at Space 2000 Conference and Exhibition, Long Beach, CA United States United States 19-21 Sep. 2000, 2000.

Salvini, R., S. Virdis, S. Riccucci, and L. Disperati (2008), Contribution of geological remote sensing to the analysis of geothermal sites, *33rd international geological congress, Oslo, NOR, Norway, Aug. 6-14, 2008*, 33(Abstract), Abstract 1344976.

Samani, Z., M. Bleiweiss, T. Schmugge, and R. Skaggs Monitoring Water Use In The Rio Grande Valley Using Remotely Sensed Data, paper presented at AIP Conf. Proc. 852: Earth Observation for Vegetation Monitoring and Water Management, 2006.

San, B. T., and M. L. Suzen (2005), Digital elevation model (DEM) generation and accuracy assessment from ASTER stereo data, *International Journal of Remote Sensing*, 26(22), 5013-5027.

San, B. T., and M. L. Suzen (2005), ASTER verisinden uretilen sayisal yukseklik modelinin doğruluk degerlendirmesi--Accuracy assessment of digital elevation models produced from ASTER data, *58 Turkiye jeoloji kurultayi--58th geological congress of Turkey, Ankara, Turkey, April 11-17, 2005*, 58(Abstract), 212.

Sanford, T. J., D. M. Murphy, D. S. Thomson, and R. W. Fox (2008), Albedo Measurements and Optical Sizing of Single Aerosol Particles, *Aerosol science and technology*, 42(Journal Article), 958-969.

Sanjeevi, S., and A. S. Bhaskar (2008), Satellite-derived digital terrain and perspective models; an aid to teach geologic mapping, *Journal of the Geological Society of India*, 71(2), 214-222.

Santini, M., S. Grimaldi, F. Nardi, A. Petroselli, and M. C. Rulli (2009), Pre-processing algorithms and landslide modelling on remotely sensed DEMs, *Geomorphology*, 113(1-2), 110-125.

Santos, D. R. V., S. B. A. Rolim, A. Roisenberg, R. R. Salomoni, A. G. Preissler, and R. Fontana Caracterizacao espectral dos basaltos da porcao sudoeste da bacia do Parana e suas relacoes com elementos do grupo da platina (EGP). Spectral characterization of basalts from southwestern Parana Basin; relationships with platinum group elements (PGE), paper presented at Sociedade Brasileira de Geologia; 44 degrees congresso, Curitiba, BRA, Brazil, Oct. 26-31, 2008, Sociedade Brasileira de Geologia, Porto Alegre, Brazil (BRA), 2008.

Santos, J. R., F. D. Maldonado, and P. M. L. A. Graca New change detection technique using ASTER and CBERS-2 images to monitor Amazon tropical forest, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Sanyal, J., and X. X. Lu (2005), Remote sensing and GIS-based flood vulnerability assessment of human settlements: A case study of Gangetic West Bengal, India, *Hydrological Processes*, 19(18), 3699-3716.

Saran, S., G. Sterk, and S. Kumar (2009), Optimal land use/land cover classification using remote sensing imagery for hydrological modeling in a Himalayan watershed, *Journal of Applied Remote Sensing*, 3(Journal Article), 033551-033551.

Sarwar, A., and R. Bill (2007), Mapping evapotranspiration in the Indus basin using ASTER data, *International Journal of Remote Sensing*, 28(22), 5037-5046.

Sasaki, T., W. Zhao, and F. Shigetaka Estimation method for elevation at local area by satellite images, Japan, 2005.

Satirapod, C., and P. Homniam (2006), GPS precise point positioning software for ground control point establishment in remote sensing applications, *Journal of Surveying Engineering*, 132(1), 11-14.

Satirapod, C., I. Trisirisatayawong, and P. Homniam Establishing Ground Control Points for High-Resolution Satellite Imagery Using GPS Precise Point Positioning, paper presented at 2003 IGARSS: Learning From Earth's Shapes and Colours, Jul 21-25 2003, Institute of Electrical and Electronics Engineers Inc, Toulouse, France, 2003.

Sato, H. P., H. Une, and M. Tobita (2008), Relation between orientations of slope failures and surface displacement triggered by the 2005 northern Pakistan earthquake, *Journal of the Japan Landslide Society*, 45(2), 132-136.

Sato, I. (1996), Utilization of advanced remote sensing data; ASTER Project, *Chishitsu News*, 1996(3(499)), 32-38.

Sato, I., K. Fukue, and K. Arai Basic concept and development of ASTER data processing system, paper presented at Platforms and Systems, 28-29 Sept. 1994, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, 1995.

Sato, I., K. Fukue, and K. Arai (1996), Basic Concept and Development of ASTER Data Processing System, *Tokai Daigaku Kaihatsu Gijutsu Kenkyujo Kenkyu Hokokushu*, 15(1994),NO.1(Journal Article), PAGE.61-66.

Sato, I., H. Watanabe, and H. Tsu Launch ready status of ASTER ground data system, paper presented at Sensors, systems, and next-generation satellites III; Proceedings of the Meeting, Florence, Italy; 20-23 Sept. 1999, Society of Photo-Optical Instrumentation Engineers, WA, 1999.

Satou, Y., and T. Ariyama (2001), Earth remote sensing Data Archive and Distribution System, *Fujitsu*, 52(3), 246-252.

Sauber, J., B. F. Molnia, S. Luthcke, D. Rowlands, D. Harding, C. Carabajal, J. M. Hurtado, and G. Spada (2004), Southern Alaska Glaciers: Spatial and Temporal Variations in Ice Volume, *AGU Fall Meeting Abstracts San Francisco, CA United States* United States 13-17 Dec. 2004, 85(47, Suppl.), 03.

Sawabe, Y., H. Akira, T. Matsunaga, and S. Rokugawa Validation of ASTER TES algorithm using ASTER and MODIS data, Japan, 2002.

Sawabe, Y., R. Shuichi, T. Matsunaga, and A. Hoyano (2003), Temperature and Emissivity Separation for Multi-band Radiometer and Validation ASTER TES Algorithm, *Journal of Remote Sensing Society of Japan*, 23, NO.4(Journal Article), PAGE.364-375.

Scambos, T., H. A. Fricker, C.-C. Liu, J. Bohlander, J. Fastook, A. Sargent, R. Massom, and A.-M. Wu (2009), Ice shelf disintegration by plate bending and hydro-fracture; satellite observations and model results of the 2008 Wilkins Ice Shelf break-ups, *Earth and Planetary Science Letters*, 280(1-4), 51-60.

Scardozzi, G. The contribution of high resolution satellite images to the production of base-maps and cartographies for archaeological research in Turkey and Iraq, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology IX, August 31, 2009 - September 3, SPIE, Bellingham WA, 2009.

Scharfen, G. MODIS Activities at the National Snow and Ice Data Center DAAC, paper presented at MODIS Snow and Ice Workshop, FROM Unknown, 1995.

Scharfen, G. R., V. J. Troisi, and R. G. Barry (2004), Global Land Ice Measurements from Space; Final ReportRep., 5-5 pp, Colorado Univ.; National Snow and Ice Data Center; CO.

Scharrer, K., C. Mayer, S. Martinis, U. Munzer, and A. Guðmundsson Ice dam fluctuations at the Marginal Lake GrAEEnalon (Iceland) before and during a GLOF, paper presented at Envisat Symposium 2007, European Space Agency, Noordwijk, 2200 AG, Netherlands, 2007.

Scheidt, S., M. Ramsey, and N. Lancaster (2008), Radiometric normalization and image mosaic generation of ASTER thermal infrared data: An application to extensive sand sheets and dune fields, *Remote Sensing of Environment*, 112(3), 920-933.

Scheidt, S., M. Ramsey, and N. Lancaster (2010), Determining soil moisture and sediment availability at White Sands Dune Field, New Mexico, from apparent thermal inertia data, *Journal of Geophysical Research-Earth Surface*, 115(Journal Article), F02019-F02019.

Scheidt, S., M. S. Ramsey, and N. Lancaster (2008), Thermal Remote Sensing of Sand Transport Systems, *Planetary Dunes Workshop: A Record of Climate Change; Alamogordo, NM; USA; 29 Apr.-2 May 2008*, 1403(Abstract), 62.

Scheidt, S. P., N. Lancaster, and M. Ramsey (2007), Integration of ASTER thermal infrared data and the Google Earth application to examine the relationship between sand transport pathways and dust emission hot-spots, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 41; 88(52, Suppl. Volume 1-2), 0667.

Schenk, T., B. Csatho, and T. Yoon (2008), Mass balance of the Pacific Ocean sector of Antarctica from remotely sensed data, *Geological Society of America, Northeastern Section, 43rd annual meeting, Buffalo, NY, United States, March 27-29, 2008*, 40(2), 84.

Scherler, D., B. Bookhagen, and M. R. Strecker (2007), Surface Velocities of Himalayan Glaciers: Implications for Glacial Erosion Potential During Climatic Change, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 88(52,; Suppl. Volume 1-2).

Scherler, D., S. Leprince, and M. R. Strecker (2008), Glacier-surface velocities in alpine terrain from optical satellite imagery-Accuracy improvement and quality assessment, *Remote Sensing of Environment*, 112(10), 3806-3819.

Schiek, C. G. (2004), Terrain change detection using ASTER optical satellite imagery along the Kunlun fault, Tibet, 107-1225 pp, The University of Texas at El Paso; 0459.

Schiek, C. G., and J. M. Hurtado (2005), Analysis of the 1995 and 2005 La Conchita, CA landslides using aerial photographs and ASTER satellite data, *American Geophysical Union 2005 fall meeting, San Francisco, CA, United States, Dec. 5-9, 2005*, 86(52, Suppl.), @Abstract G11A-1179.

Schiek, C. G., and J. M. Hurtado (2006), Slip analysis of the Kokoxili earthquake using terrain-change detection and regional earthquake data, *Geosphere*, 2(3), 187-194.

Schiek, C. G., J. M. Hurtado, A. A. Velasco, G. R. Keller, and V. Kreinovich (2004), Terrain Change Detection Using ASTER Optical Satellite Imagery Along the Kunlun fault, Tibet, *American Geophysical Union 2004 fall meeting, San Francisco, CA, United States, Dec. 13-17, 2004*, 85(47, Suppl.), Abstract G51B-0078.

Schildge, J. P. Use of the EOS/ASTER Spaceborne Instrument in the Remote Sensing of Land Surface Water and Energy Balances, 1997.

Schildgen, T. F., K. V. Hodges, K. X. Whipple, M. Perignon, and T. M. Smith (2004), Normal faulting at the western margin of the Altiplano Plateau, southern Peru; AGU 2004 fall meeting, *American Geophysical Union 2004 fall meeting, San Francisco, CA, United States, Dec. 13-17, 2004*, 85(47, Suppl.), @Abstract T31B-1305.

Schiller, S. (1997), JOVE; Final ReportRep. NASA/CR-97-206697;NAS 1.26:206697, 59-59 pp, South Dakota State Univ.; Brookings, SD.

Schimanski, A., M. Tischler, T. Indreiten, S. Higgins, H. M. Bjornseth, and H. R. Groeger (2008), Integrating remote sensing and geological fieldwork in the Kufra Basin, southeast Libya, *33rd international geological congress, Oslo, NOR, Norway, Aug. 6-14, 2008*, 33(Abstract), Abstract 1343219.

Schmid, T., J. Gumuzzio, M. Koch, J. Solana, and P. Mather Characterising and monitoring semi-arid wetlands using multi-angle hyperspectral and multispectral data, paper presented at Envisat Symposium 2007, European Space Agency, Noordwijk, 2200 AG, Netherlands, 2007.

Schmid, T., M. Koch, M. DiBlasi, and M. Hagos (2008), Spatial and spectral analysis of soil surface properties for an archaeological area in Aksum, Ethiopia, applying high and medium resolution data, *Catena*, 75(1), 93-101.

Schmid, T., M. Koch, and J. Gumuzzio Application of spectroscopic, hyperspectral and multispectral data to study wetlands in semi-arid environments (Central Spain), paper presented at IGARSS 2004. 2004 IEEE International Geoscience and Remote Sensing, 20-24 Sept. 2004, IEEE, Anchorage, AK, USA, 2004.

Schmidt, M. (2004), Development of a web-based data and product delivery system for the CSIRO AVHRR Time Series (CATS)Rep., [np] pp.

Schmidt, S., and M. Nuesser (2009), Fluctuations of Raikot Glacier during the past 70 years: a case study from the Nanga Parbat massif, northern Pakistan, *Journal of Glaciology*, 55(194), 949-959.

Schmugge, T. ASTER observations for the monitoring of land surface fluxes, paper presented at Proceedings of the 1997 IEEE International Geoscience and Remote Sensing Symposium, IGARSS'97. Part 3 (of 4), Aug 3-8 1997, IEEE, Piscataway, NJ, USA, 1997.

Schmugge, T. Application of the TES algorithm to TIMS data acquired in HAPEX-Sahel, paper presented at Proceedings of the 1997 IEEE International Geoscience and Remote Sensing Symposium, IGARSS'97. Part 3 (of 4), Aug 3-8 1997, IEEE, Piscataway, NJ, USA, Singapore, 1997.

Schmugge, T., M. Abrams, A. Kahle, Y. Yamaguchi, and H. Fujisada The Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), paper presented at Sensors, Systems, and Next-Generation Satellites VI, SPIE-Int. Soc. Opt. Eng, 2003.

Schmugge, T., M. Abrams, A. Kahle, Y. Yamaguchi, and H. Fujisada The Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), paper presented at Optics in Atmospheric Propagation and Adaptive Systems V, 24-27 Sept. 2002, SPIE-Int. Soc. Opt. Eng, 2003.

Schmugge, T., M. Abrams, A. Kahle, Y. Yamaguchi, and H. Fujisada The Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), paper presented at SAR Image Analysis, Modeling, and Techniques V, 23-24 Sept. 2002, SPIE-Int. Soc. Opt. Eng, 2003.

Schmugge, T., M. Abrams, A. Kahle, Y. Yamaguchi, and H. Fujisada The Advanced spaceborne thermal emission and reflection radiometer (ASTER), paper presented at Remote Sensing of the Ocean and Sea Ice 2002, 24 Sept. 2002, SPIE-Int. Soc. Opt. Eng, 2003.

Schmugge, T., M. Abrams, A. Kahle, Y. Yamaguchi, and H. Fujisada The Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), SPIE-Int. Soc. Opt. Eng, 2003.

Schmugge, T., M. Abrams, A. Kahle, Y. Yamaguchi, and H. Fujisada The Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), paper presented at Remote Sensing of Clouds and the Atmosphere VII, 24-27 Sept. 2002, SPIE-Int. Soc. Opt. Eng, 2003.

Schmugge, T., M. Abrams, A. Kahle, Y. Yamaguchi, and H. Fujisada The Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), paper presented at Image and Signal Processing for Remote Sensing VIII, 24-27 Sept. 2002, SPIE-Int. Soc. Opt. Eng, 2003.

Schmugge, T., A. French, F. Jacob, K. Ogawa, J. Ritchie, M. Chopping, and A. Rango ASTER thermal infrared observations over New Mexico, paper presented at Remote Sensing for Agriculture Ecosystems, and Hydrology IV, Sep 22-25 2002, The International Society for Optical Engineering, Agia Pelagia, Greece, 2002.

Schmugge, T., A. French, and W. Kustas Evapotranspiration estimates using ASTER thermal infrared imagery, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology III, Sep 17-19 2001, The International Society for Optical Engineering, Toulouse, France, 2002.

Schmugge, T., A. French, and W. Kustas Estimating surface fluxes over the SGP site with remotely sensed data, paper presented at Proceedings of the 1999 IEEE International Geoscience and Remote Sensing Symposium (IGARSS'99) 'Remote Sensing of the Systems Earth - A Challenge for the 21st Century', Jun 28-Jul 2 1999, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ, USA, Hamburg, Germany, 1999.

Schmugge, T., A. French, J. Ritchie, M. Chopping, and A. Rango ASTER observations of the spectral emissivity over New Mexico, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology III, Sep 17-19 2001, The International Society for Optical Engineering, Toulouse, France, 2002.

Schmugge, T., A. French, J. Ritchie, M. Chopping, and A. Rango ASTER observations of the spectral emissivity for arid lands, paper presented at 2001 International Geoscience and Remote Sensing Symposium (IGARSS 2001), Jul 9-13 2001, Institute of Electrical and Electronics Engineers Inc, Sydney, NSW, 2001.

Schmugge, T., A. French, J. Ritchie, and A. Rango The use of multispectral TIR data for observing the spectral emissivity of arid lands, paper presented at IGARSS 2000. IEEE 2000 International Geoscience and Remote Sensing Symposium. Taking the Pulse of the Planet: The Role of Remote Sensing in Managing the Environment, 24-28 July 2000, IEEE, Honolulu, HI, USA, 2000.

Schmugge, T., A. French, J. Ritchie, and A. Rango Use of multispectral TIR data for observing the spectral emissivity of arid lands, paper presented at 2000 Internaitonal Geoscience and Remote Sensing Symposium (IGARSS 2000), Jul 24-Jul 28 2000, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ, USA, Honolulu, HI, USA, 2000.

Schmugge, T., A. French, J. Ritchie, and A. Rango (2000), Estimation of surface emissivity for arid lands, *Remote Sensing and Hydrology*(267), 168-174.

Schmugge, T., A. French, J. C. Ritchie, A. Rango, and H. Pelgrum (2002), Temperature and emissivity separation from multispectral thermal infrared observations, *Remote Sensing of Environment*, 79(2-3), 189-198.

Schmugge, T., F. Jacob, A. French, J. Ritchie, M. Chopping, and A. Rango ASTER thermal infrared observations over New Mexico, paper presented at 2002 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2002), Jun 24-28 2002, Institute of Electrical and Electronics Engineers Inc, Toronto, Ont., Canada, 2002.

Schmugge, T., and H. K. (1995), ASTER Observations for the Monitoring of Land Surface Fluxes, *Journal of Remote Sensing Society of Japan*, 15,NO.2(Journal Article), PAGE.175-181.

Schmugge, T., and K. Ogawa Land Surface Emissivity Observations in the 8 - 12 micrometer window from ASTER and MODIS Data, American Meteorological Society, 2007.

Schmugge, T., and K. Ogawa Validation of emissivity estimates from ASTER and MODIS data, paper presented at 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Denver, CO, United States, 2006.

Schmugge, T., and K. Ogawa (2006), Land Surface Emissivity Observations in the 8 - 12 micrometer window from ASTER and MODIS Data, *2006 AGU Joint Assembly, Baltimore, Maryland (USA)*, 23-26 May 2006(Abstract).

Schmugge, T., K. Ogawa, and P. de Rosnay Satellite observations of the land surface emissivity in the 8-12 micrometer window; effect of soil moisture, paper presented at Earth: Our Changing Planet. Proceedings of IUGG XXIV general assembly, Perugia, ITA, Italy, July 2-13, 2007, IUGG, [location varies], International (III), International (III), 2007.

Schmugge, T., K. Ogawa, and A. N. French (2005), Validation of the ASTER Temperature Emissivity Separation (TES) algorithim with field measurements, *AGU Fall Meeting Abstracts*, 23(Abstract), 01.

Schmugge, T., K. Ogawa, A. N. French, A. Hsu, J. C. Ritchie, and A. Rango (2003), ASTER Observations of Surface Temperature and Emissivity over New Mexico Test Sites, *AGU Fall Meeting Abstracts*, 21(Abstract), 01.

Schmugge, T., K. Ogawa, F. Jacob, A. French, A. Hsu, and J. Ritchie Validation of Emissivity Estimates from ASTER Data, paper presented at 2003 IGARSS: Learning From Earth's Shapes and Colours, Jul 21-25 2003, Institute of Electrical and Electronics Engineers Inc, Toulouse, France, 2003.

Schmugge, T., K. Ogawa, F. Jacob, A. French, and J. Ritchie (2003), Determination of the window emissivity with ASTER multi-spectral thermal infrared data, *EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #1594*(Abstract), 1594.

Schmugge, T., K. Ogawa, F. Jacob, and A. N. French (2002), Quantitative Estimates of Land Surface Emissivity Using ASTER Data, *AGU Fall Meeting Abstracts*, 62(Abstract), 06.

Schmugge, T., K. Ogawa, and S. Rokugawa (2004), Determination of the Infrared Emissivity with Multi-spectral Thermal Infrared Data from Space, *AGU Fall Meeting Abstracts*, 11(Abstract), 01.

Schmugge, T. J. ASTER observations for the monitoring of land surface fluxes, paper presented at Infrared Spaceborne Remote Sensing IV, Aug 6-7 96, Denver, CO, USA, 1996.

Schmugge, T. J., M. J. Abrams, A. B. Kahle, Y. Yamaguchi, and H. Fujisada Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology IV. Edited by Owe, Manfred; D'Urso, Guido; Toullos, Leonidas. Proceedings of the SPIE, Volume 4879, pp. 1-12 (2003). SPIE, 2003.

Schmugge, T. J., W. P. Kustas, and K. S. Humes (1998), Monitoring land surface fluxes using ASTER observations, *IEEE Transactions on Geoscience and Remote Sensing*, 36(5 pt 1), 1421-1430.

Schmullius, C., and S. Hese SIBERIA-II: Sensor Systems and Data Products for Greenhouse Gas Accounting, paper presented at 2003 IGARSS: Learning From Earth's Shapes and Colours, Jul 21-25 2003, Institute of Electrical and Electronics Engineers Inc, Toulouse, France, 2003.

Schneckoigt, N. J., and L. Schrott (2006), Linking geomorphic systems theory and remote sensing; a conceptual approach to Alpine landform detection (Reintal, Bavarian Alps, Germany), *Geographica Helvetica*, 61(3), 181-190.

Schneckoigt, N. J., S. van der Linden, H. P. Thamm, and L. Schrott (2008), Detecting Alpine landforms from remotely sensed imagery. A pilot study in the Bavarian Alps, *Geomorphology*, 93(1-2), 104-119.

Schneider, D., H. D. Granados, C. Huggel, and A. Kaab (2008), Assessing lahars from ice-capped volcanoes using ASTER satellite data, the SRTM DTM and two different flow models: case study on Iztaccihuatl (Central Mexico), *Natural Hazards and Earth System Sciences*, 8(3), 559-571.

Schoenbohm, L., J. Chen, E. Sobel, R. Thiede, and M. Strecker (2006), Glacial erosion, deep exhumation and the development of high topography along the Kongur detachment, Pamir Mountains, Western China, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.), Abstract T13E-08.

Schottker, B., M. Over, M. Braun, G. Menz, and A. Siegmund Monitoring state-wide urban Development using multitemporal, multisensoral Satellite Data covering a 40 Year-Time Span in North Rhine-Westphalia (Germany), paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology III, Sep 9-11 2003, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Barcelona, Spain, 2004.

Schramm, M., T. Landmann, P. Lohmann, and C. Heipke (2008), A New Model for a Spectral Mixture Analysis Without Accurate Endmember Spectra, *Photogrammetrie Fernerkundung Geoinformation*(5), 351-362.

Schramm, M., T. Landmann, M. Schmidt, and S. Dech Tree density detection using spectral unmixing without known target spectra, paper presented at IGARSS 2008 - 2008 IEEE International Geoscience and Remote Sensing Symposium, IEEE, Piscataway, NJ, USA, 2008.

Schroeder, W., I. Csizsar, L. Giglio, E. Ellicott, C. C. Schmidt, J. P. Hoffman, and S. Lindstrom Early characterization of the active fire detection products derived from the next generation NPOESS/VIIRS and GOES-R/ABI instruments, paper presented at 2010 30th IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Schroeder, W., I. Csizsar, L. Giglio, and C. C. Schmidt (2010), On the use of fire radiative power, area, and temperature estimates to characterize biomass burning via moderate to coarse spatial resolution remote sensing data in the Brazilian Amazon, *Journal of Geophysical Research-Atmospheres*, 115(Journal Article), D21121-D21121.

Schroeder, W., I. Csiszar, E. Prins, C. Schmidt, A. Setzer, K. Longo, S. Freitas, J. Morisette, and J. Brunner (2007), A basin-wide assessment of the GOES and MODIS active fire products for the Brazilian Amazon, *2007 Joint Assembly; Acapulco; Mexico; 22-25 May 2007*, 88(25 (2007 Joint Assembly; Suppl.)), A51A-03.

Schroeder, W., E. Prins, L. Giglio, I. Csiszar, C. Schmidt, J. Morisette, and D. Morton (2008), Validation of GOES and MODIS active fire detection products using ASTER and ETM+ data, *Remote Sensing of Environment*, 112(5), 2711-2726.

Schroeder, W., M. Ruminski, I. Csiszar, L. Giglio, E. Prins, C. Schmidt, and J. Morisette (2008), Validation analyses of an operational fire monitoring product: The Hazard Mapping System, *International Journal of Remote Sensing*, 29(20), 6059-6066.

Schulze-Makuch, D. Identification and characterization of regional ground-water flow systems using remote sensing and microbial methods; New approaches characterizing groundwater flow; proceedings, paper presented at XXXI International Association of Hydrogeologists congress, Munich, Federal Republic of Germany, Sept. 10-14, 2001, A.A. Balkema, Lisse, Netherlands (NLD), Netherlands (NLD), 2001.

Schulze-Makuch, D., A. G. Fairén, J. M. Dohm, S. Clifford, J. Farmer, R. M. Haberle, H. E. Newsom, and T. Parker (2004), Strategy for detecting hydrothermal activity on Mars, *Second conference on Early Mars; geologic, hydrologic, and climatic evolution and the implications for life, Jackson Hole, WY, United States, Oct. 11-15, 2004*, 1211(Abstract), @Abstract 8003.

Scolese, C. J., S. P. Neeck, and F. Bordi EOS-AM1: current status, paper presented at Platforms and Systems, Sep 6 1994, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, Rome, Italy, 1995.

Seeber, C., H. Hartmann, X. Wei, and L. King (2010), Land use change and causes in the Xiangxi catchment, Three Gorges Area derived from multispectral data, *Journal of Earth Science*, 21(6), 846-855.

Seemann, S. W., E. Borbas, R. O. Knuteson, H. L. Huang, and W. P. Menzel A global infrared land surface emissivity database, 2006.

Seguchi, M., M. Koriyama, and Y. Shin Measurement of LAI in the watershed using Terra-ASTER data, paper presented at American Society of Agricultural and Biological Engineers Annual International Meeting 2009, June 21, 2009 - June 24, American Society of Agricultural and Biological Engineers, St. Joseph, MI, 2009.

Seiler, R., J. Schmidt, O. Diallo, and E. Csaplovics Flood monitoring in a semi-arid environment using spatially high resolution asar and optical data, paper presented at 1st International Symposium on GlobWetland: Looking at Wetlands from Space, European Space Agency, Noordwijk, 2200 AG, Netherlands, 2006.

Seiler, R., J. Schmidt, O. Diallo, and E. Csaplovics (2009), Flood monitoring in a semi-arid environment using spatially high resolution radar and optical data, *Journal of environmental management*, 90(7), 2121-2129.

Seiz, G., M. Baltsavias, and A. Gruen High-resolution cloud motion analysis with Meteosat-6 rapid scans, MISR and ASTER, paper presented at The 2003 EUMETSAT Meteorological Satellite Conference, Weimar (Germany), 29 Sep-3 Oct 2003, EUMETSAT, Am Kavalleriesand 31 Darmstadt D-64295 Germany, 2005.

Seiz, G., M. Baltsavias, and A. Gruen Satellite - and ground-based stereo analysis of clouds (Invited Presentation) (2003 - 12SATMET), 2003.

Seiz, G., and R. Davies (2006), Reconstruction of cloud geometry from multi-view satellite images, *Remote Sensing of Environment*, 100(2), 143-149.

Seiz, G., R. Davies, and A. Grun (2006), Stereo cloud-top height retrieval with ASTER and MISR, *International Journal of Remote Sensing*, 27(9), 1839-1853.

Sellers, P., and D. Schimel (1993), Remote sensing of the land biosphere and biogeochemistry in the EOS era: science priorities, methods and implementationAEOS land biosphere and biogeochemical cycles panels, *Global and Planetary Change*, 7(4), 279-297.

Sener, E., A. Davraz, and S. Sener (2010), Investigation of Aksehir and Eber Lakes (SW Turkey) Coastline Change with Multitemporal Satellite Images, *Water Resources Management*, 24(4), 727-745.

Senna, J., and C. R. Souza Filho Spectro-mineralogical characterization of Brazilian agalmatolites using reflectance spectroscopy and ASTER imagery analysis, paper presented at Sociedade Brasileira de Geologia; 44 degrees congresso, Curitiba, Brazil, Oct. 26-31, 2008, Sociedade Brasileira de Geologia, Porto Alegre, Brazil (BRA), Brazil (BRA), 2008.

Sentlinger, G. I., S. J. Hook, and B. Laval (2008), Sub-pixel water temperature estimation from thermal-infrared imagery using vectorized lake features, *Remote Sensing of Environment*, 112(4), 1678-1688.

Sepulcre-Canto, G., P. J. Zarco-Tejada, J. A. Jimenez-Berni, A. J. Rodriguez, J. C. Jimenez-Munoz, J. A. Sobrino, and V. Cifuentes Detecting crop irrigation status in orchard canopies with airborne and ASTER thermal imagery, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Sepulcre-Canto, G., P. J. Zarco-Tejada, J. C. Jimenez-Munoz, J. A. Sobrino, M. A. Soriano, E. Fereres, V. Vega, and M. Pastor (2007), Monitoring yield and fruit quality

parameters in open-canopy tree crops under water stress. Implications for ASTER, *Remote Sensing of Environment*, 107(Journal Article), 455-470.

Sepulcre-Canto, G., P. J. Zarco-Tejada, J. A. Sobrino, J. A. J. Berni, J. C. Jimenez-Munoz, and J. P. Gastellu-Etchegorry (2009), Discriminating irrigated and rainfed olive orchards with thermal ASTER imagery and DART 3D simulation, *Agricultural and Forest Meteorology*, 149(6-7), 962-975.

Serbin, G., C. S. T. Daughtry, E. R. Hunt Jr, D. J. Brown, and G. W. McCarty (2009), Effect of soil spectral properties on remote sensing of crop residue cover, *Soil Science Society of America Journal*, 73(5), 1545-1558.

Serbin, G., C. S. T. Daughtry, E. R. Hunt Jr, J. B. Reeves III, and D. J. Brown (2009), Effects of soil composition and mineralogy on remote sensing of crop residue cover, *Remote Sensing of Environment*, 113(1), 224-238.

Sertel, E., N. Findik, S. Kaya, D. Z. Seker, and A. Samsunlu (2008), Assessment of landscape changes in the Kizilirmak Delta, Turkey, using remotely sensed data and GIS, *Environmental Engineering Science*, 25(3), 353-361.

Seto, Y. (1993), The observation of Earth environment by satellite remote sensing, *Journal of the Institute of Electrical Engineers of Japan*, 113(Journal Article), 572-576.

Seto, Y. (1993), Data and information system for earth environment observing, *Joho Shori*, 34(5), 515-520.

Seto, Y., N. Tanaka, and S. Ishikawa Proposal for Inter-Telescope Image Registration Algorithms of Earth Environmental Monitoring Sensor ASTER, Japan, 1994.

Sgavetti, M., L. Pompilio, and S. Meli (2006), Reflectance spectroscopy (0.3-2.5 μm) at various scales for bulk-rock identification, *Geosphere*, 2(3), 142-160.

Shaban, A. (2008), Use of satellite images to identify marine pollution along the Lebanese coast, *Environmental Forensics*, 9(2-3), 205-214.

Shaban, A. (2009), Identifying ring geomorphic features in Lebanon using ASTER and Landsat 7 ETM+ images, *International Journal of Remote Sensing*, 30(5), 1127-1140.

Shaban, A., M. Hamze, F. El-Baz, and E. Ghoneim (2009), Characterization of an Oil Spill Along the Lebanese Coast by Satellite Images, *Environmental Forensics*, 10(1), 51-59.

Shabana, T., and O. Susumu Identification at the Undersea Remains at Yonaguni Island with the Satellite Data, Japan, 2006.

Shahgedanova, M., G. Nosenko, T. Khromova, and A. Muraveyev (2010), Glacier shrinkage and climatic change in the Russian Altai from the mid-20th century: An

assessment using remote sensing and PRECIS regional climate model, *Journal of Geophysical Research-Atmospheres*, 115(Journal Article), D16107-D16107.

Shahid, S. (2010), Spatial assessment of groundwater demand in Northwest Bangladesh, *International Journal of Water*, 5(3), 267-283.

Shakun, J. D., S. J. Burns, D. Fleitmann, J. Kramers, A. Matter, and A. Al-Subary (2007), A high-resolution, absolute-dated deglacial speleothem record of Indian Ocean climate from Socotra Island, Yemen, *Earth and Planetary Science Letters*, 259(3-4), 442-456.

Shangguan, D.-h., S.-y. Liu, Y.-j. Ding, L.-f. Ding, Y.-p. Shen, S.-q. Zhang, A.-x. Lu, G. Li, D.-h. Cai, and Y. Zhang (2005), Monitoring Glacier Changes and Inventory of Glaciers in Muztag Ata-Kongur Tagh, East Pamir, China Using ASTER Data, *Journal of Glaciology and Geocryology*, 27(3), 344-351.

Shangguan, D., S. Liu, Y. Ding, L. Ding, Y. Shen, S. Zhang, A. Lu, G. Li, D. Cai, and Y. Zhang (2005), Monitoring glacier changes and an inventory of glaciers in Muztag Ata-Kongur Tagh, eastern Pamirs, China, using ASTER data, *Journal of Glaciology and Geocryology*, 27(3), 344-351.

Shanmugam, S., and P. V. Abhishek Spectral unmixing of hyperspectral data to map bauxite deposits, paper presented at Multispectral, Hyperspectral, and Ultraspectral Remote Sensing Technology, Techniques, and Applications, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, Goa, India, 2006.

Sharma, B. D., J. Clevers, R. De Graaf, and N. R. Chapagain (2004), Mapping Equus kiang (Tibetan wild ass) habitat in Surkhang, Upper Mustang, Nepal, *Mountain Research and Development*, 24(2), 149-156.

Sharov, A. I., and S. A. Osokin Controlled interferometric models of glacier changes in South Svalbard, paper presented at Fringe 2005 Workshop, Nov 28-Dec 2 2005, European Space Agency, Noordwijk, 2200 AG, Netherlands, Frascati, Italy, 2006.

Shayestehfar, M. R., H. Ranjbar, and O. Ahmadi Alteration mapping by using ETM+ and ASTER data in Dehaj area, southeast of Iran, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology V; Bruges; Belgium; 19-20 Sept. 2005, 2005.

Shen, Q., and E. Dongchen (2008), Atmospheric corrections of remote sensing images based on radiative transfer model, *Geomatics and Information Science of Wuhan University*, 33(1), 85-88.

Shen, Q., E. Dongchen, and C. Zhou (2005), Automated DEM extraction using ASTER stereo data of the Grove Mountains in Antarctica, *Cehui Xinxi yu Gongcheng = Journal of Geomatics*, 30(3), 47-49.

Sheng, J., J. P. Wilson, and S. Lee (2009), Comparison of land surface temperature (LST) modeled with a spatially-distributed solar radiation model (SRAD) and remote sensing data, *Environmental Modelling and Software*, 24(3), 436-443.

Shi, J. Estimation of snow fraction using AVIRIS simulated ASTER image data, paper presented at Proceedings of the 1999 IEEE International Geoscience and Remote Sensing Symposium (IGARSS'99) 'Remote Sensing of the Systems Earth - A Challenge for the 21st Century', Jun 28-Jul 2 1999, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ, USA, 1999.

Shi, J. (2001), Estimation of snow fraction using simulated ASTER image data, *Remote Sensing and Hydrology*(267), 120-122.

Shi, J. C., and D. O. Starr (1997), Investigation of Snow Properties Using MODIS and ASTER Data, edited, California Univ.; Santa Barbara, CA.

Shi, Y., G. Yan, X. Mu, L. He, and X. Li A practical algorithm to inverse land surface component temperatures from ATSR-2 and ASTER data, paper presented at 2004 IEEE International Geoscience and Remote Sensing Symposium Proceedings: Science for Society: Exploring and Managing a Changing Planet. IGARSS 2004, Sep 20-24 2004, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Anchorage, AK, United States, 2004.

Shimazaki, H., M. Tsuneo, and M. Tamura A compatibility assessment of satellite optical sensors for monitoring wetland environments over a broad spatial scale, Japan, 2005.

Shimizu, Y., H. Masaru, M. Kudo, and O. Hiromi The Development of ASTER VNIR (PFM), Japan, 1996.

Shimizu, Y., Y. Narimatsu, and M. Hiramatsu Design challenges of ASTER in visible and near-infrared spectral region (Advanced Spaceborne Thermal Emission and Reflection Radiometer), paper presented at Sensor systems for the early earth observing system platforms; Proceedings of the Conference, Orlando, FL; UNITED STATES; 13-14 Apr. 1993, Bellingham, WA: Society for Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 1939), 1993.

Shimoda, H. Overview of Japanese Earth observation programs, paper presented at Sensors, Systems, and Next-Generation Satellites XIV, September 20, 2010 - September 23, SPIE, Bellingham, WA, 2010.

Shimoda, H. Overview of Japanese Earth Observation programs, paper presented at Sensors, Systems, and Next-Generation Satellites XIII, August 31, 2009 - September 3, SPIE, Berlin, Germany, 2009.

Shimoda, H. Overview of Japanese Earth Observation programs, paper presented at Sensors, Systems, and Next-Generation Satellites XII, September 15, 2008 - September 18, SPIE, Cardiff, Wales, United Kingdom, 2008.

Shimoda, H. Overview of Japanese Earth observation programs, paper presented at Sensors, Systems, and Next-Generation Satellites XI, SPIE, Bellingham WA, WA 98227-0010, United States, Florence, Italy, 2007.

Shimoda, H. Overview of Japanese Earth observation programs, paper presented at Sensors, Systems, and Next-Generation Satellites X, Sep 11-13 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, 2006.

Shimoda, H. Overview of Japanese Earth observation programs, paper presented at Sensors, Systems, and Next-Generation Satellites IX; Bruges; Belgium; 20-22 Sept. 2005, International Society for Optical Engineering, Bellingham WA, 2005.

Shin, Y., M. Seguchi, M. Koriyama, and A. Isnansetyo (2010), Estimation of LAI in the forested watershed using ASTER data based on Price's model in summer and winter, *European Journal of Forest Research*, 129(6), 1237-1245.

Shoffner, J. D., and W. M. Calvin (2007), Mapping mineralization in the Monitor Pass mining district, *American Geophysical Union 2007 fall meeting, San Francisco, CA, USA, United States, Dec. 10-14, 2007*, 88(52, Suppl.), Abstract NS31A-0154.

Shoffner, J. D., and W. M. Calvin (2008), Mapping mineralization in the Monitor Pass mining district, *Geological Society of America, 2008 annual meeting, Houston, TX, United States, Oct. 5-9, 2008*, 40(6), 116.

Shribak, M., and R. Oldenbourg Mapping polymer birefringence in three-dimensions using a polarizing microscope with oblique illumination, paper presented at Biophotonics Micro- and Nano-Imaging, Apr 28 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Strasbourg, France, 2004.

Shroder, J., M. Bishop, H. Bulley, U. Haritashya, J. Olsenholle, Y. Lai, W. Ma, and S. Zhao Cryosphere and permafrost change resulting in slope instability in Hindu Kush and western Himalaya; Asian conference on Permafrost, paper presented at Asian conference on Permafrost, Lanzhou, Publisher unknown, China (CHN), China (CHN), 2006.

Shroder, J., M. Bishop, U. Haritashya, J. Olsenholle, H. Bulley, and J. Sartan (2006), Glacier Debris Cover Variation in the Hindu Kush and Karakoram Himalaya, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Shroder, J. F., Jr., and M. P. Bishop (2010), Selected glaciers of Afghanistan *Rep. 9781411326095*, F167-F199 pp, U. S. Geological Survey, Reston, VA, United States (USA).

Shroder, J. F., Jr., and M. P. Bishop (2010), Glaciers of Pakistan *Rep. 9781411326095*, F201-F257 pp, U. S. Geological Survey, Reston, VA, United States (USA).

Shroder, J. F., M. P. Bishop, U. K. Haritashya, H. N. Bulley, J. A. Olsenholter, and J. R. Mertes (2007), Space-Based Observations of Batura Glacier Fluctuations, Western Karakoram Himalaya, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 88(52,; Suppl. Volume 1-2).

Shroder, J. F., Jr., M. P. Bishop, and G. Overton (2005), Glacier and landform change detection, Hindu Kush and western Himalaya, Afghanistan and Pakistan; Geological Society of America, 2005 annual meeting, *Geological Society of America, 2005 annual meeting, Salt Lake City, UT, United States, Oct. 16-19, 2005*, 37(7), 304.

Shukla, A., M. K. Arora, and R. P. Gupta (2010), Synergistic approach for mapping debris-covered glaciers using optical-thermal remote sensing data with inputs from geomorphometric parameters, *Remote Sensing of Environment*, 114(7), 1378-1387.

Shukla, A., R. P. Gupta, and M. K. Arora (2009), Estimation of debris cover and its temporal variation using optical satellite sensor data: a case study in Chenab basin, Himalaya, *Journal of Glaciology*, 55(191), 444-452.

Shunguang, H., Z. Zengxiang, W. Qingke, W. Xiao, L. Bin, and W. Changyou Fractal characters of rocky desertification land : A case study in Pingguo County, Guangxi Province, China, paper presented at 18th International Conference on Geoinformatics, 18-20 June, 2010, Beijing, China, 2010.

Siart, C., O. Bubenzer, and B. Eitel (2009), Combining digital elevation data (SRTM ASTER), high resolution satellite imagery (Quickbird) and GIS for geomorphological mapping: A multi-component case study on Mediterranean karst in Central Crete, *Geomorphology*, 112(1-2), 106-121.

Siart, C., S. Hecht, I. Holzhauer, R. Altherr, H. P. Meyer, G. Schukraft, B. Eitel, O. Bubenzer, and D. Panagiotopoulos (2010), Karst depressions as geoarchaeological archives: The palaeoenvironmental reconstruction of Zominthos (Central Crete), based on geophysical prospection, sedimentological investigations and GIS, *Quaternary International*, 216(1-2), 75-92.

Sidorova, I. (2006), Geodynamical model of oil-gas and mineral deposits using RS&GIS Western Uzbekistan, *EOS Transactions, American Geophysical Union*, 87(Abstract).

Sidorova, Y. (2008), Monitoring of glacial landforms in western Tien Shan using RS GIS, *33rd international geological congress, Oslo, Norway, Aug. 6-14, 2008*, 33(Abstract), @Abstract 1198571.

Siegert, F., and S. Huang Large-scale forest fires in Siberia analysed by MODIS, MERIS and ASTER multiresolution satellite imagery, paper presented at 2004 Envisat

and ERS Symposium, Sep 6-10 2004, European Space Agency, Noordwijk, 2200 AG, Netherlands, Salzburg, Austria, 2005.

Sieh, K., and H. Frey (2004), Active Tectonics of the Arabia-Eurasia Collision Zone and Myanmar: Testing the Utility of SRTM and Aster Data for Understanding Regions of Distributed Deformation, edited, California Inst. of Tech.; Pasadena, CA.

Silva, L. G., L. C. Goncalves, and H. L. Roig (2004), Processing, interpretation and integration of multispectral orbital sensors (ASTER and ETM+) data for prospecting mineralized targets of zinc and lead in the Paracatu-Vazante Belt (Minas Gerais State, Brazil), *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004, 32, Part 2(Abstract)*, 943.

Sinding-Larsen, R., B. Saether, and T. Roussel (2008), Meteosat low resolution data processing for quality control and correction of middle resolution data in geological mapping, *33rd international geological congress, Oslo, Norway, Aug. 6-14, 2008, 33(Abstract)*, @Abstract 1399258.

Singh, D. (2008), A Pixel Purity Index and Curvelet based approach for the Fusion of ASTER and MODIS data for land cover classification, *37th COSPAR Scientific Assembly, 13-20 July 2008, Montréal, Canada, 37(Abstract)*, 2920.

Sirguey, P., R. Mathieu, and Y. Arnaud (2009), Subpixel monitoring of the seasonal snow cover with MODIS at 250 m spatial resolution in the Southern Alps of New Zealand: Methodology and accuracy assessment, *Remote Sensing of Environment*, 113(1), 160-181.

Sirguey, P., R. Mathieu, Y. Arnaud, M. M. Khan, and J. Chanussot Improved resolution for the detection of snow with MODIS using wavelet fusion, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Sirguey, P., R. Mathieu, Y. Arnaud, M. M. Khanand, and J. Chanussot (2008), Improving MODIS spatial resolution for snow mapping using wavelet fusion and ARSIS concept, *IEEE Geoscience and Remote Sensing Letters*, 5(1), 78-82.

Sivanpillai, R., and S. N. Miller (2010), Improvements in mapping water bodies using ASTER data, *Ecological Informatics*, 5(1), 73-78.

Sladek, C., M. F. Coolbaugh, and C. Kratt Improvements in shallow (two-meter) temperature measurements and data interpretation, paper presented at Geothermal Resources Council Annual Meeting 2009, Geothermal 2009, October 4, 2009 - October 7, Geothermal Resources Council, Davis, CA, United states, 2009.

Slater, P. (1994), ASTER and MODIS project report; Topical Semiannual Report, July 1 - December 31 1994 *Rep. NASA-CR-197927;NAS 1.26:197927;REPT-36*, 1-19 pp, Arizona Univ.; Remote Sensing Group.; Tucson, AZ, United States.

Slater, P., and K. Thome (1997), EOS Contract Report: The ASTER and MODIS Projects; Semiannual Report *Rep. NASA-CR-205013;Rept-66;NAS 1.26:205013*, 1-36 pp, Arizona Univ.; Optical Science Center; Tucson, AZ.

Slater, P., and K. Thome (1997), Semi-Annual EOS Contract Report; Semiannual report no. 60 *Rep. NASA-CR-203313;NAS 1.26:203313*, 1-18 pp, Arizona Univ.; Remote Sensing Group; Phoenix, AZ.

Slater, P., and K. c. Thome (1997), EOS Contract Report: The ASTER and MODIS Projects (Semiannual Report, 1 Jan. 1997 - 30 Jun. 1997) *Rep.*

Slater, P. N., S. F. Biggar, K. J. Thome, D. I. Gellman, and P. R. Spyak In-flight radiometric calibration of ASTER by reference to well-characterized scenes, paper presented at Platforms and Systems, Sept. 28, 29, 1994, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, Rome, Italy, 1995.

Slater, P. N., K. J. Thome, K. Arai, H. Fujisada, H. H. Kieffer, A. S. F. Ono, F. D. Palluconi, and Y. Yamaguchi (1995), Radiometric Calibration of ASTER Data, *Journal of Remote Sensing Society of Japan*, 15, NO.2(Journal Article), PAGE.108-115.

Sluiter, R., and E. J. Pebesma (2010), Comparing techniques for vegetation classification using multi- and hyperspectral images and ancillary environmental data, *International Journal of Remote Sensing*, 31(23), 6143-6161.

Smailbegovic, A. (2002), Structural and lithologic constraints to mineralization in Aurora, Nevada and Bodie, California mining districts, observed with aerospace geophysical data, 260-3202 pp, University of Nevada, Reno; 0139 Advisor: Adviser James V. Taranik.

Smailbegovic, A., G. L. Oppliger, M. J. Mihalasky, and J. V. Taranik (2002), Structural and lithologic constraints to metallogenesis in the Bodie Hills, Nevada and California, interpreted with geophysical and geostatistical methods; Geological Society of America, 2002 annual meeting, *Geological Society of America, 2002 annual meeting, Denver, CO, United States, Oct. 27-30, 2002*, 34(6), 264-265.

Smailbegovic, A., and J. V. Taranik (2001), Mineralization in Aurora, NV and Bodie, CA observed with aerospace geophysical data; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 347.

Smailbegovic, A., J. V. Taranik, R. G. Vaughan, F. A. Kruse, and A. A. M. I. U. S. s. Veridan Erim International Geological utility of ASTER, MASTER, TIMS and SEBASS multiband thermal data; Proceedings of the Fourteenth international conference on

Applied geologic remote sensing, paper presented at Fourteenth international conference on Applied geologic remote sensing, Las Vegas, NV, United States, Nov. 6-8, 2000, Veridian ERIM International, Ann Arbor, MI, United States (USA), United States (USA), 2000.

Smellie, J., M. Patrick, A. Harris, H. Garbeil, and E. Pilger (2003), First recorded eruption of Mount Belinda Volcano, South Sandwich Islands; AGU 2003 fall meeting, *American Geophysical Union 2003 fall meeting, San Francisco, CA, United States, Dec. 8-12, 2003*, 84(46, Suppl.), F1597.

Smith, A. M. (2004), Neogene tectonics in the Saratoga Valley, Wyoming; preliminary results from a study combining ASTER, Landsat, and aerial imagery with field work and GIS, *American Geophysical Union 2004 fall meeting, San Francisco, CA, United States, Dec. 13-17, 2004*, 85(47, Suppl.), @Abstract T33C-1393.

Smith, A. M. S., M. J. Falkowski, A. T. Hudak, J. S. Evans, A. P. Robinson, and C. M. Steele (2009), A cross-comparison of field, spectral, and lidar estimates of forest canopy cover, *Canadian Journal of Remote Sensing*, 35(5), 447-459.

Smith, E. S., and R. L. Nusbaum (2006), Mapping parts of the Toquima and Toiyabe Ranges in Nevada using DEM along with ASTER and ALI remote sensing data; Geological Society of America, Southeastern Section, 55th annual meeting, *Geological Society of America, Southeastern Section, 55th annual meeting, Knoxville, TN, United States, March 23-24, 2006*, 38(3), 34.

Smith, J. A., J. M. Ramage, and D. T. Rodbell (2005), Comparing reconstructed Pleistocene equilibrium-line altitudes for the tropical Andes of central Peru; Geological Society of America, Northeastern Section, 40th annual meeting, *Geological Society of America, Northeastern Section, 40th annual meeting, Saratoga Springs, NY, United States, March 14-16, 2005*, 37(1), 57.

Smith, M. W. (1992), Design, Construction, and Calibration of a Portable Short Wave Infrared Spectroradiometer (REFLECTANCE, SPECTRORADIOMETER), 169-5785 pp, THE UNIVERSITY OF ARIZONA; 0009 Advisor: Director: PHILIP N. SLATER.

Smith, S. J., J. Dehn, and R. B. Moore (2003), Analysis of Volcanic Deposits From the 2001 Eruption of Mt. Cleveland, Alaska Using Multisensor Satellite Data and Field Observations, *AGU Fall Meeting Abstracts*, 51(Abstract), 0349.

Sneed, W. A., and G. S. Hamilton (2006), Determining surface meltwater pond volume using satellite imagery, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Sneed, W. A., and G. S. Hamilton (2007), Evolution of melt pond volume on the surface of the Greenland Ice Sheet, *Geophysical Research Letters*, 34(3), L03501-L03501.

Snodgrass, E. R., R. M. Rauber, L. Di Girolamo, and G. Zhao Synergizing high-resolution EOS Terra satellite data and S-POLKA radar reflectivity to assess trade wind cumuli precipitation, 2005.

Snodgrass, E. R., R. M. Rauber, L. Di Girolamo, and G. Zhao Synergizing high-resolution EOS Terra satellite data and S-POLKA radar reflectivity to assess trade wind cumuli precipitation, 2005.

Sobrino, J. A., J. C. Jimenez-Munoz, L. Balick, A. R. Gillespie, D. A. Sabol, and W. T. Gustafson (2007), Accuracy of ASTER Level-2 thermal-infrared Standard Products of an agricultural area in Spain, *Remote Sensing of Environment*, 106(2), 146-153.

Sobrino, J. A., C. Mattar, P. Pardo, J. Jimenez-Munoz, S. J. Hook, A. Baldridge, and R. Ibanez (2009), Soil emissivity and reflectance spectra measurements, *Applied Optics*, 48(19), 3664-3670.

Soe, M., T. Isao, and T. A. Kyaw (2005), Application of Remote Sensing Techniques on Iron Oxide Detection from ASTER and Landsat Images of Tanintharyi Coastal Area, Myanmar, *Scientific and Technical Reports of Faculty of Engineering and Resource Science, Akita University*, NO.26(Journal Article), PAGE.21-28.

Sohlberg, R. A. Use of NASA Earth Observing System Data to Monitor Active Fires and to Develop SensorWeb Decision Support Systems (2003 - 2FireEco), 2003.

Sokolik, I. N., R. E. Dickinson, and Y. Dai (2006), Impact of Atmospheric Mineral Dust on the Surface Energy Balance and PAR in the NEESPI Study Domain, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Solomon, S. (2003), Remote sensing and GIS: Applications for groundwater potential assessment in Eritrea, 136-394 pp, Kungliga Tekniska Hogskolan (Sweden); 1022; Royal Institute of Technology, SE-100 44 Stockholm, Sweden.

Solt, M. (2006), Remotely sensing La Reforma Caldera by applying ENVI processing to ASTER image data, *Geological Society of America, 2006 annual meeting, Philadelphia, PA, United States, Oct. 22-25, 2006*, 38(7), 564.

Sommer, J. A. P., E. F. de Lima, D. L. Saldanha, C. A. Sommer, and R. Pierosan (2006), O uso de imagens do sensor ASTER no mapeamento de unidades vulcano-sedimentares do plato da Ramada, Vila Nova do Sul, RS. ASTER instrument imagery to map volcano-sedimentary units in the Ramada Plateau, Vila Nova do Sul, Rio Grande do Sul, *Pesquisas em Geociencias*, 33(1), 23-36.

Song, X., W. Huang, J. Wang, L. Liu, and C. Li (2006), Preliminary application of ASTER images in winter wheat quality monitoring, *Nongye Gongcheng Xuebao Transactions of the Chinese Society of Agricultural Engineering*, 22(9), 148-153.

Songer, M., M. Aung, B. Senior, R. DeFries, and P. Leimgruber (2009), Spatial and temporal deforestation dynamics in protected and unprotected dry forests: a case study from Myanmar (Burma), *Biodiversity and Conservation*, 18(4), 1001-1018.

Songer, M. A. (2006), Endangered dry deciduous forests of Upper Myanmar (Burma): A multi-scale approach for research and conservation, 155-4298 pp, University of Maryland, College Park; 0117 Advisor: Adviser Ruth S. DeFries.

Soti, V., C. Puech, D. Lo Seen, A. Bertran, C. Vignolles, B. Mondet, N. Dessay, and A. Tran (2010), The potential for remote sensing and hydrologic modelling to assess the spatio-temporal dynamics of ponds in the Ferlo Region (Senegal), *Hydrology and Earth System Sciences*, 14(8), 1449-1464.

Sousa, J. G. D., J. A. M. Dematte, and A. M. Genu (2008), Spectral response of soils in the landscape based on terrestrial and orbital data acquisition levels, *Revista Brasileira De Ciencia do Solo*, 32(2), 727-738.

Souza Filho, C. R. (2004), Infrared spectroscopy and ASTER imagery analysis of porphyry copper deposits in the Andes, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004*, 32, Part 2(Abstract), 943.

Spruce, J., J. Berglund, and B. Davis Developing Coastal Surface Roughness Maps Using ASTER and QuickBird Data Sources, paper presented at 2004 High Spatial Resolution Commercial Imagery Workshop; 8-10 Nov, 2004; Reston, VA, NASA Stennis Space Center; Stennis Space Center, MS, 2006.

Spruce, J. P., and C. Hall (2005), Techniques for Producing Coastal Land Water Masks from Landsat and Other Multispectral Satellite Data, in *Twenty-Fifth Annual ESRI International User Conference*, edited, p. 1, San Diego, CA United States United States 25-29 Jul. 2005.

Spruce, J. P., R. E. Ryan, J. C. Smoot, D. Prados, R. McKellip, S. S. A, J. Gasser, G. May, and W. Hargrove (2007), Potential of VIIRS Data for Regional Monitoring of Gypsy Moth Defoliation: Implications for Forest Threat Early Warning System, *American Geophysical Union 2007 Winter Meeting*(Abstract), 1-2.

Spruce, J. P., et al. (2011), Assessment of MODIS NDVI time series data products for detecting forest defoliation by gypsy moth outbreaks, *Remote Sensing of Environment*, 115(2), 427-437.

Spruce, J. P., J. Smoot, and W. Graham Developing new coastal forest restoration products based on Landsat, ASTER, and MODIS data, paper presented at OCEANS 2009, MTS/IEEE Biloxi - Marine Technology for Our Future: Global and Local Challenges, IEEE, 2009.

Spyak, P. R., D. S. Smith, J. Thiry, and C. Burkhart (2000), Short-wave infrared transfer radiometer for the calibration of the moderate-resolution imaging spectrometer and the

advanced spaceborne thermal emission and reflection radiometer, *Applied Optics*, 39(31), 5694-5706.

Spyropoulou, K. D. (2003), Interpretation of tectonics from digital elevation data in the San Gabriel Mountains, CA; evaluation of methods and data sources, Massachusetts Institute of Technology, Cambridge, MA, United States (USA), United States (USA).

Srivastava, P. K., T. J. Majumdar, and A. K. Bhattacharya (2009), Surface temperature estimation in Singhbhum Shear Zone of India using Landsat-7 ETM+ thermal infrared data, *Advances in Space Research*, 43(10), 1563-1574.

Srivastava, P. K., T. J. Majumdar, and A. K. Bhattacharya (2010), Study of land surface temperature and spectral emissivity using multi-sensor satellite data, *Journal of Earth System Science*, 119(1), 67-74.

Stadler, S. J., K. P. Czajkowski, S. N. Goward, and Y. Xue (2001), Terrestrial Environmental Variables Derived From EOS Platform Sensors; Final ReportRep. OSU-AA-5-51109, 1-7 pp, Oklahoma State Univ.; Dept. of Geography; Stillwater, OK.

Stamoulis, V. (2006), ASTER night-time thermal infrared data; interpreting subsurface features from high resolution data, *MESA Journal*, 43(Journal Article), 36-39.

Stamoulis, V., J. Hall, M. Australasian Institute of, and C. V. Metallurgy (2007), New technology used to detect palaeochannels; a case study from the Lake Frome district in South Australia, *Australia's uranium conference 2007, Darwin, North. Territ., Australia, May 15-16, 2007*, 3/2007(Abstract), 75.

Stamoulis, V., and P. Rogers (2003), Geological mapping for mineral exploration using ASTER data, *MESA Journal*, 30(Journal Article), 16-19.

Stancalie, G., V. Craciunescu, C. Fleraru, and S. Catana (2007), Contribution of Earth Observation data to flood risk mapping, *9th European Geosciences Union General Assembly, Vienna (Austria), 15-20 Apr 2007*(Abstract).

Stanichny, S., V. Burdugov, R. Stanichnaya, and D. Soloviev (2007), Satellite monitoring of the processes in the Aral and Caspian Seas, *9th European Geosciences Union General Assembly, Vienna (Austria), 15-20 Apr 2007*(Abstract).

Starr, D. EOS Terra Validation Program, paper presented at AGU Spring Meeting 30 May - 3 Jun. 2000, Washington, DC, 2000.

Starr, D. (1999), EOS Terra Validation Program, in *Atmospheric Radiation*, edited, p. 1, Madison, WI United States United States 28 Jun. - 2 Jul. 1999.

Staskowski, R. J., J. R. Everett, and C. K. Dacre (2006), Recognition of hydrocarbon related spectral anomalies using a transect method, *AAPG 2006 annual convention, Houston, TX, United States, April 9-12, 2006*, 15(Abstract), 101.

Staskowski, R. J., C. M. Jengo, and J. R. Everett (2004), Utility of ASTER for detecting hydrocarbon, *AAPG annual meeting, Dallas, TX, United States, April 18-21, 2004*, 13(Abstract), 132.

Stearns, L., and G. Hamilton (2005), A new velocity map for Byrd Glacier, East Antarctica, from sequential ASTER satellite imagery, *ANNALS OF GLACIOLOGY*, 41(Journal Article), 71-76.

Stearns, L. A., and G. S. Hamilton (2003), Velocities along Byrd Glacier, East Antarctica, derived from Automatic Feature Tracking, *AGU Fall Meeting Abstracts*, 84(46, Suppl.), Abstract C11C-0828.

Stearns, L. A., and G. S. Hamilton (2006), Rapid Ice Volume Loss from East Greenland Outlet Glaciers Quantified using Repeat Stereo Satellite Imagery, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Stearns, L. A., and G. S. Hamilton (2007), Rapid volume loss from two East Greenland outlet glaciers quantified using repeat stereo satellite imagery, *Geophysical Research Letters*, 34(5), L05503-L05503.

Stearns, L. A., and G. S. Hamilton (2007), Thinning and Acceleration of East Antarctic Outlet Glaciers, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 88(52,; Suppl. Volume 1-2).

Steele, C. M., A. Smith, A. Campanella, and A. Rango (2008), The contribution of vegetation cover and bare soil to pixel reflectance in an arid ecosystem, *AGU Fall Meeting Abstracts*, 32(Abstract), 02.

Stefanov, W. L. (2003), Investigation of human impacts on surficial geomorphology in mountain parks using master data; preliminary results, *American Geophysical Union 2003 fall meeting, San Francisco, CA, United States, Dec. 8-12, 2003*, 84(46, Suppl.), F748.

Stefanov, W. L., and N. M (2007), Characterization and Monitoring of Urban/Peri-Urban Ecological Function and Landscape Structure using Satellite Data(Journal Article), 29-29.

Stefanov, W. L., and M. Netzband (2005), Assessment of ASTER land cover and MODIS NDVI data at multiple scales for ecological characterization of an arid urban center, *Scientific Results from ASTER*, 99(1-2), 31-43.

Stefanov, W. L., M. S. Ramsey, and P. R. Christensen (2001), Monitoring urban land cover change: An expert system approach to land cover classification of semiarid to arid urban centers, *Remote Sensing of Environment*, 77(2), 173-185.

Steffke, A., J. Dehn, and K. Dean (2004), Preliminary Analysis of Thermal Flux Associated With Dome Growth of Bezymianny Volcano Using Spaceborne Thermal Infrared Data, *AGU Fall Meeting Abstracts*, 85(47, Suppl.), 1478-Abstract V1433B-1478.

Steffke, A. M., R. L. Nusbaum, and A. Smailbegovic (2001), Remote mapping of quartz veins associated with gold-silver mineralization, Aurora mining district, western Nevada; Geological Society of America, Southeastern Section, 50th annual meeting, *Geological Society of America, Southeastern Section, 50th annual meeting, Raleigh, NC, United States, April 5-6, 2001*, 33(2), 77.

Stein, A., J. Aryal, and G. Gort (2005), Use of the Bradley-Terry model to quantify association in remotely sensed images, *IEEE Transactions on Geoscience and Remote Sensing*, 43(4), 852-856.

Steissberg, T. E., S. J. Hook, and G. Schladow (2006), High-Spatial-Resolution Thermal Infrared Satellite Images for Lake Studies, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Steissberg, T. E., S. J. Hook, and S. G. Schladow (2005), Characterizing partial upwellings and surface circulation at Lake Tahoe, California-Nevada, USA with thermal infrared images, *Scientific Results from ASTER*, 99(1-2), 2-15.

Steissberg, T. E., S. J. Hook, and S. G. Schladow (2005), Measuring surface currents in lakes with high spatial resolution thermal infrared imagery, *Geophysical Research Letters*, 32(11), 11402.

Stephens, S. C. (2006), Measuring soil organic carbon using reflectance-based models in the intermountain West, 57-1347 pp, Utah State University; 0241 Advisor: Adviser V. Philip Rasmussen.

Stern, R. J., M. Beyth, J. Bodechtel, and H.-U. Wetzel (2002), Potential of the International Space Station for imaging Earth; lessons from MOMS-2P aboard Mir, *Geology (Boulder)*, 30(9), 851-854.

Stevens, N. F., H. Garbeil, and P. J. Mouginis-Mark (2004), NASA EOS Terra ASTER: Volcanic topographic mapping and capability, *Remote Sensing of Environment*, 90(3), 405-414.

Stevens, N. F., H. Garbeil, P. J. Mouginis-Mark, V. R. Manville, and D. Tilyard (2004), NASA EOS Terra ASTER; volcanic topographic mapping and capability; Geological Society of New Zealand/New Zealand Geophysical Society/26th New Zealand geothermal workshop; programme and abstracts, *Geological Society of New Zealand New Zealand Geophysical Society/26th New Zealand geothermal workshop combined conference, Taupo, New Zealand, Dec. 6-9, 2004*, 117A(Journal Article), 103.

Stokes, C. R., and C. Clark (2003), Ice stream initiation and shut-down; evidence from the Dubawnt Lake palaeo-ice stream, NW Canadian Shield; XVI INQUA congress; shaping the Earth; a Quaternary perspective, *XVI INQUA congress; shaping the Earth; a Quaternary perspective, Reno, NV, United States, July 23-30, 2003*, 16(Abstract), 116.

Stoll, B., and P. Capolsini A simple class-set based vegetation classification of a South Pacific Volcanic Island (Moorea Island, French Polynesia) using both AirSAR and MASTER data, paper presented at 2004 IEEE International Geoscience and Remote Sensing Symposium Proceedings: Science for Society: Exploring and Managing a Changing Planet. IGARSS 2004, Sep 20-24 2004, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Anchorage, AK, United States, 2004.

Stoltz, T. A. (2008), Geological mapping of Orhon, Tariat, and Egiin Dawaan, central Mongolia, through the interpretation of remote sensing data, 102-102 pp, Wright State University, Dayton, OH, United States (USA), United States (USA).

Stone, T. C., H. H. Kieffer, and K. J. Becker Modeling the Radiance of the Moon for On-orbit Calibration, paper presented at Earth Observing Systems VIII, Aug 3-6 2003, The International Society for Optical Engineering, 2003.

Stoops, C. A., Y. R. Gionar, Shinta, P. Sismadi, A. Rachmat, I. F. Elyazar, and S. Sukowati (2008), Remotely-sensed land use patterns and the presence of Anopheles larvae (Diptera : Culicidae) in Sukabumi, West Java, Indonesia, *Journal of Vector Ecology*, 33(1), 30-39.

Storvold, R., and E. Malnes Snow covered area retrieval using ENVISAT ASAR wideswath in mountainous areas, paper presented at 2004 IEEE International Geoscience and Remote Sensing Symposium Proceedings: Science for Society: Exploring and Managing a Changing Planet. IGARSS 2004, Sep 20-24 2004, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Anchorage, AK, United States, 2004.

Strasen, J. L. (2004), Fine-scale lithofacies discrimination of Jurassic sedimentary rocks using ASTER data, Bighorn Basin, north-central Wyoming; Geological Society of America, 2004 annual meeting, *Geological Society of America, 2004 annual meeting, Denver, CO, United States, Nov. 7-10, 2004*, 36(5), 384.

Strasen, J. L. (2008), Depositional environments of the Middle Jurassic lower Sundance Formation, Bighorn Basin, Wyoming, 289-2867 pp, University of Houston, Houston, TX.

Strasen, J. L., H. S. Chafetz, and S. Khan (2009), Discrete lithofacies discrimination of Jurassic strata using Advanced Spaceborne Thermal Emission and Reflection Radiometer Data, Bighorn Basin, Wyoming, USA, *Sedimentology*, 56(5), 1535-1551.

Strieder, A. J., S. A. Buffon, T. F. P. de Quadros, and H. R. Oliveira (2006), Predicting favourable areas for landsliding through GIS modelling in Aparados da Serra (Brazil); *Geo-environment & landscape evolution II; Evolution, monitoring, simulation, management and remediation of the geological environment and landscape, Geo-environment & landscape evolution 2006; Second international conference on Evolution, monitoring, simulation, management and remediation of the geological environment and landscape, Rhodes, Greece, June 2006*, 89(Journal Article), 467-475.

Strojnik, M., and B. F. Andresen Infrared Spaceborne Remote Sensing IX; Proceedings of the conference, San Diego, CA, Aug. 1-3, 2001, paper presented at UNITED STATES, the International Society for Optical EngineeringProceedings of SPIE, the International Society for Optical Engineering, 2001.

Strojnik, M., and B. F. Andresen Introduction, paper presented at Infrared Spaceborne Remote Sensing IX, Aug 1-3 2001, The International Society for Optical Engineering, San Diego, CA, United States, 2002.

Stroppiana, D., M. Boschetti, P. Zaffaroni, and P. A. Brivio (2009), Analysis and Interpretation of Spectral Indices for Soft Multicriteria Burned-Area Mapping in Mediterranean Regions, *Geoscience and Remote Sensing Letters, IEEE*, 6(3), 499-503.

Stutz, J., and L. Schoenbohm (2008), Climatic and tectonic controls on ELA and glacial characteristics in the King Ata Tagh Range, western China; testing the glacial buzzsaw hypothesis, *American Geophysical Union 2008 fall meeting, San Francisco, CA, United States, Dec. 15-19, 2008*, 89(53, Suppl.), T53A-1906.

Suga, Y., T. Konishi, and S. Takeuchi Comparison of the performances of middle-resolution multi-spectral images for vegetation cover rate extraction based on mixture analyses, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology VII, SPIE, Bellingham WA, WA 98227-0010, United States, Florence, Italy, 2007.

Suga, Y., K. Ono, T. Shoji, and H. Ogawa A Trial for Data Fusion by Using EROS-A1 Image. Combination with Terra / ASTER and Landsat -7/ETM+ Images, Japan, 2001.

Sugisaki, T., and H. Tonooka Evaluation of land surface reflectance and emissivity spectra retrieved from MASTER data, paper presented at Sensors, Systems, and Next-Generation Satellites XII, SPIE - The International Society for Optical Engineering, USA, 2008.

Sugita, M., J. Asanuma, M. Tsujimura, S. Mariko, M. Lu, F. Kimura, D. Azzaya, and T. Adyasuren (2007), An overview of the rangelands atmosphere-hydrosphere-biosphere interaction study experiment in northeastern Asia (RAISE), *Journal of Hydrology*, 333(1), 3-20.

Suleiman, A. A., K. M. Bali, and J. Kleissl Comparison of ALARM and SEBAL evapotranspiration of irrigated alfalfa, paper presented at American Society of

Agricultural and Biological Engineers Annual International Meeting 2009, June 21, 2009 - June 24, 2009, American Society of Agricultural and Biological Engineers, United states, 2009.

Sulieman, H. M., and M. F. Buchroithner Multi-temporal classification of abandoned agricultural land in Gadarif region, Sudan, using original bands, indices and feature components of spaceborne imagery, paper presented at Proceedings of MultiTemp 2007 - 2007 International Workshop on the Analysis of Multi-Temporal Remote Sensing Images, IEEE, Leuven, Belgium, 2007.

Sultana, D. N. (2005), What is controlling the Gorge of the Nile in Ethiopia? An integrated approach from ASTER, RADARSAT, DEMS, and field studies, *AAPG 2005 annual convention, Calgary, AB, Canada, June 19-22, 2005*, 14(Abstract), A135.

Sultana, D. N., and M. G. Abdelsalam (2003), Evolution of the Gorge of the Nile, Ethiopia, from integration of optical and radar remote sensing data and digital elevation models; Geological Society of America, 2003 annual meeting, *Geological Society of America, 2003 annual meeting, Seattle, WA, United States, Nov. 2-5, 2003*, 35(6), 63.

Sultana, D. N., and M. G. Abdelsalam (2004), Multi-spatial resolution digital elevation models for studying the evolution of complex drainage system; the Gorge of the Nile, Ethiopia, *AAPG annual meeting, Dallas, TX, United States, April 18-21, 2004*, 13(Abstract), 134.

Sultana, D. N., and M. G. Abdelsalam (2005), Geologic controls of the gorge of the Nile in Ethiopia; an integrated approach from ASTER, RADARSAT, DEMs and field studies; Geological Society of America, South-Central Section, 39th annual meeting, *Geological Society of America, South-Central Section, 39th annual meeting, San Antonio, TX, United States, April 1-2, 2005*, 37(3), 4-5.

Sultana, D. N., and M. G. Abdelsalam (2005), Extensional geologic history of the Blue Nile Basin, Ethiopia, from remote sensing data and field studies, *AAPG 2005 annual convention, Calgary, AB, Canada, June 19-22, 2005*, 14(Abstract), A135.

Sultana, D. N., M. G. Abdelsalam, and T. C. Chidsey, Jr. (2003), Evolution of the Blue Nile gorge, Ethiopia, from optical and radar remote sensing and digital elevation models data integration; 2003 AAPG annual convention with SEPM, *AAPG annual convention with SEPM, Salt Lake City, UT, United States, May 11-14, 2003*, 12(Abstract), 164.

Sun, L., L.-F. Chen, Q. Liu, Q.-H. Liu, and A.-B. Song Analysis on uncertainty in the MODIS retrieved land surface temperature using field measurements and high resolution images, paper presented at 2004 IEEE International Geoscience and Remote Sensing Symposium Proceedings: Science for Society: Exploring and Managing a Changing Planet. IGARSS 2004, Sep 20-24 2004, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, 2004.

Sun, Q., J. Tan, and Y. Xu (2010), An ERDAS image processing method for retrieving LST and describing urban heat evolution: a case study in the Pearl River Delta Region in South China, *Environmental Earth Sciences*, 59(5), 1047-1055.

Sun, Z., Q. Wang, T. Fukushima, B. Matsushita, and M. Watanabe Evaluation of the VI-Ts Method for Land Surface Moisture Index and Air Temperature using ASTER and MODIS Data in the North China Plain, paper presented at 20th Annual Conference (2007), Japan Society of Hydrology and Water Resources, Japan Society of Hydrology and Water Resources, 2007.

Sun, Z., Q. Wang, B. Matsushita, T. Fukushima, O. Zhu, and M. Watanabe (2008), A New Method to Define the VI-Ts Diagram Using Subpixel Vegetation and Soil Information: A Case Study over a Semiarid Agricultural Region in the North China Plain, *Sensors*, 8(10), 6260-6279.

Surazakov, A. B., V. B. Aizen, and V. A. Kuzmichenok (2004), Shuttle topography radar mission DEM, ASTER images and aerial photography in evaluation of mountain glacier area and volume changes, *American Geophysical Union 2004 fall meeting, San Francisco, CA, United States, Dec. 13-17, 2004*, 85(47, Suppl.), Absract H23D-1148.

Surazakov, A. B., V. B. Aizen, and E. M. Aizen (2007), The Whole Tien Shan Glacier Area Changes Between 1973 and 2003 Estimated From Corona and ASTER Satellite Imagery, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 88(52,; Suppl. Volume 1-2).

Surazakov, A. B., V. B. Aizen, E. M. Aizen, S. A. Nikitin, and J. K. Narojniy (2006), Glacier Area and River Runoff Changes in the Head of Ob River Basins During the Last 50 Years, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52, Suppl.).

Suri, S., M. K. Arora, R. Seiler, and E. Csaplovics Applicability and performance of some similarity metrics for automated image registration, paper presented at Multispectral, Hyperspectral, and Ultraspectral Remote Sensing Technology, Techniques, and Applications, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, Goa, India, 2006.

Survey, U. S. G. (2008), TerraLook; GIS-ready time-series of satellite imagery for monitoring changeRep., 1-2 pp, U. S. Geological Survey, Reston, VA, United States (USA), United States (USA).

Suryantini, S. E., F. J. A. van Ruitenbeek, and F. D. van der Meer The effect of weathering on reflectance spectra of hydrothermal white micas and chlorites; implications for alteration mapping, paper presented at Mineral deposit research; meeting the global challenge; proceedings: Eighth biennial SGA meeting, Beijing, China, Aug. 18-21, 2005, Springer, Berlin, Federal Republic of Germany (DEU), Federal Republic of Germany (DEU), 2005.

Susaki, J., Y. Yasuoka, K. Kajiwara, Y. Honda, and K. Hara (2007), Validation of MODIS albedo products of paddy fields in Japan, *IEEE Transactions on Geoscience and Remote Sensing*, 45(1), 206-217.

Sutinen, R., M. Middleton, P. Liwata, M. Piekkari, and E. Hyvonen (2009), Sediment anisotropy coincides with moraine ridge trend in south-central Finnish Lapland, *Boreas*, 38(3), 638-646.

Suzen, M. L., N. Kaymakci, and I. Kuscu (2005), Uzaktan algilama ve mineral haritalama--Remote sensing and mineral mapping, *58 Turkiye jeoloji kurultayi--58th geological congress of Turkey, Ankara, Turkey, April 11-17, 2005*, 58(Abstract), 208-209.

Suzuki, K., and Y. Yamamoto (2006), Hydrologic Image Interpretation on Small-scale On-farm Pond Using High Spatial Resolution Satellite Data, *Journal of Japan Society of Hydrology and Water Research*, 19(3), 205-211.

Suzuki, R., Y. Ageta, and K. Fujita Estimate on thermal resistance of debris-covered glaciers in the Himalayas using ASTER, paper presented at The 2005 Conference Japanese Society of Snow and Ice, Japanese Society of Snow and Ice, 2005.

Suzuki, R., Y. Ageta, N. Naito, T. Yamada, H. Yabuki, and Karma Estimation on Glacier Melting in Lunana Region, Bhutan by Using ASTER Images, paper presented at The 2004 Conference Japanese Society of Snow and Ice, Japanese Society of Snow and Ice, 2004.

Suzuki, R., K. Fujita, and Y. Ageta (2006), Spatial Distribution of Thermal Properties on Debris-Covered Glaciers in the Himalayas Derived From ASTER Data, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Svoboda, F., and F. Paul (2009), A new glacier inventory on southern Baffin Island, Canada, from ASTER data; I, Methods, challenges and solutions, *European Geosciences Union general assembly 2009, Vienna, AUT, Austria, April 19-24, 2009*, 11(Abstract), EGU2009-11392.

Svoboda, F., and F. Paul (2009), A new glacier inventory on southern Baffin Island, Canada, from ASTER data; I, Applied methods, challenges and solutions, *World glacier inventory*, 50(53), 11-21.

Swalf, P. S., A. P. Crosta, and F. C. R. de Souza (2000), Spectral modeling for identification of mineral assemblages associated with gold mineralization in tropical subtropical environments; a case study in central-western Brazil; Brazil 2000; 31st international geological congress; abstracts volume, *Brazil 2000; 31st international geological congress, Rio de Janeiro, Brazil, Aug. 6-17, 2000*, 31(Abstract).

Swalf, P. S., A. P. Crosta, and C. R. de Souza Filho (2003), Remote sensing signature of the Morro do Ouro gold deposit, Minas Gerais, Brazil, using reflectance spectrometry; application to mineral exploration using spaceborne multispectral sensors; Geotecnologias aplicadas a geologia. Applied geotechnologies in geology, *Revista Brasileira de Geociencias*, 33(2, Suplemento), 221-227.

Swalf, P. S., A. P. Crosta, C. R. de Souza Filho, and A. A. M. I. U. S. s. Veridan Erim International A remote sensing model for detecting geologic features associated with blackshale-hosted gold mineralization in tropical/sub-tropical environments; Proceedings of the Fourteenth international conference on Applied geologic remote sensing, paper presented at Fourteenth international conference on Applied geologic remote sensing, Las Vegas, NV, United States, Nov. 6-8, 2000, Veridian ERIM International, Ann Arbor, MI, United States (USA), United States (USA), 2000.

Swayze, G. A., and R. N. Clark Spectral identification of minerals using imaging spectrometry data: Evaluating the effects of signal to noise and spectral resolution using the tricorder algorithm, paper presented at JPL, Summaries of the Fifth Annual JPL Airborne Earth Science Workshop. Volume 1: AVIRIS Workshop, United States, 1995.

Sweat, P. C. (2008), Verification of Aerosol Optical Depth Retrievals using Cloud Shadows Retrieved from Satellite Imagery, 1-86 pp, Naval Postgraduate School; Monterey, CA, Naval Postgraduate School; Monterey, CA.

Tachikawa, T., and E. Abbott (2004), ASTER Science Team Meeting, *Earth Observer*, 16(5), 23-27.

Tadono, T., M. Shimada, T. Hashimoto, H. Murakami, J. Takaku, and A. Mukaida Results of initial calibration and validation for ALOS optical sensors (PRISM and AVNIR-2), 2006.

Tadono, T., M. Shimada, S. Kawamoto, J. Takaku, A. Mukaida, M. Sasaki, and J. Yamashita Simulation of calibration and validation for ALOS optical sensors, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Tadono, T., M. Shimada, and H. Murakami (2007), Initial Calibration Results and Accuracy Assessments of PRISM and AVNIR-2 Onboard ALOS, *Journal of The Remote Sensing Society of Japan*, 27(4), 329-343.

Tadono, T., M. Shimada, H. Murakami, A. Mukaida, J. Takaku, and S. Kawamoto Preliminary results of calibration for ALOS optical sensors and validation of generated PRISM DSM, paper presented at Sensors, Systems, and Next-Generation Satellites X, Sep 11-13 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, 2006.

Tadono, T., M. Shimada, and J. Takaku Validation of precise digital surface model generated by PRISM onboard ALOS, paper presented at Sensors, Systems, and Next-Generation Satellites XIII, August 31, 2009 - September 3, SPIE, Berlin, Germany, 2009.

Tadono, T., M. Shimada, M. Watanabe, A. Mukaida, S. Kawamoto, N. Imoto, and J. Yamashita Initial results of calibration and validation for ALOS optical sensors, paper presented at 2006 IEEE International Symposium on Geoscience and Remote Sensing, IEEE, Piscataway, NJ, USA, 2006.

Tadono, T., M. Shimada, M. Watanabe, J. Takaku, and A. Mukaida (2006), Preliminary Results of Calibration and Validation for ALOS Optical Sensors (PRISM and AVNIR-2), *UchuKagaku Gijutsu Rengo Koenkai Koenshu, 50th*(Journal Article), 1D11.

Taheri, S. R. Remote sensing, fuzzy logic and GIS in petroleum exploration, paper presented at SPE Asia Pacific Oil and Gas Conference and Exhibition 2006: Thriving on Volatility, Sep 11-13 2006, Society of Petroleum Engineers, Richardson, TX 75083-3836, United States, Adelaide, Australia, 2006.

Taheri, S. R. Remote sensing, fuzzy logic and GIS in petroleum exploration, paper presented at SPE Annual Technical Conference and Exhibition, ATCE 2008, Society of Petroleum Engineers (SPE), Richardson, TX 75083-3836, United States, 2008.

Takagi, T., H. Kawashima, T. Amagasa, and H. Kitagawa Providing constructed buildings information by ASTER satellite DEM images and web contents, paper presented at 15th International Conference on Database Systems for Advanced Applications, DASFAA 2010, April 1, 2010 - April 4, Springer Verlag, 2010.

Takahara, H., and M. Urai Surface temperature observation of Satsuma Iojima volcano with satellite image, Japan, 1998.

Takahashi, D. The world's first commercial hyperspectral data service from Earth observation satellite, paper presented at 2008 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2008, IEEE, Piscataway, NJ, USA, 2008.

Takahashi, F., M. Hiramatsu, F. Watanabe, Y. Narimatsu, and R. Nagura Visible and near-infrared subsystem and common signal processor design status of ASTER, paper presented at Future European and Japanese Remote-Sensing Sensors and Programs, Apr 1-2 1991, Int Soc for Optical Engineering, Bellingham, WA, 1991.

Takahashi, K., A. Rikimaru, and M. Yukio (2003), Verification of High Precise Estimation Method of the Rice Planted Fields Acreage with Outline Data Reference using ASTER /VNIR Image, *Journal of the Japan Society of Photogrammetry and Remote Sensing, 42, NO.4*(Journal Article), PAGE.18-26.

Takahashi, T., K. Katoh, and T. Kamijyo The Vegetation Recovery Process in Miyakejima Island after the 2000 Volcanic Eruption Using Satellite Remote Sensing,

paper presented at JILA Annual Scientific Research Meeting, Japanese Institute of Landscape Architecture, 2008.

Takasaki, K., S. Tanaka, S. Toshiro, H. Hashiba, and K. Kazuaki Airport monitoring using TERRA / ASTER image, Japan, 2001.

Takashima, T. (1995), Atmospheric Correction Procedures on ASTER Data and Application to Atmospheric Science Use, *Journal of Remote Sensing Society of Japan*, 15, NO.2(Journal Article), PAGE.120-124.

Takashima, T., and M. K. Atmospheric correction algorithm for the aster visible data over heterogeneous surfaces, Japan, 2000.

Takashima, T., and K. Masuda Atmospheric correction over heterogeneous surface on ASTER visible data, paper presented at Infrared spaceborne remote sensing VI; Proceedings of the Conference, San Diego, CA; UNITED STATES; 22-24 July 1998, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, 1998.

Takashima, T., and K. Masuda Atmospheric correction over a composite land and water surface, paper presented at Proceedings of the 1997 IEEE International Geoscience and Remote Sensing Symposium, IGARSS'97. Part 3 (of 4), Aug 3-8 1997, IEEE, Piscataway, NJ, USA, Singapore, Singapore, 1997.

Takashima, T., and K. Masuda Atmospheric correction in the coastal zone on ASTER visible data allowing for the adjacency effect, paper presented at Infrared spaceborne remote sensing V; Proceedings of the Meeting, San Diego, CA; UNITED STATES; 30 July-1 Aug. 1997, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, 1997.

Takashima, T., and K. Masuda Operational procedure for atmospheric correction on ASTER-radiance data allowing for the adjacency effect, paper presented at Infrared Spaceborne Remote Sensing IV, Aug 6-7 96, Denver, CO, USA, 1996.

Takashima, T., and K. Masuda (1997), The effect of land surface on the radiation emerging from the top of the atmosphere in the coastal zone, *Journal of Remote Sensing Society of Japan*, 17, NO.4(Journal Article), PAGE.311-321.

Takashima, T., and K. Masuda (2000), Atmospheric correction for the satellite visible data over heterogeneous surfaces, *Applied Mathematics and Computation*, 116(1-2), 181-196.

Takashima, T., K. Masuda, I. Sano, and S. Mukai (2001), Atmospheric correction for the ASTER visible data on Terra satellite, *Calibration and characterization of satellite sensors and accuracy of derived physical parameters*, 28(1), 177-182.

Takashima, T., K. Masuda, I. Sato, and S. Tsuchida Role of scattering process by atmospheric aerosol in the ASTER SWIR and cross-talk effect, paper presented at

Infrared Spaceborne Remote Sensing IX, Aug 1-3 2001, The International Society for Optical Engineering, San Diego, CA, United States, 2002.

Takashima, T., K. Masuda, I. Sato, and S. Tsuchida Adjacent effect and cross talk of land surfaces on coastal water in the aster VNIR and SWIR, paper presented at Infrared Spaceborne Remote Sensing X, Jul 10-11 2002, The International Society for Optical Engineering, Seattle, WA, United States, 2002.

Takatsuki, Y., Y. Numata, S. Kazuya, Y. Awaya, and M. Kato Methodology for forest mapping using ASTER data, Japan, 1998.

Takeda, I., and Y. Yasushi Development of a lithologic discrimination method for ASTER SWIR data, Japan, 2002.

Takeda, I., and Y. Yasushi Verification of applicability of mineral spectral indices to ASTER SWIR data, Japan, 2000.

Takemata, K., N. Naoe, A. Minamide, and Y. Kawata The air temperature observation in local city as education resources, paper presented at 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Denver, CO, United States, 2006.

Takemata, K., N. Naoe, M. Takemata, Y. Kawata, and A. Minamide The use of the air temperature observation data as education resources, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Takeuchi, W., T. Nakano, S. Ochi, and Y. Yasuoka Estimation of methane emission from West Siberian Lowland with sub-pixel land cover characterization, paper presented at 2002 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2002), Jun 24-28 2002, Institute of Electrical and Electronics Engineers Inc, Toronto, Ont., Canada, 2002.

Takeuchi, W., S. Ochi, and Y. Yoshifumi Accuracy assessment of scaling up technique between Terra MODIS and ASTER data, Japan, 2002.

Takeuchi, W., S. Ochi, Y. Yoshifumi, and T. Nakano Estimation of Methane Emission from Northern part of West Siberian Lowland by scaling up technique between Terra MODIS and ASTER data, Japan, 2002.

Takeuchi, W., S. Ochi, Y. Yoshifumi, and T. Nakano Estimation of Methane Emission from West Siberian Lowland using ASTER Data, Japan, 2001.

Takeuchi, W., and Y. Yoshifumi Development of ASTER data management system on WWW, Japan, 2004.

Takeuchi, W., and Y. Yoshifumi Accuracy assessment of geometric correction with Terra ASTER, Japan, 2003.

Takeuchi, W., and Y. Yoshifumi Development of normalized vegetation-soil-water indices for remote sensing data, Japan, 2003.

Takeuchi, W., and Y. Yoshifumi (2004), Development of ASTER data management system on WWW, *Journal of the Japan Society of Photogrammetry and Remote Sensing*, 43,NO.4(Journal Article), PAGE.35-40.

Takeuchi, W., and Y. Yoshifumi (2005), Mapping of fractional coverage of paddy fields over East Asia using MODIS data, *Journal of the Japan Society of Photogrammetry and Remote Sensing*, 43,NO.6(Journal Article), PAGE.20-33.

Takeuchi, W., and Y. Yoshifumi (2005), Development of normalized vegetation, soil and water indices derived from satellite remote sensing data, *Journal of the Japan Society of Photogrammetry and Remote Sensing = Shashin Sokuryo to Rimoto Senshingu*, 43(6), 7-19.

Takeuchi, W., and Y. Yoshifumi (2006), Spatio-temporal Evaluation of a Method to Map Paddy Fields Fractional Coverage, *Journal of Remote Sensing Society of Japan*, 26,NO.2(Journal Article), PAGE.146-153.

Takeuchi, W., Y. Yoshifumi, and S. Ochi (2003), Land surface temperature map based on spectral mixture analysis between MODIS and ASTER, *Journal of the Japan Society of Photogrammetry and Remote Sensing*, 42,NO.5(Journal Article), PAGE.27-39.

Takeuchi, W., Y. Yoshifumi, and S. Ochi (2003), Accuracy assessment of geometric correction with Terra ASTER, *Journal of the Japan Society of Photogrammetry and Remote Sensing*, 42,NO.4(Journal Article), PAGE.38-41.

Takeuchi, Y., N. Takagi, and A. Yuichiro Surface temperature map with remote sensing data, Japan, 2004.

Tan, Q., and J. Wang Land cover and land use change detection of Beijing with textural information from satellite remote sensing data, paper presented at 28th Canadian Symposium on Remote Sensing and ASPRS Fall Specialty Conference 2007, American Society for Photogrammetry and Remote Sensing, Bethesda, MD 20814-2160, United States, Ottawa, ON, Canada, 2007.

Tanaka, S., F. Shinji, T. Ishiyama, and H. Muraoka Vegetation Indices of Arid and Semi Arid Land, Japan, 1996.

Tanaka, S., F. Shinji, T. Miura, and S. Tsuchida (1999), Mineral Discrimination with ASTER Data Using Spectral Pattern Analysis and Forecast of the Accuracy Evaluation, *Journal of Remote Sensing Society of Japan*, 19, NO.5(Journal Article), PAGE.382-406.

Tanaka, Y. (2009), How Grid enables E-science? Design and implementation of the GEO grid, *Synthesiology*, 2(1), 32-41.

Tang, D., Q. Cheng, and Q. Lou Spatiotemporal landscape pattern change of Hangzhou Xixi urban wetland growth in China, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology IX, August 31, 2009 - September 3, SPIE, Bellingham WA, 2009.

Tang, S., X. Li, J. Wang, Q. Zhu, and L. Zhang (2007), An improved TES algorithm based on the corrected ALPHA difference spectrum, *Science in China, Series D: Earth Sciences*, 50(Journal Article), 274-282.

Tang, S., L. Zhang, Q. Zhu, and L. Jiang Validation of an improved TES algorithm based on corrected ALPHA difference spectra, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Tang, S., Q. Zhu, X. Bai, S. Yang, Y. Shuai, and Q. Bu A TES algorithm based on corrected alpha difference spectra, paper presented at 2004 IEEE International Geoscience and Remote Sensing Symposium Proceedings: Science for Society: Exploring and Managing a Changing Planet. IGARSS 2004, Sep 20-24 2004, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Anchorage, AK, United States, 2004.

Tang, S.-H., Q.-J. Zhu, and L.-H. Su (2005), Thermal infrared TES algorithm based on corrected ALPHA difference spectrum, *Hongwai Yu Haomibo Xuebao/Journal of Infrared and Millimeter Waves*, 24(4), 286-290.

Tangestani, M. H., N. Mazhari, and B. Agar Mapping the porphyry copper alteration zones at the Meiduk area, SE Iran, using the advanced spaceborne thermal emission and reflection radiometer (ASTER) data, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology V; Bruges; Belgium; 19-20 Sept. 2005, 2005.

Tangestani, M. H., N. Mazhari, B. Agar, and F. Moore (2008), Evaluating Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) data for alteration zone enhancement in a semi-arid area, northern Shahr-e-Babak, SE Iran, *International Journal of Remote Sensing*, 29(10), 2833-2850.

Tanikawa, H., K. Sachiy, N. Hasegawa, and T. Hogen Study of the Classification of Man-made Forest Based on Satellite Imagery, Japan, 2005.

Tanikawa, T., T. Aoki, M. Hori, A. Hachikubo, and M. Aniya Algorithm to retrieve snow grain size using non-spherical ice particles, and its application to Terra/ASTER data, paper presented at The 2004 Conference Japanese Society of Snow and Ice, Japanese Society of Snow and Ice, 2004.

Tao, X., W.-n. Yang, H.-h. Liu, and J.-J. Wang (2007), Automatic digital elevation model (DEM) and orthoimage generation from ASTER image, *Cehui Kexue / Science of Surveying and Mapping*, 32(3), 144-145.

Tapia Calle, C. H., A. S. B. Rolim, and W. Wildner (2004), ASTER mapping image and spectroscopy features of Parana Basin basalts, Rio Grande do Sul, Brasil; Italia 2004; 32nd international geological congress; abstracts, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004*, 32(Abstract), 1326.

Taranik, D. Exploring the Earth from space; applications of remote sensing to mineral exploration, paper presented at Geological Society of London, bicentennial conference; earth sciences in the service of society, London, Geological Society of London, London, United Kingdom (GBR), United Kingdom (GBR), 2007.

Taranik, J. V. (2001), New applications of remote sensing to mineral exploration; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 347.

Taranik, J. V., D. A. Mouat, and C. D. Elvidge Hyperspectral technology for geologic applications, paper presented at Proceedings of the 13th Annual International Geoscience and Remote Sensing Symposium, Aug 18-21 1993, IEEE, Piscataway, NJ, Tokyo, Jpn, 1993.

Taranik, J. V., and V. A. Ramos Aerospace remote sensing for mineral exploration and environmental stewardship; Cordillera de los Andes; geological and mining potential; the new tectonic and metallogenic approach, paper presented at Cordillera de los Andes; geological and mining potential; the new tectonic and metallogenic approach, Mendoza, GRK Servicios Mineros, Mendoza, Argentina (ARG), Argentina (ARG), 1998.

Tarantino, E. Features extraction from multi-date ASTER imagery using a hybrid classification method for land cover transformations, paper presented at 6th International Symposium on Digital Earth: Models, Algorithms, and Virtual Reality, September 9, 2009 - September 12, SPIE, Bellingham, WA, 2010.

Tarekegn, T. H., A. T. Haile, T. Rientjes, P. Reggiani, and D. Alkema (2010), Assessment of an ASTER-generated DEM for 2D hydrodynamic flood modeling, *International Journal of Applied Earth Observation and Geoinformation*, 12(6), 457-465.

Tarolli, P., J. R. Arrowsmith, and E. R. Vivoni (2009), Understanding earth surface processes from remotely sensed digital terrain models, *Geomorphology*, 113(1-2), 1-3.

Taschner, S., and R. Ranzi Comparing the opportunities of LANDSAT-TM and ASTER data for monitoring a debris covered glacier in the italian alps within the GLIMS project, paper presented at 2002 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2002), Jun 24-28 2002, Institute of Electrical and Electronics Engineers Inc, 2002.

Tatem, A. J., S. J. Goetz, and S. I. Hay (2004), Terra and Aqua: new data for epidemiology and public health, *International Journal of Applied Earth Observation and Geoinformation*, 6(1), 33-46.

Teeuw, R. M. (2007), Introducing the remote sensing of hazardous terrain, in *Mapping hazardous terrain using remote sensing*, edited by R. M. Teeuw, pp. 1-3, Geological Society of London, London, United Kingdom (GBR).

Tefera, B., and G. Sterk (2008), Hydropower-induced land use change in Fincha'a watershed, western Ethiopia: Analysis and impacts, *Mountain Research and Development*, 28(1), 72-80.

Teggi, S. (2010), Temperature of coastal waters and of watercourses from ASTER images, *Rivista Italiana Di Telerilevamento*, 42(2), 75-86.

Teillet, P. M., G. Fedosejevs, and K. J. Thome Spectral band difference effects on radiometric cross-calibration between multiple satellite sensors in the Landsat solar-reflective spectral domain, paper presented at Sensors, Systems, and Next-Generation Satellites VIII, Sep 13-15 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Maspalomas, Spain, 2004.

Teixeira, C. G. (2005), Validation of Linear Spectral Mixing Model Applied to TERRA ASTER Images Using IKONOS Data.

Teodoro, A. C., A. R. S. Marcal, and F. V. Gomes Evaluation of total suspended matter concentration in wave breaking zone using multispectral satellite images, paper presented at Remote Sensing of the Ocean and Sea Ice 2004, Sep 13-14 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Maspalomas, Spain, 2004.

Teodoro, A. C., A. R. S. Marcal, and F. Veloso-Gomes (2007), Correlation analysis of water wave reflectance and local TSM concentrations in the breaking zone with remote sensing techniques, *Journal of Coastal Research*, 23(6), 1491-1497.

Teodoro, A. C., and F. Veloso-Gomes (2007), Quantification of the total suspended matter concentration around the sea breaking zone from in situ measurements and terra/aster data, *Marine Georesources and Geotechnology*, 25(2), 67-80.

Teodoro, A. C., F. Veloso-Gomes, and H. Goncalves (2007), Retrieving TSM concentration from multispectral satellite data by multiple regression and artificial

neural networks, *IEEE Transactions on Geoscience and Remote Sensing*, 45(5), 1342-1350.

Teodoro, A. C., F. Veloso-Gomes, and H. Goncalves (2008), Statistical techniques for correlating total suspended matter concentration with seawater reflectance using multispectral satellite data, *Journal of Coastal Research*, 24(4C), 40-49.

Teshima, Y., and I. Akira Correction of Terra spacecraft attitude fluctuation using ASTER image, Japan, 2005.

Teshima, Y., and A. Iwasaki (2008), Correction of attitude fluctuation of terra spacecraft using ASTER/SWIR imagery with parallax observation, *IEEE Transactions on Geoscience and Remote Sensing*, 46(1), 222-227.

Tetzlaff, A. (2004), Coal fire quantification using ASTER, ETM and BIRD satellite instrument data, 1-179 pp, University of Munich, Munich, Federal Republic of Germany (DEU), Federal Republic of Germany (DEU).

Themistocleous, K., and H. G. Diofantos Air pollution monitoring through the application of atmospheric correction for ASTER imagery, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology IX, August 31, 2009 - September 3, SPIE, Bellingham WA, 2009.

Thomas, H. E., and I. M. Watson (2010), Observations of volcanic emissions from space: current and future perspectives, *Natural Hazards*, 54(2), 323-354.

Thomas, M., C. Delacourt, P. Davy, L. Moulin, and D. Lague (2008), Optimal detection and quantification of channel variability along braided river; the Hurunui's case (New Zealand), *European Geosciences Union general assembly 2008, Vienna, Austria, April 13-18, 2008*, 10(Abstract), EGU2008-A-05602.

Thomas, M., C. Laukamp, T. Cudahy, and M. Jones (2008), Flowpaths and drivers; new spectral methods and products for resource and surface materials mapping in Queensland, Australia; methods and applications for industry; New perspectives; the foundations and future of Australian exploration; abstracts for the June 2008 pmd\*CRC conference *Rep. 9781921236801*, 99-105 pp, Geoscience Australia, Canberra, A.C.T., Australia (AUS), Australia (AUS).

Thome, K. Vicarious calibration of aster backward-looking telescope, paper presented at Earth Observing Systems XI, Aug 14-16 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, San Diego, CA, United States, 2006.

Thome, K. Sampling and uncertainty issues in trending reflectance-based vicarious calibration results, paper presented at Earth Observing Systems X, Jul 31-Aug 2 2005, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, 2005.

Thome, K. (2008), Radiometric calibration of the Advanced Spaceborne Thermal Emission and Reflection Radiometer using multiple vicarious methods, *37th COSPAR Scientific Assembly, 13-20 July 2008, Montréal, Canada*, 37(Abstract), 3179.

Thome, K., et al. (1998), ASTER preflight and inflight calibration and the validation of Level 2 products, *IEEE Transactions on Geoscience and Remote Sensing*, 36(4), 1161-1172.

Thome, K., S. Biggar, and H. J. Choi Vicarious calibration of Terra ASTER, MISR, and MODIS, paper presented at Earth Observing Systems IX, Aug 2-6 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Denver, CO, United States, 2004.

Thome, K., S. Biggar, and P. Slater Effects of assumed solar spectral irradiance on intercomparisons of earth-observing sensors, paper presented at Sensors, Systems, and Next-Generation Satellites V, Sep 17-20 2001, The International Society for Optical Engineering, 2001.

Thome, K., J. D'Amico, and C. Hugon Intercomparison of terra ASTER, MISR, and MODIS, and Landsat-7 ETM+, paper presented at 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Denver, CO, United States, 2006.

Thome, K., F. Palluconi, K. Arai, S. Hook, H. Tonooka, and S. Tsuchida (2001), In-flight Radiometric Calibration of ASTER, *AGU Spring Meeting Abstracts*(Abstract).

Thome, K. J. Sensitivity analysis and validation plans for the retrieval of surface reflectance from ASTER (Advanced Spaceborne Thermal Emission and Reflectance Radiometer), paper presented at Earth observing system; Proceedings of the Conference, Denver, CO; UNITED STATES; 3-6 Aug. 1996, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, 1996.

Thome, K. J. Proposed atmospheric correction for the solar-reflective bands of the advanced spaceborne thermal emission and reflection radiometer, paper presented at Proceedings of the 1994 International Geoscience and Remote Sensing Symposium. Part 1 (of 4), Aug 8-12 1994, IEEE, Piscataway, NJ, USA, Pasadena, CA, USA, 1994.

Thome, K. J. (1995), EOS contract report #48; Semiannual Report, July 1 - December 31, 1995Rep. NASA-CR-200075;NAS 1.26:200075;Rept-48, 1-20 pp, Arizona Univ.; Optical Sciences Center.; Tucson, AZ.

Thome, K. J., K. Arai, S. Tsuchida, and S. F. Biggar (2008), Vicarious calibration of ASTER via the reflectance-based approach, *IEEE Transactions on Geoscience and Remote Sensing*, 46(10), 3285-3295.

Thome, K. J., and D. O. Starr (2004), Vicarious Calibration of VNIR/SWIR Bands of ASTER, edited, Arizona Univ.; Tucson, AZ.

Thorne, K., F. Palluconi, T. Takashima, and K. Masuda (1998), Atmospheric correction of ASTER, *IEEE Transactions on Geoscience and Remote Sensing*, 36(4), 1199-1211.

Thurmond, A. K. (2002), Understanding the structural control of the Nile through the Batn El Hajar region, northern Sudan using remote sensing imagery, 93-93 pp, University of Texas at Dallas, Richardson, TX, United States (USA), United States (USA).

Thurmond, A. K., M. Abdel-Salam, Z. Yin, A. Hassanipak, and A. M. Ghazi (2002), Structural Analysis of the Khoy Ophiolite, NW Iran from ASTER Imagery, *AGU Spring Meeting Abstracts*, 22(Abstract), 04.

Thurmond, A. K., and M. G. Abdelsalam (2002), ASTER-RADARSAT-DTED data integration for 3D illustration of the Afar Depression, Ethiopia; Geological Society of America, 2002 annual meeting, *Geological Society of America, 2002 annual meeting, Denver, CO, United States, Oct. 27-30, 2002*, 34(6), 453.

Thurmond, A. K., M. G. Abdelsalam, and J. B. Thurmond (2006), Optical-radar-D EM remote sensing data integration for geological mapping in the Afar Depression, Ethiopia, *Journal of African Earth Sciences*, 44(2), 119-134.

Thurmond, A. K., R. J. Stern, and M. G. Abdelsalam (2001), Fusion of Landsat-TM, ASTER and SIR-C/X-SAR remote sensing data; application for understanding structural controls on the Cataract Nile, northern Sudan; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 289.

Thurmond, A. K., J. B. Thurmond, and M. G. Abdelsalam (2003), Effective algorithms for remote sensing data integration as applied to geological studies; examples from the Afar Depression, Ethiopia; Geological Society of America, South-Central Section, 37th annual meeting; Geological Society of America, Southeastern Section, 52nd annual meeting, *Geological Society of America, South-Central Section, 37th annual meeting; Geological Society of America, Southeastern Section, 52nd annual meeting, Memphis, TN, United States, March 13-14, 2003*, 35(1), 65-66.

Tian, Q., F. Hui, and Y. Weng (2004), ETM+ Remote Sensing Fusion Evaluation Using ASTER Data, *Remote sensing Technology and Application*, 19(6), 488-492.

Tiangco, M., A. M. F. Lagmay, and J. Argete (2008), ASTER-based study of the night-time urban heat island effect in Metro Manila, *International Journal of Remote Sensing*, 29(10), 2799-2818.

Timmermans, J., W. Verhoef, C. van der Tol, and Z. Su (2009), Retrieval of canopy component temperatures through Bayesian inversion of directional thermal measurements, *Hydrology and Earth System Sciences*, 13(7), 1249-1260.

Timmons, J. M., and R. L. Nusbaum (2001), Remote mapping of lava vesicularity at Medicine Lake Volcano (CA) using MODIS/ASTER airborne simulator data; Geological Society of America, Southeastern Section, 50th annual meeting, *Geological Society of America, Southeastern Section, 50th annual meeting, Raleigh, NC, United States, April 5-6, 2001*, 33(2), 77.

Tobita, Y., H. Saito, and I. Yoshikazu Geometric Accuracy of ASTER level 1b data with due consideration on pointing angle and relief displacement, Japan, 2004.

Tonooka, H. ASTER nighttime cloud mask database using MODIS cloud mask (MOD35) products, paper presented at Remote Sensing of Clouds and the Atmosphere XIII, SPIE - The International Society for Optical Engineering, USA, 2008.

Tonooka, H. Resolution enhancement of ASTER shortwave and thermal infrared bands based on spectral similarity, paper presented at Image Processing and Pattern Recognition in Remote Sensing II, Nov 8-9 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Honolulu, HI, United States, 2005.

Tonooka, H. Atmospheric correction of MODIS thermal infrared bands by water vapor scaling method, paper presented at Remote Sensing of Clouds and the Atmosphere X, Sep 19-21 2005, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, 2005.

Tonooka, H. Analysis and correction of stray light in ASTER /TIR imagery, Japan, 2004.

Tonooka, H. Probability of snow/ice monitoring by thermal infrared emissivity spectra, Japan, 2003.

Tonooka, H. Accurate atmospheric correction of ASTER /TIR by Water Vapor Scaling method, Japan, 2002.

Tonooka, H. Two methods for sharpening ASTER SWIR/TIR imagery, Japan, 2002.

Tonooka, H. (1999), Atmospheric Correction Algorithm with NCEP/GDAS Products in the Thermal Infrared Region. Validation Using AVHRR Data around Japan, *Journal of Remote Sensing Society of Japan*, 19,NO.4(Journal Article), PAGE.304-319.

Tonooka, H. (2000), Introduction of Water Vapor Dependent Coefficients to Multichannel Algorithms, *Journal of Remote Sensing Society of Japan*, 20,NO.2(Journal Article), PAGE.137-148.

Tonooka, H. (2001), An atmospheric correction algorithm for thermal infrared multispectral data over land - A water-vapor scaling method, *UNITED STATES*, 39(3), 682-692.

Tonooka, H. (2005), Inflight straylight analysis for ASTER thermal infrared bands, *IEEE Transactions on Geoscience and Remote Sensing*, 43(12), 2752-2762.

Tonooka, H. (2005), Accurate atmospheric correction of ASTER thermal infrared imagery using the WVS method, *IEEE Transactions on Geoscience and Remote Sensing*, 43(12), 2778-2792.

Tonooka, H., K. Arai, S. Tsuchida, Y. Yamaguchi, and T. Kawakami Evaluation of applicability of NCEP/GDAS data to thermal infrared radiative transfer calculation based on the radiosonde observations in south Ibaraki, Dec., 1997, Japan, 1998.

Tonooka, H., M. Fukuda, and H. Takashi Generation of ASTER /SWIR and TIR spectral images with the spatial resolution of 15 meter, Japan, 2001.

Tonooka, H., and M. Hirayama Water surface temperature retrieval for a small lake using ASTER thermal infrared data, paper presented at 2010 30th IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Tonooka, H., and A. Iwasaki Improvement of ASTER/SWIR crosstalk correction, paper presented at Sensors, Systems and Next-Generation Satellites VII, Sep 8-10 2003, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Barcelona, Spain, 2004.

Tonooka, H., and A. Iwasaki Band-to-band multiple crosstalk in ASTER /SWIR imagery, Japan, 2002.

Tonooka, H., and K. Kenji Generation of ASTER nighttime cloud mask using MODIS cloud mask product, Japan, 2006.

Tonooka, H., and Y. Naoto Straylight effects in hot spot analyses by ASTER /TIR-Case study for Mts. St. Helens and Iwate, Japan, 2005.

Tonooka, H., K. Omagari, H. Yamamoto, T. Tachikawa, M. Fujita, and Z. Paitaer ASTER cloud coverage reassessment using MODIS cloud mask products, paper presented at Earth Observing Missions and Sensors: Development, Implementation, and Characterization, October 13, 2010 - October 14, SPIE, Bellingham, WA, 2010.

Tonooka, H., and F. Palluconi Early Validation Results for the Atmospheric Correction Algorithm of ASTER TIR, paper presented at Proceedings of the CEReS international symposium on remote sensing of the atmosphere and validation of satellite data, Japan, 2001.

Tonooka, H., F. Palluconi, K. Arai, T. Matsunaga, S. Rokugawa, and M. Kato (2000), Field Experiment in Tsukuba Test Site for ASTER Vicarious Calibration (Thermal Infrared Radiometer), *Journal of Remote Sensing Society of Japan*, 20, NO. 1(Journal Article), PAGE.63-70.

Tonooka, H., F. Palluconi, T. Matsunaga, M. Moriyama, H. Fukasawa, K. Arai, S. Tsuchida, and Y. Yamaguchi Early results from the inflight vicarious calibration of ASTER (thermal infrared radiometer), Japan, 2000.

Tonooka, H., F. Palluconi, T. Matsunaga, M. Shoji, and K. Arai (2001), Early Results from the Vicarious Calibration Activities for ASTER /TIR in Japan, *Journal of Remote Sensing Society of Japan*, 21, NO.5(Journal Article), PAGE.440-448.

Tonooka, H., and F. D. Palluconi Verification of the ASTER/TIR atmospheric correction algorithm based on water surface emissivity retrieved, paper presented at Infrared Spaceborne Remote Sensing IX, Aug 1-3 2001, The International Society for Optical Engineering, San Diego, CA, United States, 2002.

Tonooka, H., and F. D. Palluconi (2005), Validation of ASTER/TIR standard atmospheric correction using water surfaces, *IEEE Transactions on Geoscience and Remote Sensing*, 43(12), 2769-2777.

Tonooka, H., F. D. Palluconi, S. J. Hook, and T. Matsunaga (2005), Vicarious calibration of ASTER thermal infrared bands, *IEEE Transactions on Geoscience and Remote Sensing*, 43(12), 2733-2745.

Tonooka, H., and S. Rokugawa Accuracy of Surface Temperature and Spectral Emissivity Estimated by Thermal Infrared Multispectral Scanner, Japan, 1994.

Tonooka, H., S. Rokugawa, and I. Yoshinori (1993), Influences of Atmospheric Correction Error and Its Reduction Method in Temperature and Emissivity Separation, *Journal of Remote Sensing Society of Japan*, 13, NO.3(Journal Article), PAGE.229-239.

Tonooka, H., F. Sakuma, M. Kudoh, and K. Iwafune ASTER/TIR onboard calibration status and user-based recalibration, paper presented at Sensors, Systems, and Next-Generation Satellites VII; Barcelona, Spain; Sep. 8-10, 2003, 2004.

Tonooka, H., T. Shinoda, and H. Shoji Generation of ASTER synthetic blue-band image by Regression Variable Substitution method with MODIS data, Japan, 2004.

Tonooka, H., and H. Takashi Error Analysis of The Multipixel Method using Simulation Data by the multichannel method, Japan, 1997.

Tonooka, H., H. Takashi, and S. Rokugawa Simple Estimation Method of Atmospheric Correction Parameters in ASTER /TIR Data, Japan, 1994.

Tonooka, H., H. Takashi, and S. Rokugawa (1998), Evaluation of Effects of Surface Emissivity on Split Window Method and Its Extensions based on Simulation, *Journal of Remote Sensing Society of Japan*, 18, NO.4(Journal Article), PAGE.317-329.

Tonooka, H., and M. Tomoharu Application of Adaptive Bayesian Contextual Classifier to ASTER /VNIR imagery, Japan, 2005.

Tonooka, H., and M. Urai East-Asia land surface emissivity maps generated from Terra ASTER data archives, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology IX, August 31, 2009 - September 3, SPIE, Bellingham WA, 2009.

Tonooka, H., and A. Watanabe Applicability of thermal infrared surface emissivity ratio for snow/ice monitoring, paper presented at Multispectral and Hyperspectral Remote Sensing Instruments and Applications II, Nov 9-11 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Honolulu, HI, United States, 2005.

Tonooka, H., A. Watanabe, and T. Minomo ASTER/TIR vicarious calibration and band emissivity measurements on frozen lake, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology V, Sep 19-20 2005, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, 2005.

Tonooka, H., A. Watanabe, and M. Toshiyuki Field measurement of thermal infrared band emissivity on frozen Lake Kussharo, Japan, 2005.

Toomey, M., and L. A. Vierling (2005), Multispectral remote sensing of landscape level foliar moisture: Techniques and applications for forest ecosystem monitoring, *Canadian Journal of Forest Research*, 35(5), 1087-1097.

Toomey, M. P., and L. A. Vierling (2006), Estimating equivalent water thickness in a conifer forest using Landsat TM and ASTER data: A comparison study, *Canadian Journal of Remote Sensing*, 32(4), 288-299.

Topan, H., D. Maktav, K. Jacobsen, and G. Buyuksalih (2009), Information content of optical satellite images for topographic mapping, *International Journal of Remote Sensing*, 30(7), 1819-1827.

Tornabene, L. L., J. E. Moersch, G. R. Osinski, P. Lee, and S. P. Wright (2005), Spaceborne visible and thermal infrared lithologic mapping of impact-exposed subsurface lithologies at the Haughton impact structure, Devon Island, Canadian High Arctic; applications to Mars, *Meteoritics & Planetary Science*, 40(12), 1835-1858.

Tornabene, L. L., G. R. Osinski, J. E. Moersch, and P. Lee Remote Sensing of the Haughton Impact Structure (HIS): A Terrestrial Proof of Concept for Using the Remote Sensing of Martian Craters as a Probe of Subsurface Composition, paper presented at

Lunar and Planetary Science XXXV: Mars: Radar, Gamma Ray Spectrometer, and Cratering Mineralogy, 2004.

Torres Pulliza, D. (2004), A multi-sensor comparison for coral reef habitat mapping: A case study using a tropical patch reef environment in Biscayne National Park, Florida, 73-1401 pp, University of Puerto Rico, Mayaguez (Puerto Rico); 0553 Advisor: Advisers Serge Andreffouet Fernando Gilbes.

Torres, R., P. Mouginis-Mark, S. Self, H. Garbeil, K. Kallianpur, and R. Quiambao (2004), Monitoring the evolution of the Pasig-Potrero alluvial fan, Pinatubo Volcano, using a decade of remote sensing data, *Journal of Volcanology and Geothermal Research*, 138(3-4), 371-392.

Tosi, L., F. Rizzetto, M. Zecchin, G. Brancolini, and L. Baradello (2009), Morphostratigraphic framework of the Venice Lagoon (Italy) by very shallow water VHRS surveys; evidence of radical changes triggered by human-induced river diversions, *Geophysical Research Letters*, 36(9), @Citation L09406.

Toutin, T. DEM generation from new VIR sensors: IKONOS, ASTER and Landsat-7, paper presented at 2001 International Geoscience and Remote Sensing Symposium (IGARSS 2001), Jul 9-13 2001, Institute of Electrical and Electronics Engineers Inc, Sydney, NSW, 2001.

Toutin, T. (2002), Three-dimensional topographic mapping with ASTER stereo data in rugged topography, *IEEE Transactions on Geoscience and Remote Sensing*, 40(10), 2241-2247.

Toutin, T. (2004), Spatiotriangulation with multisensor VIR/SAR images, 2003 International Geoscience and Remote Sensing Symposium(IGARS'03): Learning From Earth's Shapes and Colors, 42(10), 2096-2103.

Toutin, T. (2008), ASTER DEMs for geomatic and geoscientific applications: a review, *International Journal of Remote Sensing*, 29(7), 1855-1875.

Toutin, T., and P. Cheng (2002), Comparison of automated digital elevation model extraction results using along-track ASTER and across-track SPOT stereo images, *Optical Engineering*, 41(9), 2102-2106.

Toutin, T., R. Chenier, and Y. Carbonneau Multi Sensor Block Adjustment, paper presented at 2003 IGARSS: Learning From Earth's Shapes and Colours, Jul 21-25 2003, Institute of Electrical and Electronics Engineers Inc, Toulouse, France, 2003.

Tovinkere, V. R., M. Penalosa, A. Logar, J. Lee, R. C. Weger, T. A. Berendes, and R. M. Welch (1993), An Intercomparison of Artificial-Intelligence Approaches for Polar Scene Identification, *Journal of Geophysical Research-Atmospheres*, 98(D3), 5001-5016.

Townshend, J. (2008), Recent North American Forest Dynamics via Integration of ASTER, MODIS, and Landsat Reflectance Data, edited, p. 11, Maryland Univ.; College Park, MD.

Tralli, D. M., R. G. Blom, V. Zlotnicki, A. Donnellan, and D. L. Evans (2005), Satellite remote sensing of earthquake, volcano, flood, landslide and coastal inundation hazards, *ISPRS Journal of Photogrammetry and Remote Sensing*, 59(4), 185-198.

Trevino, L., and G. R. Keller (2001), The North and South Park basins of central Colorado; an integrated geophysical study; Geological Society of America, Rocky Mountain Section, 53rd annual meeting; Geological Society of America, South-Central Section, 35th annual meeting, *Geological Society of America, Rocky Mountain Section, 53rd annual meeting; Geological Society of America, South-Central Section, 35th annual meeting, Albuquerque, NM, United States, April 30-May 2, 2001*, 33(5), 61.

Troisi, V., G. Scharfen, B. Raup, S. S. Khalsa, R. Swick, I. Wang, R. Barry, and M. Dyurgerov (2002), Readiness of the Global Land Ice Measurements from Space (GLIMS) Database at NSIDC, *AGU Fall Meeting Abstracts*, 11(Abstract), 0972.

Trouye, E., et al. (2007), Combining airborne photographs and spaceborne SAR data to monitor temperate glaciers: Potentials and limits, *IEEE Transactions on Geoscience and Remote Sensing*, 45(4), 905-924.

Troyo, A., D. O. Fuller, O. Calderon-Arguedas, and J. C. Beier (2008), A geographical sampling method for surveys of mosquito larvae in an urban area using high-resolution satellite imagery, *Journal of Vector Ecology*, 33(1), 1-7.

Trunk, L., and A. Bernard (2008), Investigating crater lake warming using ASTER thermal imagery: Case studies at Ruapehu, Poas, Kawah Ijen, and Copahue Volcanoes, *Journal of Volcanology and Geothermal Research*, 178(2), 259-270.

Tsombos, P. I., K. G. Nikolakopoulos, A. Photiades, and K. Psonis Updating the 1:50.000 geological maps of Rhodes Island using remote sensing data and GIS techniques, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology VII, SPIE, Bellingham WA, WA 98227-0010, United States, Florence, Italy, 2007.

Tsu, H. EOS project and ASTER (ITIR), paper presented at Earth Resources Satellite Data Analysis Center, Proceedings of the 3rd International Symposium: JERS-1 and Remote Sensing in the Future, 1991.

Tsu, H. (1992), Outline of ASTER project, *Promoting Machine Industry in Japan*, 25, NO.9(Journal Article), PAGE.36-41.

Tsu, H., H. Fujisada, Y. Yamaguchi, M. Kudo, M. Kato, and H. Watanabe Overview of ASTER instrument and ASTER data product, paper presented at Infrared Spaceborne

Remote Sensing IX, Aug 1-3 2001, The International Society for Optical Engineering, San Diego, CA, United States, 2002.

Tsu, H., and A. B. Kahle Overview of aster project in EOS program, paper presented at Proceedings of the 13th Annual International Geoscience and Remote Sensing Symposium IGARSS'93, Aug 18-21 1993, Publ by IEEE, Piscataway, NJ, USA, Tokyo, Jpn, 1993.

Tsu, H., and A. B. Kahle (1995), The advanced spaceborne thermal emission and reflection radiometer (ASTER); AGU 1995 fall meeting, *American Geophysical Union, 1995 fall meeting, San Francisco, CA, United States, Dec. 11-15, 1995*, 76(46), 132.

Tsu, H., and A. B. Kahle (1995), Overview of ASTER Project, *Journal of Remote Sensing Society of Japan*, 15, NO.2(Journal Article), PAGE.94-99.

Tsu, H., Y. Miyazaki, and I. Sato (1994), Current status and science objectives of ASTER project, *Advances in Space Research*, 14(3), 5; p. (3)141-(143)145.

Tsu, H., Y. Yamaguchi, H. Fujisada, A. B. Kahle, I. Sato, M. Kato, H. Watanabe, M. Kudoh, and M. Pniel ASTER early science outcome and operation status, paper presented at Sensors, Systems, and Next-Generation Satellites IV, Sep 25-28 2000, Society of Photo-Optical Instrumentation Engineers, Barcelona, 2001.

Tsu, H., Y. Yamaguchi, H. Fujisada, I. Sato, M. Kato, H. Watanabe, M. Yuichi, and M. Kudo ASTER early images and current operation status, Japan, 2000.

Tsu, H., Y. Yamaguchi, and A. B. Kahle ASTER science mission overview, paper presented at Infrared Spaceborne Remote Sensing IV, Aug 6-7 96, Denver, CO, USA, 1996.

Tsuchida, S. Snow BRDF effects on vicarious and cross calibrations of ASTER, paper presented at Proceedings of the 1998 Conference on Sensors, Systems, and Next-Generation Satellites II, Sep 21-24 1998, SPIE, Bellingham, WA, USA, Barcelona, Spain, 1998.

Tsuchida, S., K. Arai, S. Machida, and T. Takashima The Field Experiment for the ASTER Vicarious Calibration in the Visible to Infrared region (1), Japan, 1996.

Tsuchida, S., F. Sakuma, A. Iwasaki, N. Ogi, and H. Inada Degradation models and functions for ASTER /VNIR sensor, Japan, 2005.

Tsuchiya, K., and M. Kaneko Comparison of the vegetation index computed from modis, AVHRR and ASTER data over Hokkaido, Japan BUHEAOSEN, paper presented at COSPAR, Plenary Meeting, 2002.

Tsuru, T., A. Okuda, T. No, Y. Kaneda, and K. Tamaki (2008), Subsurface structure of the Myojin Knoll pumiceous volcano obtained from multichannel seismic reflection data, *Earth, Planets and Space*, 60(7), 721-726.

Tsushima, K., and S. Yuji Preliminary study for the estimation of underwater forest distribution in Hiroshima Bay using ASTER data, Japan, 2004.

Tulaczyk, S. (2007), Coastal Greenland Ice Sheet Elevation: Digital Elevation Mapping using Aster Data, edited, p. 9, California Univ.; Santa Cruz, CA.

Turgeon, D. H., and R. L. Nusbaum (2002), Remote 3-D mapping of Lassen volcanic center, California; Geological Society of America, Southeastern Section, 51st annual meeting; Geological Society of America, North-Central Section, 36th annual meeting, *Geological Society of America, Southeastern Section, 51st annual meeting; Geological Society of America, North-Central Section, 36th annual meeting, Lexington, KY, United States, April 3-5, 2002*, 34(2), 48.

Turpie, K. R. (2007), Remote Sensing of Coastal Marsh Vegetation Structure using Multi-angle Imaging, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 88(52,; Suppl. Volume 1-2).

Turquety, S., C. Clerbaux, P. Coheur, D. Hurtmans, K. W. Bowman, and H. M. Worden (2006), Measurements of SO<sub>2</sub> profiles in volcanic plumes using high-resolution infrared observations from satellite, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.), Abstract V43E-07.

Tuttle, E. M., R. R. Jensen, V. A. Formica, and R. A. Gonser (2006), Using remote sensing image texture to study habitat use patterns: a case study using the polymorphic white-throated sparrow (*Zonotrichia albicollis*), *Global Ecology and Biogeography*, 15(4), 349-357.

Tutubalina, O. Space-borne detection of glacial lakes in the Russian Central Caucasus, paper presented at Earth; our changing planet; proceedings of IUGG XXIV general assembly, Perugia, ITA, Italy, July 2-13, 2007, IUGG, [location varies], International (III), International (III), 2007.

U. S. Geological Survey, U. S. (2007), Ghana watershed prototype products Rep., 2 pp, United States (USA).

Ubeda, J., D. Palacios, and L. Vazquez (2009), Reconstruction of equilibrium line altitudes of Nevado Coropuna glaciers (southern Peru) from the Late Pleistocene to the present, *European Geosciences Union general assembly 2009, Vienna, AUT, Austria, April 19-24, 2009*, 11(Abstract), EGU2009-8067-2002.

Ubul, G., J. Ding, and A. Ruzi A quantitative analysis of the grassland landscape pattern in arid oasis: a case study in the Qira, paper presented at Geoinformatics 2008 and Joint Conference on GIS and Built Environment: Monitoring and Assessment of

Natural Resources and Environments, SPIE - The International Society for Optical Engineering, USA, 2008.

Uchida, K., Y. Ninomiya, M. Kaku, and T. Inoue (1996), Development of ASTER spectral database for remote sensing users; 30th international geological congress; abstracts, *30th international geological congress, Beijing, China, Aug. 4-14, 1996*, 30(Abstract), 447.

Uchida, K., S. Tanaka, Y. Yasuyuki, T. Ishiyama, and M. Kato Estimation of vegetation index distribution in arid and semi arid land based on ASTER data, Japan, 1999.

Ueda, K., K. Okada, T. J. Cudahy, R. D. Hewson, and M. Shoji Mineral mapping from complementary use of ASTER and HyMap sensor in the Broken Hill area, Australia, Japan, 2003.

Ueno, M., T. Shiraishi, M. Kawai, Y. Yoneda, M. Kimata, and M. Nunoshita PtSi Schottky-barrier infrared focal plane array for ASTER/SWIR, paper presented at Infrared Spaceborne Remote Sensing III, Jul 12-14 1995, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, San Diego, CA, USA, 1995.

Ukawa, K., J. Okazaki, K. Katoh, H. Momose, N. Fujiwara, and M. Matsue A case study on avian distribution models using land cover map derived from satellite imagery, paper presented at JILA the 23th Scientific Research Meeting, Japanese Institute of Landscape Architecture, 2005.

Ukawa, K. y., and K. Kato (2006), Relationship between Avian Diversity in Middle and Large Woodlots in Urban Areas and their Surrounding Environment, *Randosukepu Kenkyu*, 69, NO.5(Journal Article), PAGE.533-536.

Ukawa, K. y., and K. Katoh A case study on relationship between environmental conditions in urban woodlots and the surrounding areas and bird communities, paper presented at JILA Annual Scientific Research Meeting, Japanese Institute of Landscape Architecture, 2007.

Ukawa, K. y., and K. Katoh Relationship between avian diversity in middle and large woodlots in urban areas and their surrounding environment, paper presented at JILA the 24th Scientific Research Meeting, Japanese Institute of Landscape Architecture, 2006.

Ukawa, K. y., J. Okazaki, K. Kazuhiro, H. Momose, N. Fujiwara, and M. Matsue (2005), A Case Study on Avian Distribution Models Using Land Cover Map Derived from Satellite Imagery, *Journal of the Japanese Institute of Landscape Architecture*, 68, NO.5(Journal Article), PAGE.593-596.

Ulusoy, I. (2008), Volcano-tectonic investigation of Nemrut Volcano and determination of its natural risk potential, 231-231 pp, Universite Blaise Pascal, Clermont-Ferrand II, Clermont-Ferrand, France (FRA), France (FRA).

Ulusoy, I., P. Labazuy, E. Aydar, O. Ersoy, and E. Cubukcu (2008), Structure of the Nemrut caldera (Eastern Anatolia, Turkey) and associated hydrothermal fluid circulation, *Journal of Volcanology and Geothermal Research*, 174(4), 269-283.

Umitsu, M. Landform Classification with GIS and SRTM Data, paper presented at Proceedings of the General Meeting of the Association of Japanese Geographers, Association of Japanese Geographers, 2004.

Unrau, R. T. (2009), Synthetic aperture radar (SAR) as a tool for mapping remote geology as applied to the Belcher Islands, Nunavut, Canada, 1-55 pp, University of Manitoba, Winnipeg, MB, Canada (CAN), Canada (CAN).

Urabe, R., and M. Masao Mineral identification using the spectral database, Japan, 1998.

Urai, M. 2005 Sierra Negra eruption in Galapagos Island observed by ASTER, Japan, 2006.

Urai, M. ASTER DEM mosaic for the DEM Dataset generation, 2006.

Urai, M. Geolocation accuracy of nighttime ASTER imagery, Japan, 2005.

Urai, M. Development of the ASTER image database system for volcano, Japan, 2004.

Urai, M. Sulfur dioxide flux estimation at Oyama volcano in Miyake-Jima, Japan, using Advanced Spaceborne Thermal Emission and Reflection radiometer (ASTER), paper presented at Infrared Spaceborne Remote Sensing IX, Aug 1-3 2001, The International Society for Optical Engineering, San Diego, CA, United States, 2002.

Urai, M. Altitude and velocity estimation of volcanic plume using ASTER stereo image, Japan, 2001.

Urai, M. Sulfur dioxide distribution discharged from a volcano by ASTER, Japan, 2001.

Urai, M. Possibility of volcanic gas(SO<sub>2</sub>) detection with ASTER, Japan, 1998.

Urai, M. Potential of ASTER for active volcano observations, Japan, 1995.

Urai, M. (2001), Volcano observation with ASTER, *AGU Spring Meeting Abstracts*(Abstract).

Urai, M. (2003), Observation of SO<sub>2</sub> in Miyakejima Island by ASTER ,MODIS, *Occasional Papers.Research Center for the Pacific Island, Kagoshima University*, NO.37(Journal Article), PAGE.50-57.

Urai, M. (2004), Sulfur dioxide flux estimation from volcanoes using Advanced Spaceborne Thermal Emission and Reflection Radiometer - a case study of Miyakejima volcano, Japan, *Journal of Volcanology and Geothermal Research*, 134(1-2), 1-13.

Urai, M. (2004), Monitoring sulfur dioxide discharged from volcano with ASTER; Italia 2004; 32nd international geological congress; abstracts, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004, 32, Part 2(Abstract)*, 1185.

Urai, M. (2005), Monitoring submarine volcano with satellite remote sensing, *American Geophysical Union 2005 fall meeting, San Francisco, CA, United States, Dec. 5-9, 2005, 86(52, Suppl.)*, @Abstract G11A-1176.

Urai, M. (2005), Monitoring of volcanic activities using satellites, *AIST Today (International Edition)*(16), 11.

Urai, M. (2005), The present state and the future of volcano observation with satellites -Volcano monitoring with ASTER, *IEIC Technical Report (Institute of Electronics, Information and Communication Engineers, 105,NO.158(SANE2005 17-39)(Journal Article)*, PAGE.73-78.

Urai, M. (2006), Lava effusion rate estimated from remotely sensed thermal anomaly at Merapi volcano, Indonesia, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006, 87(52; Suppl.)*, Abstract V43B-1788.

Urai, M. (2008), Monitoring Fukutoku-Okanoba submarine volcano, Japan, with satellite remote sensing, *European Geosciences Union general assembly 2008, Vienna, AUT, Austria, April 13-18, 2008, 10(Abstract)*, EGU2008-A-01964.

Urai, M., K. Fukui, Y. Yamaguchi, and D. C. Pieri (1999), Volcano Observation Potential and Global Volcano Monitoring Plan with ASTER, *Bulletin of the Volcanological Society of Japan*, 44,NO.3(Journal Article), PAGE.131-141.

Urai, M., K. Fukui, Y. Yamaguchi, D. C. Pieri, and A. A. M. I. U. S. Erim International Global volcano monitoring plan with ASTER; Proceedings of the Thirteenth international conference on Applied geologic remote sensing, paper presented at Thirteenth international conference and workshops on Applied geologic remote sensing, Vancouver, BC, Canada, March 1-3, 1999, Environmental Research Institute of Michigan, Ann Arbor, MI, United States (USA), United States (USA), 1999.

Urai, M., N. Geshi, and T. Staudacher (2007), Size and volume evaluation of the caldera collapse on Piton de la Fournaise volcano during the April 2007 eruption using ASTER stereo imagery, *Geophysical Research Letters*, 34(22), L22318-L22318.

Urai, M., N. Geshi, and T. Staudacher (2007), Size and volume evaluation of the caldera collapse on Piton de la Fournaise Volcano during the April 2007 eruption by ASTER stereo imaging function, *American Geophysical Union 2007 fall meeting, San*

Francisco, CA, USA, United States, Dec. 10-14, 2007, 88(52, Suppl.), Abstract V24B-03-03.

Urai, M., Y. Kawanabe, J. i. Itoh, A. Takada, M. Kato, and A. Tomiya (2001), Ash fall areas associated with the Usu 2000 eruption observed by ASTER; The 2000 eruption of Usu Volcano, *Chishitsu Chosajo Geppo = Bulletin of the Geological Survey of Japan*, 52(4-5), 189-197.

Urai, M., and S. Machida Volcanic discolored seawater analysis using ASTER Reflectance Product (2B05V), Japan, 2003.

Urai, M., and S. Machida (2005), Discolored seawater detection using ASTER reflectance products: A case study of Satsuma-Iwojima, Japan, *Scientific Results from ASTER*, 99(1-2), 95-104.

Urai, M., T. Matsunaga, and I. Takemasa Soil Moisture Contents and Spectral Emissivity in the Thermal Infrared of the Soil Sampled in Muus Desert, China, Japan, 1996.

Urai, M., T. Matsunaga, and I. Takemasa (1997), Relationship between Soil Moisture Content and Thermal Infrared Emissivity of the Sand Sampled in Muus Desert, China, *Journal of Remote Sensing Society of Japan*, 17, NO.4(Journal Article), PAGE.322-331.

Urai, M., H. Muraoka, and A. Nasution (2002), Satellite remote sensing data and their interpretations for geothermal applications; a case study on the Ngada District, central Flores, Indonesia; Indonesia-Japan geothermal exploration project in Flores Island, *Chishitsu Chousa Kenkyuu Houkoku = Bulletin of the Geological Survey of Japan*, 53(2-3), 99-108.

Urai, M., S. Tsuchida, R. Nakamura, N. Yamamoto, M. Arioka, H. Tonooka, M. Moriyama, and Y. Yamaguchi The East Asia DEM Dataset generation plan using ASTER, 2006.

Ustin, S. L., M. O. Smith, S. Jacquemoud, M. M. Verstraete, and Y. M. Govaerts (1999), Geobotany; vegetation mapping in earth sciences, in *Remote sensing for the earth sciences*, edited by A. N. Rencz and R. A. Ryerson, John Wiley & Sons, New York, NY, United States (USA), United States (USA).

Uto, K., Y. Takabayashi, Y. Kosugi, and T. Ogata Hyperspectral analysis of Japanese Oak Wilt to determine Normalized Wilt Index, paper presented at 2008 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2008, IEEE, Piscataway, NJ, USA, 2008.

van Arsdall, L. E., and R. L. Nusbaum (2007), Satellite-based Morphotectonics of the Tibesti Lineament and its Relationship to Volcanism, Tibesti Massif, Chad, 2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007, 11; 88(52, Suppl. Volume 1-2), 0808.

Van Arsdall, L. E., and R. L. Nusbaum (2007), Digital geologic mapping used for analysis of geologic structures and volcanism, Tibesti volcanic province, Chad, *Geological Society of America, Southeastern Section, 56th annual meeting, Savannah, GA, United States, March 29-30, 2007*, 39(2), 98.

van der Kwast, J., W. Timmermans, A. Gieske, Z. Su, A. Olioso, L. Jia, J. Elbers, D. Karssenberg, and S. de Jong (2009), Evaluation of the Surface Energy Balance System (SEBS) applied to ASTER imagery with flux-measurements at the SPARC 2004 site (Barrax, Spain), *Hydrology and Earth System Sciences*, 13(7), 1337-1347.

van der Wielen, S., S. Oliver, and A. Kalinowski (2004), Remote sensing and spectral investigations in the Western Succession, Mount Isa Inlier; implications for exploration; Predictive Mineral Discovery Cooperative Research Centre; extended abstracts from the June 2004 conference *Rep. 1920871039*, 205-208 pp, Australia (AUS).

van Gils, H., J. O. Odoi, and T. Andrisano (2010), From monospecific to mixed forest after fire?. An early forecast for the montane belt of Majella, Italy, *Forest Ecology and Management*, 259(3), 433-439.

van Manen, S. M., and A. J. Carter (2007), Thermal observations of the degassing of the December 2006 and May 2007 pyroclastic flow deposits at Bezymianny Volcano, Kamchatka, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 21; 88(52, Suppl. Volume 1-2), 0387.

Van Niekerk, H. J., and L. A. Sandham (2007), Visual interpretation of ASTER satellite data. Part 1: geologic mapping in the Cradle of Humankind World Heritage Site, *Suid-Afrikaanse Tydskrif vir Natuurwetenskap en Tecnologie*, 26(3), 177-195.

Van Niekerk, H. J., and L. A. Sandham (2007), Visual interpretation of ASTER satellite data. Part II. Land use mapping in Mpumalanga, South Africa, *Suid-Afrikaanse Tydskrif vir Natuurwetenskap en Tecnologie*, 26(4), 247-264.

Van Trung, N., J.-H. Choi, and J.-S. Won Fusion of ALOS PALSAR and ASTER data for landcover classification at Tonle Sap floodplain, paper presented at Remote Sensing of the Coastal Ocean, Land, and Atmosphere Environment, October 13, 2010 - October 14, SPIE, Bellingham, WA, 2010.

Van Westen, C. J. (2004), Geo-Information tools for landslide risk assessment: an overview of recent developments, in *Landslides: evaluation and stabilization; Glissements de terrain : evaluation et stabilisation*, edited by W. A. Larcada, pp. 39-56, A. A. Balkema, Leiden, Netherlands.

Vanacor, R. N., and S. B. A. Rolim Mapeamento de areas suscetiveis a movimentos de massa atraves de tecnica estatistica bivariada em base GIS na porcao nordeste da serra gaucha, RS. Mapping areas vulnerable to mass movements, utilizing GIS-based bivariate statistical analysis in northeastern Rio Grande do Sul, paper presented at

Sociedade Brasileira de Geologia; 44 degrees congresso, Curitiba, Brazil, Oct. 26-31, 2008, Sociedade Brasileira de Geologia, Porto Alegre, Brazil (BRA), Brazil (BRA), 2008.

VanDerVeen, K. (2004), Pilot Study for Using Aster Images to Map Glacial Geomorphology, edited, p. 0.

Vani, K., and G. U. V. Lakshmi Priya Detection and removal of cloud contamination from satellite images, paper presented at Remote Sensing of the Atmosphere and Clouds, SPIE -International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, Goa, India, 2006.

Vani, K., S. Sanjeevi, and A. Ravindran (2002), Wavelet based fusion of ASTER (VNIR and SWIR) bands for improved soil information extraction; Proceedings of the ISPRS commission VII symposium; resource and environmental monitoring, *ISPRS Commission VII symposium, Hyderabad, India, Dec. 3-6, 2002, 34*(Journal Article), 140-145.

Varma, S., J. Turner, and J. Underschultz (2010), Estimation of submarine groundwater discharge into Geographe Bay, Bunbury, Western Australia, *Journal of Geochemical Exploration*, 106(1-3), 197-210.

Vaughan, G. R., and W. M. Calvin (2005), Mapping Weathering and Alteration Minerals in the Comstock and Geiger Grade Areas using Visible to Thermal Infrared Airborne Remote Sensing Data, in *Geological Society of Nevada Symposium 2005: Window to the World; May 2005, Reno NV*, edited, pp. 20-20, Jet Propulsion Lab., California Inst. of Tech.; Pasadena, CA, Reno, NV United States May 2005.

Vaughan, R. G. (2004), Surface mineral mapping at Virginia City and Steamboat Springs, Nevada with multi-wavelength infrared remote sensing image data, 259-166 pp, University of Nevada, Reno; 0139 Advisor: Adviser Wendy M. Calvin.

Vaughan, R. G., M. J. Abrams, S. J. Hook, and D. C. Pieri (2007), Satellite observations of new volcanic island in Tonga, *EOS, Transactions, American Geophysical Union*, 88(4), 37-41.

Vaughan, R. G., M. J. Abrams, M. Kervyn, and S. J. Hook (2007), ASTER observations of recent thermal activity and explosive eruption at Oldoinyo Lengai, Tanzania, *American Geophysical Union 2007 fall meeting, San Francisco, CA, United States, Dec. 10-14, 2007, 88*(52, Suppl.), @Abstract V11D-0817.

Vaughan, R. G., and W. M. Calvin (2001), Multispectral and hyperspectral thermal infrared imaging for mineral mapping; comparison of MASTER and SEBASS; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001, 33*(6), 347.

Vaughan, R. G., and S. J. Hook (2006), Using satellite data to characterize the temporal thermal behavior of an active volcano: Mount St. Helens, WA, *Geophysical Research Letters*, 33(20), L20303-L20303.

Vaughan, R. G., S. J. Hook, W. M. Calvin, and J. V. Taranik (2005), Surface mineral mapping at Steamboat Springs, Nevada, USA, with multi-wavelength thermal infrared images, *Scientific Results from ASTER*, 99(1-2), 140-158.

Vaughan, R. G., S. J. Hook, and A. G. Davies (2006), Spaceborne Thermal Infrared Measurements of Volcanic Thermal Features, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Vaughan, R. G., M. Kervyn, V. Realmuto, M. Abrams, and S. J. Hook (2008), Satellite measurements of recent volcanic activity at Oldoinyo Lengai, Tanzania, *Journal of Volcanology and Geothermal Research*, 173(3-4), 196-206.

Vaughan, R. G., L. P. Keszthelyi, A. G. Davies, D. J. Schneider, C. Jaworowski, and H. Heasler (2010), Exploring the limits of identifying sub-pixel thermal features using ASTER TIR data, *Journal of Volcanology and Geothermal Research*, 189(3-4), 225-237.

Vaughan, R. G., R. Wessels, and M. S. Ramsey (2005), Monitoring Renewed Volcanic Activity at Mount St. Helens with High-Resolution Thermal Infrared Data: ASTER, MASTER and FLIR, *AGU Fall Meeting Abstracts*, 86(52, SUPPL.), Abstract V53D-1603.

Vazifedoust, M., J. C. Van Dam, R. A. Feddes, and W. G. M. Bastiaanssen (2007), Disaggregation of remote sensing evapotranspiration data: from low to high spatial resolution, *9th European Geosciences Union General Assembly, Vienna (Austria)*, 15-20 Apr 2007(Abstract).

Vermeesch, P., and N. Drake (2008), Remotely sensed dune celerity and sand flux measurements of the world's fastest barchans (Bodele, Chad), *Geophysical Research Letters*, 35(24), L24404-L24404.

Vespremeanu-Stroe, A., and L. Preoteasa (2007), Beach-dune interactions on the dry-temperate Danube delta coast, *Geomorphology*, 86(3-4), 267-282.

Vignon, F., Y. Arnaud, and G. Kaser Quantification of Glacier Volume Change Using Topographic and ASTER DEMs: A Case Study in the Cordillera Blanca, paper presented at 2003 IGARSS: Learning From Earth's Shapes and Colours, Jul 21-25 2003, Institute of Electrical and Electronics Engineers Inc, Toulouse, France, 2003.

Villa, P., and G. Lechi Normalized difference reflectance: An approach to quantitative change detection, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

- Vincent, R. K. (2006), The Critical Need for Future Mid-Resolution Thermal Infrared Satellite Sensors, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).
- Vincent, R. K., and R. A. Beck (2005), Spectral Ratio Imaging with Hyperion Satellite Data for Geological Mapping; Final ReportRep., 1-23 pp, Bowling Green State Univ.; Dept. of Geology; OH.
- Vincent, R. K., and N. S. Levine (2004), Future directions for geological remote sensing and geographical information systems (GIS) in geological education, *Environmental & Engineering Geoscience*, 10(4), 329-338.
- Vining, B. R., and J. Wiseman (2006), Multispectral and synthetic aperture radar remote-sensing-based models for holocene coastline development in the Ambracian Gulf, Epirus, Greece, *Archaeological Prospection*, 13(4), 258-268.
- Voletsky, J. C. (2002), Massive sulfide deposits of the Wadi Bidah Mineral District, Saudi Arabia: Geologic control of mineralization; remote sensing and mineral exploration; geochemical exploration and petrogenesis, 130-1660 pp, The University of Texas at Dallas.
- Voletsky, J. C., R. J. Stern, and M. G. Abdelsalam (2001), Mineral exploration with Landsat ETM+ and ASTER data in the Wadi Bidah mineral district, Saudi Arabia; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 289.
- Voletsky, J. C., R. J. Stern, and P. R. Johnson (2003), Geological control of massive sulfide mineralization in the Neoproterozoic Wadi Bidah shear zone, southwestern Saudi Arabia, inferences from orbital remote sensing and field studies; Evolution of the East African and related orogens, and the assembly of Gondwana, *Precambrian Research*, 123(2-4), 235-247.
- Volpe, V., S. Silvestri, and M. Marani (2011), Remote sensing retrieval of suspended sediment concentration in shallow waters, *Remote Sensing of Environment*, 115(1), 44-54.
- Vrabel, J., B. A. Eckstein, C. P. Mullen, and B. Kunze Spaceborne hyperspectral imagery sharpened with spaceborne multispectral imagery, paper presented at Algorithms and Technologies for MultiSpectral, Hyperspectral, and Ultraspectral Imagery X, Apr 12-15 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Orlando, FL, United States, 2004.
- Vrieling, A., S. M. de Jong, G. Sterk, and S. C. Rodrigues (2008), Timing of erosion and satellite data: A multi-resolution approach to soil erosion risk mapping, *International Journal of Applied Earth Observation and Geoinformation*, 10(3), 267-281.

Vrieling, A., S. C. Rodrigues, H. Bartholomeus, and G. Sterk (2007), Automatic identification of erosion gullies with ASTER imagery in the Brazilian Cerrados, *International Journal of Remote Sensing*, 28(12), 2723-2738.

Vu, T. T., M. Matsuoka, and F. Yamazaki Object-Based Image Analysis for Mapping Tsunami-Affected Areas, paper presented at 100th Anniversary Earthquake Conference including the 8th U.S. National Conference on Earthquake Engineering (8NCEE), the SSA Centennial Meeting, and the OES Disaster Resistant California Conference; San Francisco, CA; USA; 18-22 Apr. 2006, Earthquake Engineering Research Institute, 499 14th St , Suite 320, Oakland, CA, 94612-1934, USA, [mailto:[eeri@eeri.org](mailto:eeri@eeri.org)], [URL:<http://www.eeri.org>], 2006.

Vu, T. T., M. Matsuoka, and F. Yamazaki (2007), Dual-scale approach for detection of tsunami-affected areas using optical satellite images, *Satellite Observations Related to Sumatra Tsunami and Earthquake of 26 December 2004*, 28(13), 2995-3011.

Wahid, A. M. (2008), GIS-based modeling of wind-transported sand on the Qaa Plain beach, southwestern Sinai, Egypt, *Journal of Coastal Research*, 24(4), 936-943.

Wahl, R. R., and C. D. Blome (2009), A geospatial map database of the Arbuckle-Simpson Mountains, Oklahoma, *Geological Society of America, 2009 annual meeting, Portland, OR, USA, United States, Oct. 18-21, 2009*, 41(7), 287.

Walker, R. T., M. J. Andalibi, M. R. Gheitanchi, J. A. Jackson, S. Karegar, and K. Priestley (2005), Seismological and field observations from the 1990 November 6 Furg (Hormozgan) earthquake: a rare case of surface rupture in the Zagros mountains of Iran, *Geophysical Journal International*, 163(2), 567-579.

Walker, R. T., E. Molor, M. Fox, and A. Bayasgalan (2008), Active tectonics of an apparently aseismic region; distributed active strike-slip faulting in the Hangay Mountains of central Mongolia, *Geophysical Journal International*, 174(3), 1121-1137.

Wan, H., J. Wang, Z. Xiao, and L. Li (2007), Generating the High Spatial and Temporal Resolution Lai by Fusing Modis and Aster, *Journal of Beijing Normal University (Natural Science Edition)*, 43(3), 303-308.

Wan, H., J. Wang, Y. Zhang, Y. Wiang, Z. Jiao, and X. Zhang (2005), An Approach on Monitoring the Albedo of Winter Wheat at Growing Period by Using MODIS Data, *Acta Agronomica Sinica*, 31(12), 1572-1578.

Wan, Z., J. Dozier, A. National, and G. M. D. Space Administration. Goddard Space Flight Center Effects of temperature-dependent molecular absorption coefficients on the thermal infrared remote sensing of the earth surface, paper presented at IGARSS '92; Proceedings of the 12th Annual International Geoscience and Remote Sensing Symposium, Houston, TX; 26-29 May 1992, Institute of Electrical and Electronics Engineers, Inc., 1992.

Wang, B.-C., F. Miao, J.-H. Chen, H.-H. Huang, D.-J. Lai, and M.-X. Yan (2008), The construction and application of normalized difference water index (NDWI) based on the ASTER image, *Cehui Kexue / Science of Surveying and Mapping*, 33(2), 177-179.

Wang, C., and J. Chen (2004), Extracting the Information of Concrete, *Geo-information Science*, 6(2), 106-124.

Wang, C., and J. Chen (2004), Investigation on Extracting the Space Information of Concrete, *Journal of Fujian Normal University.Natural Science*, 20(1), 88-91.

Wang, C., B. E. Jamison, and A. A. Spicci (2010), Trajectory-based warm season grassland mapping in Missouri prairies with multi-temporal ASTER imagery, *Remote Sensing of Environment*, 114(3), 531-539.

Wang, C., G. Yang, Z. Ma, and Z. Xing (2009), Fusion of VNIR and thermal infrared remote sensing data based on GA-SOFM neural network, *Diqu Kongjian Xinxi Kexue Xuebao/ Geo-Spatial Information Science Quarterly*, 12(4), 271-280.

Wang, G., Y. Liang, and S. Zhang Hydrothermal alteration mapping based on MPH and fractal technologies using ASTER and ETM+ data in Lushi region, Henan Province, China, paper presented at 2010 International Conference on Environmental Science and Information Application Technology (ESIAT), 17-18 July 2010, IEEE, 2010.

Wang, G. J., Z. W. He, W. X. Qiu, and H. X. Xu (2009), Extraction and accuracy assessment of DEM on maerdang dam area from ASTER stereo image data, *Cehui Kexue / Science of Surveying and Mapping*, 34(3), 95-96.

Wang, H., and A. P. Ingersoll (2002), Martian clouds observed by Mars Global Surveyor Mars Orbiter Camera, *UNITED STATES*, 107(E10), 8-1 to 8-16.

Wang, H., and Y. Li (2005), The Method of Monitoring the Spatial Distributions of Blue Algae in Meiliang Bay Using ASTER Data, *Journal of Nanjing Normal University.Natural Science*, 28(1), 103-106.

Wang, J.-F., S.-S. Chen, C.-L. Wang, S.-T. Bao, and L.-G. Fang Monitoring potential agricultural cold disaster area by multi-factors correctional ASTER LST a case study in the Shanwei, Southern China, paper presented at 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Denver, CO, United States, 2006.

Wang, K., and S. Liang (2009), Evaluation of ASTER and MODIS land surface temperature and emissivity products using long-term surface longwave radiation observations at SURFRAD sites, *Remote Sensing of Environment*, 113(7), 1556-1565.

Wang, K., Q. Liu, and Q. Liu Localized land surface temperature retrieval from the MODIS level-1B data using water vapor and in situ data, paper presented at 2010 30th

IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Wang, L., D. Jia, H. Shi, Q. Lin, M. Ge, and Y. Xu Possibilities of multi-spectral data for the assessment of soil nitrogen content, paper presented at 2006 IEEE International Geoscience and Remote Sensing Symposium, IGARSS, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Denver, CO, United States, 2006.

Wang, L., Q.-Z. Lin, D. Jia, H.-S. Shi, and X.-H. Huang (2007), Analysis on possibilities of multi-spectral data for quantitative retrieving soil nutrition element contents, *Huanjing Kexue/Environmental Science*, 28(8), 1822-1828.

Wang, P., R. Sun, J. Hu, Q. Zhu, Y. Zhou, L. Li, and J. M. Chen (2007), Measurements and simulation of forest leaf area index and net primary productivity in Northern China, *Journal of environmental management*, 85(3), 607-615.

Wang, Q., X. Chen, J. Ma, and J. Chen (2010), A comparative study of two remote sensing image adjacency effect correction algorithms based on SHDOM empirical equation and synchronized measured spectral data, *Guangxue Xuebao/Acta Optica Sinica*, 30(11), 3342-3348.

Wang, Q., and Q. Lin (2006), Remote Sensing Lithology Identification in Baoer Tu Using Aster Image, *Geography and geo-information science*, 22(2), 9-12.

Wang, Q., Q. Lin, M. Li, and Q. Tian (2009), A new target detection algorithm: spectra sort encoding, *International Journal of Remote Sensing*, 30(9), 2297-2307.

Wang, T., S. Chen, and Y. Ma Accuracy assessment of linear spectral mixture model due to terrain undulation, paper presented at International Conference on Earth Observation Data Processing and Analysis, ICEODPA, SPIE, Bellingham WA, WA 98227-0010, United States, 2008.

Wang, T. J., A. K. Skidmore, and A. G. Toxopeus (2009), Improved understorey bamboo cover mapping using a novel hybrid neural network and expert system, *International Journal of Remote Sensing*, 30(4), 965-981.

Wang, X., Q. Wang, G. Liu, and H. Li A study on the quantitative remote sensing model for the suspended sediment concentration in coastal waters with ASTER data, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Wang, X., Z. Yang, G. Kang, and Y. Yang The Coal Fire Land Surface Temperature Abnormal Information Extraction from ASTER Satellite Image: Take Yangxia Coal Fire Area in Luntai County, Xinjiang, China as an Example, paper presented at International

Conference on Information Engineering and Computer Science, 2009. ICIECS 2009., IEEE, 2009.

Wang, X., and S. Zhang Evaluation of land cover classification effectiveness for the Queer mountains, China using ASTER satellite data, paper presented at Proceedings of the Second IASTED International Conference on Advanced Technology in the Environmental Field, 6-8 Feb. 2006, ACTA Press, 2007.

Wang, Y., F. Fan, J. Zhang, H. Xia, and C. Ye Urbanization in Pearl River Delta area in past 20 years: Remote sensing of impact on water quality, paper presented at Remote Sensing and Modeling of Ecosystems for Sustainability, Aug 2-4 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Denver, CO, United States, 2004.

Wang, Y., S. Hou, and Y. Liu (2009), Glacier changes in the Karlik Shan, eastern Tien Shan, during 1971/72-2001/02, *World glacier inventory*, 50(53), 39-45.

Wang, Y., and D. Sun The et estimation from ASTER image based on SEBAL and TSEB method, paper presented at MIPPR 2005: Geospatial Information, Data Mining, and Applications, Oct 31-Nov 2 2005, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, Wuhan, China, 2005.

Wang, Y., and D. Sun The ASTER tasseled cap interactive transformation using Gramm-Schmidt method, paper presented at MIPPR 2005: SAR and Multispectral Image Processing; Wuhan; China; 31 Oct.-2 Nov. 2005, 2005.

Wang, Y.-C., T.-Y. Chang, and Y.-A. Liou (2010), Terrain Correction for Increasing the Evapotranspiration Estimation Accuracy in a Mountainous Watershed, *Ieee Geoscience and Remote Sensing Letters*, 7(2), 352-356.

Wang, Z., and Z. Zhao Expanded Q4 quality assessment for pan-sharpened multispectral image, paper presented at Geoinformatics 2008 and Joint Conference on GIS and Built Environment: Advanced Spatial Data Models and Analyses, SPIE - The International Society for Optical Engineering, USA, 2009.

Wangensteen, B., O. M. Tonsberg, A. Kaab, T. Eiken, and J. O. Hagen (2006), Surface elevation change and high resolution surface velocities for advancing outlets of Jostedalsbreen, *Geografiska Annaler Series A-Physical Geography*, 88A(1), 55-74.

Warner, M., and P. G. Chirico (2006), ASTER DEM development in mountainous terrain for natural resource assessments in Afghanistan; Proceedings of the U.S. Geological Survey Sixth biennial geographic information science workshopRep., 43 pp, United States (USA).

Warner, N. H., and J. D. Farmer (2008), Laboratory and remote identification of hydrothermal alteration materials associated with subglacial outflow surfaces in

Iceland, *Thirty-ninth lunar and planetary science, Houston, TX, United States, March 10-14, 2008, 1391(Abstract)*, @Abstract 1477.

Warner, N. H., and J. D. Farmer (2008), Hydrothermal mineral signatures in Icelandic outflow deposits and the search for ancient hydrothermal systems on Mars, *Geological Society of America, 2008 annual meeting, Houston, TX, United States, Oct. 5-9, 2008, 40(6)*, 263.

Warner, N. H., and J. D. Farmer (2010), Subglacial Hydrothermal Alteration Minerals in Jokulhlaup Deposits of Southern Iceland, with Implications for Detecting Past or Present Habitable Environments on Mars, *Astrobiology, 10(5)*, 523-547.

Warner, T. A., and F. Nerry (2009), Does single broadband or multispectral thermal data add information for classification of visible, near- and shortwave infrared imagery of urban areas?, *International Journal of Remote Sensing, 30(9)*, 2155-2171.

Wasowski, J., C. Lamanna, and D. Casarano (2010), Influence of land-use change and precipitation patterns on landslide activity in the Daunia Apennines, Italy, *Land-use and climate change impacts on landslides, 43(4)*, 387-401.

Watanabe, H. Application of ASTER data to hazard evaluation with an example of damage evaluation of the landslide in Pakistan, paper presented at Sensors, Systems, and Next-Generation Satellites XI, SPIE, Bellingham WA, WA 98227-0010, United States, Florence, Italy, 2007.

Watanabe, H. Accuracy of geolocation and DEM for ASTER, paper presented at Sensors, Systems, and Next-Generation Satellites IX, Sep 20-22 2005, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, Bruges, Belgium, 2005.

Watanabe, H. ASTER Data and its accuracy, Japan, 2005.

Watanabe, H. Comprehensive rock-type classification by ASTER data over Ethiopian Rift Valley, paper presented at Sensors, Systems, and Next-Generation Satellites VIII, Sep 13-15 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Maspalomas, Spain, 2004.

Watanabe, H. (1995), Development of ASTER Ground Data System, *Journal of Remote Sensing Society of Japan, 15,NO.2*(Journal Article), PAGE.116-119.

Watanabe, H. (1999), Mineral Quantitative Mapping Using Fuzzy Inference for ASTER Data, *Journal of Remote Sensing Society of Japan, 19,NO.5*(Journal Article), PAGE.407-422.

Watanabe, H. (2005), Application of remote sensing data including ASTER to hazard prevention,-Focusing on the earthquake off the coast of Sumatra Island, *Butsuri-Tansa = Geophysical Exploration, 58,NO.6*(Journal Article), PAGE.611-616.

Watanabe, H. (2006), ASTER Data and Its Accuracy, *Journal of Remote Sensing Society of Japan*, 26, NO. 1(Journal Article), PAGE.43-44.

Watanabe, H., H. Fujisada, and I. Sato Preliminary design concept of ASTER ground data system, paper presented at Advanced and Next-Generation Satellites, Sep 25-28 95, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, Paris, Fr, 1995.

Watanabe, H., T. Inada, K. Yoshiaki, and A. Miura Operation of ASTER and its data production, paper presented at Sensors, Systems, and Next-Generation Satellites VI, Sep 23-26 2002, The International Society for Optical Engineering, Agia Pelagia, Crete, Greece, 2002.

Watanabe, H., M. Junji, and S. Fushimi Post-launch status of ASTER Ground Data System and how to get ASTER data by using it, Japan, 2000.

Watanabe, H., and Y. Kannari Band-to-band registration techniques among ASTER images obtained by different telescopes, paper presented at Platforms and Systems, Sep 6 1994, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, Rome, Italy, 1995.

Watanabe, H., Y. Kannari, and A. Miura Operational Performance of ASTER and Its Ground System, paper presented at Twenty-Fourth International Symposium on Space Technology and Science; Miyazaki; Japan; 30 May-6 June 2004, Japan Society for Aeronautical and Space Sciences, Kakukarkanbunkan, 1-18-2 Shinhaski, Minato-ku, Tokyo, Japan, 2004.

Watanabe, H., A. Kazuhiro, T. Takemura, and A. Kono Drawing of a rock and mineral distribution map using ASTER simulation data, Japan, 1994.

Watanabe, H., and K. Matsuo (2003), Rock type classification by multi-band TIR of ASTER, *Geosciences Journal (Seoul)*, 7(4), 347-358.

Watanabe, H., F. Mills, M. Sano, and T. Tagawa (1993), Recent progress in geologic application of airborne and spaceborne remote sensing; Observations of Earth from space, *COSPAR twenty-ninth plenary meeting; Syposium A1 and topical meetings of the COSPAR Interdisciplinary Scientific Commission B (meetings B7 and B9)*, Washington, DC, United States, Aug. 28-Sept. 5, 1992, 13(11), 15-21.

Watanabe, H., R. Missotin, and K. Tokumaru (1992), International cooperation in geologic remote sensing and the role of ASTER; Resumes des communications Francaises presentees au 29 (super e) congres geologique international. Abstracts of French communications presented at the 29th international geological congress, *29th international geological congress, Kyoto, Japan, Aug. 8-Sept. 3, 1992, 42(Abstract)*, 95.

Watanabe, H., R. Missotten, and K. Tokumaru (1992), International cooperation in geologic remote sensing and the role of ASTER; 29th international geological congress; abstracts, *29th international geological congress, Kyoto, Japan, Aug. 24-Sept. 3, 1992*, 29(Abstract), 982.

Watanabe, H., M. Sano, F. Mills, S.-H. Chang, and S. Masuda Airborne and spaceborne thermal multispectral remote sensing, paper presented at Future European and Japanese Remote-Sensing Sensors and Programs, Apr 1-2 1991, Publ by Int Soc for Optical Engineering, Bellingham, WA, USA, Orlando, FL, USA, 1991.

Watanabe, H., T. Takemura, K. Adachi, I. Kohno, and C.-J. F. Chung An application of fuzzy classification for mineral mapping using ASTER simulation data; 1994 International Association for Mathematical Geology annual conference; papers and extended abstracts for technical programs, paper presented at 1994 International Association for Mathematical Geology annual conference including the International symposium for mineral exploration (ISME'94) and Geochautauqua '94, Mont Tremblant, QC, International Association for Mathematical Geology, 1994.

Watanabe, H., H. Tsu, and I. Sato Development of ASTER ground data system and ASTER first data generation, paper presented at Sensors, Systems, and Next-Generation Satellites IV, Sep 25-28 2000, Society of Photo-Optical Instrumentation Engineers, Barcelona, 2001.

Watanabe, H., H. Tsu, and I. Sato Technical challenge of the ASTER Ground Data System, paper presented at Sensors, systems, and next-generation satellites II; Proceedings of the Meeting, Barcelona, Spain, Sept. 21-24, 1998, Society of Photo-Optical Instrumentation Engineers, United States, 1998.

Watanabe, K., H. Nagata, and K. Isao Concept Design of an ASTER Integrated Mars Probe, Japan, 1998.

Watson, F. G. R., R. E. Lockwood, W. B. Newman, T. N. Anderson, and R. A. Garrott (2008), Development and comparison of Landsat radiometric and snowpack model inversion techniques for estimating geothermal heat flux, *Remote Sensing of Environment*, 112(2), 471-481.

Watson, M. (2004), Developing a Multi-Species Algorithm for Quantifying Volcanic Emissions Using MODIS, ASTER and AIRS, edited.

Watson, M. (2008), Using Aster, MODIS and AIRS to Estimate Global Emissions of Volcanogenic SO<sub>2</sub>, edited, p. 10, Michigan Technological Univ.; Houghton, MI.

Watson, M., V. Realmuto, F. Prata, W. Rose, G. Bluth, S. Carn, C. Bader, and Y. Gu (2002), Recent Developments in Spaceborne Observations of Volcanic SO<sub>2</sub>, *AGU Spring Meeting Abstracts*, 52(Abstract), 06.

- Watts, D. R., et al. (2005), Mapping granite and gneiss in domes along the north Himalayan antiform with ASTER SWIR band ratios, *Geological Society of America Bulletin*, 117(7-8), 879-886.
- Wechsler, N., M. Eneva, and Y. Ben-Zion (2006), Identifying Pulverized Rocks At The Macro Scale Using Thermal Remote Sensing, A Test Case From The Mojave Section Of The San-Andreas Fault, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).
- Weeks, P. J. (2004), Illuminating ASTER: NASA's spaceborne sensor generates swath-based DEMs, *GeoSpatial Solutions*, 14(2), 32-36.
- Wei, H., J. Ma, M. Ma, J. Wang, and X. Li (2004), Study on changes of glaciers and glacial lakes in the Pumqu Basin based on RS and GIS, *Journal of Lanzhou University.Natural Science*, 20(2), 97-100.
- Wei, O. Y., F. H. Hao, Y. S. Fu, and J. X. Zhang (2008), Desert disturbance assessments of regional oil exploitation by Aster and ETM plus images in Taklimakan Desert China, *Environmental monitoring and assessment*, 144(1-3), 159-168.
- Wei, S., J. Zhang, and J. Chen (2007), Study on Construction Land Distribution in Fujian and Taiwan Provinces Based on Spatial Autocorrelation Analysis, *Progress in geography*, 26(3), 11-17.
- Weirich, F., and L. Blesius (2007), Comparison of satellite and air photo based landslide susceptibility maps, *Geomorphology*, 87(4), 352-364.
- Wei-tao, C., Z. Zhi, L. Zhi-zhong, Y. Jun-jie, and Q. Li-ping Detection and evaluation on phosphorite mining environment contamination sources using ASTER and DEM, paper presented at Remote Sensing of the Environment: 16th National Symposium on Remote Sensing of China, SPIE - The International Society for Optical Engineering, USA, 2008.
- Welch, R., T. Jordan, H. Lang, and H. Murakami (1998), ASTER as a source for topographic data in the late 1990's, *IEEE Transactions on Geoscience and Remote Sensing*, 36(4), 1282-1289.
- Welch, R., H. R. Lang, A. B. Kahle, and H. Tsu (1993), The Advanced Spaceborne Thermal Emission and Reflectance Radiometer (ASTER) stereo subsystem; a source of digital elevation models (DEMs) for earth science research; AGU 1993 spring meeting, *American Geophysical Union, 1993 spring meeting, Baltimore, MD, United States, May 24-28, 1993*, 74(16), 194.
- Welch, R. M. (1993), The effects of cloud inhomogeneities upon radiative fluxes, and the supply of a cloud truth validation dataset; Topical Semianual progress Report, January 1993Rep. NASA-CR-191711;NAS 1.26:191711;SA-2, 103-103 pp, South

Dakota School of Mines and Technology; Inst. of Atmospheric Sciences; Rapid City, SD, United States.

Welch, R. M. (1996), The effects of cloud inhomogeneities upon radiative fluxes, and the supply of a cloud truth validation dataset; *Semiannual Report, July 1996 Rep. NASA-CR-201472; NAS 1.26:201472; SA-9*, 11-11 pp, South Dakota School of Mines and Technology; Inst. of Atmospheric Sciences; Rapid City, SD.

Welch, R. M. (1997), The Effects of Cloud Inhomogeneities Upon Radiative Fluxes, and the Supply of a Cloud Truth Validation Dataset; *Semiannual Report, January 1997 Rep. NASA-CR-203240; NAS 1.26:203240; SA-10*, 11-11 pp, South Dakota School of Mines and Technology; Inst. of Atmospheric Sciences; Rapid City, SD.

Welch, R. M., T. Lyons, J. Hacker, U. Nair, R. A. Pielke, S. Asefi, and Y. Wu (2006), The Impact of Land Use Change in Southwestern Australia: The Australian Bunny Fence Experiment (BuFEx-05), *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Welker, J. M., et al. (2006), Biocomplexity in the High Arctic: Linearity's, interactions and hidden secrets in surface processes, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, C43A-05(Abstract).

Weller, M. B. (2010), Comparison of materials detected and identified on Earth and Mars using multiband and hyperspectral sensors, 177 p. pp, University of Nevada, Reno, Reno, NV.

Wen, G., A. Marshak, and R. F. Cahalan (2008), Importance of molecular Rayleigh scattering in the enhancement of clear sky reflectance in the vicinity of boundary layer cumulus clouds, *Journal of Geophysical Research-Atmospheres*, 113(Journal Article), D24207-D24207.

Wen, G. Y., A. Marshak, R. F. Cahalan, L. A. Remer, and R. G. Kleidman (2007), 3-D aerosol-cloud radiative interaction observed in collocated MODIS and ASTER images of cumulus cloud fields, *Journal of Geophysical Research-Atmospheres*, 112(D13), D13204-D13204.

Wen, G.-Y., A. Marshak, and R. F. Cahalan 3D Cloud Radiative Effects on Aerosol Optical Thickness Retrievals in Cumulus Cloud Fields in the Biomass Burning Region in Brazil, paper presented at 2004 Fall AGU Meeting, San Francisco, CA United States United States 13-17 Dec. 2004, 2004.

Wen, X., and X. Yang The comparison of landscape metrics derived from remote sensing data before and after Wenchuan earthquake, paper presented at First International Workshop on Education Technology and Computer Science. ETCS 2009, IEEE, 2009.

Wendt, A., J. Wendt, F. Bown, A. Rivera, R. Zamora, C. Bravo, and G. Casassa (2009), Ice flow velocities and elevation change at Fleming Glacier, Wordie Ice Shelf, Antarctic Peninsula, *European Geosciences Union general assembly 2009, Vienna, Austria, April 19-24, 2009, 11(Abstract)*, EGU2009-11788.

Weng, Q. (2007), Estimating and Mapping Urban Impervious Surfaces: Reflection on Spectral, Spatial, and Temporal Resolutions, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007, 88(52,; Suppl. Volume 1-2)*.

Weng, Q., and X. Hu (2008), Medium spatial resolution satellite imagery for estimating and mapping urban impervious surfaces using LSMA and ANN, *IEEE Transactions on Geoscience and Remote Sensing, 46(8)*, 2397-2406.

Weng, Q., X. Hu, and H. Liu (2009), Estimating impervious surfaces using linear spectral mixture analysis with multitemporal ASTER images, *International Journal of Remote Sensing, 30(18)*, 4807-4830.

Weng, Q., H. Liu, B. Liang, and D. Lu (2008), The spatial variations of urban land surface temperatures: pertinent factors, zoning effect, and seasonal variability, *IEEE Journal of Selected Topics In Applied Earth Observations And Remote Sensing, 1(2)*, 154-166.

Wenting, C., and Y. Jing The urban residential construction heating-loss monitoring research based on ASTER, paper presented at 2009 Joint Urban Remote Sensing Event, May 20, 2009 - May 22, IEEE Computer Society, Shanghai, China, 2009.

Wentz, E., D. Nelson, A. Rahman, W. Stefanov, and S. S. Roy (2008), Expert system classification of urban land use/cover for Delhi, India, *International Journal of Remote Sensing, 29(15)*, 4405-4427.

Wernicke, B. P. (2002), The geological component of EarthScope's plate boundary observatory; Geological Society of America, 2002 annual meeting, *Geological Society of America, 2002 annual meeting, Denver, CO, United States, Oct. 27-30, 2002, 34(6)*, 246.

Wessels, R. (2004), Automation of the ASTER Emergency Data Acquisition Protocol for Scientific Analyses, Disaster Monitoring and Preparedness, edited, Geological Survey; Sioux Falls, SD.

Wessels, R., C. A. Neal, C. Waythomas, C. Huggel, and K. Dean (2007), Satellite measurement of glaciers on volcanoes in Alaska; building an inventory of ice extent and hazards, *Geological Society of America, Cordilleran Section, 103rd annual meeting, Bellingham, WA, United States, May 4-6, 2007, 39(4)*, 20.

Wessels, R., M. Ramsey, J. Dehn, and S. Senyukov (2005), Mapping Elevated Temperatures on a Thirty-Year-Old Basalt Flow of New Tolbachik Volcano Using

Satellite and Ground-based Thermal Infrared, *AGU Fall Meeting Abstracts*, 86(52, Suppl.), Abstract V31A-0605.

Wessels, R., M. Ramsey, D. Schneider, and J. Dehn (2003), Low-level Volcano Thermal Anomaly Survey of Northern Pacific Volcanoes Using Night Time ASTER TIR, *AGU Fall Meeting Abstracts*, 51(Abstract), 0350.

Wessels, R., S. Senyukov, A. Tranbenkova, M. S. Ramsey, and D. J. Schneider (2004), Detecting small geothermal features at Northern Pacific volcanoes with ASTER thermal infrared data, *AGU Fall Meeting Abstracts*, 85(47, Suppl), Abstract V33C-1479.

Wessels, R. L., J. S. Kargel, and H. H. Kieffer (2001), Global Land Ice Measurements from Space: Documenting the Demise of Earth's Glaciers Using ASTER, *AGU Spring Meeting Abstracts*(Abstract).

Wessels, R. L., J. S. Kargel, and H. H. Kieffer (2001), Remotely Measuring Glacial Features using ASTER and Landsat ETM+, *AGU Fall Meeting Abstracts*, 41(Abstract), 11.

Wessels, R. L., S. Kargel, and H. H. Kieffer (2002), ASTER measurement of supraglacial lakes in the Mount Everest region of the Himalaya, *Fourth International Symposium on Remote Sensing in Glaciology*, 3-8 June 2001, 34(Journal Article), 399-408.

Wessels, R. L., and M. S. Ramsey (2000), Multi-sensor/multi-wavelength data fusion over steep volcanic terrain; analysis challenges in the next era of remote sensing; AGU 2000 fall meeting, *American Geophysical Union 2000 fall meeting*, San Francisco, CA, United States, Dec. 15-19, 2000, 81(48), 1255.

Wessels, R. L., M. S. Ramsey, D. S. Schneider, M. Coombs, J. Dehn, and V. J. Realmuto (2006), ASTER Urgent Response to the 2006 Eruption of Augustine Volcano, Alaska: Science and Decision Support Gained From Frequent High-resolution, Satellite Thermal Infrared Imaging of Volcanic Events, *AGU Fall Meeting*; San Francisco, CA; USA; 11-15 Dec. 2006, 87(52; Suppl.), V41F-04.

Wessels, R. L., D. Schneider, M. Ramsey, and M. T. Mangan (2007), ASTER Observations of 2000-2007 Thermal Features at Pavlof Volcano and Mt. Hague (Emmons Lake Volcanic Center), Alaska, *2007 AGU Fall Meeting*; San Francisco, CA; USA; 10-14 Dec. 2007, 88(52, Suppl. Volume 1-2), V41A-0399.

Whisner, S. C., and J. E. Moersch (2005), Correlating remotely-sensed nighttime thermal radiance images with field-mapped geologic units; a terrestrial case study with applications to Mars; *Lunar and planetary science*, XXXVI; papers presented to the Thirty-sixth lunar and planetary science conference, *Thirty-sixth lunar and planetary science conference*, Houston, TX, United States, March 14-18, 2005, 36(Abstract).

Whisner, S. C., J. E. Moersch, and C. J. Hardgrove (2007), Field observations of thermoclinometric effects in Dumont Dunes, California; *Lunar and planetary science*,

*Thirty-eighth lunar and planetary science and conference, Houston, TX, United States, March 11-16, 2007, 1338(Abstract), 2371.*

Wickert, L. M., P. Budkewitsch, and W. A. Morris (2008), Case study 10, Lithological mapping using ASTER, Belcher Islands, NunavutRep., 283-296 pp, Geological Survey of Canada, Calgary, AB, Canada (CAN), Canada (CAN).

Wickert, L. M., and P. Budkewitsch ASTER - A geological mapping tool for Canada's north. Case study: The Belcher Islands, Hudson Bay, Nunavut, Canada, paper presented at 2004 IEEE International Geoscience and Remote Sensing Symposium Proceedings: Science for Society: Exploring and Managing a Changing Planet. IGARSS 2004, Sep 20-24 2004, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Anchorage, AK, United States, 2004.

Wickert, L. M., W. A. Morris, and P. Budkewitsch (2005), Effective application of ASTER imagery to geological mapping and mineral resource evaluation; GAC-MAC-CSPG-CSSS Halifax 2005; Abstracts--AGC-AMC-SCGP-SCSS; Recueil des resumes, *GAC-MAC-CSPG-CSSS joint meeting, Halifax, NS, Canada, May 15-18, 2005, 30(Abstract), 207.*

Wielen, S. E., S. Oliver, A. A. Kalinowski, and J. Creasey (2005), Remotely sensed imaging of hydrothermal footprints in the Western Succession, Mount Isa Inlier, in *3D basin architecture and mineral systems in the Mt Isa Western Succession; Project I1; final report*, edited by G. M. Gibson and A. P. Hitchman, Predictive Mineral Discovery Cooperative Research Centre (pmd\*CRC), University of Melbourne, School of Earth Sciences, Melbourne, Victoria, Australia (AUS), Australia (AUS).

Wielen, S. E. C. R., I. G. Roy, and A. Schofield (2007), Question 4; What are the fluid flow drivers and pathways? Rep., Predictive Mineral Discovery Cooperative Research Centre (pmd\*CRC), University of Melbourne, School of Earth Sciences, Melbourne, Victoria, Australia (AUS).

Wientjes, I. G. M., and J. Oerlemans (2010), An explanation for the dark region in the western melt zone of the Greenland ice sheet, *Cryosphere*, 4(3), 261-268.

Wiest, K. R., J. M. Sauber, D. I. Doser, J. M. Hurtado, and A. A. Velasco (2004), The Relationships Between Earthquakes, Faults, and Recent Glacial Fluctuations in Southern Alaska, *AGU Fall Meeting Abstracts*, 53(Abstract), 0179.

Williams, D. L., and K. J. Ranson Landsat 7 and EOS AM-1 - A pre-launch status report on two significant components of NASA's Earth Science Program, paper presented at CASI, Remote Sensing Symposium, 20th, Calgary, Canada, May 10-13, 1998, Canadian Aeronautics and Space Institute, Ottawa, Canada, 1998.

Williams, M. (2006), Remote Sensing, GIS and Field Techniques for Studying Glacier Changes in the Indian Himalayas: A Multi-Scale Approach Using ASTER Data, edited, p. 14, Colorado Univ.; Boulder, CO.

Williams, W. J., M. G. Abdelsalam, M. E. McMillan, A. K. Thurmond, and D. Ren (2003), Remote Sensing and In Situ Information: Looking at the Potrillo Volcanic Field of the Southern Rio Grande Rift in a more Spatially Integrated Way, *AGU Fall Meeting Abstracts*, 51(Abstract), 0362.

Williamson, S., M. Sharp, J. Dowdeswell, and T. Benham (2008), Iceberg calving rates from northern Ellesmere Island ice caps, Canadian Arctic, 1999-2003, *Journal of Glaciology*, 54(186), 391-400.

Willis, J. B., and R. L. Bruhn (2005), Neotectonic vs. glacial geomorphology, Susitna River lowland and margins, Alaska; Geological Society of America, 2005 annual meeting, *Geological Society of America, 2005 annual meeting, Salt Lake City, UT, United States, Oct. 16-19, 2005*, 37(7), 560.

Wilson, R. A., J. Dehn, A. Prakash, and R. Wessels (2007), Lava Effusion Rates from Satellite Remote Sensing for Kliuchevskoi Volcano, Kamchatka- Russia in 2007, 2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007, 21; 88(52, Suppl. Volume 1-2), 0385.

Wilson, T., and M.-Y. Wei (2004), Greenland Glacier History from ASTER, edited.

Wilson, T. J., B. Csatho, T. S. Paulsen, C. Demosthenous, and Y. Felus (2001), Space-time evolution of Antarctic volcanoes; a remote sensing approach; Geological Society of America, 2001 annual meeting, *Geological Society of America, 2001 annual meeting, Boston, MA, United States, Nov. 1-10, 2001*, 33(6), 290.

Wind, G., S. Schmidt, P. Pilewskie, M. King, A. Bansemer, and B. Kindel (2007), Measured and modeled solar spectral irradiance and absorption for TC4 ice and water cloud scenes, 2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007, 88(52,; Suppl. Volume 1-2).

Wolfe, R. E., and H. K. Ramapriyan Scaling the PIPE: NASA EOS TERRA data systems at 10, paper presented at 2010 30th IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2010, July 25, 2010 - July 30, Institute of Electrical and Electronics Engineers Inc, Piscataway, NJ, 2010.

Wolken, G., J. England, M. Sharp, and A. Bush (2004), Changes in terrestrial snow and ice following the Little Ice Age in the Queen Elizabeth Islands, arctic Canada, *American Geophysical Union 2004 fall meeting, San Francisco, CA, United States, Dec. 13-17, 2004*, 85(47, Suppl.), Abstract GC51A-1055.

Wolken, G. J. (2006), High-resolution multispectral techniques for mapping former Little Ice Age terrestrial ice cover in the Canadian High Arctic, *Remote Sensing of Environment*, 101(1), 104-114.

Wolken, G. J., J. H. England, and A. S. Dyke (2008), Changes in late-Neoglacial perennial snow/ice extent and equilibrium-line altitudes in the Queen Elizabeth Islands, Arctic Canada, *The Holocene*, 18(4), 615-627.

Wolters, J. M., L. Godin, D. R. Watts, and N. B. W. Harris (2005), Remote sensing of gneiss domes and granite in southern Tibet; Geological Society of America, North-Central Section, 39th annual meeting, *Geological Society of America, North-Central Section, 39th annual meeting, Minneapolis, MN, United States, May 19-20, 2005*, 37(5), 93.

Won, J.-S., and J.-H. Ryu Control factors of spectral reflectance in tidal flat: A case study in the Gomso Bay, Korea, paper presented at 2002 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2002), Jun 24-28 2002, Institute of Electrical and Electronics Engineers Inc, Toronto, Ont., Canada, 2002.

Wooster, M. (2007), Remote sensing: sensors and systems, *Progress in Physical Geography*, 31(1), 95-100.

Wright, R. (1999), Infrared satellite studies of Mount Etna volcano: 1991 to 1999, 756-756 pp, Open University (United Kingdom); 0949.

Wright, R., S. A. Carn, and L. P. Flynn (2005), A satellite chronology of the May-June 2003 eruption of Anatahan Volcano; The 2003 eruption of Anatahan Volcano, Commonwealth of the Northern Mariana Islands, *Journal of Volcanology and Geothermal Research*, 146(1-3), 102-116.

Wright, R., H. Garbeil, and A. G. Davies (2010), Cooling rate of some active lavas determined using an orbital imaging spectrometer, *Journal of Geophysical Research-Solid Earth*, 115(Journal Article), B06205-B06205.

Wright, R., D. A. Rothery, S. Blake, A. J. L. Harris, and D. C. Pieri (1999), Simulating the response of the EOS terra ASTER sensor to high-temperature volcanic targets, *Geophysical Research Letters*, 26(12), 1773-1776.

Wright, R., D. A. Rothery, S. Blake, and D. C. Pieri (2000), Improved remote sensing estimates of lava flow cooling; a case study of the 1991-1993 Mount Etna eruption, *Journal of Geophysical Research*, 105(B10), 23-23,694.

Wright, S. P. (2003), Thermal infrared data analyses of Meteor Crater, Arizona; implications for Mars spaceborne data from the Thermal Emission Imaging System, University of Pittsburgh, Pittsburgh, PA, United States (USA), United States (USA).

Wright, S. P., and M. S. Ramsey End member analyses of spaceborne thermal infrared data of meteor crater, Arizona and application to future Mars data sets, paper presented at Solar System Remote Sensing; Pittsburgh, PA; Sept. 20-21, 2002, Lunar and Planetary Institute, Houston, TX, 77058-1113, United States, 2002.

Wright, S. P., and M. S. Ramsey (2003), Spaceborne thermal infrared data analysis of meteor crater, Arizona: Analog for THEMIS data of a small impact crater in Syrtis Major, *Lunar and Planetary Science XXXIV; Houston, TX; Mar. 17-21, 2003, LPI Contribution No. 1156*(Abstract).

Wright, S. P., and M. S. Ramsey (2006), Thermal infrared data analyses of Meteor Crater, Arizona: implications for Mars spaceborne data from the Thermal Emission Imaging System, *Journal of Geophysical Research-Part E-Planets*, 111(E2), 16.

Wulder, M. A., C. R. Butson, and J. C. White (2008), Cross-sensor change detection over a forested landscape: Options to enable continuity of medium spatial resolution measures, *Remote Sensing of Environment*, 112(3), 796-809.

Wulder, M. A., J. C. White, S. N. Goward, J. G. Masek, J. R. Irons, M. Herold, W. B. Cohen, T. R. Loveland, and C. E. Woodcock (2008), Landsat continuity: Issues and opportunities for land cover monitoring, *Remote Sensing of Environment*, 112(3), 955-969.

Wynn, J. C., J. L. Mars, F. Gray, A. P. Schultz, F. A. Maldonado, F. A. Villasenor, and L. M. Brady-Norman ASTER imagery and aeromagnetic data; powerful tools to aid reconnaissance geologic mapping of the Sierra San Jose Mountain Range, northern Sonora State, Mexico; Symposium on The application of geophysics to engineering and environmental problems, paper presented at Symposium on The application of geophysics to engineering and environmental problems, San Antonio, TX, United States, April 6-10, 2003, Environmental and Engineering Geophysical Society, Wheat Ridge, CO, United States (USA), United States (USA), 2003.

Xavier, J. P. New remote sensing data and techniques in North African frontier zones; Abstracts; AAPG Hedberg conference; Paleozoic and Triassic petroleum systems in North Africa, paper presented at AAPG Hedberg conference; Paleozoic and Triassic petroleum systems in North Africa, American Association of Petroleum Geologists, Tulsa, OK, United States (USA), United States (USA), 2003.

Xian, G., M. Crane, and C. McMahon (2008), Quantifying multi-temporal urban development characteristics in Las Vegas from Landsat and ASTER data, *Photogrammetric Engineering and Remote Sensing*, 74(4), 473-481.

Xiang, T., X. Wang, X. Zhou, and Z. Gao (2006), Land Use, *Remote sensing Technology and Application*, 21(6), 527-531.

Xiao, D., K. Xiong, A. Lan, and Y. An (2006), Correlation Analysis between Karst Rocky Desertification and Lithology in Suiyang County, Guizhou Province, *Earth and Environment*, 34(2), 77-81.

Xing, D.-x., and Q.-r. Chang (2009), Research on Identification of Species of Fruit Trees by Spectral Analysis, *Spectroscopy and Spectral Analysis/Guang Pu Xue Yu Guang Pu Fen Xi*, 29(7), 1937-1940.

Xing, D.-X., and Q.-R. Chang (2009), Identification of species of fruit trees based on the spectral reflectance of canopies of fruit trees during flowering period, *Hongwai Yu Haomibo Xuebao/Journal of Infrared and Millimeter Waves*, 28(3), 207-211.

Xing, Y., Q. Jiang, Y. Li, H. Cui, and N. Lin (2010), Extracting phaeozem information in Songliao Plain based on remote sensing and GIS, *Nongye Gongcheng Xuebao Transactions of the Chinese Society of Agricultural Engineering*, 26(10), 212-217.

Xing, Y., L. Wang, and E. Westinga (2004), Assessment of degraded matorral land using remote sensing imagery in Guadalteba Area, Spain, *Journal of Forestry Research*, 15(2), 145-149.

Xiong, X., J. Butler, W. L. Barnes, and B. Guenther Sensor On-orbit Calibration and Characterization Using Spacecraft Maneuvers, paper presented at International Geoscience and Remote Sensing Symposium (IGARSS) meeting, 2007.

Xu, B., P. Gong, G. Biging, S. Liang, E. Seto, and R. Spear (2004), Snail density prediction for schistosomiasis control using Ikonos and ASTER images, *Photogrammetric Engineering and Remote Sensing*, 70(11), 1285-1294.

Xu, H. (2008), A new remote sensing index for fastly extracting impervious surface information, *Wuhan Daxue Xuebao (Xinxi Kexue Ban)*, 33(11), 1150-1153.

Xu, H. (2010), Analysis of Impervious Surface and its Impact on Urban Heat Environment using the Normalized Difference Impervious Surface Index (NDISI), *Photogrammetric Engineering and Remote Sensing*, 76(5), 557-565.

Xu, J. C., X. H. Ai, and X. Q. Deng (2005), Exploring the spatial and temporal dynamics of land use in Xizhuang watershed of Yunnan, southwest China, *International Journal of Applied Earth Observation and Geoinformation*, 7(4), 299-309.

Xu, K., C. Kong, Y. Shuai, C. Cao, and S. Yan Extracting lithologic information from ASTER multispectral thermal infrared data in the eastern Kunlun, paper presented at MIPPR 2007: Remote Sensing and GIS Data Processing and Applications; and Innovative Multispectral Technology and Applications, SPIE, Bellingham WA, WA 98227-0010, United States, Wuhan, China, 2007.

Xu, L., R. Niu, Y. Zhao, J. Li, and T. Wu Snow cover mapping over the tibetan plateau with MODIS and ASTER data, paper presented at 2nd International Conference on Earth Observation for Global Changes, May 25, 2009 - May 29, SPIE, 2009.

Xu, L., J. Shi, H. Zhang, and S. Wu Fractional snow cover estimation in Tibetan Plateau using MODIS and ASTER, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Xu, S., and Z. Qing (2006), Extraction of Vegetation Information Based on the ASTER Remote Sensing Imageâ€¢taking the Oinghai Lake area as the example, *Remote Sensing Information*(2), 59-62.

Xu, W., M. J. Wooster, and C. S. B. Grimmond (2008), Modelling of urban sensible heat flux at multiple spatial scales: A demonstration using airborne hyperspectral imagery of Shanghai and a temperature-emissivity separation approach, *Remote Sensing of Environment*, 112(9), 3493-3510.

Xu, Y., Q. Lin, Y. Shao, and L. Wang Extraction mechanism of alteration zones using ASTER imagery, paper presented at 2004 IEEE International Geoscience and Remote Sensing Symposium Proceedings: Science for Society: Exploring and Managing a Changing Planet. IGARSS 2004, Sep 20-24 2004, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Anchorage, AK, United States, 2004.

Yajima, T., and H. Qingcheng Mineral resource exploration using advanced remote sensing data, paper presented at Sustainable development of geo-resources and geo-environment, Beijing, CCOP Technical Secretariat, 2005.

Yajima, T., K. Yamamoto, K. Yamamoto, and T. Hayashi (2007), Identification of Hydrothermal Alteration Zones for Exploration of Porphyry Copper Deposits Using ASTER Data, *Journal of The Remote Sensing Society of Japan*, 27(2), 117-128.

Yamada, T., Y. Haraikawa, H. Kazumichi, T. Tsutsumi, and T. Hoshi Application of ASTER data for environment monitoring of the river having stoppage operation, Japan, 2005.

Yamaguchi, H., and R. Nagura (2005), Investigation on the Extraction Accuracy of 3-Dimensional Image Information using the Multi-directional Imaging, *IEIC Technical Report (Institute of Electronics, Information and Communication Engineers, 105, NO.314(EID2005 14-22)(Journal Article)*, PAGE.21-24.

Yamaguchi, H., and N. Riichi Investigation on the Improvement of Extraction Accuracy and S/N dependency of 3-Dimensional Image Information using the Multi-directional Image Data, Japan, 2005.

Yamaguchi, H., F. Takahashi, and N. Riichi (2006), Investigation on the Extraction Accuracy of 3-Dimensional Image Information using the Multi-directional Imaging including random Noise, *Research Reports of Kanagawa Institute of Technology. Part B.Science and Technology, NO.30(Journal Article)*, PAGE.43-46.

Yamaguchi, H., S. Terachi, F. Takahashi, and N. Riichi (2005), Investigation on the Extraction Accuracy of 3-Dimensional Image Information using the Multi-directional Imaging including random Noise, *IEIC Technical Report (Institute of Electronics,*

*Information and Communication Engineers, 104, NO.573(PRMU2004 163-178)(Journal Article), PAGE.63-65.*

Yamaguchi, S., Y. Nakayama, and G. Mu Comparison between satellite DEM data with field measurement for relative height of terraces around a closed lake, Japan, 2004.

Yamaguchi, S., Y. Nakayama, and G. Mu Experimental analysis of paleoenvironmental change in lakes of arid region by ASTER DEM data, Japan, 2004.

Yamaguchi, Y. In-flight cross-calibration of ASTER/TIR and MODIS-N, paper presented at NASA. Goddard Space Flight Center, The Fifth Calibration/Data Product Validation Panel Meeting, 1992.

Yamaguchi, Y. (1994), Remote sensing of the Earth and planets, *Chishitsu News, 1994(1)(473)*, 43-49.

Yamaguchi, Y. (1995), Application of ASTER Data to Geological Studies, *Journal of Remote Sensing Society of Japan, 15, NO.2*(Journal Article), PAGE.142-147.

Yamaguchi, Y. (1996), Earth Observation by ASTER, *Journal of the Japan Society of Photogrammetry and Remote Sensing, 35, NO. 1*(Journal Article), PAGE.52-57.

Yamaguchi, Y. (2001), Aster Performance and Image Evaluation, *Bulletin of Academic Frontier Research in Hiroshima Institute of Technology.Research on Generation of Advanced Earth Environmental Information*(Journal Article), PAGE.437-445.

Yamaguchi, Y., M. J. Abrams, M. Kato, H. Watanabe, and H. Tsu ASTER science outcome and operation status, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Yamaguchi, Y., H. Fujisada, A. B. Kahle, H. Tsu, M. Kato, H. Watanabe, I. Sato, and M. Kudoh ASTER instrument performance, operation status, and application to Earth sciences, paper presented at 2001 International Geoscience and Remote Sensing Symposium (IGARRS 2001), Jul 9-13 2001, Institute of Electrical and Electronics Engineers Inc, Sydney, NSW, 2001.

Yamaguchi, Y., H. Fujisada, M. Kudoh, T. Kawakami, H. Tsu, A. B. Kahle, and M. Pniel (1999), ASTER instrument characterization and operation scenario, *Advances in Space Research, 23(8)*, 1415-1424.

Yamaguchi, Y., H. Fujisada, H. Tsu, I. Sato, H. Watanabe, M. Kato, M. Kudoh, A. B. Kahle, and M. Pniel (2001), ASTER early image evaluation, *Calibration and characterization of satellite sensors and accuracy of derived physical parameters, 28(1)*, 69-76.

Yamaguchi, Y., H. Hase, and K. Ogawa (1992), Remote-Sensing for Geothermal Applications, *Episodes*, 15(1), 62-67.

Yamaguchi, Y., A. B. Kahle, H. Tsu, H. Fujisada, I. Sato, M. Kudoh, H. Watanabe, M. Kato, and M. Pniel (2001), ASTER Instrument and Data Product Overview, *AGU Spring Meeting Abstracts*(Abstract).

Yamaguchi, Y., A. B. Kahle, H. Tsu, T. Kawakami, and M. Pniel (1998), Overview of Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), *IEEE Transactions on Geoscience and Remote Sensing*, 36(4), 1062-1071.

Yamaguchi, Y., T. Kawakami, and W. Hiroshi Investigation of ASTER operation scenario, Japan, 1995.

Yamaguchi, Y., and Y. Maruyama (1999), History and Current Status of Geologic Remote Sensing, *Journal of Remote Sensing Society of Japan*, 19, NO.5(Journal Article), PAGE.340-350.

Yamaguchi, Y., and C. Naito Spectral indices for lithologic discrimination using the ASTER SWIR bands; Proceedings of the thirteenth international conference; Applied geologic remote sensing, paper presented at Thirteenth international conference on Applied geologic remote sensing, Vancouver, BC, Canada, March 1-3, 1999, Environmental Research Institute of Michigan, Ann Arbor, MI, United States (USA), United States (USA), 1999.

Yamaguchi, Y., and C. Naito (2003), Spectral indices for lithologic discrimination and mapping by using the ASTER SWIR bands, *International Journal of Remote Sensing*, 24(22), 4311-4323.

Yamaguchi, Y., L. C. Rowan, H. Tsu, A. B. Kahle, and A. A. M. I. U. S. Environmental Research Institute of Michigan Application of ASTER data to geological studies; Proceedings of the Eleventh thematic conference on geologic remote sensing; practical solutions for real world problems, paper presented at Eleventh thematic conference on Applied geologic remote sensing, Las Vegas, NV, United States, Feb. 27-29, 1996, Environmental Research Institute of Michigan, Ann Arbor, MI, United States (USA), United States (USA), 1996.

Yamaguchi, Y., I. Sato, and H. Tsu ITIR design concept and science missions, paper presented at In: The use of EOS for studies of atmospheric physics; Proceedings of the International School of Physics (Enrico Fermi), Course 115, Varenna, Italy, Jun. 26 - Jul. 6, 1990 . A95-89225, North-Holland, Netherlands, 1992.

Yamaguchi, Y., H. Tsu, and H. Fujisada Scientific basis of ASTER instrument design (Advanced Spaceborne Thermal Emission and Reflection Radiometer), paper presented at Sensor systems for the early earth observing system platforms; Proceedings of the Conference, Orlando, FL; UNITED STATES; 13-14 Apr. 1993,

Bellingham, WA: Society for Photo-Optical Instrumentation Engineers (SPIE Proceedings. Vol. 1939), 1993.

Yamaguchi, Y., H. Tsu, H. Fujisada, A. Kahle, and D. Nichols ASTER instrument design and science objectives (Advanced Spaceborne Thermal Emission and Reflection Radiometer), paper presented at AIAA, Aerospace Sciences Meeting and Exhibit, 32nd, Reno, NV; UNITED STATES; 10-13 Jan. 1994, 1994.

Yamaguchi, Y., H. Tsu, H. Fujisada, and A. Ono (1992), Mission and design concept of advanced spaceborne thermal emission and reflection radiometer (ASTER); 29th international geological congress; abstracts, *29th international geological congress, Kyoto, Japan, Aug. 24-Sept. 3, 1992*, 29(Abstract), 983.

Yamaguchi, Y., H. Tsu, T. Kawakami, H. Watanabe, A. B. Kahle, D. A. Nichols, and A. D. Morrison ASTER data acquisition scenario, paper presented at Advanced and Next-Generation Satellites, Sep 25-28 95, Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA, Paris, Fr, 1995.

Yamaguchi, Y., H. Tsu, and I. Sato Japanese mission overview of JERS and ASTER programs, paper presented at Future European and Japanese Remote-Sensing Sensors and Programs, Apr 1-2 1991, Publ by Int Soc for Optical Engineering, Bellingham, WA, USA, Orlando, FL, USA, 1991.

Yamamoto, H., A. Kamei, M. Moriyama, and S. Tsuchida An assessment of ASTER surface reflectance products generated by GEO Grid, paper presented at Remote Sensing and Modeling of Ecosystems for Sustainability VII, SPIE, 2010.

Yamamoto, H., S. Tsuchida, and H. Yoshioka A study on ASTER/MODIS radiometric and atmospheric correction, paper presented at 2008 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2008, IEEE, Piscataway, NJ, USA, 2008.

Yamamoto, K., and T. Yajima Detection of minerals containing NH<sub>4</sub><sup>+</sup> using ASTER and Hyperion data, Japan, 2004.

Yamamoto, M., T. Yoshida, S. Yuji, and T. Matsunaga Validation of water temperature estimated from ASTER /TIR data of day and night at the lake and the bay in Japan, Japan, 2003.

Yamamoto, M., T. Yoshida, S. Yuji, and T. Matsunaga Estimation of water temperature and turbidity in Lake Shinji and Lake Nakaumi using ASTER data 2000-2002, Japan, 2002.

Yamamoto, N., R. Nakamura, H. Yamamoto, S. Tsuchida, I. Kojima, Y. Tanaka, and S. Sekiguchi GEO grid: Grid infrastructure for integration of huge satellite imagery and geoscience data sets, paper presented at 6th IEEE International Conference on Computer and Information Technology, CIT 2006, Institute of Electrical and Electronics

Engineers Computer Society, Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2006.

Yamamoto, T., K. Isobe, and T. Sugimura Interpretation of change pattern at Siberia alas by CORONA and ASTER imageries, Japan, 2004.

Yamano, H. (2007), The use of multi-temporal satellite images to estimate intertidal reef-flat topography, *Journal of Spatial Science*, 52(1), 73-79.

Yamano, H., H. Shimazaki, T. Matsunaga, A. Ishoda, C. McClenen, H. Yokoki, K. Fujita, Y. Osawa, and H. Kayanne (2006), Evaluation of various satellite sensors for waterline extraction in a coral reef environment: Majuro Atoll, Marshall Islands, *Geomorphology*, 82(3-4), 398-411.

Yan, B., S. Liu, R. Wang, F. Gan, W. Chen, and S. Yang (2006), Quantitative inversion of the SiO<sub>2</sub> content in surface rocks using thermal infrared remote sensing, *Geological Bulletin of China*, 25(5), 639-643.

Yan, G., J. F. Mas, B. H. P. Maathuis, Z. Xiangmin, and P. M. Van Dijk (2006), Comparison of pixel-based and object-oriented image classification approaches - A case study in a coal fire area, Wuda, Inner Mongolia, China, *International Journal of Remote Sensing*, 27(18), 4039-4055.

Yan, W. (2006), Extraction of Thermal Features Using Satellite Sensed Images and Discussion of Brightness Temperature Characteristics, *Journal of Geography*, 115(4), 448-465.

Yan, Y. E., R. Becker, M. Sultan, and E. Ballerstein (2003), Development of the Tushka Lakes in the south Western Desert of Egypt, *Geological Society of America, 2003 annual meeting, Seattle, WA, United States, Nov. 2-5, 2003*, 35(6), 315.

Yan, Z., Q. Huang, J. Chang, and Y. Wang (2008), Analysis and dynamic monitoring of land use in the main stream of Tarim river valley using remote sensing, *Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering*, 24(3), 119-123.

Yan, Z., X. Wang, Q. Huang, F. Gao, R. Wang, and R. Zhuo Effects of Emergent Water Project on vegetation coverage and its types in the lower reaches of Tarim River, paper presented at 6th International Symposium on Digital Earth: Data Processing and Applications, September 9, 2009 - September 12, SPIE, Bellingham, WA, 2010.

Yang, C.-B., Q.-G. Jiang, W.-S. Liu, and D.-M. Qiu (2009), Hydrothermal alteration mapping using ASTER data in northern Dong Ujimqin, Inner Mongolia, *Jilin Daxue Xuebao (Diqiu Kexue Ban)/Journal of Jilin University (Earth Science Edition)*, 39(6), 1163-1167.

Yang, G., Q. Liu, Q. Liu, and X. Gu (2007), Estimating subpixel surface temperature coupling retrieval land surface parameters with GA-SOFM neural network, *Beijing Daxue Xuebao (Ziran Kexue Ban)/Acta Scientiarum Naturalium Universitatis Pekinensis*, 43(4), 484-492.

Yang, G., Q. Liu, Q. Liu, and X. Gu (2007), Fusion of visible and thermal infrared remote sensing data based on GA-SOFM neural network, *Geomatics and Information Science of Wuhan University*, 32(9), 787-790.

Yang, G., R. Pu, W. Huang, J. Wang, and C. Zhao (2010), A Novel Method to Estimate Subpixel Temperature by Fusing Solar-Reflective and Thermal-Infrared Remote-Sensing Data With an Artificial Neural Network, *IEEE Transactions on Geoscience and Remote Sensing*, 48(4), 2170-2178.

Yang, H., Y. Liua, Y. Yang, and C. Zhang Estimation and analysis of land surface water and heat fluxes in mountain-plain area based on remote sensing and DEM, paper presented at G2009 17th International Conference on Geoinformatics, Geoinformatics 2009eoinformatics, 2009 17th International Conference on, IEEE, 2009.

Yang, X., and L. Chen (2010), Using multi-temporal remote sensor imagery to detect earthquake-triggered landslides, *International Journal of Applied Earth Observation and Geoinformation*, 12(6), 487-495.

Yang, Y., R. S. Chen, and X. B. Ji (2007), Variations of Glaciers in the Yeniyugou Watershed of Heihe River Basin from 1956 to 2003, *Journal of Glaciology and Geocryology*, 29(1), 100-106.

Yang-Lang, C., F. Jyh-Perng, L. Wen-Yew, L. Chang, and C. Kun-Shan Multisource image classification based on parallel minimum classification error learning, paper presented at IGARSS 2008 - 2008 IEEE International Geoscience and Remote Sensing Symposium, IEEE, Piscataway, NJ, USA, 2008.

Yang-Lang, C., F. Jyh-Perng, L. Wen-Yew, L. Chang, H. Ren, and C. Kun-Shan A parallel simulated annealing approach to band selection for hyperspectral imagery, paper presented at 2008 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2008, IEEE, Piscataway, NJ, USA, 2008.

Yao, H., D. Lewis, and R. Kincaid Using ASTER image for soybean plant residue coverage estimation, paper presented at Optics for Natural Resources, Agriculture, and Foods, Oct 3-4 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, Boston, MA, United States, 2006.

Yao, L., and Y. Yang Research on regularization super resolution reconstruction algorithm based on ASTER image, paper presented at MIPPR 2009 - Remote Sensing and GIS Data Processing and Other Applications: 6th International Symposium on Multispectral Image Processing and Pattern Recognition, October 30, 2009 - November 1, SPIE, Bellingham WA, 2009.

Yao, Y.-j., N. Peng, Z.-l. Zhang, and B.-s. Li (2007), Application of split window algorithm in land surface temperature retrieval from thermal infrared remote sensing data, *Journal of Lanzhou University of Technology*, 33(6), 89-92.

Yarbrough, L. D., G. Easson, and J. S. Kuszmaul Using at-sensor radiance and reflectance Tasseled Cap transforms applied to change detection for the ASTER sensor, paper presented at 3rd International Workshop on the Analysis of Multi-Temporal Remote Sensing Images 2005, May 16-18 2005, Institute of Electrical and Electronics Engineers Computer Society, Piscataway, NJ 08855-1331, United States, Biloxi, MS, United States, 2005.

Yasui, K., K. Koike, and J. Ito (2009), Improving identification accuracy of surface materials by joint use of optical sensor and polarimetric SAR, *2009 annual meeting of Japan Society of Geoinformatics, Naha, Japan, June 25-26, 2009*, 20(2), 90-91.

Yasuoka, Y. (1995), Application of ASTER to Terrestrial Ecosystem Monitoring, *Journal of Remote Sensing Society of Japan*, 15, NO.2(Journal Article), PAGE.170-174.

Ye, F.-W., and D.-C. Liu Extraction of reduced alteration information based on Aster data: A case study of the Bashibulake uranium ore district, paper presented at International Conference on Earth Observation Data Processing and Analysis, ICEODPA, SPIE, Bellingham WA, WA 98227-0010, United States, 2008.

Ye, Q., F. Chen, A. Stein, and Z. Zhong (2009), Use of a multi-temporal grid method to analyze changes in glacier coverage in the Tibetan Plateau, *Progress in Natural Science*, 19(7), 861-872.

Ye, Q., T. Yao, S. Kang, F. Chen, and J. Wang (2006), Glacier variations in the Naimona'nyi region, western Himalaya, in the last three decades; Papers from the international symposium on High-elevation glaciers and climate records, 2005 international symposium on High-elevation glaciers and climate records, *Lanzhou, China, Sept. 5-9, 2005*, 43(Journal Article), 385-389.

Ye, Q., T. Yao, S. Kang, F. Chen, and J. Wang (2006), Glacier variations in the Mt. NaimonaNyi Region, Western Himalayas, during 1976-2003 using remote sensing and GIS technologies, *2006 Western Pacific Geophysics Meeting, Beijing (China)*, 24-27 Jul 2006(Abstract).

Ye, Q., Z. Zhong, S. Kang, A. Stein, Q. Wei, and J. Liu (2009), Monitoring Glacier and Supra-glacier Lakes from Space in Mt. Qomolangma Region of the Himalayas on the Tibetan Plateau in China, *Journal of Mountain Science*, 6(3), 211-220.

Ye, Q. H., S. C. Kang, F. Chen, and J. H. Wang (2006), Monitoring glacier variations on Geladandong mountain, central Tibetan Plateau, from 1969 to 2002 using remote-sensing and GIS technologies, *Journal of Glaciology*, 52(179), 537-545.

Ye, Q. H., T. D. Yao, F. Chen, S. C. Kang, X. Q. Zhang, and Y. Wang (2008), Response of glacier and lake covariations to climate change in Mapam Yumco basin on Tibetan plateau during 1974-2003, *Journal of China University of Geosciences*, 19(2), 135-145.

Yilmaz, M. T., E. R. Hunt Jr, and T. J. Jackson (2008), Remote sensing of vegetation water content from equivalent water thickness using satellite imagery, *Remote Sensing of Environment*, 112(5), 2514-2522.

Yin, G., J. Shen, J. Jiang, and G. Mu (2002), Tectonic background of the Ms 8.1 earthquake on 14 Nov, 2001 at east kunlun fault, *Arid Land Geography*, 25(1), 24-29.

Yin, S., and A. Yin (2006), Active tectonic setting of the great 1976 Tangshan earthquake (M=7.8), north China, *Geological Society of America, 2006 annual meeting, Philadelphia, PA, United States, Oct. 22-25, 2006*, 38(7), 413.

Yoneda, E., M. Satoshi, T. Nagayama, T. Okatani, Y. Numata, and Y. Yoshitaka Land cover mapping using the sequential MODIS composite data, Japan, 2006.

Yong, A. (2007), Geophysical site characterization using geomorphology, geology and integrated digital imaging methods on satellite data, California State University at Northridge, Northridge, CA, United States (USA), United States (USA).

Yong, A., S. E. Hough, M. J. Abrams, and C. J. Wills (2008), Preliminary results for a semi-automated quantification of site effects using geomorphometry and ASTER satellite data for Mozambique, Pakistan and Turkey, *Journal of Earth System Science*, 117(Journal Article), 797-808.

Yong, A., S. Hough, H. Cox, K. Tiampo, A. Braverman, J. Harvey, S. J. Hook, K. Hudnut, and G. Simila (2006), Balloons to satellites; a century of progress in geotechnical site characterization, *2006 Annual meeting, Seismological Society of America; 100th anniversary earthquake conference, San Francisco, CA, United States, April 18-22, 2006*, 77(2), 302.

Yong, A., S. E. Hough, M. J. Abrams, H. M. Cox, C. J. Wills, and G. W. Simila (2008), Site Characterization Using Integrated Imaging Analysis Methods on Satellite Data of the Islamabad, Pakistan, Region, *Bulletin of the Seismological Society of America*, 98(6), 2679-2693.

Yong, A., S. E. Hough, K. Hudnut, J. Giberson, S. Healy, G. Simila, J. G. Anderson, and D. von Seggern (2005), Geotechnical site characterization using remote sensing data; a feasibility study; SSA 2005; abstracts of the annual meeting, *Seismological Society of America 2005 annual meeting, Incline Village, NV, United States, April 27-29, 2005*, 76(2), 241.

Yong, A., S. E. Hough, C. Wills, and M. Abrams (2006), Site Characterization Using Satellite Imagery, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006*, 87(52; Suppl.).

Yoshida, T., M. Yamamoto, S. Yuji, and T. Matsunaga Estimation of sea surface temperature and turbidity using multi-date ASTER data in Hiroshima Bay, Japan, 2002.

Yoshikawa, K., L. Zhao, B. Ye, Y. Lai, W. Ma, and S. Zhao Historical variability of the icing (aufeis) in the Brooks Range, Alaska and Kunlun Mountain, China; Asian conference on Permafrost, paper presented at Asian conference on Permafrost, Lanzhou, Publisher unknown, China (CHN), China (CHN), 2006.

Yoshiki, N., and B. h. Fu (2003), Extracting lithologic information from aster multispectral thermal infrared data in the northeastern pamirs, *Xinjiang Geology*, 21(1), 22-30.

Yoshino, A., Y. Kikuchi, M. Takagi, K. Kajiwara, and Y. Honda (2004), Comparison between Soil Property and Aster Data in Mongolian Grassland, *Journal of the Japan Society of Photogrammetry and Remote Sensing = Shashin Sokuryo to Rimoto Senshingu*, 43(1), 50-59.

Yoshizawa, H., S. Machida, H. Fukusawa, S.-y. Sueoka, T. Asaki, and S. Yamasawa (2003), Extraction of promising mineral area and acquisition of mining property using satellite image analysis technique in northern Chile; Papers presented at the annual meeting for Prospecting of ore deposits; held under the auspices of Japan Mining Industry Association, *Japan Mining Industry Association, annual meeting for Prospecting of ore deposits, Tokyo, Japan, June 18-20, 2003*, 53(1), 39-50.

Yoshizawa, H., M. Shoichi, M. Urai, M. Miyoshi, H. Takahara, F. Hideaki, and T. Sonobe Estimation of temperature and size of high-temperature materials using ASTER data, Japan, 2003.

Yoshizawa, H., M. Shoichi, M. Urai, H. Takahara, M. Miyoshi, I. Yoshihiko, and T. Sonobe Estimation of SO<sub>2</sub> abundance in the eruption plume of Miyake-jima volcano using ASTER data, Japan, 2003.

Yu, H., and P. Li (2010), Lithologic mapping using LANDSAT ETM plus and ASTER data, *Acta Petrologica Sinica*, 26(1), 345-351.

Yu, R., B. Cai, and Q. Wen Comparison of Aster and SPOT4 modified soil adjusted vegetation index data over northwestern China, paper presented at International Conference on Image Processing and Pattern Recognition in Industrial Engineering, SPIE, 2010.

Yu, R., X. Deng, and K. Qing An efficient point matching algorithm of remote sensing image based on dynamic template, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute

of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Yu, R., X. Deng, C. Wang, Z. Zhang, and Q. Kang (2005), Classification of remote sensing images of fanning areas using resolution fusion algorithm based on optimized point matching, *Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering*, 21(11), 95-98.

Yu, R., Q. Kang, and Z.-X. Zhang (2006), Assessment of Vegetation Coverage Factor in Soil Erosion Model Based on ASTER Image Interpretation, *Hebei Shifan Daxue Xuebao (Ziran Kexue Ban)/Journal of Hebei Normal University (Natural Science Edition)*, 30(Journal Article), 113-117.

Yu, X., J. Qigang, Q. Zhuping, and L. Wenqing Study of relative radiometric normalization based on multitemporal ASTER images, paper presented at 2010 International Conference on Advanced Measurement and Test, AMT 2010, May 15, 2010 - May 16, Trans Tech Publications, Sanya, China, 2010.

Yuksel, A., A. E. Akay, and R. Gundogan (2008), Using ASTER imagery in land use, *Sensors*, 8(2), 1237-1251.

Yuksel, A., R. Gundogan, and A. E. Akay (2008), Using the remote sensing and GIS technology for erosion risk mapping of Kartalkaya Dam Watershed in Kahramanmaras, Turkey, *Sensors*, 8(8), 4851-4865.

Yun, Y., and W. Yang (2006), Application of ASTER Data on Extracting Elevations from ASTER Stereo-pairs and Recognizing Species of Trees, *Remote sensing Technology and Application*, 21(4), 307-311.

Zarah, S., V. Nicolas, U. Minoru, S. Thomas, and G. Astrid Preliminary results of lava flow mapping using remote sensing in Piton de la Fournaise, La Reunion island, paper presented at 2008 Second Workshop on Use of Remote Sensing Techniques for Monitoring Volcanoes and Seismogenic Areas (USEReST), IEEE, Piscataway, NJ, USA, 2008.

Zarco-Tejada, P. J., and S. L. Ustin Modeling canopy water content for carbon estimates from MODIS data at land EOS validation sites, paper presented at 2001 International Geoscience and Remote Sensing Symposium (IGARSS 2001), Jul 9-13 2001, Institute of Electrical and Electronics Engineers Inc, Sydney, NSW, 2001.

Zelazny, M. M., B. Csatho, R. D. Jacobi, and J. P. Martin (2010), Lineament identification in New York State using remote sensing techniques for geological CO<sub>2</sub> sequestration, *Geological Society of America, Northeastern Section, 45th annual meeting Geological Society of America, Southeastern Section, 59th annual meeting, Baltimore, MD, USA, United States, March 14-16, 2010*, 42(1), 121.

Zell, E., S. Weber, and J. Zewatsky (2007), Application of MODIS Normalized Differential Vegetation Index for Local Land Use Indicators of Impervious Surface Areas, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 88(52,; Suppl. Volume 1-2).

Zeng, Z. Y. (2007), A new method of data transformation for satellite images: II. Transformation equations for SPOT, NOAA, IKONOS, Quick Bird, ASTER, MSS and other images and application, *International Journal of Remote Sensing*, 28(18), 4125-4155.

Zhang, B., F. W. Schwartz, C. K. Shum, and Y. Yi (2005), Detecting changes in the surface-water hydrology of lakes and wetlands by the analysis of waveform data from TOPEX/POSEIDON, *Geological Society of America, 2005 annual meeting, Salt Lake City, UT, United States, Oct. 16-19, 2005*, 37(7), 293.

Zhang, D., Z. Lan, and R. Qiu (2006), Study on Selection of Best Landscape Scale Pattern Based on Remote Sensing and GIS, *Remote Sensing Information*(4), 30-32.

Zhang, D., Z. Lan, Q. Wang, X. Wang, W. Zhang, and Z. Li The evaluation of the mangrove ecosystem services value hange in Zhangjiang river estuary based on remote sensing, paper presented at 2007 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2007, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Barcelona, Spain, 2008.

Zhang, D., Z. Lan, Q. Wang, X. Wang, W. Zhang, and Z. Li Study on the mangrove ecosystem services value change in Zhangjiang River Estuary based on remote sensing and grey relational analysis, paper presented at MIPPR 2007: Remote Sensing and GIS Data Processing and Applications; and Innovative Multispectral Technology and Applications, SPIE - The International Society for Optical Engineering, Wuhan, China, 2007.

Zhang, G., J. Liu, and W. Fei Detection of anomaly temperature based on ASTER and ETM+ thermal infrared image, paper presented at 2008 International Conference on Computer Science and Software Engineering (CSSE 2008), IEEE Computer Society, Piscataway, NJ, USA, 2008.

Zhang, H., J. Zhao, and S. Jiancheng Support vector machines in moderate sub-pixel snow mapping, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Zhang, J., S. Wei, J. Chen, and Z. Chen (2006), Fractal Dimension Analysis of Structural Characteristics of Built-up Land in Fujian and Taiwan Provinces Based on ASTER Data, *Geo-information Science*, 8(3), 119-124.

Zhang, J., Z. Yan, X. Wang, Q. Huang, and F. Gao (2009), Remote sensing analysis of spatial-temporal changes of desertification land in Lower Reaches of Tarim River, *Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering*, 25(10), 161-165.

Zhang, J. Q., Y. P. Wang, and Y. Li (2006), A C++ program for retrieving land surface temperature from the data of Landsat TM/ETM+ band6, *Computers & Geosciences*, 32(10), 1796-1805.

Zhang, Q., J. Fan, Y. Lu, Z. Zhang, and F. You (2003), Data assessment for agricultural monitoring applications, *Transactions of the Chinese Society of Agricultural Engineering*, 19(3), 149-152.

Zhang, Q.-F., D.-H. Shangguan, S.-Y. Liu, and Y.-J. Ding (2005), Application of ASTER data in parameterizing water system in cold region - Case study for Muzaerte valley, *Zhongguo Kuangye Daxue Xuebao/Journal of China University of Mining and Technology*, 34(5), 655-659.

Zhang, R., and J. Ma (2008), An improved SVM method P-SVM for classification of remotely sensed data, *International Journal of Remote Sensing*, 29(20), 6029-6036.

Zhang, T.-J., and H.-Q. Xu (2010), Cross comparison of modified normalized difference water index (MNDWI) between aster and ETM+ sensor imagery, *Yuhang Xuebao Journal of Astronautics*, 31(4), 1244-1252.

Zhang, T.-T., J. Wen, R. Van Der Velde, R. Liu, and Y.-Y. Liu (2009), Land surface temperature retrieval using ENVISAT/AATSR data over east Gansu of Loess Plateau, *Chinese Journal of Geophysics/Diqiu Wuli Xuebao*, 52(4), 911-918.

Zhang, X. (2005), Gold-related lithologic and mineral mapping from Hyperion and ASTER data in the south Chocolate Mountains, California, 168-673 pp, The University of Western Ontario (Canada); 0784.

Zhang, X., and M. Pazner (2007), Comparison of lithologic mapping with ASTER, Hyperion, and ETM data in the southeastern Chocolate Mountains, USA, *Photogrammetric Engineering and Remote Sensing*, 73(5), 555-561.

Zhang, X., M. Pazner, and N. Duke (2007), Lithologic and mineral information extraction for gold exploration using ASTER data in the south Chocolate Mountains (California), *ISPRS Journal of Photogrammetry and Remote Sensing*, 62(4), 271-282.

Zhang, X., and S. Zhang An improved method for mapping debris-covered glaciers with satellite multispectral image data and digital elevation model, paper presented at Geoscience and Remote Sensing Symposium,2009 IEEE International,IGARSS 2009, IEEE, 2009.

Zhang, X.-L., S.-W. Zhang, Y. Li, Y.-Z. Zhang, H.-J. Liu, and S.-P. Yue Evaluation of regional urbanization level from remote sensing data: A case study in Liaoning province, Northeast China, paper presented at 2009 Joint Urban Remote Sensing Event, May 20, 2009 - May 22, IEEE Computer Society, Shanghai, China, 2009.

Zhang, Y., K. Fujita, S. Liu, Q. Liu, and X. Wang (2010), Multi-decadal ice-velocity and elevation changes of a monsoonal maritime glacier: Hailuogou glacier, China, *Journal of Glaciology*, 56(195), 65-74.

Zhang, Y., and J. Yang A new exploration parameter for metallic deposits; the alteration remote sensing anomaly, paper presented at Mineral deposit research; meeting the global challenge; proceedings 8th biennial SGA meeting, Beijing, China, Aug. 18-21, 2005, Federal Republic of Germany (DEU), 2005.

Zhang, Y., J. Yang, and F. Yao (2007), The potential of multi-spectral remote sensing techniques for mineral exploration - taking the Mongolian Oyu Tolgoi Cu-Au deposit as an example, *Dixue Qianyuan / Earth Science Frontiers*, 14(5), 63-70.

Zhang, Y., and F. Yao (2009), Application study of multi-spectral ASTER data for determination of ETM remote sensing anomaly property: Taking Wulonggou region of eastern KunLun mountain range as example, *Acta Petrologica Sinica*, 25(4), 963-970.

Zhang, Y., Y. Zhang, and X. Li (2007), The synthetically estimating vegetation fractional coverage of grassland using field data and ASTER remote sensing imagine, *Acta Ecologica Sinica*, 27(3), 964-976.

Zhao, G. (2006), Cloud observations from EOS-Terra: From conception to interpretation of cloud climatologies with a focus on small clouds, 117-3849 pp, University of Illinois at Urbana-Champaign; 0090 Advisor: Adviser Larry Di Girolamo.

Zhao, G., and L. Di Girolamo Trade Wind Cumuli Statistics and the Impact of finite Resolution Measurements, 2005.

Zhao, G., and L. Di Girolamo Trade Wind Cumuli Statistics and the Impact of finite Resolution Measurements, 2005.

Zhao, G., and L. di Girolamo (2005), Trade Wind Cumuli Statistics and the Impact of Finite Resolution Measurements, *AGU Fall Meeting Abstracts*, 23(Abstract), 0922.

Zhao, G., L. Di Girolamo, S. Dey, A. L. Jones, and M. Bull (2009), Examination of direct cumulus contamination on MISR-retrieved aerosol optical depth and angstrom coefficient over ocean, *Geophysical Research Letters*, 36(13), L13811.

Zhao, G., and L. Girolamo (2007), Examination of cumulus cloud contamination on aerosol retrieval from Terra instruments over ocean, *2007 AGU Fall Meeting; San Francisco, CA; USA; 10-14 Dec. 2007*, 88(52,; Suppl. Volume 1-2).

Zhao, G., H. Xue, and F. Ling Assessment of ASTER GDEM performance by comparing with SRTM and ICESat/GLAS data in Central China, paper presented at 18th International Conference on Geoinformatics, 18-20 June, 2010, Beijing, China, 2010.

Zhao, G. Y., and L. Di Girolamo (2006), Cloud fraction errors for trade wind cumuli from EOS-Terra instruments, *Geophysical Research Letters*, 33(20), L20802-L20802.

Zhao, G. Y., and L. Di Girolamo (2007), Statistics on the macrophysical properties of trade wind cumuli over the tropical western Atlantic, *Journal of Geophysical Research-Atmospheres*, 112(D10), D10204-D10204.

Zhao, H., G. Yan, X. Deng, J. Wang, H. Yang, and X. Li (2003), A Classification Method Based on Spatial Information, *Journal of Remote Sensing*, 7(5), 358-363.

Zhao, H.-L., J.-H. Fan, and X.-F. Guo A method for InSAR baseline refinement and its application, paper presented at 2010 2nd IITA Conference on Geoscience and Remote Sensing, IITA-GRS 2010, August 28, 2010 - August 31, IEEE Computer Society, Piscataway, NJ, 2010.

Zhao, Y., Q. Tong, L. Zheng, and A. A. M. I. U. S. s. Veridan Erim International (2000), Study on mineral exploration by using MAIS hyperspectral data in Tengchong multi-metal mining district of China; Proceedings of the Fourteenth international conference on Applied geologic remote sensing, *Fourteenth international conference on Applied geologic remote sensing*, Las Vegas, NV, United States, Nov. 6-8, 2000, 14(Abstract), 621.

Zhiwei, Y., G. Huili, and Z. Wenji Subpixel urban area thermal pattern analysis using ASTER and SPOT-5, paper presented at 2009 Joint Urban Remote Sensing Event, May 20, 2009 - May 22, IEEE Computer Society, Shanghai, China, 2009.

Zhou, H.-y., Q.-z. Lin, Y.-z. Wu, and Q.-j. Wang (2007), Application of combining classifier based on AdaBoost to remote sensing classification, *Application Research of Computers*, 24(10), 181-184.

Zhou, J., Y. H. Chen, J. Li, Q. H. Weng, and Y. Tang Estimation and seasonal monitoring of urban vegetation abundance based on remote sensing, paper presented at Geoinformatics 2007: Remotely Sensed Data and Information, SPIE, Bellingham WA, WA 98227-0010, United States, Nanjing, China, 2007.

Zhou, J., D. Hu, and Q. Weng (2010), Analysis of surface radiation budget during the summer and winter in the metropolitan area of Beijing, China, *Journal of Applied Remote Sensing*, 4(Journal Article), 043513-043513.

Zhou, L., R. Dickinson, K. Ogawa, Y. Tian, M. Jin, T. Schmugge, and E. Tsvetsinskaya (2003), Relations between albedos and emissivities from MODIS and ASTER data over

North African desert, *American Geophysical Union 2003 fall meeting, San Francisco, CA, United States, Dec. 8-12, 2003, 84(46, Suppl.), Abstract H41B-06.*

Zhou, L., R. E. Dickinson, K. Ogawa, Y. Tian, M. Jin, T. Schmugge, and E. Tsvetsinskaya (2003), Relations between albedos and emissivities from MODIS and ASTER data over North African Desert, *Geophysical Research Letters*, 30(20), 1-1.

Zhou, L., R. E. Dickinson, Y. Tian, M. Jin, K. Ogawa, H. Yu, and T. Schmugge (2003), A sensitivity study of climate and energy balance simulations with use of satellite-derived emissivity data over Northern Africa and the Arabian Peninsula, *Journal of Geophysical Research-Atmospheres*, 108(D24), 4795-4795.

Zhou, L., T. Jiang, and X. Lu Research on atmosphere parameter model of heat island effect in city based on CORS, paper presented at Urban Remote Sensing Event, 2009 Joint, IEEE Computer Society, 2009.

Zhou, L., T. Jiang, and X. Lu A Practical Method of Feature Extraction for Water Surface Temperature Based on Thermal Infrared Remote Sensing Image, paper presented at 2nd International Congress on Image and Signal Processing, 2009. CISP '09., IEEE Computer Society, 2009.

Zhou, R., H. Xu, and Y. Lin (2006), Remote Sensing Study on the Surface Heat Flux and Its Relationship with the Urban Heat Islandâ€"Taking Quanzhou City, SE China as Example, *Remote Sensing Information*(6), 50-54.

Zhou, X., H. Guan, H. Xie, and J. L. Wilson (2006), Unification of NDVI Definitions and Areal Fraction Models in Remote Sensing of Vegetation, *AGU Fall Meeting; San Francisco, CA; USA; 11-15 Dec. 2006, 87(52; Suppl.).*

Zhou, X., H. Guan, H. Xie, and J. L. Wilson (2009), Analysis and optimization of NDVI definitions and areal fraction models in remote sensing of vegetation, *International Journal of Remote Sensing*, 30(3), 721-751.

Zhou, Y., Q. Zhu, J. M. Chen, Y. Q. Wang, J. Liu, R. Sun, and S. Tang (2007), Observation and simulation of net primary productivity in Qilian Mountain, western China, *Journal of environmental management*, 85(3), 574-584.

Zhu, G., and D. G. Blumberg (2002), Classification using ASTER data and SVM algorithms - The case study of Beer Sheva, Israel, *UNITED STATES*, 80(2), 233-240.

Zhu, L., Y. Zhao, and A. Ghulam The evaluation of groundwater using ASTER data, in China, paper presented at 2005 IEEE International Geoscience and Remote Sensing Symposium, IGARSS 2005, Jul 25-29 2005, Institute of Electrical and Electronics Engineers Inc., Piscataway, NJ 08855-1331, United States, Seoul, South Korea, 2005.

Zhukov, B., D. Oertel, F. Lanzl, and G. Reinhaeckel (1998), Unmixing-based multi-sensor multi-resolution image fusion, *Proceedings of the 1998 15. Nutzerseminar*

*des Deutschen Fernerkundungsdatenzentrum (DFD) des DLR, Oct 14-Oct 16 1998 or DLR, German Remote Sensing Data Center, Users' Seminar, 15th, Munich Technical Univ., Germany, Oct. 14-16, 1998, Proceedings; Cologne, Germany, Deutsches Zentrum fuer Luft- und Raumfahrt, 98(3), 81-88.*

Zhukov, B., D. Oertel, F. Lanzl, and G. Reinhaeckel (1999), Unmixing-based multisensor multiresolution image fusion, *IEEE Transactions on Geoscience and Remote Sensing*, 37(3 pt 1), 1212-1226.

Zhukov, B., D. Oertel, and M. Lehner TM/LANDSAT thermal image unmixing, paper presented at Algorithms for Multispectral and Hyperspectral Imagery III, 22-23 April 1997, SPIE-Int. Soc. Opt. Eng, Orlando, FL, USA, 1997.

Zollinger, S., I. Machguth, C. Huggel, and A. Kaaeab (2004), Gletscherseen in der Cordillera Blanca (Peru) und im Khumbu Himalaya (Nepal); Ableitung von Parametern zur Abschaetzung des Gefahrenpotentials aus ASTER-Satellitendaten. Glacial lakes in the Cordillera Blanca (Peru) and in the Khumbu Himalaya (Nepal); derivation of parameters for assessing hazard potentials using ASTER satellite data; Turbulenzen in der Geomorphologie; Jahrestagung der Schweizerischen Geomorphologischen Gesellschaft (SGmG) der SANW. Turbulence in geomorphology; annual meeting of the Swiss Society of Geomorphology of the Swiss Academy of Natural Sciences, *Jahrestagung der Schweizerischen Geomorphologischen Gesellschaft (SGmG) der SANW, Erstfeld, Switzerland, March 27-29, 2003, 184*(Journal Article), 215-222.

Zoran, L. F. V., C. Golovanov, and M. A. Zoran Multisensor image fusion for Romanian Black Sea coastal zone analysis, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology VI, Sep 13-14 2006, International Society for Optical Engineering, Bellingham WA, WA 98227-0010, United States, Stockholm, Sweden, 2006.

Zoran, L. F. V., C. Golovanov, and M. A. Zoran Environmental impact classification of urban land cover from satellite remote sensing data, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology V; Bruges; Belgium; 19-20 Sept. 2005, 2005.

Zoran, M. Integrated monitoring system for seismic risk assessment in Vrancea area; Integration of information for environmental security, paper presented at NATO advanced research workshop on Integration of information for environmental security, Istanbul, Turkey, Sept. 26-29, 2006, Netherlands (NLD), 2008.

Zoran, M. Integrated satellite, GPS and geophysical data for seismic hazard assessment in Vrancea area, Romania, paper presented at Fringe 2007 Workshop "Advances in SAR Interferometry from Envisat and ERS Missions", European Space Agency, Noordwijk, 2200 AG, Netherlands, 2008.

Zoran, M. Combining radar, optical and GPS data for Vrancea seismic area analysis, paper presented at Fringe 2005 Workshop, Nov 28-Dec 2 2005, European Space Agency, Noordwijk, 2200 AG, Netherlands, Frascati, Italy, 2006.

Zoran, M., and E. Andersona (2006), The use of multi-temporal and multispectral satellite data for change detection analysis of the Romanian Black Sea coastal zone, *Journal of Optoelectronics and Advanced Materials*, 8(1), 252-256.

Zoran, M., and S. Stefan (2007), Significance of landcover biophysical parameters derived from remote sensing data for environmental studies, *AIP Conference Proceedings*, 899(1), 753.

Zoran, M. A. Satellite and geophysical data for earthquake precursors assessment, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology IX, August 31, 2009 - September 3, SPIE, Bellingham WA, 2009.

Zoran, M. A. Integrated geospatial system for seismic hazard assessment in Vrancea area, Romania, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology VIII, SPIE - The International Society for Optical Engineering, USA, 2008.

Zoran, M. A. Analysis of "urban heat island" effect by remote sensing satellite data, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology VII, SPIE, Bellingham WA, WA 98227-0010, United States, Florence, Italy, 2007.

Zoran, M. A., D. Mateciuc, and L. F. Zoran Satellite remote sensing and GPS data for seismic hazard mapping of Vrancea area, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology V; Bruges; Belgium; 19-20 Sept. 2005, 2005.

Zoran, M. A., D. N. Nicolae, C. L. Talianu, M. Ciobanu, and J. G. Ciuciu Analyses of thermal plume of Cernavoda nuclear power plant by satellite remote sensing data, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology V; Bruges; Belgium; 19-20 Sept. 2005, 2005.

Zoran, M. A., Y. Ninomiya, and L. F. V. Zoran Synergy use of satellite images for Vrancea seismic area analysis, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology IV, Sep 14-16 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Maspalomas, Spain, 2004.

Zoran, M. A., R. S. Savastru, D. M. Savastru, S. I. Miclos, M. N. Tautan, and L. Baschir Satellite and in situ monitoring data used for modeling of forest vegetation reflectance, paper presented at Remote Sensing for Agriculture, Ecosystems, and Hydrology XII, September 20, 2010 - September 22, SPIE, Bellingham, WA, 2010.

Zoran, M. A., and L. F. V. Zoran Modeling coastal environmental changes by fuzzy logic approach, paper presented at Remote Sensing for Environmental Monitoring, GIS Applications, and Geology IV, Sep 14-16 2004, International Society for Optical Engineering, Bellingham, WA 98227-0010, United States, Maspalomas, Spain, 2004.

Zucca, F., and C. R. Perotti (2004), The relief of north-western Alps and Northern Apennines (Italy); analysis of its relations to lithology and structure; Italia 2004; 32nd international geological congress; abstracts, *Italia 2004; 32nd international geological congress, Florence, Italy, Aug. 20-28, 2004, 32, Part 2(Abstract)*, 1114-1115.