Office of Information Technology Services
Center for Geographic Information and Analysis
Notification of Application for Grant Funds/Awards, 2009-2010

GeoMAPP Multi-State Demonstration, Learning, and Outreach
Project on Geospatial Preservation Archival

Grant Process: The partnership agreement was submitted to the Library of Congress in May 2009 and awarded in May 2009. Certification of the budget for this grant is pending review by the Joint Legislative Commission on Governmental Operations. Performance contract requires quarterly fiscal and technical updates to the Library of Congress, Office of Contracts and Grants.

Fund 7LOC -- $750,000 -- Zsolt Nagy / Tim Johnson
The NC Center for Geographic Information and Analysis and North Carolina Division of Cultural Resources Government Records Branch have partnered with colleague agencies in Kentucky and Utah to form the Geospatial Multistate Archive and Preservation Partnership (GeoMAPP). The GeoMAPP partnership is in its third year and is supported by the Library of Congress National Digital Information Infrastructure and Preservation Program. The GeoMAPP effort aims to address the preservation of "at risk" and temporally significant digital mapping content. Geospatial data layers containing information about land parcels, zoning, roads, and jurisdictional boundaries change regularly. Existing copies of these data are often at risk of being overwritten when updates or changes are made and these superseded snapshots of data are then lost for future use and analysis. GeoMAPP works with the Library of Congress to develop best practices for the digital archiving of geospatial content, and publicize these advancements with local governments, federal agencies, and professional associations.

National Geospatial Programs Office
NHD Award

Grant Process: The proposal application was submitted June 2009 and awarded in September 2009. Certification of the budget for this grant is pending review by the Joint Legislative Commission on Governmental Operations. Performance contract requires quarterly fiscal updates and an annual technical report to be submitted to USGS.

Fund 7USG -- $91,825 – Joe Sewash
The NC Center for Geographic Information and Analysis (CGIA) is the technical facilitator in the development of the North Carolina Stream Mapping Project. The goal of the NC Stream Mapping Project is to update and improve the digital surface water maps of the state, and is based on the technical standards of the National Hydrography Dataset (NHD). The USGS is the federal agency that develops and maintains the NHD. The USGS has funded CGIA and two other projects teams in Louisiana and Washington to evaluate the effectiveness and develop recommendations for improving NHD for coastal regions. The project awarded to CGIA has three components: (1) documenting business

processes and technical applications used by state agencies and local governments involving NHD and other sources of digital surface water maps and related features in coastal areas; (2) developing technical recommendations for simplifying the technical content of NHD data in coastal environments; and (3) presenting findings of this project to neighboring states and the USGS for evaluation.

National Geospatial Programs Office NHD Award
Renamed: Conduct Mapping and Image Analysis Services for the
USDA Forest Service EFETAC Department, Asheville, NC

Grant Process: The proposal application was submitted July 2009 and awarded in August 2009. Certification of the budget for this grant is pending review by the Joint Legislative Commission on Governmental Operations. Performance contract requires quarterly fiscal updates and an annual technical report to be submitted to US Forest Service (USFS).

Fund 7UFS -- $143,696 – Joe Sewash

The USFS Eastern Forest Environmental Threat Assessment Center (EFETAC) contracted CGIA to investigate the use of satellite images and digital elevation data for modeling forest vegetation on federal lands to develop maps showing the location, volume, and volatility of vegetation that fuels forest fires and the influence of seasonal changes of forest canopy fires. CGIA will analyze satellite images to show the distribution of vegetation types in different seasons, and will develop analytical processes for identifying the density of evergreen vegetation that are between one meter and five meters above the ground. These products will support EFETAC in understanding key factors in how forest fires progress, and can guide improvements in forest resource management.