

Morgan J. Bearden
11546 Timberline Drive, Rolla, MO 65401
Home Phone: 573-364-1695

Work Phone: 573-308-3591
Primary e-mail: mbearden@usgs.gov (work)
Citizenship: United States of America

Summary of Qualifications: Master's Degree in Geography with over twenty years experience as a Cartographer with the U.S. Geological Survey and the Defense Mapping Agency.

Experience:

US GEOLOGICAL SURVEY, 1400 Independence Road, Rolla, MO, 65401, 4/88 - Present; Cartographer

USGS-Rolla, NATIONAL MAP CORPS Volunteer Program, 2/2004 to present, Job title: Cartographer; Supervisor: Jerry Wagner 573-308-3764

National coordinator of 2500 volunteers across the United States who collect geographic position and place name information on structures to support the USGS's National Mapping Program. Successfully modernized the program with a web-based collection system, secured nation-wide publicity via USGS web sites and trade publications, and obtained a presence on the Geocaching.com discussion board.

USGS-Rolla, ENHANCING DATA FOR GEOGRAPHIC EXPLORATION (EDGE), 11/1998 - 2/2004, Job title: Cartographer; Supervisor: Russ Caton, 573-308-3649

Developed a procedure to create a proto-type land use/land cover map integrating disparate data. The result was a map of the metropolitan St. Louis area that brought data from five different agencies into a single common attribute scheme and format. Proved the concept of data integration that was pioneered by this project. Produced the land cover component of a water modeling database for experimental watersheds in rural Indiana and Georgia. Investigated the effect of map projections on land cover data.

USGS-Rolla, PUBLIC RELATIONS OFFICE, 7/15/99 - 11/15/99, Job title: Cartographer; Supervisor: Kari Craun 573-308-3802

Managed the Mid-Continent Mapping Center's (MCMC) Public Relations Office. Arranged all tours, both scheduled and spontaneous; wrote news releases concerning the Mapping Center's products, policies, and activities; maintained the visitor's center which displays cartographic, surveying, and other mapping materials; and served as the MCMC spokesperson for media inquiries.

Directed the activities of the Mapping Center's 1999 Open House which included coordinating the activities of several sub committees, monitoring the open house budget, and making contacts and inquiries with numerous other Department of Interior and USGS agencies. The open house attracted over 400 visitors and was reported on regional media.

Conceived of and coordinated a GIS Day event which showcased the efforts of regional city, county, and MCMC activities in GIS. Responded to numerous professional, technical, and lay requests for information and data regarding the activities of the USGS.

USGS - Rolla, DIGITAL COLLECTION AND VERIFICATION SECTION, Land Cover Activities and Digital Cartographic Data Production Activities, 10/89 - 11/98, Supervisor: Mike Jones 573-308-3739

Land Cover Production: Team leader and point of contact for MCMC's Land Cover Characterization Program (LCCP) team. The LCCP involved the multi-spectral analysis of temporal satellite data and numerous categories of ancillary data to produce land cover maps of multi-state regions. Both coordinated and participated in every aspect of the land cover project including training, development of procedures, and supervising field trips. Resulted in land cover products covering south central Texas, central Nebraska/east Colorado, and central Colorado/Utah/Nevada.

Digital Cartographic Production: Created and validated Digital Line Graph (DLG) files, performed administrative duties, occasionally served as first line supervisor, researched methods and procedures to make DLG collection more efficient, and coordinated trainee schedules. Served as the primary point of contact for the section's statistical validation program, and secondary point of contact on matters concerning DLG contracting and workshare agreements.

Primary accomplishments: 1) Trained 200 USGS employees in DLG format and concepts, 2) Identified the need and participated in the conceptual development of the DLG Error Checking System (DECS), and 3) Coordinated and served as

team leader for the implementation of a procedure to statistically sample the quality of DLG's receiving a Quality Step Increase and Time Off Award for accomplishments in statistical sampling and quality control.

USGS Rolla, DIRECTOR OF OUTREACH AND EDUCATION, ASPRS: 1/1/96 - 12/31/96; Job title: Member, Board of Directors; Employer: Volunteer position with local ASPRS chapter, Supervisor: Jeff Spooner 573-308-3526 Served on the board of the American Society for Photogrammetry and Remote Sensing-Rolla Region as Director of Education and Outreach. Obtained funding to purchase an historical set of Sanborn Fire Insurance Maps for the local library. Initiated and coordinated the painting of a 30' by 20' map of the United States on four local school playgrounds.

USGS Rolla, STAFF CARTOGRAPHER; 9/1/89 - 12/31/89; Job title: Geographer; Supervisor: Jay Stephens, retired Organized and conducted visitor tours, media relations, and responded to questions from the public regarding the activities of the USGS mapping program.

USGS Rolla, GEOGRAPHIC AND CARTOGRAPHIC RESEARCH AND APPLICATIONS; 4/1/88 - 8/31/89; Job title: Geographer; Supervisor: Alan Turco, retired Researched and investigated the use and application of digital cartographic data, and application software and hardware. Worked with GIS's using raster, vector, and quad-tree data structures.

Investigated the utility of scanned aerial photographs and existing thematic maps as digital data sources; evaluated software packages, investigated proposed digital cartographic standards, provided technical user support, and instructed all new employees (approximately 40) image processing and digital cartography concepts.

USGS Menlo Park, WESTERN MAPPING CENTER, Menlo Park, CA; 5/85 - 4/88 Job title: Cartographer; Supervisor: Bob Marinaro 650-329-4294

Selected for the Cartographer Development Program (CDP) through competitive announcement. The CDP covered every phase of cartographic production and program management in which NMD was engaged. Developed a procedure to collect, process, and plot directionally dependent geologic map symbols. This project simplified the process of placing geologic symbols on digital geologic maps.

DEFENSE MAPPING AGENCY- Hydrographic-Topographic Center, San Antonio, TX 78209; 6/83; to 5/85; Job title: Cartographer; Supervisor: Ernest DeLeon, retired

Duties included compilation and revision of large and small scale topographic maps. Performed detailed interpretation of aerial photographs and compiled and prepared reproduction materials. Trained lower grade employees and monitored their activities during the absence of the unit supervisor.

UNIVERSITY OF GEORGIA LIBRARY-Map Collection, Athens, GA 30502; 3/79 to 5/83 and 5/76 to 9/77; Job title: Librarian's Assistant; Supervisor: Johnnie Sutherland, retired

Performed reference work for Map Collection patrons. Duties included assistance in map usage and aerial photograph interpretation. Assisted patrons in selection of maps and aerial photographs to meet their specific requirements.

UNIVERSITY OF GEORGIA-Department of Geography, Athens, GA; 9/77 to 6/79; Job title: Teaching & Research Assistant; Supervisor: Roy Welch 404-542-2372; John Jensen 803-777-5790

Taught undergraduate and graduate level laboratory sections of the following courses: Introduction to Weather and Climate, Introduction to Physical Geography, and Use and Interpretation of Aerial Photographs.

EDUCATION

University of Georgia, Athens GA, Geography MA 1984

University of Georgia, Athens GA, Geography BS 1977