Elijah Ramsey III, Principal Investigator, U.S. Geological Survey (elijah_ramsey@usgs.gov)

Amina Rangoonwala, Remote Sensing Specialist, IAP World Services, Inc. (amina_rangoonwala@usgs.gov)

Updated 071706

Applied and Theoretical Remote Sensing/GIS, Environmental Chemistry/Water Quality, Coastal Processes/Coastal Morphology, Oceanography/Hydrology, Programming/Statistical Analysis

PUBLICATIONS

- Ramsey, E., III, Z. Lu., A. Rangoonwala, and R. Rykhus, in press. Multiple baseline radar interferometry applied to coastal landscape classification and change analyses. *GIS Science and Remote Sensing*.
- Ramsey, E., III, in press. Review of Satellite Monitoring of Inland and Coastal Water Quality by Robert P. Bukata, *Photogrammetric Engineering and Remote Sensing.*
- Ramsey, E., III, in press. Coastal Resource Management. *The Facts on File Encyclopedia of Marine Science*. Editor, C. Reid Nichols. (Facts On File, Inc.: New York) ISBN: 0-8160-5022-8.
- Ramsey E., III, Y. Yan, 2006. Palo Alto battlefield National historic site landscape classification and historical analysis. Proceedings 20th Bienial workshop on Aerial photography, *Videography, and High Resolution Digital imagery for Resource Assessment*. October 4-6, 2005 Weslaco, Texas.
- Rangoonwala, A., E. Ramsey III, 2006. Mapping the invasive species, Chinese tallow, with NASA EO1 satellite Hyperion hyperspectral sensor. Proceedings 20th Bienial workshop on Aerial photography, *Videography, and high Resolution Digital Imagery for Resource Assessment*. October 4-6, 2005 Weslaco, Texas.
- Ramsey III, E., A. Rangoonwala, 2006. Site-specific canopy reflectance related to marsh dieback onset and progression in coastal Louisiana. *Photogrammetric Engineering and Remote Sensing*, 72(6):641-652.
- Ramsey III, E., and G. Nelson, 2005. A whole image approach for transforming EO1 Hyperion hyperspectral data into highly accurate reflectance data with site-specific measurements. *International Journal of Remote Sensing*, 26(8), 1589-1610.
- Ramsey III, E., A. Rangoonwala, G. Nelson, R. Ehrlich and K. Martella, 2005. Generation and validation of characteristic spectra from EO1 Hyperion image data for detecting the percent occurrence of invasive species, specifically Chinese Tallow, *International Journal of Remote Sensing*, 26(8), 1611-1636.
- Ramsey III, E., A. Rangoonwala, and R. Ehrlich, 2005. Mapping the invasive species, Chinese Tallow with EO1 satellite Hyperion hyperspectral image data and relating tallow percent occurrences to a classified Landsat Thematic Mapper landcover map, *International Journal of Remote Sensing*, 26(8), 1637-1657.
- Ramsey, E., III, 2005. Remote sensing of coastal environments in *Encyclopedia of Coastal Science*. Encyclopedia of Earth Sciences Series, Kluwer Academic Publishers, The Netherlands, Editor, Maurice L. Schwartz, 797-803.
- Ramsey III, E., and A. Rangoonwala, 2005. Leaf optical property changes associated with the occurrence of Spartina alterniflora dieback in coastal Louisiana related to remote sensing mapping, *Photogrammetry Engineering and Remote Sensing*, 71(3), 299-311.
- Ramsey III, E., G. Nelson, F. Baarnes, and R. Spell, 2004. Light attenuation profiling as an indicator of structural changes in coastal marshes. In Remote Sensing and GIS Accuracy Assessment. Ross Lunetta and John Lyon, editors. (CRC Press: New York) 59-73.
- Ramsey, E., III, and A. Rangoonwala, 2004. Determining the optical properties of the narrow, cylindrical leaves of *Juncus* roemerianus, IEEE Geosciences and Remote Sensing, 42(5), 1064-1075.
- Ramsey, E., III, G. Nelson, F. Baarnes, and R. Spell, 2003. Light attenuation indicating structural changes in coastal marshes. *Geospatial Data Accuracy Assessment*, editors, Ross S. Lunetta and John G. Lyon, (EPA/600/R-03/064, December 2003).
- Ramsey, E., III, G. Nelson, S. Sapkota, 2002. Linking hydrology to wetland vegetation. *In* Applicatons in nearshore and inland waters. *Backscatter*, 13(1).
- Ramsey, E., III, D. Echols, G. Nelson, and S. Sapkota, 2002. The National Vegetation Classification Standard applied to the remote sensing classification of two semiarid environments. *Environmental Management*, 29(5), 703-715.
- Ramsey, E., III, S. Sapkota, F. Barnes, and G. Nelson, 2002. Monitoring the recovery of *Juncus roemerianus* marsh burns with the normalized vegetation index and Landsat Thematic Mapper data. *Wetlands Ecology and Management*, 10(1), 85-96.
- Ramsey, E., III, G. Nelson, S. Sapkota, E. Seeger, and K. Martella, 2002. Mapping Chinese tallow with color-infrared photography. *Photogrammetric Engineering and Remote Sensing*, 68(3), 251-255.

- Ramsey, E., III, G. Nelson, Y. Yan, and S. Sapkota, 2001. Linking hydrology to vegetation type and structure in a coastal Florida marsh. *Remote Sensing & Resource Management in Nearshore and Inland Waters*, Alliance for Marine Remote Sensing (AMRS), <u>http://www.waterobserver.org/workshop-10-2001/abstract/application-04.asp</u>.
- Ramsey, E., III, G. Nelson, and S. Sapkota, 2001. Mapping the Occurrence and Spread of Marsh Dieback by Characterizing the Marsh Spectral Response at the Plant and Canopy Level with Hyperspectral and Temporal Remote Sensing Data, The Washington College of Law at the American University Publishers, Washington, DC, <u>http://www.earthpace.com/conference/confsumindex.htm</u>.
- Ramsey, E., III, M. Hodgson, S. Sapkota, and G. Nelson, 2001. Forest impact estimated with NOAA AVHRR and Landsat TM data related to an empirical hurricane wind field distribution. *Remote Sensing of Environment*, 77(3), 279-292.
- Ramsey, E., III, G. Nelson, and S. Sapkota, 2001. Coastal Change Analysis Program implemented in Louisiana. *Journal of Coastal Research*, 17(1), 55-71.
- Ramsey, E., III and M. Strong, 2000. Conveying multiple, complex themes and classes for natural resource assessments. *Geocarto International*, 15(2) 29-35.
- Kutuza, B., A. Shutko, V. Pliushchev, <u>E. Ramsey, III</u>, B. Logan, S. DeLoach, A. Haldin, E. Novichikhin, I. Sidorov, V. Manakov, and G. Nelson, 2000. Advantages of Synchronous Multi-Spectral SAR and Microwave Radiometric Observations of Land Covers from Aircraft Platforms, *EUSAR'2000*, 3rd European Conference on Synthetic Aperture Radar, pp. 663-666, 23-25 May 2000, Munich, Germany.
- Ramsey, E. W., III, G. Nelson, S. Sapkota, S. Laine, J. Verdi, and S. Krasznay, 1999. Using multiple polarization L band radar to monitor marsh burn recovery. *IEEE Transactions on Geoscience and Remote Sensing*, 37(1) 635-639.
- Ramsey, E., III, 1998. Radar remote sensing of wetlands. Pages 211-243 in R. Lunetta and C. Elvidge, editors. *Remote Sensing Change Detection: Environmental Monitoring Methods and Applications*. Ann Arbor Press, Inc., Michigan.
- Ramsey, E., III, D. Chappell, D. Jacobs, S. Sapkota, and D. Baldwin, 1998. Resource management of forested wetlands: Hurricane impact and recovery mapped by combining Landsat TM and NOAA AVHRR data. *Photogrammetric Engineering and Remote Sensing*, 64(7) 733-738.
- Ramsey, E., III, G. Nelson, and S. Sapkota, 1998. Classifying coastal resources by integrating optical and radar imagery and color infrared photography. *Mangroves and Salt Marshes*, 2(2) 109-119.
- Ramsey, E., III, G. Nelson, S. Laine, W. Topham, and R. Kirkman, 1998. Generation of coastal marsh topography with radar and ground-based measurements. *Journal of Coastal Research*, 14(3), 1158-1164.
- Ramsey, E., III, S. Laine, G. Nelson, S. Sapkota, M. Strong, J. Wooderson, R. Day, R. Spell, D. Chappell, T. Stoute, R. Kirkman, and M. Books, 1998. Identifying wetland zonation and inundation extent by using satellite remote sensing and ground-based measurements. Pages 85-94 in G. Guntenspergen and B. Vairin, editors. *Vulnerability of coastal wetlands in the Southeastern United States: climate change research results*. U.S. Geological Survey, Biological Resources Division Biological Science Report USGS/BRD/BSR--1998-0002.
- Ramsey, E., III, D. Chappell, S. Laine, G. Nelson, S. Sapkota, and T. Stoute, 1997. Identification of wetland zonation and inundation extent by using satellite remote sensing and ground-based measurements. Volume I, pages 498-501 in Proceedings of the Fourth International Conference on Remote Sensing for Marine and Coastal Environments, Orlando, Florida, 17-19 March 1997. Environmental Research Institute of Michigan, Ann Arbor, Michigan.
- Shutko, A., A. Haldin, E. Novichikhin, G. Yazerian, G. Chukhray, E. Vorobeichik, V. Agura, S. Kalashnik, V. Sarkisjants, N. Sklonnaja, B. Logan, and E. Ramsey III, 1997. Application of microwave radiometers for wetlands and esturies monitoring. Volume I, pages 553-561 in Proceedings of the Fourth International Conference on Remote Sensing for Marine and Coastal Environments, 17-19 March 1997. Environmental Research Institute of Michigan, Ann Arbor, Michigan.
- Ramsey, E., III, D. Chappell, and D. Baldwin, 1997. AVHRR imagery used to identify Hurricane Andrew damage in a forested wetland of Louisiana. *Photogrammetric Engineering and Remote Sensing*, 63(2), 293-297.
- Ramsey, E., III and S. Laine, 1997. Comparison of Landsat Thematic Mapper and high resolution photography to identify change in complex coastal marshes. *Journal of Coastal Research*, 13(2), 281-292.
- Ramsey, E., III, 1996. Wetlands, global climate change, and remote sensing. Pages 73-75 in S. Hassol, ed. Elements of Change, 1995. Aspen Global Change Institute, Aspen, Colorado.
- Ramsey, E., III and J. Jensen, 1996. Remote sensing of mangroves: relating canopy spectra to site-specific data. *Photogrammetric Engineering and Remote Sensing*, 62(8), 939-948.
- Ramsey, E., III, 1995. Monitoring flooding in coastal wetlands by using radar imagery and ground-based measurements. *International Journal of Remote Sensing* 16:2495-2502.
- Ramsey, E., III and J. Jensen, 1995. Modeling mangrove canopy reflectance using a light interaction model and an optimization technique. Pages 61-81 in J. Lyon and J. McCarthy, eds. Wetland and Environmental Applications of GIS. CRC Press, Inc., Boca Raton, Florida.
- Ramsey, E., III, R. Spell, and R. Day, 1994. GIS and remote sensing as wetland resource management tools: the fire monitoring example. Pages 133-145 in M. Ehlers, D. Steiner, and J. Johnston, eds. *Proceedings of an International Workshop on Requirements for Integrated Geographic Information Systems*, 2-3 February 1994, New Orleans, Louisiana. Environmental Research Institute of Michigan, Ann Arbor, Michigan.
- Ramsey, E., III and S. Hartley, 1994. National Wetlands Research Center uses visual true color classification in waterfowl habitat mapping. *Earth Observation Magazine*, February, 1994, pp. 28-30.

- Ramsey, E., III, S. Laine, D. Werle, B. Tittley, and D. Lapp, 1994. Monitoring Hurricane Andrew damage and recovery of the coastal Louisiana marsh using satellite remote sensing data. Pages 1841-1852 in P. Wells, P. Ricketts, eds. Proceedings of the Coastal Zone Canada '94.
- Tanis, F., L. Bourgeau-Chavez, E. Ramsey, III, and R. Day, 1994. Demonstration of ERS-1 synthetic aperture radar for assessment of coastal wetlands. Volume II, Pages 527-528 in Proceedings of the Second Thematic Conference on Remote Sensing for Marine and Coastal Environments, 31 January - 2 February 1994, New Orleans, Louisiana. Environmental Research Institute of Michigan, Ann Arbor, Michigan.
- Spell, R., and E. Ramsey III, 1993. Spectral reflectance and canopy structure characteristics of gulf coast wetland vegetation types. Pages 353-363 in Technical Papers of the 1993 CSM-ASPRS Annual Convention and Exposition, 15-18 February 1993, New Orleans, Louisiana.
- Ramsey, E., III, R. Spell, and R. Day. 1993. Measuring and monitoring wetland response to acute stress by using remote sensing techniques. Volume 2, pages 43-54 in Proceedings of the 25th International Symposium on Remote Sensing and Global Environmental Change: Tools for Sustainable Development, 4-8 April 1993, Graz, Austria. Environmental Research Institute of Michigan, Ann Arbor.
- Ramsey, E., III, J. Jensen, H. Mackey, and J. Gladden, 1992. Remote sensing of water quality in active to inactive cooling water reservoirs. *International Journal of Remote Sensing* 13 (18): 3465-3488.
- Ramsey, E., III, R. Spell, and R. Day, 1992. Monitoring Recovery of Coastal Wetlands from Acute Stress by Using High Spectral Resolution Remote Sensing Data. First Thematic Conference on Remote Sensing for Marine and Coastal Environments: Summaries. Environmental Research Institute of Michigan, Ann Arbor, Michigan.
- Ramsey, E., III, R. Spell, and R. Day, 1992. Light attenuation and canopy reflectance as discriminators of gulf coast wetland types. Volume II, pages 1176-1189 in Proceedings of the International Symposium on Spectral Sensing Research, 15-20 November 1992, Maui, Hawaii.
- Ramsey, E., III, R. Spell, and J. Johnston, 1992. Preliminary analysis of spectral data collected for the purpose of wetland discrimination. Volume 1, pages 386-394 in ASPRS (American Society for Photogrammetry and Remote Sensing) Technical Papers, 1992 ASPRS- ACSM (American Congress on Surveying and Mapping) Annual Convention, Albuquerque, New Mexico.
- Ramsey, E., III and C. Johnson, 1992. Multiple temporal and spatial remote sensing data as inputs into a landcover resource geographic information system. Volume 1, pages 395-403 in ASPRS (American Society for Photogrammetry and Remote Sensing) Technical Papers, 1992 ASPRS-ACSM (American Congress on Surveying and Mapping) Annual Convention, Albuquerque, New Mexico.
- Day, R. and <u>E. Ramsey III</u>, 1992. Canopy structure and spectral differentiation of wetland vegetation types in St. Marks National Wildlife Refuge, Florida. Pages 279-286 in ASPRS/ACSM/RT 92 Technical Papers 3-8 August1992, Washington, DC.
- Spell, R. and E. Ramsey III, 1991. Monitoring marsh burns using remote sensing technology. Pages 51-55 in Proceedings of the Second National U.S. Fish and Wildlife Service Geographic Information Systems Workshop. National Ecology Research Center, Fort Collins, Colorado.
- Ramsey, E., III and J. Jensen, 1991. Remote Sensing of Water Quality. Volume 3, pages 363-372 in Technical papers of the 1991 American Congress of Surveying and Mapping-American Society for Photogrammetry and Remote Sensing Annual Convention, Baltimore, Maryland.
- Ramsey, E., III, C. Medeiros, B. Kjerfve, J. Jensen, and K. Magill, 1991. Site-specific reflectance spectra related to water parameters within optically complex lagoon waters. Pages 169-179 in D. Dhamotharan, H. McWreath, and A. Johnson, eds. American Water Resources Association Technical Publication Series, TPS-91-3.
- Ramsey, E., III, R. Spell, and J. Johnston, 1991. Spatial analysis at the National Wetlands Research Center: a research topic and laboratory design overview. Pages 71-87 in Proceedings of the Second National U.S. Fish and Wildlife Service Geographic Information Systems Workshop. U.S. Fish and Wildlife Service, National Ecology Research Center, Fort Collins, Colorado.
- Jensen, J., H. Lin, X. Yang, <u>E. Ramsey III</u>, B. Davis, and C. Thoemke, 1991. The measurement of mangrove characteristics in southwest Florida using SPOT multispectral data. *Geocarto International* 2:13-21.
- Ramsey, E., III and J. Jensen, 1990. The derivation of water volume reflectances from airborne MSS data using *in situ* water volume reflectances and a combined optimization technique and radiative transfer model. *International Journal of Remote Sensing* 11(6):979-998.
- Jensen, J., <u>E. Ramsey III</u>, J. Holmes, J. Michel, B. Savitsky, and B. Davis, 1990. Environmental sensitivity index (ESI) mapping for oil spills using remote sensing and geographic information system technology. *International Journal of Geographical Information Systems* 4(2):181-201.
- Jensen, J., B. Kjerfve, <u>E. Ramsey III</u>, K. Magill, C. Medeiros, and J. Sneed, 1989. Remote sensing and numerical modeling of suspended sediment in Laguna de Terminos, Campeche, Mexico. *Remote Sensing Environment* 28:33-44.
- Jensen, J., E. Ramsey III, and H. Mackey, M. Hodgson, 1988. Thermal modeling of heat dissipation in the Pen Branch using thermal infrared imagery. *Geocarto International* 3(4):17-28.
- Christensen, E., J. Jensen, <u>E. Ramsey III</u>, and H. Mackey, 1988. Aircraft MSS data registration and vegetation classification of wetland change detection. *International Journal of Remote Sensing*, 9(1), 23-38.
- Jensen, J., <u>E. Ramsey III</u>, H. Mackey, E. Christensen, and R. Sharitz, 1987. Inland wetland change detection using aircraft MSS data. *Photogrammetric Engineering and Remote Sensing* 53(5):521-529.
- Christensen, E., J. Jensen, E. Ramsey III, H. Mackey, 1986. Wetland vegetation change detection using high resolution aircraft MSS data. Pages 148-162 in 1986 ASPRS-ACMS Fall Convention, 28 September - 3 October, Anchorage, Alaska. ASPRS Technical Papers

TECHNICAL REPORTS

- Ramsey III, E., A. Rangoonwala, and G. Nelson, 2005. Oak Decline and spectral indicators –Interim report (April 12 -14, 2005) to Mid continental mapping center (MCMC), Rolla, Missouri.
- Ramsey III, E., A. Rangoonwala, G. Nelson, 2005. Field data analysis in support of the PHILLS flight hyperspectral data Phase 1. Interm report (April 04, 2005). Submitted to the Naval National Research Laboratory.
- Ramsey III, E., A. Rangoonwala, G. Nelson, 2005. Mapping vegetation of Natchez Trace Parkway and Vicksburg National Military Park. Interim report (January 25, 2005) to National Park Services (NPS) under Intra-Agency Agreement No. 14431A53200000
- Ramsey, E., III, G. Nelson, and Y. Yan, 2004. Palo Alto Battlefield National Historic Site Landscape Classification and Historic Analysis. U.S. Geological Survey, Biological Resources Division, Biological Science Report Number not yet assigned. Available in CD-ROM.
- Ramsey III, E., Z. Lu, G. Nelson, F. Baarnes, M. Hakobyan, Oh-ig Kwoun, A. Rangoonwala, and S. Sapkota, 2004. Imaging Radar applied to characterizing vegetation type and structure and detecting and monitoring flood frequency and depth in coastal ecosystems. Venture Capital Report, 47p.
- Ramsey III, E., 2004. Landscape Change Detection Breakout Group. National Park Service Technical Report of the Landscape Monitoring Workshop held in Ft. Collins, Colorado on 27-28 January, 2004. Editor, John E. Gross.
- Ramsey III, E., A. Rangoonwala, G. Nelson, and D. Cartner, 2003. Characterizing the Brown Marsh Spectral Response at the plant and Canopy Level with Hyperspectral and Temporal Remote Sensing Data. Report to G. Grandy, Coastal Restoration Division, Louisiana Department of Natural Resources, Baton Rouge, Louisiana under DNR Interagency Agreement No. 2515-01-11. 8p.
- Ramsey III, E., and P. Kandus, 2003. Advancing the mapping and monitoring of coastal ecosystems with hyperspectral remote sensing data. Report to the Women's International Science Collaboration (WISC) Program a program funded by the National Science Foundation (NSF). 4p.
- Ramsey III, E., G. Nelson, A. Rangoonwala, and K. Martella, 2003. *Rapid assessment of vegetation type and status with hyperspectral remote sensing technologies*. Final report fulfilling the Cooperative Research and Development Agreement between the United States Geological Survey and the ChevronTexaco Research and Technology Company. 33p.
- Ramsey III, E., G. Nelson, A. Rangoonwala, and R. Ehrlich, 2003. Mapping the invasive species Chinese Tallow. *Report* to the NASA-USGS Earth Observing-1 Mission Instrument Performance Evaluation and Data Validation Program, Goddard Space Flight Center, Washington D.C.
- Ramsey, E., III, G. Nelson, S. Sapkota, W. Phillips, and S. Laine, 2001. Landcover classification of Padre Island National Seashore. U.S. Geological Survey, Biological Resources Division, Biological Science Report USGS/BRD/BSR-2001-0002. Available in CD-ROM.
- Ramsey, E., III, G. Nelson, S. Sapkota, and M. Strong, 2001. Landcover classification of Lake Meredith National Recreation Area. U.S. Geological Survey, Biological Resources Division, Biological Science Report USGS/BRD/BSR--2001-0003. Available in CD-ROM.
- Ramsey, E., III, 2000. Hyperspectral Imaging. Pages 13-14 in L. Handley, F. D'Erchia, and T. Charron, editors. *Extended abstracts form BioGeo99: Applications of Geospatial Technology to Biological Sciences*, U.S. Geological Survey, Biological Resources Division, Information and Technology Report USGS/BRD/ITR-2000-0008.
- Ramsey E., III, G. Nelson, S. Sapkota, K. Martella, 2000. Hyperspectral mapping and monitoring of natural resources in and immediately surrounding Chevron facilities and land holdings. Interim report of the Cooperative Research and Development Agreement between the United States Geological Survey and the ChevronTexaco Research and Technology Company. 14p.
- Ramsey, E., III, G. Nelson, S. Sapkota, D. Emmons, 2000. Coastal Change Analysis Implemented in Louisiana. Page 33 in L. Handley, F. D'Erchia, and T. Charron, editors. *Extended abstracts form BioGeo99: Applications of Geospatial Technology to Biological Sciences*, U.S. Geological Survey, Biological Resources Division, Information and Technology Report USGS/BRD/ITR-2000-0008.
- Ramsey, E., III, G. Nelson, S. Sapkota, and K. Martella, 2000. Hyperspectral Mapping and Monitoring of Natural Resources in and Immediately Surrounding Chevron Facilities and Land Holdings. U.S. Geological Survey, National Wetlands Research Center.
- Ramsey, E., III and S. Laine, 1998. Coastal change analysis program (C-CAP): Changes in landcover in Mermentau River Basin, Louisiana 1990-1996. National Wetlands Research Center, U.S. Geological Survey, U.S. Department of the Interior. Final Project Report, August 1998.
- Ramsey, E., III and S. Laine, 1998. Landcover classification for Padre Island National Seashore. National Wetlands Research Center, U.S. Geological Survey, U.S. Department of Interior. Final Project Report, April 1998.
- Ramsey, E., III, 1997. Dynamic flood monitoring in coastal environments. Pages 27-38 in O. Huh, ed. Natural Coastal Environmental Hazards: Report of a Workshop held at Louisiana State University, February 22-23, 1996. Coastal Studies Institute Technical Report TR-654.
- Ramsey, E., III, 1997. Using remote sensing to monitor global change. U.S. Department of the Interior, U.S. Geological Survey, USGS FS-0096-97. 2 pp. http://www.nwrc.gov/climate/fs96_97.pdf.
- Ramsey, E., III, 1995. SAR101: radar eyes in the sky. D. Werle, ed. CD-ROM available from AERDE Environmental Research, Halifax, Nova Scotia, e-mail: dwerle@fox.nstn.ns.ca.

- Meadows, M., and <u>E. Ramsey III</u>. 1991. South Carolina regional synthetic unit hydrograph study: methodology and results. Project Completion Report to the U.S. Geological Survey. 33 pp.
- Davis, B., J. Jensen, <u>E. Ramsey III</u>, and J. Michel, 1990. Enhanced environmental sensitivity index mapping using remote sensing and geographic information system technology. Pages 59-60 in S. Kiraly, F. Cross, and J. Buffington, eds. Federal coastal wetland mapping programs: a report by the National Ocean Pollution Policy Board's Habitat Loss and Modification Working Group. U.S. Fish and Wildlife Service Biological Report 90(18).
- Jensen, J., <u>E. Ramsey III</u>, and H. Mackey, 1987. Thermal modeling of the Four Mile Creek delta using April 6, 1984 daytime thermal infrared imagery. Prepared for the U.S. Department of Energy under contract DE-AC09-76SR00001. 28 pp.

PRESENTATIONS AND PUBLISHED ABSTRACTS

- Ramsey E., III and A. Rangoonwala, 2006. Remote sensing methods for mapping *Spartina Alterniflora* marsh dieback onset and progression along coastal Louisiana, ASPRS Conference, Prospecting for Geospatial Information Integration, 1-5 May 2006 Reno, Nevada.
- Rangoonwala, A., E. Ramsey III, and G. Nelson, 2005. Remote sensing methods for mapping the onset and progression of Spartina alterniflora marsh dieback in coastal Louisiana. Third International Workshop on the Analysis of Multitemporal Remote Sensing Images, Biloxi, Mississippi, 16-18 May 2005.
- Nelson, G., E. Ramsey III, and A. Rangoonwala, 2005. Mapping and improving frequency, accuracy, and interpretation of land cover change: classifying coastal Louisiana with 1990, 1993, 1996, and 1999 Landsat Thematic Mapper image data. Third International Workshop on the Analysis of Multi-temporal Remote Sensing Images, Biloxi, Mississippi, 16-18 May 2005.
- Ramsey, E., III, G. Nelson, F. Baarnes, A. Rangoonwala, M. Hakobyan, S. Sapkota, Z. Lu, and O. Kwoun, 2005. VNIR to SWIR and Microwave image data applied to mapping and monitoring coastal wetland landscapes. 8th International Conference on Remote Sensing for Marine and Coastal Remote Sensing, Halifax, Nova Scotia, Canada, 17-19 May 2005.
- Nelson, G., E. Ramsey III, and A. Rangoonwala, 2005. Mapping and improving land cover change frequency, accuracy, and interpretation; classifying coastal Louisiana with 1990, 1993, 1996, and 1999 Landsat Thematic Mapper image data. 8th International Conference on Remote Sensing for Marine and Coastal Remote Sensing, Halifax, Nova Scotia, Canada, 17-19 May 2005.
- Rangoonwala, A., <u>E. Ramsey III</u>, and G. Nelson, 2005. Remote sensing methods for mapping spartina alterniflora marsh dieback onset and progression along coastal Louisisana. 8th International Conference on Remote Sensing for Marine and Coastal Remote Sensing, Halifax, Nova Scotia, Canada, 17-19 May 2005.
- Bachmann Charles, T. Ainsworth, R. Fusina, T. Donato, J. Bowles, D. Korwan, E.Ramsey, A. Rangoonwala, G. Nelson Using hyperspectral imagery to link land cover models and biophysical parameter estimates: A case study in the Virginia coast reserve. 8th International Conference on Remote Sensing for Marine and Coastal Remote Sensing, Halifax, Nova Scotia, Canada, 17-19 May 2005.
- Ramsey, E., III, A. Rangoonwala, and G. Nelson, 2005. Oak Decline and spectral indicators Mid Continental Mapping Center (MCMC), Rolla, Missouirri, April 12 -14, 2005.
- Ramsey III, E., A. Rangoonwala, G. Nelson, 2005. Mapping vegetation of Natchez Trace Parkway and Vicksburg National Military Park. National Park Services (NPS) Vital Signs Meeting April 05, 2005.
- Nelson, G., <u>E</u>. Ramsey III and Y.Yan, 2005. Historical Analysis of the Palo Alto Battlefield Vegetation Landscape from 1934 2000, PAAL visitors center, Brownsville, Texsas, 12-13 March, 2005
- Ramsey, E., III, and G. Nelson, 2004. Mapping and Monitoring Natural Resources and the forces that modify them. SWAAG-ASPRS Conference held in Nacogdoches, Texas on 10-13 November 2004.
- Nelson, G., and E. Ramsey III, 2004. Historical Analysis of the Palo Alto Battlefield Vegetation Landscape from 1934 2000. SWAAG-ASPRS Conference held in Nacogdoches, Texas on 10-13 November 2004
- Rangoonwala, A., E. Ramsey III, and G. Nelson, 2004. Mapping the invasive species, Chinese tallow with the NASA EO1 satellite Hyperion hyperspectral sensor. SWAAG-ASPRS Conference held in Nacogdoches, Texas on 10-13 November 2004
- Ramsey, E., III, A. Rangoonwala, and G. Nelson, 2004. Regional mapping of subtle changes in vegetation condition and canopy composition with analysis of hyperspectral data. USGS-DoD Environmental Program Conference held in Biloxi, Mississippi on 4-6 May 2004.
- Ramsey, E., III, A. Rangoonwala, and G. Nelson, 2004. Oak decline and spectral indicators. Held at the Mid Continent Mapping Center in Rolla, Missouri on May 12, 2004.
- Ramsey, E., III, 2004. Invited presentation of the review on the ten year strategy to define, organize, manage, and grow the scientific activities of the Geography Discipline as part of the Science Planning Team. Held in Reston, Virginia on May 14, 2004.
- Nelson, G., and <u>E. Ramsey III</u>, 2004. Historical Analysis of the Palo Alto Battlefield Vegetation Landscape from 1934 2000, 20th Annual Louisiana Remote Sensing and GIS Workshop, Apr. 20-22, Lafayette, LA.
- Rangoonwala, A., <u>E</u>. Ramsey III, and G. Nelson, 2004. Mapping the Onset and Progression of Dieback in *Spartina alternaflora* along Coastal Louisiana with Hyperspectral Remote Sensing Methods, 20th Annual Louisiana Remote Sensing and GIS Workshop, April 20-22, Lafayette, LA.
- Ramsey, E., III, Amina Rangoonwala, and Gene Nelson. Oak decline and remote sensing. Presentation at the USGS, Mid Continent Mapping Center in Rolla, Missouri on 4 March 2004.

- Ramsey, E., III, Gene Nelson, and Amina Rangoonwala. Defining landscape change with remote sensing. Presentation to the Remote Sensing Graduate Class at the Department of Geography and Anthropology and Institute of Coastal Studies, Louisiana State University, Baton Rouge, Louisiana on 19 February 2004.
- Ramsey, E., III, 2004. Hyperspectral mapping of invasive plants. Presentation to the Red River Watersed Institute and the Department of Geology and Environmental Sciences at Louisiana State University at Shreveport 4 February 2004.
- Ramsey, E., III, and G. Nelson, 2003. Remote sensing mapping of National Park Service lands. Briefing to the Gulf Coasts Networks annual board of Directors in New Orleans, Louisiana on 29 October 2003.
- Ramsey, E., III, G. Nelson, J. Johnston, A. Rangoonwala, and R. Ehrlich, 2003. Hyperspectral mapping of invasive species. NASA Headquarters, Washington D. C., 6 October 2003.
- Nelson, G, <u>E. Ramsey III</u>, A. Rangoonwala, and R. Ehrlich, 2003. Mapping the invasive species Chinese tallow. Alliance for Marine Remote Sensing (AMRS) conference, New Orleans, Louisiana on 4 – 6 June 2003.
- Rangoonwala, A., <u>E. Ramsey III</u>, G. Nelson, 2003. Hyperspectral remote sensing methods for studying the occurrence of dieback in Spartina Alterniflora along coastal Louisiana, Alliance for Marine Remote Sensing (AMRS) conference, New Orleans, Louisiana on 4 – 6 June 2003.
- Ramsey, E., III, G. Nelson, and Rangoonwala, A., 2003. Mapping Louisiana landscape trends from 1990 to 1996. Department of Geography and Anthropology and Institute of Coastal Studies, Louisiana State University, Baton Rouge, Louisiana on 28 March 2003.
- Ramsey, E., III, A. Rangoonwala, J. Johnston, G. Nelson, and R. Ehrlich, 2003. Hyperspectral mapping of invasive species. Departmento de Ciencias Biológicas y Laboratorio de Ecología Ambiental y Regional. Ciudad Universitaria, Pab II, 4º Piso (1428). Buenos Aires, ARGENTINA.
- Ramsey, E., III, G. Nelson, and A. Rangoonwala, 2003. Landsat Thematic Mapper data used to map trends in the Louisiana coastal wetland and adjacent upland landscapes; improving accuracy and interpretation of change. In, Conference on Spectral Remote Sensing of Vegetation held in Las Vegas, Nevada on 12-14 March 2003.
- Ramsey III, E., A. Rangoonwala, G. Nelson, and D. Cartner, 2003. Characterizing the Brown Marsh Spectral Response at the plant and Canopy Level with Hyperspectral and Temporal Remote Sensing Data. Marsh Dieback Workshop held in Baton Rouge, Louisiana at the LSU School of Coast and Environment Auditorium on 15-16 January 2004.
- Ramsey III, E., G. Nelson, A. Rangoonwala, and R. Ehrlich, 2002. Mapping the invasive species Chinese Tallow, NASA EO1 Science Validation Team results and review at the Goddard Space Flight Center, Washington D.C. on 23-26 April 2002,
- Ramsey, E., III, G. Nelson, and A. Rangoonwala, 2002. Mapping and monitoring natural resources and the forces that modify them at the USGS Mid Continent Mapping Center on July 2002.
- Nelson, G., and E. Ramsey III, James Johnston, 2003. Coastal Louisiana: 1990, 1993, 1996, 1999, improving landscape classification and change detection. Louisiana Remote Sensing and GIS workshop in Lafayette, Louisiana held on 29 April - 1 May, 2003.
- Rangoonwala, A., E. Ramsey III, and G. Nelson, 2003. NASA satellite EO1 Hyperion hyperspectral data applied to mapping the invasive species, Chinese tallow. Louisiana Remote Sensing and GIS workshop in Lafayette, Louisiana held on 29 April - 1 May, 2003.
- Ramsey, E., III, G. Nelson, and A. Rangoonwala, 2003. Mapping Louisiana landscape trends from 1990 to 1996. Department of Geography and Anthropology and Institute of Coastal Studies, Louisiana State University, Baton Rouge, Louisiana on 28 March 2003.
- Ramsey, E., III, G. Nelson, and A. Rangoonwala, 2003. Landsat Thematic Mapper data used to map trends in the Louisiana coastal wetland and adjacent upland landscapes; improving accuracy and interpretation of change. In, Conference on Spectral Remote Sensing of Vegetation held in Las Vegas, Nevada on 12-14 March 2003.
- Ramsey, E., III, G. Nelson, A. Rangoonwala, and R. Ehrlich, 2002. *Mapping the invasive species Chinese Tallow*, NASA EO1 Science Validation Team results and review at the Goddard Space Flight Center, Washington D.C. on 23-26 April 2002.
- Ramsey, E., III, G. Nelson, and A. Rangoonwala, 2002. Mapping and monitoring natural resources and the forces that modify them at the USGS Mid Continent Mapping Center on July 2002.
- Ramsey, E., III, G. Nelson, D. Echols, and S. Sapkota, 2002. The National Vegetation Classification Standard applied to the remote sensing classification of two semiarid environments. 52nd Annual Convention, 30 October - 1 November, Austin, Texas (Gulf Association of Geologists).
- Nelson, G<u>, Ramsey, E., III</u>, S. Sapkota, 2002. Coastal Change Analysis Program implemented in Louisiana. 52nd Annual Convention, 30 October - 1 November, Austin, Texas (Gulf Association of Geologists).
- Nelson, G., and Ramsey, E., III, 2002. Applying microwave systems to classifying vegetation type and structure in coastal wetlands. Seventh International Converence on Remote Sensing for Marine and Coastal Environments, 20-22 May 2002, Miami, Florida.
- Ramsey, E., III, 2002. NASA EO1 Science Validation Team results and review. Mapping the invasive species Chinese Tallow 23-26 April 2002, Goddard Space Flight Center, Washington D.C.
- Ramsey, E., III, 2002. Multiple Year Classifications and Land Cover in Coastal Louisiana and Mapping and Monitoring Flooding in a Coastal Florida Marsh *in The University of Mississippi Geoinformatics Center (UMGC)*, 11 April 2002, Oxford, Mississippi.
- Ramsey, E., III and J. Iiames, 2001. Reference Data Collection Methods and Quality Control: Examples in Upland and Wetland Forests and Coastal Marshes in *Remote Sensing and GIS Accuracy Assessment Symposium*, 11-13 December 2001, Las Vegas, Nevada.

- Ramsey, E., III, 2001. From Leaf Reflectance to Satellite Remote Sensing of Vegetation, *in Louisiana State University Department of Geography & Anthropology*, 4 December 2001, Baton Rouge, Louisiana.
- Ramsey, E., III, G. Nelson, Y. Yan, and S. Sapkota, 2001. Linking Hydrology to Vegetation Type and Structure in a Coastal Florida Marsh in *AMRS Workshop on Remote Sensing and Resource Management in Nearshore and Inland Waters*, 22-24 October 2001, Wolfville, Nova Scotia, Canada.
- Ramsey, E., III and J. Jensen, 2001. Remote Sensing Reflectance and Water Quality in Water Cooling Reservoirs in AMRS Workshop on Remote Sensing and Resource Management in Nearshore and Inland Waters, 22-24 October, Wolfville, Nova Scotia, Canada.
- Nelson, G., <u>E. Ramsey III</u>, K. Martella and S. Sapkota, 2001. Mapping the Occurrence and Spread of Marsh Dieback by Characterizing the Marsh Spectral Response at the Plant and Canopy Level with Hyperspectral and Temporal Remote Sensing Data in the 17th Annual Remote Sensing and GIS Workshop. 2-4 April 2001, Baton Rouge, Louisiana.
- Martella, K., <u>E. Ramsey III</u>, G. Nelson and S. Sapkota, 2001. Feats and Follies of Mapping the Invasive Species Chinese Tallow in the 17th Annual Remote Sensing and GIS Workshop. 2-4 April 2001, Baton Rouge, Louisiana.
- Yan, Y., E. Ramsey III and G. Nelson, 2001. Photo Visualization of the Palo Alto Battlefield Vegetation Landscape from 1939 to 2000 in the 17th Annual Remote Sensing and GIS Workshop. 2-4 April 2001, Baton Rouge, Louisiana.
- Nelson, G., <u>E. Ramsey III</u>, S. Sapkota, K. Martella and A. Rangoonwala, 2001. Characterizing the Brown Marsh Spectral Response at the Plant and Canopy Levels with Hyperspectral and Temporal Remote Sensing Data in the 17th Annual Remote Sensing and GIS Workshop. 2-4 April 2001, Baton Rouge, Louisiana.
- Ramsey, E., III, G. Nelson, S. Sapkota, 2001. Mapping and Monitoring Coastal Resources and the Forces that Modify Them in *Environmental Protection Agency's Workshop Seminar*. 13-15 February 2001, Durham, North Carolina.
- Ramsey, E., III, G. Nelson, S. Sapkota, 2001. Mapping the Occurrence and Spread of Marsh Dieback by Characterizing the Marsh Spectral Response at the Plant and Canopy Level with Hyperspectral and Temporal Remote Sensing Data in A View from Space: Digital Earth Applications in Environmental Law and Resource Management Conference, 26 January2001, Washington, DC.
- Ramsey, E., III, G. Nelson, S. Sapkota, K. Martella, and A. Ragoonwala, 2001. Characterizing the Brown Marsh Spectral Response at the Plant and Canopy Level with Hyperspectral and Temporal Remote Sensing Data in the Conference on Coastal Marsh Dieback in the Northern Gulf of Mexico: Extent, Causes, Consequences, and Remedies, 11-12 January 2001, Baton Rouge, Louisiana.
- Ramsey, E., III, G. Nelson, K. Martella, 2000. Application of Remote Sensing Techniques to Evaluate Water Quality in Coastal Wetlands in U.S. Geological Survey's Conference on Water Quality, 5-8 December 2000, New Orleans, Louisiana.
- Ramsey, E., III, 2000. Mapping the Occurrence of Invasive Species-Chinese Tallow in Southern Louisiana with Hyperspectral and Temporal Remote Sensing Data, *A Briefing to the USGS Directorate Extended Leadership Team (ELT)*, 11 July 2000, Washington, DC.
- Ramsey, E., III, G. Nelson, S. Sapkota, 2000. Mapping and Monitoring Coastal Resources and the Forces that Modify Them in *National Wetlands Research and Applied Science Meeting*, 19-20 April 2000, Lafayette, Louisiana.
- Ramsey, E., III, 1999. Hyperspectral Imaging, *BioGeo99: Applications of Geospatial Technology to Biological Sciences*, 2-4 November 1999, Lafayette, Louisiana.
- Ramsey, E., III, G. Nelson, S. Sapkota, D. Emmons, 1999. Coastal Change Analysis Implemented in Louisiana. *BioGeo99: Applications of Geospatial Technology to Biological Sciences*, 2-4 November 1999, Lafayette, Louisiana.
- Ramsey, E., III, 1998. Coastal Processes and Remote Sensing, *Baton Rouge Biological Society*. Baton Rouge, Louisiana.
- Ramsey, E., III, 1998. Remote Sensing in the Coastal Landscape, Society of Independent Earth Scientists.
- Ramsey, E., III, 1997. Identification of Wetland Zonation and Inundation Extent by Using Satellite Remote Sensing and Ground-Based Measurements in the *Fourth International Conference on Remote Sensing for Marine and Coastal Environments*, 17-19 March, Orlando, Florida.
- Ramsey, E., III, 1996. Overview of Remote Sensing Section (NWRC) Coastal Change and Analysis Program (C-CAP) Data Development, Products, and Other Project Related Details to Annual C-CAP Meeting.
- Ramsey, E., III, 1996. Dynamic Flood Monitoring in Coastal Environments, *Natural Coastal EnvironmentalHazards Workshop*, 22-23 February 1996, Louisiana State University, Baton Rouge, Louisiana.
- Ramsey, E., III, 1995. Wetlands, Global Climate Change, and Remote Sensing, *Workshop Elements of Change*, 19-22 July 1995, Aspen Global Change Institute, Aspen, Colorado.
- Ramsey, E., III, 1995. Global Change and Sea Level Change Impacts on Coastal Wetlands, Global Change Research Using Remote Sensor Technologies, Glen Arbor, Michigan.
- Ramsey, E., III, 1994. Monitoring Hurricane Andrew Damage and Recovery of the Coastal Louisiana Marsh Using Satellite Remote Sensing Data, Coastal Zone Canada '94, Cooperation in the Coastal Zone, Halifax, N.S., Canada.
- Ramsey, E., III, R. Spell, and R. Day, 1994. GIS and Remote Sensing as Wetland Resource Management Tools: The fire monitoring example. Workshop on the Requirements for Integrated Geographic Information Systems, 2-3 February 1994, New Orleans, Louisiana.
- Ramsey, E., III, 1993. Measuring and Monitoring the Wetland Response to Acute Stress by Using Remote Sensing Techniques, 4-8 April 1993, *The 25th International Symposium on Remote Sensing and Global Environmental Change*, Graz, Austria.

- Ramsey, E., III, 1992. Light Attenuation and Canopy Reflectance as Discriminators of Gulf Coast Wetland Types, *The International Symposium on Spectral Sensing Research*, 15-20 November 1992, Maui, Hawaii.
- Ramsey, E., III, 1992. A Holistic Study of the Laguna de Terminos Ecosystem in *III Reunion SOBRE La Conservacion de Humedales*, 5-9 May 1992, Merida, Yucatan, Mexico.
- Ramsey, E., III, 1992. Remote Sensing of Mangroves in Southwest Florida Using High Resolution Digital Data, SPOT HRV Data, and *In Situ* Spectral Radiance Data, *The Fall Technical Meeting of the American Society of Photogrammetry and Remote Sensing*, Denver, Colorado.
- Ramsey, E., III, 1992. Preliminary Analysis of Spectral Data Collected for the Purpose of Wetland Discrimination, *The Society of Wetland Scientists*, New Orleans, Louisiana.
- Ramsey, E., III, 1992. Monitoring Recovery of Coastal Wetlands From Acute Stress by Using High Spectral Resolution Remote Sensing Data, *The First Thematic Conference on Remote Sensing for Marine and Coastal Environments*, 15-17 June, New Orleans, Louisiana.
- Ramsey, E., III, 1992. Monitoring Temporary Water in the Lower Yazoo River Basin, *The Forested Wetland Workshop*, Vicksburg, Mississippi.
- Ramsey, E., III, 1992. Site-Specific Water Volume Reflectance Spectra Related to the Optical Properties of the Water and Water Constituents Within Three Cooling Water Reservoirs, *The XVII Congress of the International Society for Photogrammetry and Remote Sensing*, Washington, DC.
- Ramsey, E., III, 1992. Canopy Structure and Spectral Differentiation of Wetland Vegetation Types in St. Marks National Wildlife Refuge, Florida, *The U.S. Fish and Wildlife Service Geographic Information System and Remote Sensing Workshop*, La Crosse, Wisconsin.
- Ramsey, E., III., 1992. Preliminary Analysis of Spectral Data Collected for the Purpose of Wetland Discrimination, *The Eighth Annual Workshop on Remote Sensing and Geographic Information Systems for Coastal Management in Louisiana*, Stennis, Mississippi.
- Ramsey, E., III., 1992. Preliminary Analysis of Spectral Data Collected for the Purpose of Wetland Discrimination, *The Third National U.S. Fish and Wildlife Service Remote Sensing/GIS Workshop*, La Crosse, Wisconsin.
- Ramsey, E., III, 1992. Multiple Temporal and Spatial Remote Sensing Data as Inputs into a Landcover Resource Geographic Information System, *The Fall ASPRS/ACSM Annual Meeting and Convention*, Albuquerque, New Mexico.
- Ramsey, E., III, R. Spell, and J. Johnston, 1992. Preliminary Analysis of Spectral Data collected for Purpose of Wetland Discrimination, *The Fall ASPRS/ACSM Annual Meeting and Convention*, Albuquerque, New Mexico.
- Ramsey, E., III, 1992. Multitemporal Inputs into a Land Cover Resource Geographic Information System, *The U.S. Fish* and Wildlife Service Geographic Information System and Remote Sensing Workshop, La Crosse, Wisconsin.
- Ramsey, E., III, 1992. Canopy Structure and Spectral Differentiation of Wetland Vegetation Types in St. Marks National Wildlife Refuge, Florida, The Eighth Annual Workshop on Remote Sensing and Geographic Information Systems for Coastal Management in Louisiana, Stennis, Mississippi.
- Ramsey, E., III, 1992. Multitemporal Inputs into a Land Cover Resource Geographic Information System, The Eighth Annual Workshop on Remote Sensing and Geographic Information Systems for Coastal Management in Louisiana, Stennis, Mississippi.
- Ramsey, E., III, 1992. High Resolution Spectral Discrimination of Wetland Vegetation Types: Remote Sensing Applications, Gulf Estuarine Research Society Spring Meeting, Port Aransas, Texas.
- Ramsey, E., III, 1991. Monitoring Marsh Burns Using Remote Sensing Technology, The Second National U.S. Fish and Wildlife Service Geographic Information Systems Workshop, Fort Collins, Colorado.
- Ramsey, E., III, 1991. Remote Sensing of Water Quality, Annual Convention of the American Conference on Surveying and Mapping / American Society of Photogrammetry, Baltimore, Maryland.
- Ramsey, E., III, 1991. Spatial Analysis of the National Wetlands Research Center: A Research Topic and Laboratory Design Overview, The Second National U.S. Fish and Wildlife Service Geographic Information Systems Workshop, Fort Collins, Colorado.
- Ramsey, E., III, 1991. Site-specific Reflectance Spectra Related to Water Parameters Within Optically Complex Lagoon Waters, The American Water Resources Association's 27th Annual Conference and Symposium, New Orleans, Louisiana.
- Ramsey, E., III, 1988. The Derivation and Verification of Surface Reflectances Using Airborne MSS Data and a Radiative Transfer Model, The Fall Technical Meeting of the American Society of Photogrammetry, Virginia Beach, Virginia.
- Ramsey, E., III, 1988. A Comparison of Original Aircraft MSS and Generated Surface Water Reflectance Images as Predictors of Lake Water Quality Indicators, The Fall Technical Meeting of the American Society of Photogrammetry, Virginia Beach, Virginia.
- Jackson, T. and E. Ramsey III, 1988. An Evaluation of NOAA-AVHRR Environmental Satellite Data for Synoptic Land-Cover Mapping, Fall Technical Meeting of the American Society of Photogrammetry and Remote Sensing, Virginia Beach, Virginia.

PROPOSALS

Ramsey, E., III and J. Burnett (FWS Project Officer), Mapping the invasive species, Chinese Tallow, in the St. Marks National Wildlife Refuge. A demonstration of the effective use of remote sensing and geographic information systems in the resource management of the USFWS Refuge System. A proposal presented to the US Fish and Wildlife Service.

- Ramsey, E., III. Preserving the Sonoran pronghorn habitat in the Cabeza prieta NWR. A demonstration of effective use of remote sensing and geographic information systems in the resource management of the Sonoran Desert. Submitted to US Fish and Wildlife Service.
- Ramsey, E., III., M., Baur. Leaf and Canopy Reflectance of Louisiana soybeans rust. (2005).
- Ramsey, E., III., P.Kandus Mapping complex riparian forested wetlands with EO-1 Hyperion and AVIRIS hyperspectral image data and field measurements.
- Ramsey, E., III. Public trusts and adjacent lands- Detecting and monitoring sublethal impacts and monitoring long term ecosystem viability on and adjacent to Camp Leguene. Sumbitted by AOT, Inc., to Stratigic Environmental Research and Development Program. April 28, 2005.