

GeoMAPP: Using Metadata to Help Preserve Geospatial Content

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What is GeoMAPP?

- Preservation of "at risk" superseded geospatial content
- Building the relationship between State GIS and Archives staff
- Interstate partnerships
- Exploration of business case drivers
- Data replication among several states
- Implementation of a geographically disperse contentexchange network
- Local, state and national outreach

Who is GeoMAPP?

- Kentucky Department of Libraries and Archives (KDLA)
- Kentucky Division of Geographic Information (DGI)
- NC Center for Geographic Information and Analysis (CGIA)
- North Carolina State Archives
- NC State University Libraries
- Utah Automated Geographic Reference Center (AGRC)
- Utah State Archives



Geospatial Metadata: A primer on the FGDC and ISO standards

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Overview of Two Geospatial Metadata Standards

- Federal Geographic Data Committee (FGDC) Content Standard for Digital Geospatial Metadata
 - Version one (1994) mandated for use by federal agencies in 1995
 - Descriptive metadata, plus some administrative and technical
 - Extensive use at state level, spotty use at local level
 - Problem: content standard without an encoding specification
 - FGDC profiles: ESRI, NBII, Remote Sensing, etc.
- ISO Standards
 - ISO 19115: Geospatial Information Metadata (2003)
 - ▶ ISO 19139: Geospatial Information Metadata XML (2007)
 - North American Profile of ISO to replace FGDC CGDSM
 - Not yet widely implemented in the U.S.

What's in a Geospatial Metadata Record

- Identification Information
- Data Quality Information
- Spatial Data Information
- Spatial Reference Information
- Entity and Attribute Information
- Distribution Information
- Metadata Reference

What Info Might be Important for an Archivist

SGID93.TRANSPORTATION.Roads

Metadata:

- Identification Information
- Data Quality Information
- Spatial Data Organization Information
- Spatial Reference Information
- Entity and Attribute Information
- Distribution Information
- Metadata Reference Information

Identification_Information:

Citation:

Citation_Information:

Originator: Utah Automated Geographic Reference Center Publication Date: May, 2009

Title:

SGID93.TRANSPORTATION.Roads

Geospatial_Data_Presentation_Form: vector digital data

Online Linkage: Server=direct connect; Service=sde:sqlserver:168.177.18.211\AGRC; Database=SGID93; User=Transportation; Version=sde.DEFAULT

Description:

Abstract:

Utah street centerline data for address location, cartography, routing. Uses the unnormalized Utah Transportation Data Model. Data is contibuted regularly from local, county, state, federal, and tribal governments and is aggregated and improved by AGRC

Purpose:

Represent street centerlines for address location, cartography, inventory, and eventually routing purposes. Supplemental Information:

http://sgidinfo.utah.gov (look under Transportation sub category for information on latest updates.)

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: May, 2009

Currentness_Reference:

multication data

For Preservation and Discovery, Data must have Metadata that tells:

- Who: creator of data,
- What: title and description of data,
- Where: geographical extent of data,
- Why: reason the data was created,
- When: when the data was created,
- How: how the data was created.
- Definition of data attributes.

Making Metadata Useful: The Utah Approach

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Draft of Utah's GIS to Archives Data Flow



Making Metadata Useful: The Kentucky Approach

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Kentucky Metadata Workflow into DSpace and iRODS Environment



Making Metadata Useful: The North Carolina Approach

(William)

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NC: From FGDC to MARS

GIS metadata processing for NC OneMap

- Geospatial metadata has lots of great info, but who as the time to fill it all out?
- Using ISO Categories to organize data in our demonstration repository
- Extracting preservation elements from FGDC metadata to allow data access with MARS cataloging









Discussion/Questions