

JOURNALS

Kahle, A.B.; F.D. Palluconi; S.J. Hook; V.J. Realmuto; and G. Bothwell (1991) The Advanced Spaceborne Thermal Emission and Reflectance Radiometer (ASTER), *International Journal of Imaging Systems and Technology*, **3**: 144-156.

Mouginis-Mark, P.; S. Rowland; J. Crisp; L. Glaze; K. Jones; A. Kahle; D.C. Pieri; H. Zebker; A. Krueger; and L. Walter (1991) Analysis of active volcanoes from the Earth Observing System, *Remote Sensing of Environment*, **36**: 1-12.

Slater, P.N. (1991) Future European and Japanese remote sensing sensors and programs, *Proceedings of the Meeting*.

Fujisada, H.; and A. Ono (1992) Preliminary design concept and development targets of Japanese optical sensor for EOS-A, *Advanced Space Research*, **12(7)**: 323-326.

Kahle, A.B.; and R.E. Alley (1992) Separation of temperature and emittance in remotely sensed radiance measurements, *Remote Sensing of Environment*, **42**: 1-20.

Salisbury, J.W.; and D.M. D'Aria (1992) Emissivity of terrestrial materials in the 8-14 μm atmospheric window, *Remote Sensing of Environment*, **42**: 83-106.

Salisbury, J.W.; and D.M. D'Aria (1992) Infrared (8-14 microns) remote sensing of soil particle size, *Remote Sensing of Environment*, **42(2)**: 157-165.

Yamaguchi, Y.; H. Hase; and K. Ogawa (1992) Remote sensing for geothermal applications, *Episodes*, **15(1)**: 62-67.

Yamaguchi, Y.; I. Sato; and H. Tsu (1992) ITIR design concept and science missions, *The Use of EOS for Studies of Atmospheric Physics*: 229-310.

Arai, K.; A. Ono; and Y. Yamaguchi (1993) In-flight test site calibration of EOS-AM1/ASTER/TIR with MODIS, *Advances in Space Research*, **14**: 227-230.

Biggar, S.F.; P.N. Slater; and D.I. Gellman (1993) Uncertainties in the inflight calibration of sensors with reference to measured ground sites in the 0.4 to 1.1 μm range, *Remote Sensing of Environment*, **4**: 25.

Nemani, R.; L. Pierce; and S. Running (1993) Developing satellite-derived estimates of surface moisture status, *Journal of Applied Meteorology*, **32**: 548-557.

Nemani, R.; L. Pierce; S. Running; and L. Band (1993) Forest ecosystem processes at the watershed scale: Sensitivity to remotely-sensed leaf area index estimates, *International Journal of Remote Sensing*, **14**: 2519-2534.

O'Neill, M.A.; and I.J. Dowman (1993) A simulation study of the ASTER sensor using a versatile general purpose rigid sensor modelling system (Advanced Spaceborne Thermal Emission and Reflection Radiometer), *International Journal of Remote*

Sensing, **14(3)**: 565-582.

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**: 2025-2037.

Rokugawa, S. (1993) Influences of atmospheric correction error and its reduction method in temperature and emissivity separation (in Japanese with English abstract), *Journal of the Remote Sensing Society of Japan*, **13**: 229-239.

Sakuma, F.; and A. Ono (1993) Radiometric calibration of the EOS ASTER instrument, *Metrologia*, **30**: 231-241.

Salisbury, J.W.; D.M. D'Aria; and F.F. Sabins (1993) Thermal infrared remote sensing of crude oil slicks, *Remote Sensing of Environment*, **45**: 225-231.

Tovinkere, V.R.; M. Penaloza; 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*, **98(D3)**: 5001-5016.

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, *EOS, Transactions of American Geophysical Union*, **74(16 supplement)**: 194.

Edgett, K.S.; P.R. Christensen; and M.S. Ramsey (1994) Monitoring aeolian dune dynamics using multispectral thermal infrared observations: Preparing for the Earth Observing System's Advanced Spaceborne Thermal Emission and Reflectance Radiometer, *Desert Research Institute Occasional Paper*, **2**: 29-31.

Hobish, M.K.; P.E. Ardanuy; and V.V. Salomonson (1994) Surface imaging technologies for NASA's Earth Observing, *Journal of Imaging Science Technology*, **38(4)**: 301-310.

Ramsey, M.S.; and J.H. Fink (1994) Remote monitoring of volcanic domes: Detection of chemical, textural, and thermal heterogeneities, *EOS, Transactions of American Geophysical Union*, **75(46)**: F716.

Salisbury, J.W.; D.M. D'Aria; and A. Wald (1994) Measurements of thermal infrared spectral reflectance of frost, snow, and ice, *Journal of Geophysical Research*, **99(B12)**: 24235-24240.

Smith, C.B.; M.N. Lakhtakia; W.J. Capehart; and T.N. Carlson (1994) Initialization of soil-water content in regional-scale atmospheric prediction models, *Bulletin of the American Meteorological Society*, **75(4)**: 585-593.

Smith, M.W.; and S.F. Biggar (1994) Calibration and performance evaluation of a portable shortwave infrared (1.05 to 2.45 μm), *Optical Engineering*, **33(11)**: 3471-3792.

Thome, K.J.; M.W. Smith; J.M. Palmer; and J.A. Reagan (1994) Three-channel solar radiometer for the determination of atmospheric columnar water vapor, *Applied Optics*, **33(24)**: 5811-5819.

Abrams, M.; and S.J. Hook (1995) Simulated ASTER data for geologic studies, *IEEE Transactions on Geoscience and Remote Sensing*, **33(3)**: 692-699.

Arai, K. (1995) Interactive calibration of the sensors onboard the same platform, *Advances in Space Research*, **17**: 21-28.

Fukushima, M. (1995) Thermal control system of ASTER, *Transactions, Journal of Aerospace*, **103**: 1668-1678.

Gillespie, A.; and D.H. Clark (1995) Potential of ASTER for inferring paleoclimatic conditions, *Journal of the Remote Sensing Society of Japan*, **15(1)**: 39-49.

Gillespie, A.R.; J.B. Adams; M.O. Smith; D. Gu; D.E. Sabol; and J.H. Zakin (1995) Forest mapping potential of ASTER, *Journal of the Remote Sensing Society of Japan*, **15(1)**: 62-71.

Kargel, J.S.; and H.H. Kieffer (1995) Opportunity for nearly comprehensive global glacier monitoring with ASTER, *EOS, Transactions of American Geophysical Union*, **76**: F91.

Moran, M.S.; R.D. Jackson; T.R. Clarke; J. Qi; F. Cabot; K.J. Thome; and B.L. Markham (1995) Reflectance factor retrieval from Landsat TM and SPOT HRV data for bright and dark targets, *Remote Sensing of Environment*, **52**: 218-230.

Pieri, D.C.; J. Crisp; and A.B. Kahle (1995) Observing volcanism and other transient phenomena with ASTER, *Journal of the Remote Sensing Society of Japan*, **15(2)**: 56-61.

Schmugge, T.; and K. Humes (1995) ASTER observations for the monitoring of land surface fluxes, *Journal of Remote Sensing Society of Japan*, **15(2)**: 83-89.

Slater, P.N.; K.J. Thome; K. Arai; H. Fujisada; H.H. Kieffer; A. Ono; F. Sakuma; F.D. Palluconi; and Y. Yamaguchi (1995) Radiometric calibration of ASTER data, *Japanese Journal of Remote Sensing*, **15(2)**: 16-23.

Yamaguchi, Y. (1995) Application of ASTER data to geological studies, *Journal of the Remote Sensing Society of Japan*, **15(2)**: 50-55.

Crowley, J.K.; and S.J. Hook (1996) Mapping playa evaporite minerals and associated sediments in Death Valley, California, with multispectral thermal infrared images, *Journal of Geophysical Research-Solid Earth*, **101(B1)**: 643-660.

Crowley, J.K.; and S.J. Hook (1996) Thermal Infrared Multispectral Scanner (TIMS) study of playa evaporite minerals in Death Valley, California, *Journal of Geophysical*

Research, **101**: 643-660.

Hook, S.J.; and A.B. Kahle (1996) The micro Fourier transform interferometer (μ FTIR) - A new field spectrometer for acquisition of infrared data of natural surfaces, *Remote Sensing of Environment*, **56(3)**: 172-181.

Hsieh, C.; G. Katul; J. Schieldge; J. Simon; and K. Knoerr (1996) The Lagrangian stochastic model for fetch and latent heat flux estimation above uniform and nonuniform terrain, *Water Resources Research*, **33(3)**: 427.

Hsieh, C.I.; G.G. Katul; J. Schieldge; J. Sigmon; and K.R. Knoerr (1996) Estimation of momentum and heat fluxes using dissipation and flux-variance methods in the unstable surface layer, *Water Resources Research*, **32(8)**: 2453-2462.

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.

Kustas, W.P.; T.J. Schmugge; and L.E. Hips (1996) On using mixed-layer transport parameterizations with radiometric surface temperature for computing regional scale sensible heat flux, *Boundary Layer Meteorology*, **80**: 205-221.

Ono, A.; F. Sakuma; K. Arai; Y. Yamaguchi; H. Fujisada; P.N. Slater; K.J. Thome; F. Palluconi; and H. Kieffer (1996) Preflight and inflight calibration plan for ASTER, *Bulletin of NRLM*, **45**: 376-386.

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 inflight calibration plan for ASTER, *Journal of Atmospheric and Oceanic Technology*, **13(2)**: 321-335.

Oppenheimer, C. (1996) Crater lake heat losses estimated by remote sensing, *Geophysical Research Letters*, **23(14)**: 1793-1796.

Ramsey, M.S.; and J.H. Fink (1996) Estimating lava vesicularity: A new technique using thermal infrared remote sensing data, *EOS, Transactions of American Geophysical Union*, **77(46)**: F803.

Rowan, L.C.; T.L. Bowers; J.K. Crowley; C. Anton-Pacheco; P. Gumiel; and M.J. Kingston (1996) Analysis of airborne visible-infrared imaging spectrometer (AVIRIS) data of the Iron Hill, Colorado, carbonatite-alkalic igneous complex, *Economic Geology and the Bulletin of the Society of Economic Geologists*, **90**: 1966-1982.

Schmid, B.; K. Thome; P. Demoulin; R. Peter; C. Mätzler; and J. Sekler (1996) Comparison of modeled and empirical approaches for retrieving columnar water vapor from solar transmittance measurements in the 0.94-m region, *Journal of Geophysical Research*, **101**: 9345-9358.

Slater, P.N.; and S.F. Biggar (1996) Suggestions for radiometric calibration coefficient generation, *Journal of Atmospheric and Oceanic Technology*, **13**: 376-382.

Slater, P.N.; S.F. Biggar; K.J. Thome; D.I. Gellman; and P.R. Spyak (1996) Vicarious radiometric calibrations of EOS sensors, *Journal of Atmospheric and Oceanic Technology*, **3(2)**: 349-359.

Arthur, S.T.; and T.N. Carlson (1997) New perspectives on land use/land cover analysis and urbanization, *The Pennsylvania Planner*, **79(April/May)**: 1-2.

Capehart, W.J.; and T.N. Carlson (1997) Decoupling of surface and near surface soil water content: a remote sensing perspective, *Water Resources Research*, **33**: 1383-1395.

Gillies, R.R.; J. Cui; T.N. Carlson; W.P. Kustas; and K.S. Humes (1997) Verification of the "triangle" method for obtaining surface soil water content and energy fluxes from remote measurements of NDVI and surface radiant temperature, *International Journal of Remote Sensing*, **18**: 3145-3166.

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, USA, *International Journal of Remote Sensing*, **18(7)**: 1571-1581.

Oppenheimer, C. (1997) Remote sensing of the colour and temperature of volcanic lakes, *International Journal of Remote Sensing*, **18(1)**: 5-37.

Pieri, D.C.; A.P. Khrenov; T.P. Miller; S.E. Zharinov; V. Realmuto; M. Abrams; L.S. Glaze; A.B. Kahle; V. Drozhnin; V. Dvigalo; V. Kirianov; E. Abbott; and S. Chernobieff (1997) Joint effort results in first TIMS survey of Kamchatka volcanoes, *EOS, Transactions of American Geophysical Union*, **78(12)**: 1.

Ramsey, M.S.; and J.H. Fink (1997) Mapping vesicularity of Hawaiian lava flows via thermal infrared remote sensing, *EOS, Transactions of American Geophysical Union*, **78(46)**: F777.

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 Abstracts with Programs*, **29(5)**: A58.

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-Solid Earth*, **102(B7)**: 15057-15072.

Smith, J.A.; N.S. Chauhan; T.J. Schmugge; and J. Ballard (1997) Remote sensing of land surface temperature: The directional viewing effect, *IEEE Transactions on Geoscience and Remote Sensing*, **37**: 972-974.

Abrams, M. (1998) Thermal Infrared remote sensing yields unprecedented view of Earth from space, *Earth in Space*, **11**: 8-12.

Fujisada, H. (1998) ASTER Level-1 data processing algorithm (Advanced Spaceborne Thermal Emission and Reflection Radiometer, *IEEE Transactions on Geoscience and Remote Sensing*, **36(4)**: 1101-1112.

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.

Gillespie, A.; J.S. Cothorn; S. Rokugawa; T. Matsunaga; S.J. 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.

Hook, S.J.; A.B. Kahle; T.J. Cudahy; and L.B. Whitbourn (1998) Synergy of active and passive airborne thermal infrared systems for surface compositional mapping, *Journal of Geophysical Research*, **103(B8)**: 269-218.

Katul, G.; J. Schieldge; C. Hsieh; and B. Vidakovic (1998) Skin temperature perturbations induced by surface layer turbulence above a grass surface, *Water Resources Research*, **34(5)**: 1265-1274.

Kaufman, Y.J.; D.D. Herring; K.J. Ranson; and G.J. Collatz (1998) Earth Observing System AM1 mission to Earth, *IEEE Transactions in Geoscience Remote Sensing*, **36(4)**: 1045-1055.

Kustas, W.P.; X. Zhan; and T.J. Schmugge (1998) Combining optical and microwave remote sensing for mapping energy fluxes in a semiarid watershed, *Remote Sensing of Environment*, **64**: 116-131.

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) The ASTER polar cloud mask, *IEEE Transactions on Geoscience and Remote Sensing*, **36(4)**: 1302-1312.

Ramsey, M.S.; and P.R. Christensen (1998) Mineral abundance determination: Quantitative deconvolution of thermal emission spectra, *Journal of Geophysical Research*, **103**: 577-596.

Ramsey, M.S.; J.H. Fink; R. Wessels; M. Poland; and S. Ruff (1998) Field spectroscopy and GPS analysis of silicic domes: Implications for future volcanic monitoring with the spaceborne ASTER instrument, *EOS, Transactions of American Geophysical Union*, **79(45)**: F1010.

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 Abstracts With Programs*, **30(7)**: A360.

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*, **103(D24)**: 291-232.

Schmugge, T.; S.J. Hook; and C. Coll (1998) Recovering surface temperature and emissivity from thermal infrared multispectral data, *Remote Sensing of Environment*, **65(2)**: 121-131.

Schmugge, T.J.; W.P. Kustas; and K.C. Humes (1998) Monitoring land surface fluxes using ASTER observations, *IEEE Transactions on Geoscience and Remote Sensing*, **36(5)**: 1421-1430.

Schmugge, T.J.; and G.M. Schmidt (1998) Surface temperature observations from AVHRR in FIFE, *Journal of Atmospheric Sciences*, **55(7)**: 1239-1246.

Sicard, M.; K.J. Thome; B.G. Crowther; and M.W. Smith (1998) Shortwave infrared spectroradiometer for atmospheric transmittance measurements, *Journal of Atmospheric and Oceanic Technology*, **15**: 174-183.

Thome, K.; F. Palluconi; T. Takashima; and K. Masuda (1998) Atmospheric correction of ASTER, *IEEE Transactions on Geoscience and Remote Sensing*, **36(4)**: 1199-1211.

Thome, K.; S. Schiller; J. Conel; K. Arai; and S. Tsuchida (1998) Results of the 1996 Earth Observing System vicarious calibration campaign at Lunar Lake Playa, Nevada (USA), *Metrologia*, **35**: 631-638.

Thome, K.; P. Slater; K. Arai; S. Hook; H. Lang; F. Palluconi; H. Kieffer; T. Matsunaga; A. Ono; and H. Sakuma (1998) ASTER preflight and inflight calibration and the validation of Level 2 products, *IEEE Transactions on Geoscience and Remote Sensing*, **36(4)**: 1161-1172.

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.

Yamaguchi, Y.; A.B. Kahle; M. Pniel; H. Tsu; and T. Kawakami (1998) Overview of Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), *IEEE Transactions on Geoscience and Remote Sensing*, **36(4)**: 1062-1071.

Arai, K. (1999) Preliminary vicarious calibration for EOS-AM1/ASTER with field campaigns, *Advances in Space Research*, **23(8)**: 1449-1457.

Cahill, A.T.; M.B. Parlange; T.J. Jackson; P. O'Neill; and T. Schmugge (1999) Evaporation from nonvegetated surfaces: Surface aridity methods and passive microwave remote sensing, *Journal of Applied Meteorology*, **38**: 1346-1351.

Ellis, J. (1999) NASA satellite systems for the nonrenewable resource sector, *EOM The Magazine For Geographic, Mapping, Earth Information*, **8(3)**: 46-48.

Kieffer, H.H.; J.M. Anderson; and K.J. Becker (1999) Radiometric calibration of

spacecraft using small lunar images, *SPIE Proceedings*, **3970**: 193-205.

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.

Ogawa, K.; S. Rokugawa; T. Matsunaga; and Y. Ninomiya (1999) Evaluation of thickness of desert varnish coatings on rock using thermal infrared remote sensing, *Remote Sensing Society of Japan*, **19(1)**: 45-58.

Pelgrum, H.; T. Schmugge; A. Rango; J. Ritchie; and B. Kustas (1999) Length scale analysis of surface albedo, temperature and NDVI in a desert grassland, *Water Resources Research*, **36(7)**: 1757-1765.

Ramsey, M.S.; P.R. Christensen; N. Lancaster; and D.A. Howard (1999) Identification of sand sources and transport pathways at the Kelso Dunes, California using thermal infrared remote sensing, *Geological Society of America Bulletin*, **111**: 646-662.

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**: 32-39.

Ramsey, M.S.; R. Wessels; and C. Eisinger (1999) Accurate mapping and monitoring of silicic domes using thermal infrared and radar remote sensing: Implications of lava texture and surface roughness, *EOS, Transactions of American Geophysical Union*, **80(46)**: F1145.

Rokugawa, S.; T. Matsunaga; H. Tsu; H. Tonooka; Y. Kannari; and K. Okada (1999) Temperature and emissivity separation from ASTER on EOS AM-1 - Preflight validation by ASTER airborne simulator, *Advances in Space Research*, **23(8)**: 1463-1469.

Sakuma, F. (1999) Preflight cross-calibration activities at NRLM, *Advances in Space Research*, **23(8)**: 1435-1442.

Schmugge, T.J.; and W.P. Kustas (1999) Radiometry at infrared wavelengths for agricultural applications, *Agronomie: Agriculture and Environment*, **19**: 83-96.

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.

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.

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)**: 1212-1226.

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.

Arai, K.; and K.J. Thome (2000) An error budget analysis of the vicarious calibration for visible to near infrared radiometers onboard satellites based on the reflectance based method, *Journal of Japan Society for Photogrammetry and Remote Sensing*, **39**: 99-105.

Arai, K.; K.J. Thome; S. Tsuchida; T. Takashima; Y. Kawata; 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**: 55-62.

Arthur, S.T.; T.N. Carlson; and D.A.J. Ripley (2000) Land use dynamics of Chester County, Pennsylvania, from a satellite remote sensing perspective, *Geocarto International*, **15**: 25-34.

Bishop, M.P.; J. Kargel; H. Kieffer; D.J. MacKinnon; B. Raup; and J.F. Shroder, Jr. (2000) Analysis of glacier processes in high Asia, *Annals of Glaciology*, **31**: 164-170.

Carlson, T.N.; and S.T. Arthur (2000) The impact of land use - land cover changes due to urbanization on surface microclimate and hydrology: A satellite perspective, *Global and Planetary Change*, **25**: 49-65.

Carlson, T.N.; and A. Sanchez-Azofeifa (2000) Satellite remote sensing of land use and surface microclimate changes in San Jose, Costa Rica, *Remote Sensing of Environment*, **70**: 247-256.

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; and W.P. Kustas (2000) Estimating surface fluxes over the SGP site with remotely sensed data, *Physics and Chemistry of the Earth*, **25(2)**: 167-172.

Goodrich, D.C.; A. Chehbouni; B. Goff; B. MacNish; T. Maddock; S. Moran; W.J. Shuttleworth; D.G. Williams; C. Watts; L.H. Hipps; D.I. Cooper; J. Schieldge; Y.H. Kerr; H. Arias; M. Kirkland; R. Carlos; P. Cayrol; W. Kepner; B. Jones; R. Avissar; A. Begue; J.M. Bonnefond; G. Boulet; B. Branan; J.P. Brunel; L.C. Chen; T. Clarke; M.R. Davis; H. DeBruin; G. Dedieu; E. Elguero; W.E. Eichinger; J. Everitt; J. Garatuza-Payan; V.L. Gempko; H. Gupta; C. Harlow; O. Hartogensis; M. Helfert; C. Holifield; D. Hymer; A. Kahle; T. Keefer; S. Krishnamoorthy; J.P. Lhomme; J.P. Lagouarde; D. Lo Seen; D. Luquet; R. Marsett; B. Monteny; W. Ni; Y. Nouvellon; R. Pinker; C. Peters; D. Sabol; J. Qi; S. Rambal; J. Rodriguez; F. Santiago; E. Sano; S.M. Schaeffer; M. Schulte; R.

Scott; X. Shao; K.A. Snyder; S. Sorooshian; C.L. Unkrich; M. Whitaker; and I. Yucel (2000) Preface paper to the Semiarid Land-Surface-Atmosphere (SALSA) program special issue, *Agricultural and Forest Meteorology*, **105**: 3-20.

Gu, D.; A.R. Gillespie; A.B. Kahle; and F.D. Palluconi (2000) Autonomous atmospheric compensation (AAC) of high resolution hyperspectral thermal infrared remote-sensing imagery, *IEEE Transactions on Geoscience and Remote Sensing*, **38(6)**: 2557-2570.

Havstad, K.M.; W.P. Kustas; A. Rango; J. Ritchie; and T.J. Schmugge (2000) Jornada Experimental Range: A unique location for remote sensing experiments to validate EOS satellite systems and to understand the effects of climate change in arid environments, *Remote Sensing of Environment*, **74(1)**: 13-23.

Kieffer, H.H.; and J.S. Kargel (2000) New eyes in the sky measure glaciers and ice sheets, *EOS, Transactions of American Geophysical Union*, **81(265)**: 270-271.

Kustas, W.P.; and J.M. Norman (2000) Evaluating the effects of subpixel heterogeneity on pixel average fluxes (in satellite remote sensor data), *Remote Sensing of Environment*, **74(3)**: 327-342.

Lang, H.R.; and S.M. Baloga (2000) Validating airborne visible-infrared imaging spectrometer data at Ray Mine, Arizona, *Environmental and Engineering Geoscience*, **6(3)**: 187-200.

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**: 1-12.

Ramsey, M.S. (2000) Mapping the city landscape from space: The Advanced Spaceborne Thermal Emission and Reflectance Radiometer (ASTER) urban environmental monitoring program, *EOS, Transactions of American Geophysical Union*, **81(19)**: S11.

Ramsey, M.S.; and J.R. Arrowsmith (2000) Mitigating future fire and flood hazards in arid urban regions: Initial analysis of brush fire scars with the new ASTER instrument, *EOS, Transactions of American Geophysical Union*, **81(48)**: F549.

Rango, A.; M. Chopping; J. Ritchie; K. Havstad; W. Kustas; and T. Schmugge (2000) Morphological characteristics of shrub-coppice dunes in desert grasslands of southern New Mexico, *Remote Sensing of Environment*, **74(1)**: 26-44.

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)**: 1105-1112.

Spyak, P.R.; D.S. Smith; J. Thiry; and C. Burkhart (2000) Shortwave 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.

Thome, K.J.; and P. Nandy (2000) Accuracy of ground-reference calibration of imaging spectroradiometers at large sensor view angles, *Journal of Remote Sensing Society of Japan*, **20**: 112-124.

Wessels, R.; and M.S. Ramsey (2000) Multisensor/multiwavelength data fusion over steep volcanic terrain: Analysis challenges in the next era of remote sensing, *EOS, Transactions of American Geophysical Union*, **81(48)**: F1255.

Wessels, R.L.; and M.S. Ramsey (2000) Multisensor/multiwavelength data fusion over steep volcanic terrain: Analysis challenges in the next era of remote sensing, *Remote Sensing of Environment*, **submitted**.

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-Solid Earth*, **105(B10)**: 23681-23694.

Arai, K. (2001) Early results from the vicarious calibration of Terra/ASTER/SWIR, *Advances in Space Research*, **28**: 77-82.

Brown, S.W.; B.C. Johnson; H.W. Yoon; J.J. Butler; R.A. Barnes; S. Biggar; P. Spyak; K. Thome; E. Zalewski; M. Helmlinger; C. Bruegge; S. Schiller; G. Fedosejevs; R. Gauthier; S. Tsuchida; and S. Machida (2001) Radiometric characterization of field radiometers in support of the 1997 Lunar Lake, Nevada experiment to determine surface reflectance and top-of-atmosphere radiance, *Remote Sensing of Environment*, **77**: 367-376.

Byrnes, J.M.; M.S. Ramsey; and D.A. Crown (2001) Emplacement of basaltic flow fields: New insights using MODIS/ASTER airborne simulator (MASTER) data, *EOS, Transactions of American Geophysical Union*, **82(47)**: F1356.

Crown, D.A.; J.M. Byrnes; and M.S. Ramsey (2001) Mapping compound lava flow fields on planetary surfaces, *EOS, Transactions of American Geophysical Union*, **82(47)**.

Hellman, M.J.; and M.S. Ramsey (2001) Analysis of hot springs in Yellowstone National Park using ASTER and AVIRIS remote sensing, *EOS, Transactions of American Geophysical Union*, **82(47)**: F1360.

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, *Remote Sensing of Environment*, **76(1)**: 93-102.

Liang, S. (2001) Narrowband to broadband conversions of land surface albedo. I - Algorithms, *Remote Sensing of Environment*, **76(2)**: 213-238.

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.

Nandy, P.; K. Thome; and S. Biggar (2001) Characterization and field use of a CCD camera system for retrieval of bidirectional reflectance distribution function, *Journal of Geophysical Research*, **106**: 11957-11966.

Ramsey, M.S.; and J.R. Arrowsmith (2001) New images of fire scars may help to mitigate future natural hazards, *EOS, Transactions of American Geophysical Union*, **82(36)**: 393-398.

Ramsey, M.S.; and J. Dehn (2001) The first year of volcanic data from ASTER: Case studies of Bezymianny and Sheveluch Volcanoes, Kamchatka, *EOS, Transactions of American Geophysical Union*, **82(47)**: F1354.

Ramsey, M.S.; A.J.L. Harris; J. Dehn; and D. Pirie (2001) Thermal anomaly monitoring of the ongoing eruptions at Soufriere Hills Volcano, Montserrat and Bezymianny Volcano, Kamchatka: First results from the new ASTER instrument, *EOS, Transactions of American Geophysical Union*, **81(20)**.

Slater, P.N.; S.F. Biggar; J.M. Palmer; and K.J. Thome (2001) Unified approach to absolute radiometric calibration in the solar-reflective range, *Remote Sensing of Environment*, **77**: 293-303.

Stefanov, W.L.; and M.T. Applegarth (2001) Geomorphic analysis of semiarid landforms using mid-infrared spectroscopy and remote sensing, *EOS, Transactions of American Geophysical Union*, **82(47)**.

Stefanov, W.L.; P.R. Christensen; and M.S. Ramsey (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.

Stefanov, W.L.; M.S. Ramsey; and P.R. Christensen (2001) Monitoring the urban environment: An expert system approach to land cover classification of semiarid to arid urban centers, *Remote Sensing of Environment*, **77(2)**: 173-185.

Stefanov, W.L.; M.S. Ramsey; and P.R. Christensen (2001) Fugitive dust generation, transport, and deposition in the Nogales, Arizona region using enhanced Thematic Mapper Plus (ETM+) data, *EOS, Transactions of American Geophysical Union*, **81(20)**.

Su, Z.; T. Schmugge; W.P. Kustas; and W.J. Massman (2001) An evaluation of two models for estimation of the roughness height for heat transfer between the land surface and the atmosphere, *Journal of Applied Meteorology*, **40(11)**: 1933-1951.

Takashima, T.; K. Masuda; I. Sano; and S. Mukai (2001) Atmospheric correction for the ASTER visible data on Terra satellite, *Advances in Space Research*, **28(1)**: 177-182.

Teillet, P.M.; G. Fedosejevs; R.P. Gauthier; N.T. O'Neill; K.J. Thome; S.F. Biggar; H. Ripley; and A. Meygret (2001) A generalized approach to the vicarious calibration of multiple Earth observation sensors using hyperspectral data, *Remote Sensing of Environment*, **77**: 304-327.

Tonooka, H. (2001) An atmospheric correction algorithm for thermal infrared multispectral data over land - A water-vapor scaling method, *IEEE Transactions on Geoscience and Remote Sensing*, **39(3)**: 682-692.

Wessels, R.L.; J.S. Kargel; and H.H. Kieffer (2001) Remotely measuring glacial features using ASTER and Landsat ETM+, *EOS, Transactions of American Geophysical Union*, **82(Supplement)**: F542.

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, *Advances in Space Research*, **28(1)**: 69-76.

Barton, I.J.; P.J. Minnett; K.A. Maillet; C.J. Donlon; S.J. Hook; A.T. Jessup; and T.J. Nightingale (2002) The Miami 2001 infrared radiometer calibration and intercomparison: 2. Ship board results, *Journal of Atmospheric and Oceanic Technology*, **submitted**.

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.

French, A.N.; T.J. Schmugge; and W.P. Kustas (2002) Estimating evapotranspiration over El Reno, Oklahoma with ASTER imagery, *Agronomie*, **22(1)**: 105-106.

Hebble, E.E.; T.N. Carlson; and K. Daniel (2002) Impervious surface area and housing density: A satellite perspective, *Geocarto International*, **in press**.

Hook, S.J.; R.E. Alley; and M.N. Orton (2002) WINVICAR - A Windows based image analysis software package suitable for manipulating EOS data, *EOS, Transactions of American Geophysical Union*, **83(47)**.

Jacob, F.; F. Petitcolin; T.J. Schmugge; E. Vermote; A.N. French; and K. Ogawa (2002) Comparison of land surface emissivity and radiometric temperature derived from MODIS and ASTER sensors, *Remote Sensing of Environment*, **submitted**.

Justice, C.O.; L. Giglio; S. Korontzi; J. Owens; J.T. Morisette; D. Roy; J. Desloîtres; S. Alleaume; F. Petitcolin; and Y. Kaufman (2002) The MODIS fire products: The Moderate Resolution Imaging Spectroradiometer (MODIS): A new generation of land surface monitoring, *Remote Sensing of Environment*: 244-262.

Kääb, A. (2002) Monitoring high-mountain terrain deformation from repeated air- and spaceborne optical data: examples using digital aerial imagery and ASTER data, *Journal of Photogrammetry and Remote Sensing*, **57(1-2)**: 39-52.

Ogawa, K.; T. Schmugge; and F. Jacob (2002) Estimation of land surface window (8-12 mm) emissivity from multispectral thermal infrared remote sensing - a case study in a part of Sahara Desert, *EOS, Transactions of American Geophysical Union*, **83(47)**.

Ogawa, K.; T.J. Schmugge; F. Jacob; and A.N. French (2002) Estimation of broadband land surface emissivity from multispectral thermal infrared remote sensing, *Agronomie: Agriculture Environment*, **22(6)**: 695-696.

Pugnaghi, S.; S. Teggi; S. Corradini; M.F. Buongiorno; L. Merucci; and M.P. Bogliolo (2002) Estimation of SO₂ 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.

Quigley, M.C.; S.J. Hook; and K.E. Karlstrom (2002) Detailed structural and tectonic studies utilizing MASTER remote sensing imagery: A case study from the North Virgin Mountains, southeast Nevada and northwest Arizona, *Journal of Geophysical Research*, **accepted**.

Ramsey, M.S.; and J. Dehn (2002) Spaceborne observations of the 2000 eruption of Bezymianny Volcano, Kamchatka: A comparison of new results from ASTER to real-time monitoring using AVHRR, *Journal of Volcanology and Geothermal Research*, **in preparation**.

Rice, J.P.; J.J. Butler; B.C. Johnson; P.J. Minnett; K. Maillet; A. Nightingale; S.J. Hook; A. Abtahi; C.J. Donlon; and I.J. Barton (2002) The Miami 2001 infrared radiometer calibration and intercomparison: 1. Laboratory characterization of blackbody targets, *Journal of Atmospheric and Oceanic Technology*, **submitted**.

Rojas, F.; R.A. Schowengerdt; and S.F. Biggar (2002) Early results on the characterization of the Terra MODIS spatial response, *Remote Sensing of Environment*, **83(1-2)**: 50-61.

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.

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.; W. Kustas; J. Ritchie; T. Jackson; and A. Rango (2002) Remote sensing in hydrology, *Advances in Water Resources*, **25**: 1367-1385.

Schmugge, T.J.; K. Ogawa; F. Jacob; and A. French (2002) Quantitative estimates of land surface emissivity using ASTER data, *EOS, Transactions of American Geophysical Union*, **83(47)**: 62B-06.

Stefanov, W.L. (2002) Assessment of landscape fragmentation associated with urban

centers using ASTER data, *EOS, Transactions of American Geophysical Union*, **83(47)**.

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.; 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.

Vaughan, R.G.; W.M. Calvin; and S.J. Hook (2002) Thermal infrared surface mineral mapping at Steamboat Springs, Nevada: Comparison of airborne and field spectral measurements, *EOS, Transactions of American Geophysical Union*, **83**: 47.

Wessels, R.L.; J.S. Kargel; and H.H. Kieffer (2002) ASTER measurement of supraglacial lakes in the Mount Everest region of the Himalaya, *Annals of Glaciology*, **34**: 399-408.

Zhu, G.; and D.G. Blumberg (2002) Classification using ASTER data and SVM algorithms - The case study of Beer Sheva, Israel, *Remote Sensing of Environment*, **80(2)**: 233-240.

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.

Byrnes, J.M.; M.S. Ramsey; and D.A. Crown (2003) Emplacement of the Mauna Ulu flow field, Kilauea Volcano, Hawaii: New insights from ASTER and the MASTER airborne simulator, *Journal of Volcanology and Geothermal Research*, **in review**.

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.

Chopping, M.; A. Rango; K. Havstad; F. Schiebe; J. Ritchie; T. Schmugge; A. French; L. Mckee; and M. Davis (2003) Determination of physiognomies of Chihuahuan Desert grasslands and transition communities from a single wavelength multiangular imagery, *Remote Sensing of Environment*, **85(3)**: 339-354.

Chopping, M.J.; A. Rango; K.M. Havstad; F.R. Schiebe; J.C. Ritchie; T.J. Schmugge; A.N. French; L.H. Su; L. McKee; and M.R. Davis (2003) Canopy attributes of desert grassland and transition communities derived from multiangular airborne imagery, *Remote Sensing of Environment*, **85(3)**: 339-354.

Corradini, S.; S. Pugnaghi; S. Teggi; M.F. Buongiorno; and M.P. Bogliolo (2003) Will

ASTER see the Etna SO₂ plume?, *International Journal of Remote Sensing*, **24(6)**: 1207-1218.

Crosta, A.P.; C.R. De Souza; 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.

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.

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.

French, A.N.; T.J. Schmugge; W.P. Kustas; K.L. Brubaker; and J.H. Prueger (2003) Surface energy fluxes over El Reno, Oklahoma using high resolution remotely sensed data, *Water Resources Research*, **39(6)**: 1164.

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.

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

Hellman, M.J.; and M.S. Ramsey (2003) Analysis of hot springs in Yellowstone National Park using ASTER and AVIRIS remote sensing, *Journal of Volcanology and Geothermal Research*, **in review**.

Hirano, A.; R. Welch; and H. Lang (2003) Mapping from ASTER stereo image data: DEM validation and accuracy assessment, *Isprs Journal of Photogrammetry and Remote Sensing*, **57(5-6)**: 356-370.

Hook, S.J.; J.E. Dmochowski; K.A. Howard; L.C. Rowan; and K.E. Karlstrom (2003) Mapping weight percent silica variation from remotely acquired multispectral thermal infrared data with examples from the Hiller Mountains, Nevada, USA and Tres Virgenes-La Reforma, Baja California Sur, Mexico, *Journal of Geophysical Research*, **submitted**.

Hook, S.J.; F.J. Prata; R.E. Alley; A. Abtahi; R.C. Richards; S.G. Schladow; and S.Ó. Pálmarrsson (2003) Retrieval of lake bulk- and skin-temperatures using along track scanning radiometer (ATSR) data: A case study using Lake Tahoe, CA, *Journal of Atmospheric and Oceanic Technology*, **20(4)**: 534-548.

Hubbard, B.E.; J.K. Crowley; and D.R. Zimbelman (2003) Comparative alteration mineral mapping using visible to shortwave infrared (0.4-2.4 μ m) Hyperion, ALI, and

ASTER imagery, *IEEE Transactions on Geoscience and Remote Sensing*, **41(6)**: 1401-1410.

Kahle, A.; R. Wessels; W. Haeberli; C. Huggel; J.S. Kargel; S. Jodha; and S. Khalsa (2003) Rapid ASTER imaging facilitates timely assessment of glacier hazards and disasters, *EOS, Transactions of American Geophysical Union*: 117-121.

Kustas, W.; A. French; J. Hatfield; T. Jackson; S. Moran; A. Rango; J. Ritchie; and T. Schmugge (2003) Remote sensing research in hydrometeorology, *Photogrammetric Engineering and Remote Sensing*, **69(6)**: 631-646.

Masahiko, K.; O. Nagamitsu; S. Takashi; and M. Fukushima (2003) Heritage of ASTER instrument on orbit performance, *Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku*: 55-60.

Netzband, M.; and W.L. Stefanov (2003) Assessment of urban spatial variation using ASTER data, *International Archives of the Photogrammetry, Remote Sensing, and Spatial Information Sciences*, **34(7/W9)**: 138-143.

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 10(1)-m pixel resolutions, *Water Resources Research*, **39(8)**.

Ogawa, K.; T.J. Schmugge; and F. Jacob (2003) Estimation of land surface window (8-12 micrometer) emissivity from multispectral thermal infrared remote sensing - a case study in a part of Sahara Desert, *Geophysical Research Letters*, **30(2)**: 1067.

Ramsey, M.S. (2003) 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*, **107(E8)**.

Ramsey, M.S.; and J. Dehn (2003) 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*, **in review**.

Ramsey, M.S.; and J.H. Fink (2003) Mapping compositional variations on obsidian flows: TIMS analysis of Big Glass Mountain, California, *Journal of Volcanology and Geothermal Research*, **in preparation**.

Ramsey, M.S.; and L.P. Flynn (2003) Strategies, insights, and the recent advances in volcanic monitoring and mapping with data from the Earth Observing System, *Journal of Volcanology and Geothermal Research*, **in review**.

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 and the Bulletin of the Society of Economic Geologists*, **98(5)**: 1019-1027.

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.

S. Moran; G. Fitzgerald; A. Rango; C. Walthall; E. Barnes; W. Bausch; T. Clarke; C. Daughtry; J. Everitt; J. Hatfield; K. Havstad; T. Jackson; N. Kitchen; W. Kustas; M. McGuire; P. Pinter; K. Sudduth; J. Schepers; T. Schumugge; P. Starks; and D. Upchurch (2003) Sensor development and radiometric correction for agricultural applications, *Photogrammetric Engineering and Remote Sensing*, **69(6)**: 705-718.

Stefanov, W.L. (2003) Remote sensing of urban ecology at the Central Arizona-Phoenix Long Term Ecological Research site, *Arid Lands Newsletter 51* (<http://ag.arizona.edu/OALS/ALN/aln51/stefanov.html>).

Stefanov, W.L.; P.R. Christensen; and M.S. Ramsey (2003) Mineralogical analysis of soils using linear deconvolution of mid-infrared emission spectra, *Journal of Geophysical Research*, **in preparation**.

Stefanov, W.L.; M.S. Ramsey; and P.R. Christensen (2003) Identification of fugitive dust generation, transport, and deposition areas using remote sensing, *Environmental and Engineering Geoscience*, **9(2)**: 151-165.

Stefanov, W.L.; J.A. Robinson; and S.A. Spraggins (2003) Vegetation measurements from digital astronaut photography, *International Archives of the Photogrammetry, Remote Sensing, and Spatial Information Sciences*, **34(7/W9)**: 185-189.

Takeuchi Wataru Yasuoka, Y.; and S. Ochi (2003) Accuracy assessment of geometric correction with Terra ASTER, *Shashin Sokuryo to Rimoto Senshingu*: 38-41.

Vaughan, R.G.; S.J. Hook; W.M. Calvin; and J.V. Taranik (2003) Surface mineral detection with thermal infrared image data, *Journal of Geophysical Research*, **in press**.

Volesky, 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, *Precambrian Research*, **123(2-4)**: 235-247.

Watanabe, H.; and K. Matsuo (2003) Rock type classification by multi-band TIR of ASTER, *Geosciences Journal*, **7(4)**: 347-358.

Wessels, R.L.; and M.S. Ramsey (2003) Multisensor/multiwavelength data fusion over steep volcanic terrain: Analysis challenges in the next era of remote sensing, *Journal of Information - Fusion*, **submitted**.

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.

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)**.

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)**.

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*.

Baldrige, 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-Planets*, **109**.

Barnel, N.; T. Lassabatere; C. Le Potier; and P. Semete (2004) Sensitivity analysis on the thermal-hydraulic parameters governing the saturation of an engineered clay barrier system, *Applied Clay Science*, **26**.

Byrnes, J.M.; M.S. Ramsey; and D.A. Crown (2004) Surface unit characterization of the Mauna Ulu flow field, Kilauea Volcano, Hawaii, using integrated field and remote sensing analyses, *Journal of Volcanology and Geothermal Research*, **54**.

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**.

Fu, B.H.; Y. Ninomiya; X.L. 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**.

Hasi, B.; J.W. Ma; Q.Q. Li; X.Z. Han; and Z.L. 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**.

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**.

Lampkin, D.J.; and S.R. Yool (2004) Monitoring mountain snowpack evolution using near-surface optical and thermal properties, *Hydrological Processes*, **18**.

Li, P.J.; 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**.

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**.

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**.

Ogawa, K.; and T.J. Schmugge (2004) Mapping surface broadband emissivity of Sahara desert using ASTER and MODIS data, *Earth Interactions*, **submitted**.

Patrick, M.; K. Dean; and J. Dehn (2004) Active mud volcanism observed with Landsat 7 ETM+, *Journal of Volcanology and Geothermal Research*, **131**.

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.

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.

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**.

Stevens, N.F.; H. Garbeil; and P.J. Mouginiis-Mark (2004) NASA EOS Terra ASTER: Volcanic topographic mapping and capability, *Remote Sensing of Environment*, **90**.

Torres, R.; P. Mouginiis-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**.

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**.

Zhou, L.; R.E. Dickinson; Y. Tian; M. Jin; K. Ogawa; H. Yu; and T.J. Schmugge (2004) A sensitivity study of climate of energy balance simulations with use of satellite derived emissivity data over the northern African and the Arabian Peninsula, *Journal of Geophysical Research*, **submitted**.

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**.

BOOKS/BOOK SECTIONS and REPORTS

Kahle, A.B.; F. Palluconi; C. LeVine; M. Abrams; D. Nash; R. Alley; and J. Schieldge (1982) *Evaluation of thermal data for geologic applications*, Jet Propulsion Laboratory, Pasadena, California, Document Number Publication 83-56, 106 pp.

Abrams, M.J.; A.B. Kahle; A.R. Gillespie; J. Conel; and H.R. Lang (1985) Geologic utility of Landsat-4 TM data, in *Landsat-4 Science Characterization Early Results (NASA CP-2355)*, vol. IV, pp. 127-131.

Fujisada, H.; and A. Ono (1992) Observational performance of ASTER instrument on EOS-AM1 spacecraft, in *Remote Sensing of Earth's Surface and Atmosphere*, A.B. Kahle, E.J. Njoku, F.D. Palluconi, A.R. Gillespie, S.J. Hook, C.M. Hayden, K. Tsuchiya, and J. Dozier (Editors), Pergamon Press, New York, pp. 147-150.

Mills, F.; Y. Kannari; H. Watanabe; M. Sano; and S.H. Chang (1992) Thermal airborne multispectral ASTER simulator and its preliminary results, in *Remote Sensing of Earth's Surface and Atmosphere*, A.B. Kahle, E.J. Njoku, F.D. Palluconi, A.R. Gillespie, S.J. Hook, C.M. Hayden, K. Tsuchiya, and J. Dozier (Editors), Pergamon Press, New York, NY, pp. 49-58.

Dozier, J.; and Z. Wan (1993) Development of practical multiband algorithms for land-surface temperature from EOS/MODIS data, in *Remote Sensing of Earth's Surface and Atmosphere*, pp. 81-90.

Kahle, A.B.; F.D. Palluconi; and P.R. Christensen (1993) Thermal emission spectroscopy: Application to the Earth and Mars, in *Remote Geochemical Analysis: Elemental and Mineralogical Composition*, C.M. Pieters, and P.A.J. Englert (Editors), Cambridge University Press, Cambridge, Massachusetts, pp. 99-120.

Moriyama, M.; and K. Arai (1993) An inversion for emissivity temperature separation with data, in *Remote Sensing of Earth's Surface and Atmosphere*, A.B. Kahle, E.J. Njoku, F.D. Palluconi, A.R. Gillespie, S.J. Hook, C.M. Hayden, K. Tsuchiya, and J. Dozier (Editors), Pergamon Press, New York, NY, pp. 67-70.

Ohmae, H.; S. Kitamura; and M. Niwa (1993) Overview of Thermal Infrared Radiometer on ASTER, in *Remote Sensing of Earth's Surface and Atmosphere*, A.B. Kahle, E.J. Njoku, F.D. Palluconi, A.R. Gillespie, S.J. Hook, C.M. Hayden, K. Tsuchiya, and J. Dozier (Editors), Pergamon Press, New York, pp. 151-154.

Rokugawa, S.; T. Matsunaga; H. Tsu; and Y. Ishii (1993) Future potential of thermal infrared multispectral data mapping temperature and emissivity parameters, in *Remote Sensing of Earth's Surface and Atmosphere*, A.B. Kahle, E.J. Njoku, F.D. Palluconi, A.R. Gillespie, S.J. Hook, C.M. Hayden, K. Tsuchiya, and J. Dozier (Editors), Pergamon Press, New York, pp. 71-80.

Tsu, H.; Y. Miyazaki; Y. Yamaguchi; and I. Sato (1993) Current status and science objectives of ASTER Project, in *Remote Sensing of Earth's Surface and Atmosphere*,

A.B. Kahle, E.J. Njoku, F.D. Palluconi, A.R. Gillespie, S.J. Hook, C.M. Hayden, K. Tsuchiya, and J. Dozier (Editors), Pergamon Press, New York, pp. 141-145.

Welch, R.M. (1993) *The effects of cloud inhomogeneities upon radiative fluxes, and the supply of a cloud truth validation dataset (Semiannual Progress Report, 1 Jul. -31 Dec. 1992)*, Document Number NASA-CR-191711pp.

Abrams, M.; A. Gillespie; A. Kahle; and L. Rowan (1994) Contributions to workshop, in *Airborne Remote Sensing for Geology and the Environment - Present and Future*, K. Watson, and D.H. Knepper (Editors), US Government Printing Office, Washington, DC.

Brenner, R.; J.H. Lala; G.A. 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)*, Document Number NAS1-18565pp.

Kahle, A.B.; M.J. Abrams; E.A. Abbott; P.J. Mougini-Mark; and V.J. Realmuto (1995) Remote sensing of Mauna Loa, in *Mauna Loa - Revealed. Structure, Composition, History and Hazards, Geophysical Monograph 92*, J.M. Rhodes, and J.P. Lockwood (Editors), American Geophysical Union, Washington, DC, pp. 145-170.

Njoku, E.G.; S.J. Hook; and A. Chehbouni (1996) Effects of surface heterogeneity on thermal remote sensing of land parameters, in *Scaling up in Hydrology using Remote Sensing*, J.B. Stewart, E.T. Engman, R.A. Feddes, and Y. Kerr (Editors), Wiley, New York, pp. 19-37.

Slater, P.; and K.C. Thome (1997) *EOS Contract Report: The ASTER and MODIS Projects (Semiannual Report, 1 Jan. 1997 - 30 Jun. 1997)*, Document Number NASA-CR-205013pp.

Goodison, B.; R.D. Brown; R.G. Crane; R.B. Alley; R. Bales; D. Barber; R. Barry; C. Bentley; T. Carrol; B. Cline; C.R. Duguay; G.M. Flato; D.K. Hall; R. Harrison; J.S. Kargel; H.H. Kieffer; S. Munro; C. Parkinson; B.H. Raup; A. Rothrock; and M. Sharp (1998) Chapter 6, Cryospheric Systems, in *EOS Science Plan*, pp. 263-307.

Haraki, Y. (1998) *Now and Future: Remote Sensing Technology Utilizing Satellites*, Document Number NASA #19980018618pp.

Hook, S.; E. Abbott; C. Grove; A. Kahle; and F. Palluconi (1998) Multispectral thermal infrared data in geological studies, in *Remote Sensing for the Earth Sciences, Manual of Remote Sensing*.

Rango, A.; J.C. Ritchie; W.P. Kustas; T.J. Schmugge; and K.M. Havstad (1998) JORNEX: remote sensing to quantify long-term vegetation change and hydrological fluxes in an arid rangeland environment, in *Hydrology in a Changing Environment*, John Wiley, pp. 585-590.

Lang, H.R. (1999) Chapter 7, Stratigraphy, in *Remote Sensing for the Earth Sciences, Manual of Remote Sensing*, A.N. Renz (Editor), John Wiley and Sons, New York, NY,

pp. 351-368.

Carlson, T.N.; D.A.J. Ripley; and T.J. Schmugge (2001) Rapid soil drying and its implications for remote sensing of soil moisture and the surface energy fluxes, in *Thermal Remote Sensing in Land Surface Processes*, in press, Ann Arbor Press.

Stefanov, W.L.; P.R. Christensen; and M.S. Ramsey (2001) Remote sensing of urban ecology at regional and global scales: Results from the Central Arizona-Phoenix LTER site and ASTER urban environmental monitoring program, in *Remote Sensing of Urban Areas*, *Regensburger Geographische Schriften*, C. Jürgens (Editor), pp. 313-321.

Abrams, M.; and S. Hook (2002) *ASTER User Handbook*, Jet Propulsion Laboratory, Pasadena, California.

Abrams, M.; and S. Hook (2002) Imaging spectroscopy in the thermal infrared, in *Imaging Spectroscopy Applications*, F. van der Meer, and S. de Jong (Editors), Kluwer Academic Publishers, Netherlands.

Stadler, S.J.; K.P. Czajkowski; S.N. Goward; and Y. Xue (2002) *Terrstrial environmental variable derived from EOS platform sensors*, Oklahoma State University, Stillwater, Oklahoma, 12 pp.

Buheaosier; K. Tsuchiya; M. Kaneko; and S.J. Sung (2003) Comparison of image data acquired with AVHRR, MODIS, ETM plus and ASTER over Hokkaido, Japan, in *Calibration, Characterization of Satellite Sensors, Physical Parameters Derived from Satellite Data: Advances in Space Research*, vol. 32, pp. 2211-2216.

Ford, A.L.J.; R.R. Forster; and R.L. Bruhn (2003) Ice surface velocity patterns on Seward Glacier, Alaska/Yukon, and their implications for regional tectonics in the Saint Elias Mountains, in *Annals of Glaciology: Annals of Glaciology*, vol. 36, pp. 21-28.

Ramsey, M.S. (2003) Mapping the city landscape from space: The Advanced Spaceborne Thermal Emission and Reflectance Radiometer (ASTER) urban environmental monitoring program, in *Earth Science in the City*, G. Heiken, R. Fakundiny, and J. Sutter (Editors), American Geophysical Union Press, Washington, DC, pp. 337-361.