

CURRICULUM VITAE (July 2014)--JERRY LeWAYNE WHISTLER

Kansas Applied Remote Sensing Program
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EDUCATION

B.A., University of Kansas, 1981. Geography

M.A., University of Kansas, 1989. Geography (remote sensing and geographic information systems)

Other Training

Environmental Systems Research Institute, Overland Park, KS. 1998. ArcView Geographic Information System Software (two-day short course).

Environmental Systems Research Institute, Olathe, KS. 1988. Arc/Info Geographic Information System Software (two-week short course).

Earth Resources Data Analysis, Inc., Atlanta, GA. 1988. ERDAS Image Processing and Geographic Information System Software (three-day short course).

PROFESSIONAL EXPERIENCE

1986-present **Research Associate** (Remote Sensing/Geographic Information Systems Specialist), Kansas Applied Remote Sensing (KARS) Program, University of Kansas: design and implement natural resource studies employing remote sensing and geographic information systems (GIS) technologies; write proposals; direct funded projects; supervised students; manage image processing/GIS lab facilities; and system administration of general computing environment.

1983-86 **Graduate Research Assistant** (Remote Sensing Specialist I), Kansas Applied Remote Sensing (KARS) Program, University of Kansas: assist with natural resource studies utilizing remote sensing and GIS technologies.

HONORS AND AWARDS

University of Kansas Graduate Research Assistantship (June 1983-August 1986)

PUBLICATIONS

refereed

Griffith, J., E. Martinko, **J. Whistler**, and K. Price. 2002. "Interrelationships among landscapes, NDVI, and stream water quality in the U.S. Central Plains." *Ecological Applications* 12(6): 1702-1718.

Griffith, J.A., E.A. Martinko, **J.L. Whistler**, and K.P. Price. 2002. "Preliminary comparison of landscape pattern-normalized difference vegetation index (NDVI) relationships to central plains stream conditions." *Journal of Environmental Quality*, Vol. 31, No. 3, pp. 846-859.

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Lauver, C.L., W.H. Busby, and **J.L. Whistler**. 2002. "Testing a GIS model of habitat suitability for a declining grassland bird". *Environmental Management*, Vol. 30, No. 1, pp.88-97.

Whistler, J.L., S.L. Egbert, E.A. Martinko, D.W. Baumgartner, R. Lee, and M.E. Jakubauskas. 1996. "Development of the Kansas Digital Land Use/Land Cover Map From Satellite Multispectral Imagery." In Morain, S. and Baros, L. (eds.) *Raster Imagery in Geographic Information Systems*, pp. 328-334.

Dillworth, M.E., **J.L. Whistler** and J.W. Merchant, 1994. "A Comparison of Geometric and Geographic Windows for Measuring Landscape Structure". *Photogrammetric Engineering and Remote Sensing*, Vol. 60, No. 10, pp. 1215-1224.

Lauver, C.L. and **J.L. Whistler**, 1993. "A Hierarchical Classification of Landsat TM Data to Identify Natural Grassland Areas and Rare Species Habitat". *Photogrammetric Engineering and Remote Sensing*, Vol. 59, No. 5, pp. 627-634.

Jakubauskas, M.E., **J.L. Whistler**, M.E. Dillworth and E.A. Martinko, 1992. "Classifying Remotely Sensed Data for Use in an Agricultural Non-Point Source Pollution Model". *Journal of Soil and Water Conservation*, Vol. 47, No. 2, pp. 179-182.

other refereed contributions

Whistler, J.L., 1989. *Constructing Urban Land Use Parcels Using Landsat Thematic Mapper Data*. M.A. Thesis. University of Kansas.

non-refereed

Peterson, D., **J. Whistler**, S. Egbert, E. A. Martinko. 2010. 2005 Kansas Land Cover Patterns: Phase II--final report. Kansas Biological Survey, Lawrence, KBS Report No. 167:49 pp.

Peterson, D., **J. Whistler**, C. Bishop, S. Egbert, E. Martinko. 2009. The Kansas Next-Generation Land Use/Land Cover Mapping Initiative, In: ASPRS Proceedings, 2009 Annual Conference [CD-ROM], Baltimore, Maryland, March 9-13, 2009, 12 pp.

Peterson, D., **J. Whistler**, and S. Egbert. 2008. 2005 Kansas Land Cover Patterns Phase I - final report. Kansas Applied Remote Sensing Program, Kansas Biological Survey, University of Kansas, Lawrence, KBS Report No. 150:29 pp.

Martinko, E., **J. Whistler**, D. Peterson, J. Kastens, R. Hagen, D. Huggins, M. Jakubauskas. 2007. A Watershed Classification System for Tiered Diagnosis of Biological Impairments: A Scalable, Central Plains Focus with National Applicability. Final Report to the U.S. Environmental Protection Agency STAR Program, Cooperative Agreement RD-83059701. Kansas Biological Survey, Lawrence, KBS Report No. 141:153 pp.

Peterson, D.L., **J.L. Whistler**, and B.N. Mercier. 2004. The Kansas Satellite Image Database 2002-2003: final report. Kansas Biological Survey, Lawrence, Report No. 121.

Martinko, E.A., K.P. Price, S.L. Egbert, M.E. Jakubauskas, **J.L. Whistler**, and T.J. Crooks. 2003. The NASA Great Plains Regional Earth Science Applications Center, 2000-2003. 45 pp.

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- Taylor, P.C., Mosiman, B.N. S.L. Egbert and **J. L. Whistler**. 2003. The Kansas Surface Water Database: Final Report. Kansas Biological Survey, Lawrence, Report No. 116.
- Mosiman, B.N. S.L. Egbert and **J.L. Whistler**. 2003. The Kansas Dam Inventory Project: Final Report. Kansas Biological Survey, Lawrence, Report No.114:19 pp.
- Whistler, J.L.**, D.L. Peterson, and B.N. Mercier. 2002. The Kansas Satellite Image Database 2000-2001: Final Report. Kansas Biological Survey, Lawrence, Report No. 104:27 pp.
- Kansas Applied Remote Sensing Program**. 2002. *Kansas Vegetation Map*. Kansas Applied Remote Sensing Program, Kansas Biological Survey, Lawrence.
- Mercier, B.N., **J.L. Whistler**, D.L. Peterson, S.L. Egbert, K.P. Price, and E.A. Martinko. 2002. Remote sensing tools for statewide management: developing the first landsat imagery database of Kansas. *2002 ASPRS-ASCM Annual Conference and FIX XXII Congress*. Washington, DC, April 22-26.
- Whistler, J.L.**, X. Guo, M.E. Houts, K.P. Price, E.A. Martinko, and D. Depardo. 2001. Developing a multispectral data acquisition system for capturing hi-resolution airborne digital imagery. *Proceedings of the 2001 American Society for Photogrammetry and Remote Sensing Annual Conference*, April 23-27, St. Louis, MO.
- Whistler, J.L.**, M.E. Houts, J.S. Kastens E.A., Martinko, and K.P. Price. 2001. *Satellite View of Kansas* (map). Kansas Applied Remote Sensing Program, Kansas Biological Survey, Lawrence.
- Martinko, E.A., **J.L. Whistler**, F. deNoyelles, Jr., J.A. Griffith, and D. Peterson. 2000. *EPA Region VII R-EMAP Project: Landscape Analysis and Characterization to Support Regional Environmental Assessment (LACRA)*. Final Report to US EPA Region VII, EPA Assistance Agreement #CR825877-01-0, Kansas Biological Survey, Lawrence, 109 pp.
- Martinko, E.A., K.P. Price, S.L. Egbert, **J.L. Whistler**, M.E. Jakubauskas, and T.J. Crooks. 2000. "Building on Three Decades of Remote Sensing and Decision Support: The NASA Great Plains RESAC and the Kansas Applied Remote Sensing (KARS) Program". *Photogrammetric Engineering and Remote Sensing*, Vol. 66, No. 10, pp. 1158-1165.
- Griffith, J.A, E.A. Martinko, and **J.L. Whistler**. 2000. "Vegetation phenological metrics and their relation to water quality and biophysical condition in Central Plains streams". *Proceedings of the 2000 American Society for Photogrammetry and Remote Sensing Annual Conference*, May 23-27, Washington, DC.
- Whistler, J.L.** and J. Lomas. 1999. *Horseshoe Creek Land Cover Inventory*. Final Report to Kansas State Conservation Commission. Kansas Applied Remote Sensing, Lawrence, KS, 18 pp.
- Martinko, E.A., K.P. Price, S.L. Egbert, **J.L. Whistler**, J.A. Griffith, and S. Signiski. 1998. *Mapping Irrigated Agriculture in the Republican River Basin: A Study Using a Multidate Landsat TM Image Classification Approach. Phase III Report for Frontier County, Nebraska*. Kansas Applied Remote Sensing Program, Lawrence, KS, 15 pp.

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- Martinko, E.A., **J.L. Whistler**, and F.J. deNoyelles. 1998. Landscape analysis and characterization to support regional environmental assessment. Interim Report to the U.S. Environmental Protection Agency, Region 7. 11 pp.
- Martinko, E.A., K.P. Price, S.L. Egbert, **J.L. Whistler**, and J.A. Griffith. 1997. *Mapping Irrigated Agriculture in the Republican River Basin: A Study Using a Multidate Landsat TM Image Classification Approach. Phase II Report for Hayes County, Nebraska.* Kansas Applied Remote Sensing Program, Lawrence, KS, 14 pp.
- Martinko, E.A., K.P. Price, S.L. Egbert, **J.L. Whistler**, and J.A. Griffith. 1997. *Mapping Irrigated Agriculture in the Republican River Basin: A Study Using a Multidate Landsat TM Image Classification Approach. Phase II Report for Dundy County, Nebraska.* Kansas Applied Remote Sensing Program, Lawrence, KS, 15 pp.
- Martinko, E.A., K.P. Price, S.L. Egbert, **J.L. Whistler**, and J.A. Griffith. 1997. *Mapping Irrigated Agriculture in the Republican River Basin: A Study Using a Multidate Landsat TM Image Classification Approach. Phase II Report for Chase County, Nebraska.* Kansas Applied Remote Sensing Program, Lawrence, KS, 15 pp.
- Martinko, E.A., K.P. Price, S.L. Egbert, **J.L. Whistler**, and J.A. Griffith. 1997. *Mapping Irrigated Agriculture in the Republican River Basin: A Study Using a Multidate Landsat TM Image Classification Approach. Phase I Report for Norton County, Kansas.* Kansas Applied Remote Sensing Program, Lawrence, KS, 18 pp.
- Martinko, E.A., K.P. Price, S.L. Egbert, **J.L. Whistler**, and J.A. Griffith. 1997. *Mapping Irrigated Agriculture in the Republican River Basin: A Study Using a Multidate Landsat TM Image Classification Approach. Phase I Report for Hitchcock County, Nebraska.* Kansas Applied Remote Sensing Program, Lawrence, KS, 24 pp.
- Martinko, E.A., K.P. Price, S.L. Egbert, **J.L. Whistler**, and J.A. Griffith. 1997. *Mapping Irrigated Agriculture in the Republican River Basin: A Study Using a Multidate Landsat TM Image Classification Approach. Phase I Report for Harlan and Furnas Counties, Nebraska.* Kansas Applied Remote Sensing Program, Lawrence, KS, 35 pp.
- Whistler, J.L.**, M.E. Jakubauskas, S.L. Egbert, E.A. Martinko, D. Baumgartner, and R. Lee. 1996. *Kansas Land Cover Patterns* (map), Kansas Applied Remote Sensing Program, Kansas Biological Survey. University of Kansas, Lawrence.
- Whistler, J.L.** 1996. *A Phenological Approach to Land Cover Characterization Using Landsat MSS Data for Analysis of Nonpoint Source Pollution.* Final Report to United States Environmental Protection Agency - Region VII. Kansas Applied Remote Sensing Program (KARS 96-1), Lawrence, KS, 51 pp.
- Lauver, C.L., W.H. Busby, K. Kindscher, and **J.L. Whistler**. 1996. *Identification and Delineation of Loggerhead Shrike Habitat on the Fort Riley Military Reservation.* Final Report to Natural Resources Office, Fort Riley Military Reservation. Kansas Biological Survey, Lawrence, KBS Report No. 69:32 pp.
- Whistler, J.L.** and J. Dunham. 1995. *Pracht Wetland Landcover Inventory.* Final Report to Kansas State Conservation Commission. Kansas Applied Remote Sensing, Lawrence, KS, KARS

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Report 95-1:33 pp.

- Whistler, J.L.**, M.E. Jakubauskas, S.L. Egbert, E.A. Martinko, D.W. Baumgartner, and R. Lee. 1995. "The Kansas State Land Cover Mapping Project: Regional Scale Land Use/Land Cover Mapping Using Landsat Thematic Mapper Data". *1995 ACSM/ASPRS Annual Convention and Exposition Technical Papers*, Vol. 3, pp. 773-785.
- Liechti, P.M, **J.L. Whistler**, A. Clements, and J. Dunham. 1995. *Neosho Vegetation Inventory Study*. Final Report to Kansas Water Office. Kansas Biological Survey, Lawrence, KBS Report No. 66:22 pp.
- Lauver, C.L. and **J.L. Whistler**, 1992. "Using Landsat TM Imagery to Estimate Coverage of Natural Grassland and Rare Species Habitat". *1992 ASPRS/ACSM Annual Convention and Exposition Technical Papers*, Vol. 1, pp. 241-246.
- Lauver, C.L. and **J.L. Whistler**, 1991. "The Use of Landsat Thematic Mapper Data to Identify High Quality Grasslands and Rare Species Habitat in Eastern Kansas". *Yosemite Centennial Symposium Proceedings, Natural Areas in Yosemite: Prospects for the Future*. NPS D-374 (17th Annual Natural Areas Conference), pp. 214-221.
- Reed, B.C. and **J.L. Whistler**, 1990. "Incorporating the STATSGO Soil Database into a GIS". *GIS World*, Vol. 3, No. 6, pp. 36-40.
- Martinko, E.A., K.P. Price, **J.L. Whistler** and G. Robinson, 1990. *Vegetation Mapping of Prairie Environments for Use in the Development of a GIS Data Base*. Final Report on USDA Grant No. 88-34170-3713. Kansas Applied Remote Sensing Program, Lawrence, KS, 31 pp.
- Whistler, J.L.**, M.E. Jakubauskas and M.E. Dillworth, 1990. *Utilization of Remote Sensing Data for Input to the Agricultural Nonpoint Source Pollution Model (AGNPS)*. Final Report to United States Environmental Protection Agency - Region VII. Kansas Applied Remote Sensing Program, Lawrence, KS, 85 pp.
- Huggins, D.G., M.L. Johnson, P.M. Liechti, T.M. Anderson, S. Meador and **J.L. Whistler**, 1990. *Establishment of Empirical Relationships Between Land Use/Land Cover and Nonpoint Source Pollution Stream Effects Within an Ecoregion*. Final Report to United States Environmental Protection Agency - Region VII. Kansas Biological Survey, Lawrence, KS.
- Jakubauskas, M.E., **J.L. Whistler** and M.E. Dillworth, 1990. "Derivation of Non-Point Source Pollution Model Inputs from Remotely Sensed Data", *1990 ASPRS/ACSM Annual Convention and Exposition Technical Papers*, Vol. 5, pp. 44-53.
- Merchant, J.W., M.E. Dillworth and **J.L. Whistler**, 1990. "Software for Spatial Analysis of Classified Digital Images", *1990 ASPRS/ACSM Annual Convention and Exposition Technical Papers*.
- Merchant, J.W., D.O. Whittemore, **J.L. Whistler**, C.D. McElwee and J.J. Woods, 1987. "Groundwater Pollution Hazard Assessment: A GIS Approach". *Proceedings of the International Geographic Information Systems (IGIS) Symposium*, pp. III-103 to III-115.
- Martinko, E.A., J.W. Merchant, D.O. Whittemore and **J.L. Whistler**, 1987. *Development of a*

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- Prototype Geographic Information System for Groundwater Quality Protection in Kansas.* Final Report to Kansas Department of Health and Environment. Kansas Applied Remote Sensing Program, Lawrence, KS, 27 pp.
- Whittemore, D.O., J.W. Merchant, **J.L. Whistler**, C.D. McElwee and J.J. Woods, 1987. "Ground Water Protection Planning Using the ERDAS Geographic Information System: Automation of DRASTIC and Time-Related Capture Zones". *Proceedings of the National Water Well Association FOCUS Conference on Midwestern Ground Water Issues*, pp. 359-374.
- Merchant, J.W., **J.L. Whistler** and D.O. Whittemore, 1986. "A Prototype Geographic Information System for Groundwater Protection in Kansas." *Annual Meeting of the Great Plains/Rocky Mountain Division*, Association of American Geographers.
- Whittemore, D.O., J.W. Merchant, **J.L. Whistler**, Di Pei and Zhou Hong, 1986. "Computerization of DRASTIC: A System for Evaluating Ground-Water Pollution Potential Using the ERDAS Geographic Information System." *Proceedings of the 31st Annual Midwest Ground Water Conference*.
- Merchant, J.W., D.O. Whittemore and **J.L. Whistler**, 1986. *Development of a Prototype Geographic Information System for Groundwater Quality Protection in Kansas*. Interim Report to Kansas Department of Health and Environment. Kansas Applied Remote Sensing Program, Lawrence, KS.
- Merchant, J.W. and **J.L. Whistler**, 1986. *Remote Sensing Newsletters*. Technical note distributed at Forum on Commercialization of Earth Observing Satellites, Association of American Geographers Annual Meeting, Minneapolis, MN.

submitted to refereed journals

none

in preparation

none

PUBLISHED ABSTRACTS

- Price, K.P., E.A. Martinko, S.L. Egbert, M.E. Jakubauskas, **J.L. Whistler**, J.M. Stiles, and D.L.A. Kastens. 2000. "Multitemporal imagery to assess vegetation condition and trend throughout the Great Plains." 53rd Annual Meeting, Society of Range Management, Boise, Idaho. February 13-18, p. 14.
- Egbert, S., **J. Whistler**, M. Jakubauskas, R. Lee, and D. Baumgartner, 1995. "Perspectives on Developing a Statewide Land Cover Database for Kansas", *Association of American Geographers 91st Annual Meeting*, Chicago, IL., p. 78.
- Whistler, J.**, M. Jakubauskas, S. Egbert, D. Baumgartner, and R. Lee, 1992. "All of Kansas: Perspectives on Developing a Statewide Land Cover Database from Satellite Imagery", *1992 Mid-America GIS Symposium*, Overland Park, KS.
- Whittemore, D., C. McElwee, J. Woods, and **J. Whistler**, 1987. "Well-Field Protection Planning

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Using Time-Related Capture Zones and the Erdas Geographic Information System", *FOCUS Conference on Midwestern Ground Water Issues*, National Water Well Association, Indianapolis, IN.

POSTER PAPERS (presenter listed first)

- Peterson, D., E. Martinko, **J. Whistler**, S. Egbert and C. Bishop. 2009. Mapping Land Use/Land Cover in the Kansas River Watershed, The Kansas Statewide EPSCoR Conference, Manhattan, Kansas, October 6, 2009.
- Peterson, D.L., **J.L. Whistler**, M.E. Jakubauskas, and E.A. Martinko. 2006. Derivation of Watersheds and Stream Networks Using Digital Elevation Data. Poster presented at 2006 MidAmerica GIS Conference, April 23-27, 2006, Kansas City, MO.
- Martinko, E.A., D. Peterson, **J.L. Whistler**, and M.E. Jakubauskas. 2006. Linking Interannual Land Use/Land Cover Dynamics with Stream Water Quality for Watershed Vulnerability Assessment: A Hierarchical Statistical Approach Using Time Series Satellite Imagery. 2006 USGS North America Land Cover Summit September 20-22. Washington, D.C.
- Whistler, J.L.**, E.A. Martinko, J.A. Griffith, and D. Peterson. 2002. Landscape Analysis and Characterization for Regional Assessment (LACRA): A Region VII REMAP Project. Poster presented at the EMAP Symposium 2002: The Condition of Our Nation's Streams and Rivers from the Mountains to the Coast, May 7-9, Kansas City, MO.
- Martinko, E.A., K.P. Price, S.L. Egbert, **J.L. Whistler**, M.E. Jakubauskas, and T.J. Crooks. 2001. The NASA Great Plains RESAC: Developing remote sensing applications on a foundation of fundamental research. *3rd International Forestry and Agriculture Remote Sensing Conference and Exhibition*. Denver, CO. November 2001. (Interactive Poster).
- Whistler, J.L.**, X. Guo, M.E. Houts, K.P. Price, E.A. Martinko, and D. Depardo. 2001. Developing a Multispectral Data Acquisition System for Capturing Hi-resolution Airborne Digital Imagery. Poster presented at the 2001 American Society for Photogrammetry and Remote Sensing Annual Conference, April 23-27, St. Louis, MO.
- Martinko, E.A., K.P. Price, S.L. Egbert, M.E. Jakubauskas, and **J.L. Whistler**. 1999. Development of the NASA Great Plains Regional Earth Science Applications Center. *National Remote Sensing Applications Conference and Workshop*. Auburn University Hotel and Conference Center, Auburn, AL. November 1999. (Interactive Poster).
- Griffith, J.A., E.A. Martinko, **J.L. Whistler**, F.J. deNoyelles, and D.L. Peterson. 1999. Linking Fisheries Health and Stream Condition in the Great Plains with Landscape Pattern and Vegetation Indices. Poster presentation given at the 5th World Congress of the International Association for Landscape Ecology. July 29-August 3rd, Snowmass Village, CO.
- Martinko, E.A., K.P. Price, S.L. Egbert, M.E. Jakubauskas, **J.L. Whistler**, and M.T. Seastead. 1999. Development of the NASA Great Plains Regional Earth Science Application Center. *National Remote Sensing Applications Conference and Workshop*. Auburn, AL. November.
- Price, K.P., E.A. Martinko, S.L. Egbert, M.E. Jakubauskas, **J.L. Whistler**, and M.T. Seastead. 1999. Great Plains Regional Earth Science Application Center (GP RESAC): A Consortium to

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Transfer Remote Sensing Products and Technology to Support the Great Plains Agroecosystem. NASA EOS Investigator Working Group (IWG). Vail, Colorado. June 15-17.

PRESENTATIONS (*presenter listed first*)

Mosiman, B.N., S.L. Egbert and **J. Whistler**. 2003. "Inventory of Dams using Remotely Sensed Satellite Imagery," Kansas Department of Agriculture's Division of Water Resources 2003 Fall Conference, Topeka, Kansas.

Mosiman, B.N., S.L. Egbert and **J. Whistler**. 2003. "Inventory of Dams using Remotely Sensed Satellite Imagery," presentation, Great Plains/Rocky Mountain Division of the Association of American Geographers 2003 Annual Meeting, Manhattan, Kansas.

Mercier, B.N., **J.L. Whistler**, D.L. Peterson, S.L. Egbert, K.P. Price, and E.A. Martinko. 2002. Remote Sensing Tools for Statewide Management: Developing the First Landsat Imagery Database of Kansas. 2002 ASPRS-ACSM Annual Conference and FIX XXII Congress. Washington, DC, April 22-26.

Martinko, E.A., **J.L. Whistler**, F.J. deNoyelles, J. Griffith, and D. Peterson. 2001. EPA Region VII R-EMAP Project: Landscape Analysis and Characterization to Support Regional Environmental Assessment (LACRA). Central Plains BioAssessment Workshop on Stream Reference Conditions and Landscape-Scale Bioassessment, April 3-4, Lawrence, KS.

M.E. Houts, X. Guo, K.P. Price, **J.L. Whistler**, E.A. Martinko, and D. Depardo. 2001. Developing a Multispectral Data Acquisition System for Capturing Hi-resolution Airborne Digital Imagery. Kansas Academy of Science Annual Meeting, April 6-7, Lawrence, KS.

Crooks, T.J., M.E. Jakubauskas, **J.L. Whistler**, A. Stewart, J. Lomas, E.A. Martinko, and K.P. Price. 2001. Meeting the challenge of outreach and technology transfer at the NASA Great Plains RESAC. Annual Convention, *American Society of Photogrammetric Engineering and Remote Sensing*. St. Louis, MO. April 2001. (CD-ROM)

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Price, K.P., E.A. Martinko, S.L. Egbert, M.E. Jakubauskas, **J.L. Whistler**, J.M. Stiles, and D.L.A. Kastens. 2000. Multitemporal Imagery to Assess Vegetation Condition and Trend Throughout the Great Plains. 53rd Annual Meeting, Society of Range Management - 2000 Trails to Boise, Boise, Idaho. Feb. 13-18, 2000.

Martinko, E.A., K.P. Price, S.L. Egbert, M.E. Jakubauskas, and **J.L. Whistler**. 2000. Development of the NASA Great Plains Regional Earth Science Applications Center (GP-RESAC). Kansas Academy of Sciences Annual Meeting, April 1, Hutchinson, KS.

Martinko, E.A., K.P. Price, S.L. Egbert, M.E. Jakubauskas, and **J.L. Whistler**. 1999. Development of the NASA Great Plains Regional Earth Science Applications Center. National Remote Sensing Applications Conference and Workshop, November 15-17, 1999 Auburn University

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Hotel and Conference Center Auburn, Alabama.

Egbert, S. L., **J.L. Whistler**, K.P. Price, and E.A. Martinko. 1999. Development of Satellite-Derived Land Use/Land Cover Databases for Kansas. Annual Meeting of the Rocky Mountains/Great Plains Division of the Association of American Geographers. September 23-25, Colorado Springs, CO.

Egbert, S. L., **J.L. Whistler**, C.F. Blodgett, K.P. Price, and E.A. Martinko. 1999. Mapping Kansas from Space: Twenty-Five Years of Mapping Kansas Land Cover with Satellite Imagery. Kansas Academy of Sciences Annual Meeting, April 16-17, Manhattan, KS.

Griffith, J.A., E.A. Martinko, **J.L. Whistler**, F.J. DeNoyelles, and D.L. Peterson. 1998. Linking Fisheries Health and Stream Condition in the Great Plains with Landscape Pattern and Vegetation Indices: An Assessment Framework. Oral presentation given at the Annual Meeting of the Rocky Mountains/Great Plains Division of the Association of American Geographers. September 26, Lawrence, KS.

Whistler, J.L. 1989. GIS Capabilities and Application Projects of the Kansas Applied Remote Sensing Program. *Forum on GIS*, Geographic Information Systems Subcommittee of the State of Kansas Reappraisal Advisory Committee. Topeka, KS.

Whistler, J.L. 1988. Mission Objectives and Current Projects of the Kansas Applied Remote Sensing Program". Kansas Soil Survey Work Planning Conference. Salina, KS.

Whistler, J.L. 1986. Construction and Use of a GIS for Ground Water Quality Protection". Groundwater Quality Protection Strategy Advisory Task Force of the Kansas Department of Health and Environment. Topeka, KS.

Whistler J.L. 1985. The Use of Digital Soils Data in a Geographic Information System for Groundwater Quality Protection". Kansas Soil Survey Work Planning Conference. Salina, KS.

GRANTS AND CONTRACTS

current

none

previous

AmericaView Inc. (funded by U.S. Geological Survey). StateView Program Development and Operations for the State of Kansas, FY2009. S.L. Egbert, K. Nelson, and **J.L. Whistler**. 09/30/09 – 09/29/10. \$23,100.

Kansas GIS Policy Board. Kansas Next-Generation Land Use/Land Cover Mapping Initiative. E.A. Martinko, M.E. Jakubauskas and **J.L. Whistler**. 2008-2009. \$101,212.

AmericaView Inc. (funded by U.S. Geological Survey). StateView Program Development and Operations for the State of Kansas. FY2008. S.L. Egbert, K. Nelson, and **J.L. Whistler**. 09/30/08 – 09/29/09. \$23,989.

Kansas GIS Policy Board. Kansas Next-Generation Land Use/Land Cover Mapping Initiative. E.A.

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- Martinko, M.E. Jakubauskas and **J.L. Whistler**. 2007-2008. \$101,631.
- AmericaView Inc. (funded by U.S. Geological Survey). StateView Program Development and Operations for the State of Kansas, FY2007. S.L. Egbert, K. Nelson, and **J.L. Whistler**. 7/1/2007 – 6/30/2008. \$51,000.
- Kansas GIS Policy Board. Kansas Next-Generation Land Use/Land Cover Mapping Initiative. E.A. Martinko, M.E. Jakubauskas and **J.L. Whistler**. 2006-2007. \$99,419.
- AmericaView Inc. (funded by U.S. Geological Survey). StateView Program Development and Operations for the State of Kansas, FY2006. S.L. Egbert, K. Nelson, and **J.L. Whistler**. 7/1/2006 – 6/30/2007. \$84,000.
- AmericaView Inc. (funded by U.S. Geological Survey). StateView Program Development and Operations for the State of Kansas, FY2005. S.L. Egbert, K. Nelson, and **J.L. Whistler**. 7/1/2005 – 6/30/2006. \$89,500.
- AmericaView Inc. (funded by U.S. Geological Survey). StateView Program Development and Operations for the State of Kansas, FY2004. S.L. Egbert, K. Nelson, and **J.L. Whistler**. 7/1/2004 – 6/30/2005. \$89,500.
- US Environmental Protection Agency. Watershed Classification System for Tiered Diagnosis of Biological Impairment in Watersheds and Their Receiving Water Bodies. E.A. Martinko, J. Thorp, M.E. Jakubauskas, D. Huggins, **J.L. Whistler**, F. deNoyelles, J. Dobson, P. Liechti, and K.P. Price. 2002-2007. \$1,149,266.
- Kansas Department of Health and Environment. Environmental Assessment and Critical Areas Identification - Part 2. P. Liechti, E.A. Martinko, and **J.L. Whistler**. 2002-2007. \$93,820.
- United States Geological Survey. KansasView: Advancing the Use of Remote Sensing Data and Technology in Kansas in FY03. S.L. Egbert, T.J. Crooks, K. Nelson, and **J.L. Whistler**. 09/25/03 – 09/24/04. \$89,500.
- Kansas GIS Policy Board. Kansas Satellite Imagery Database J.L. Whistler, S.L. Egbert, B. Mosiman, and E.A. Martinko. 7/03-6/04. \$58,489.
- United States Geological Survey. KansasView: Advancing the Use of Remote Sensing Data and Technology in Kansas through Geospatial Archive Enhancement, Consortium Expansion, Cooperative Demonstration Projects, and Outreach and Workshops. S.L. Egbert, T.J. Crooks, B. Warner, K. Nelson, **J.L. Whistler**, D.L. and Peterson. 09/01/02-08/31/03. \$169,983.
- Kansas Department of Agriculture. An Inventory of Dams for the State of Kansas Using Remotely Sensed Satellite Imagery. S.L. Egbert and **J.L. Whistler**. 8/02-6/03. \$57,247.
- National Aeronautics and Space Administration. Linking Remote Sensing, Land Use, and Carbon Sequestration: Insights from Leaf to Landscape Scales in America's Heartland. K.P. Price, E.A. Martinko, S.L. Egbert, M.E. Jakubauskas, T. Crooks, **J.L. Whistler**, B. Foster, C. Martin, K. Kindscher, D. Kettle, and H. Tian. 06/01/01 – 05/31/04. \$997,800.

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- National Aeronautics and Space Administration. The Great Plains Regional Earth Science Applications Center (GP-RESAC): A Consortium to Transfer Remote Sensing Products and Technology to Support the Great Plains Agroecosystem. E.A. Martinko, P.I., K.P. Price, S.L. Egbert, **J.L. Whistler**, J.M. Stiles, and M.E. Jakubauskas. 3/99-3/03. \$1,550,000.
- Kansas GIS Policy Board. Landsat 7 Satellite Imagery Database. **J.L. Whistler**, S.L. Egbert, E.A. Martinko, A.M. Stewart, and D. Peterson. 7/01-6/02. \$57,500.
- Kansas Department of Health and Environment. \$94,323. 4/00-12/01. Co-Investigator. Kansas Urban Water Quality Restoration and Protection Initiative.
- U.S. Environmental Protection Agency. Landscape Analysis and Characterization to Support Regional Environmental Assessment. E.A. Martinko, P.I., **J.L. Whistler** and F. deNoyelles. 6/97-9/99. \$165,854.
- U.S. Environmental Protection Agency. Digitizing the EPA Region VII R-EMAP Watersheds. E.A. Martinko, P.I., **J.L. Whistler** and F. deNoyelles. 4/99-9/99. \$18,263.
- Kansas State Conservation Commission. Horseshoe Creek Land Cover Inventory. **J.L. Whistler**. 6/98-9/98. \$8,276.
- National Aeronautics and Space Administration. An Interdisciplinary Center of Excellence in Environmental Remote Sensing at the University of Kansas. K. Price, S.L. Egbert, E.A. Martinko, **J.L. Whistler**, F. deNoyelles, and R.W. McColl. 1997-1998. \$362,676.
- Kansas Department of Agriculture, Division of Water Resources. Mapping Irrigated Agriculture in Southwest Nebraska Using Multidate Landsat Thematic Mapper Image Classification (extension). E.A. Martinko, K.P. Price, S.L. Egbert, and **J.L. Whistler**. 8/97-5/98. \$59,848.
- Kansas Department of Agriculture, Division of Water Resources. Mapping Irrigated Agriculture in Southwest Nebraska Using Multidate Landsat Thematic Mapper Image Classification. E.A. Martinko, K.P. Price, S.L. Egbert, and **J.L. Whistler**. 12/96-7/97. \$111,286.
- Kansas Department of Agriculture, Division of Water Resources. Mapping Irrigated Agriculture in Rawlins County, Kansas and Red Willow County, Nebraska-A Pilot Study Using a Multidate Landsat Image Classification Approach. E.A. Martinko, K.P. Price, S.L. Egbert, and **J.L. Whistler**. 12/95-6/96. \$81,814.
- U.S. Army. \$50,000. 8/93-12/95. Co-Principal Investigator. Identification and Delineation of Loggerhead Shrike Habitat on the Fort Riley Military Reservation.
- Kansas State Conservation Commission. Pracht Wetland Landcover Inventory. **J.L. Whistler**. 5/95-8/95. \$6,154.
- Kansas Water Office (KWO# 94-29). Neosho Vegetation Inventory Study. P.M. Liechti and **J.L. Whistler**. 6/94-6/95. \$23,700.
- U.S. Environmental Protection Agency. A Phenological Approach to Land Cover Characterization Using LANDSAT MSS Data for Analysis of Nonpoint Source Pollution. **J.L. Whistler**. 6/93-6/94. \$11,500. Funded through EPA grant: A regionalized assessment of the influences

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of rural nonpoint source pollution on the ecological integrity of stream ecosystems and evaluation of associated pollution control management. F. deNoyelles, D. Huggins and M. Johnson. \$1,500,000.

Kansas Water Office (KWO# 92-16)--Kansas GIS Policy Board. Development of a Land Cover Database in ARC/INFO Format via Classification of Landsat Thematic Mapper Data. E.A. Martinko and **J.L. Whistler**. 12/91-1/94. \$96,131.

Kansas Water Office (KWO# 91-14)--Kansas GIS Policy Board. Development of a Land Cover Database in ARC/INFO Format via Classification of Landsat Thematic Mapper Data. E.A. Martinko and **J.L. Whistler**. 11/90-11/91. \$83,650.

submitted

none

PROFESSIONAL SERVICE

- Representative for the Kansas Biological Survey to the Technical Advisory Committee, State of Kansas GIS Policy Board (1989-present).
- Member of the Data Access and Support Center Subcommittee of the Technical Advisory Committee, State of Kansas GIS Policy (2001-present).
- Technical Liaison for the Biological Survey to the University of Kansas (2003-present).
- Co-Chair for Data Access and Support Center Subcommittee of the Technical Advisory Committee, State of Kansas GIS Policy (1991-1999).
- Reviewer for *Photogrammetric Engineering and Remote Sensing* (1992-1993).

COMPUTER EXPERTISE

Languages: HTML, PHP, Visual Basic, Pascal, Fortran, ARC Macro Language (AML), pcARC/INFO Simple Macro Language, ERDAS Imagine Toolkit.

Operating Systems: Windows Server 2008, Windows 7, Ubuntu Linux

Application Software: ESRI ArcGIS, ERDAS Imagine.

AREAS OF SPECIALIZATION

Computer processing of remotely sensed data; image interpretation; geospatial analysis of geographic data; geographic information systems; computer cartography; physical geography.

MEMBERSHIPS

American Society for Photogrammetry and Remote Sensing, National Geographic Society, Gamma Theta Upsilon Geography Honor Society (Vice President, 1983-84).