

## MnGeo Committee and Workgroup Reports, FY 2010 Year End

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### Digital Cadastral Data Committee

Report date: September 21, 2010

**Co-chairs:** Curt Carlson, Regional Multiple Listing Service, Sally Wakefield, 1000 Friends of Minnesota

**List of Members and Affiliation:** Those that attend regularly are listed below. Several others monitor the work of the group and attend less-regularly.

Brian Armstrong, Ottertail County  
Larry Charboneau, NCompass Technology  
Jim Dahl, Douglas County  
Jay Krafthefer, Mn/DOT  
Rick Morey, Mn/DOT  
Jane Mueller, Beltrami County  
Bart Richardson, MnDNR  
Mark Sloan, Clay County  
Gloria Stevenson, Todd County  
Jeff Storlie, St. Louis County  
Larry Swenson, MnDNR  
Emma Volz, Lincoln County  
Mark Volz, Lyon County  
Carol Wickenheiser, Clay County

**Dates of 2010 Meetings:** We meet at 10 am on the first Friday of even-numbered months at the Centennial building and connect via ITV to several sites across the state.

2010 meeting dates: 2/5/10; 4/16/10; 6/4/10; 7/23/10; 10/1/10; 12/3/10

**Dates of Future Meetings:** 2/4/11; 4/1/11; 6/1/11; 8/2/11; 10/4/11; 12/6/11

**FY 10 Work Plans and Objectives:** Work to research and develop support for statewide land records modernization.

- Continue to support methods (financial and technical) for increased digital parcel data development throughout Minnesota
- Provide information that helps local governments build, maintain, and utilize digital parcel data
- Research and document best practices for attributing parcel-based GIS land records systems
- Identify and distribute information about the benefits of building a GIS with a focus toward county commissioners or government information technology managers
- Attempt to aggregate existing statewide parcel information to assess the feasibility of the aggregation process
- Encourage data sharing by facilitating communications and information exchange among state agencies and through related organizations

## **FY10 Accomplishments to Date:**

- Create and share matrix of potential transfer attributes based on MetroGIS parcel data standard for counties to review
- Coordinated with Standards Committee to present and discuss potential parcel data standard/best practice
- Host speaker to learn more about recorder fee and potential to support parcel data development and other topics
- All meetings held via ITV and recorded for web access
- Host panel discussion at GIS/LIS to promote an attribute transfer standard for parcel data

## **Needs, Issues and Concerns (if any):**

- Always need more interested and active members

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## **Digital Elevation Committee**

*Awaiting report...*

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## **Emergency Preparedness Committee**

*Report Date: September 11, 2010*

### **1. Organization**

- Chair: Stephen Swazee
- Work Group Co-Chairs:
  - Data: John Hoshal, Mike Dolbow
  - Education: Joella Givens, Rebecca Foster
  - Go Team: Randy Knippel, Chris Martin
  - Outreach: Adam Snegosky, Paul Weinberger
  - NG 9-1-1: Gordon Chinander, Jackie Mines

### **2. FY2010 Accomplishments:**

- Completed work on a \$50,000 FGDC CAP grant. The end product, the Minnesota Structures Collaborative, is the nation's first web-based system that can create "state endorsed" geospatial data layers for schools, hospitals, fire stations and police stations.
- Continued work on the nation's first training program that will certify an individual's knowledge of both GIS and emergency management. Goal is creation of National Incident Management System (NIMS) compliant designations that relate four different levels of competency in this unique field of expertise.
- Grew committee membership from 170 to 199, with 76 serving on one of the committee's five work groups. Committee is believed to be the largest state-based organization of its type. Membership includes individuals from the:
  - GIS, emergency management, public health, public safety, and first response communities, who represent
  - Federal, state, county, city, military, corporate, academic and out-of-state entities (IL, NC, WI).
- Issued a comprehensive after-action report detailing GIS efforts and issues related to the Red River flooding response of spring 2009.

- Placed the EPC Go Team on standby status for anticipated spring flooding in 2010.
- Continued close collaboration with MnGeo in efforts to resolve Go Team command and control issues resulting from creation of MnGeo in May 2009. Goal is a GIS resource request process complying with FEMA standards which will facilitate reimbursement for geospatial services provided during disaster responses.
- Commenced efforts to expand SharedGeo's (EPC non-profit spinoff) support to the public sector by signing three contracts worth \$273,750.
- Pursued an aggressive campaign of outreach and engagement with local, state and national GIS and Emergency Services communities. As detailed below, these efforts included participation in at least 20 major events during FY 2010:

FY 2010 and FY 2011 speaking/outreach events concerning GIS use in the emergency services sector as provided by MnGeo EPC membership:

Date	Event	Location	Type	Participant
<b>FY 2010</b>				
August 6	URISA/NENA National Convention	Providence, RI	Speaking	Swazee
September 22	Association of Minnesota Emergency Managers State Convention	Breezy Point, MN	Table and Speaking	Swazee (1); Snegosky, Zachman
October 16	Minnesota State Fire Chief's Association Convention	Duluth, MN	Table and Speaking	Knippel
October 20	Wisconsin Land Information Association Regional Convention	Eau Claire, WI	Speaking	Swazee
October 22-23	MN GIS-LIS Consortium Conference	Duluth, MN	Table and Speaking	Swazee, Hoshal, Givens (1); Huberty (1); Martin, Morgan (1); Knippel (2)
October 24	GeoFEST State Conference	St. Paul, MN	Table	Swazee
January 12	InfraGard Twin Cities Meeting	St. Paul, MN	Speaking	Swazee
January	Incident Management Team Training	Bloomington, MN	Speaking	Knippel
February 26	Wisconsin Land Information Association State Convention	Appleton, WI	Speaking	Swazee
March 22	U.S. Fire Academy GIS Advisory Working Group	Emmitsburg, MD	Invited participant	Swazee
March 23	GITA Federal Liaison Advisory Group Meeting	Washington, DC	Invited participant	Swazee

April 7	Metropolitan Emergency Managers Association Monthly Meeting	Bloomington, MN	Speaking	Knippel
April 27	GITA National Convention	Phoenix, AZ	Speaking	Swazee (Event top speaker award)
May 20	U.S. Geospatial Intelligence Foundation	Washington, DC	Speaking	Swazee
May 20	MN GIS/LIS Spring Workshop	Arden Hills, MN	Speaking	Knippel (1); Givens (1)
<b>FY 2011 as of September 11, 2010</b>				
July 15	Minnesota Voluntary Organizations Active in Disasters Local Meeting (MNVOAD)	Minneapolis, MN	Speaking	Swazee
September 14	NSGIC National Conference	Minneapolis, MN	Speaking	Blood (1); Swazee (1); Dolbow (1); Knippel (1)
October 1	Crisis Mappers National Conference at Harvard	Boston, MA	Invited Panel/Speaking	Swazee
October 13	Lake County Emergency Management	Two Harbors, MN	Speaking	Swazee
October 14-15	MN GIS/LIS Consortium Conference	Duluth, MN	Table and Speaking	Swazee, Givens, Hoshal, Knippel, Basques (1)
November 9	Stillwater Lutheran Men's Group	Stillwater, MN	Speaking	Swazee

### 3. FY2010 and FY 2011 meetings held/scheduled:

<b>FY2010 Meetings Held</b>	<b>Event Link</b>
September 10	<a href="http://www.gda.state.mn.us/WebCalendar/view_entry.php?id=7323&amp;date=20090910">http://www.gda.state.mn.us/WebCalendar/view_entry.php?id=7323&amp;date=20090910</a>
December 10	<a href="http://www.gda.state.mn.us/WebCalendar/view_entry.php?id=7351&amp;date=20091210">http://www.gda.state.mn.us/WebCalendar/view_entry.php?id=7351&amp;date=20091210</a>
March 11	<a href="http://www.gda.state.mn.us/WebCalendar/view_entry.php?id=7485&amp;date=20100311">http://www.gda.state.mn.us/WebCalendar/view_entry.php?id=7485&amp;date=20100311</a>
June 10	<a href="http://www.gda.state.mn.us/WebCalendar/view_entry.php?id=7574&amp;date=20100610">http://www.gda.state.mn.us/WebCalendar/view_entry.php?id=7574&amp;date=20100610</a>
<b>FY2011 Meetings Held/Scheduled</b>	<b>Event Link</b>
September 9	<a href="http://www.gda.state.mn.us/WebCalendar/view_entry.php?id=7588">http://www.gda.state.mn.us/WebCalendar/view_entry.php?id=7588</a>
December 9	<a href="http://www.gda.state.mn.us/WebCalendar/view_entry.php?id=7488">http://www.gda.state.mn.us/WebCalendar/view_entry.php?id=7488</a>
March 10	<a href="http://www.gda.state.mn.us/WebCalendar/view_entry.php?id=7590">http://www.gda.state.mn.us/WebCalendar/view_entry.php?id=7590</a>
June 9	<a href="http://www.gda.state.mn.us/WebCalendar/view_entry.php?id=7591">http://www.gda.state.mn.us/WebCalendar/view_entry.php?id=7591</a>
<b>Notes:</b>	
1.) Events listed above are the EPC's formal quarterly meetings. The EPC's Steering Committee and five work groups hold separate meetings in support of their respective efforts. As an example, the EPC's Data Work Group held 11 meetings during FY 2010. The listing above also does not include the many ad hoc type	

meetings during the FY where EPC members participated in discussions related to advancing GIS usage in the state's emergency services sector.

2.) Every effort is made to make EPC quarterly meetings available to greater Minnesota through use of teleconferencing and a web enabled presentation screen.

3.) Membership is also occasionally updated via batch emails. To date, four EPC "Updates" have been sent out since start of FY 2010:

- [http://www.gis.state.mn.us/documents/EPC\\_Update15\\_27JUL09\\_sds.pdf](http://www.gis.state.mn.us/documents/EPC_Update15_27JUL09_sds.pdf)
- [http://www.gis.state.mn.us/documents/EPC\\_Update16\\_18OCT09\\_sds.pdf](http://www.gis.state.mn.us/documents/EPC_Update16_18OCT09_sds.pdf)
- [http://www.gis.state.mn.us/documents/EPC\\_Update\\_14MAR10\\_sds.pdf](http://www.gis.state.mn.us/documents/EPC_Update_14MAR10_sds.pdf)
- [https://sites.google.com/site/mngeoepc/home/EPC\\_Update\\_21AUG10\\_sds.pdf?attredirects=0&d=1](https://sites.google.com/site/mngeoepc/home/EPC_Update_21AUG10_sds.pdf?attredirects=0&d=1)

#### **4. FY2011 Work Plan Goals:**

As set by a special meeting of the EPC Steering Committee on February 2<sup>nd</sup>, 2010, the EPC's top five goals for FY2011 continue as they were for the last half of FY 2010:

- Significantly upgrade and refine the EPC current public web services as a means to promote outreach and education, while transitioning as much of the EPC's Dakota County SharePoint site to Minnesota State government systems as possible.
- Complete development of the Geospatial Emergency Management Specialist (GEMS) training program so that it is available to quantify the geospatial and emergency management training of GIS professionals.
- Work closely with MnGeo and HSEM to develop geospatial resources "typing" in line with NIMS/EMAC concepts.
- Through MOU or other appropriate documentation, create an official recognition of "Go Team" status that will facilitate FEMA reimbursement for disaster-related response activities.
- As requested by competent authority, be prepared to provide geospatial support to a disaster response anywhere in Minnesota.

#### **5. FY2011 activities and accomplishments to date:**

- In coordination with MnGeo, obtained additional funding for the Minnesota Structures Collaborative. Additional funds flowing to MnGeo for project support include \$14,500 from the DNR and \$25,000 from USGS.
- Based on a year long evaluation and rewrite of the EPC's "U.S. National Grid Location Marker Proposal", and after a August 24, 2010 review meeting with individuals from the Minnesota DNR, Mn/DOT, and Minnesota State Fire Marshal's office, released version 2.3 on September 1<sup>st</sup>. Proposal is now thought well enough developed to allow field trials to proceed.
- Began work with Lake County, MN, to develop a field testing plan for USNG markers along the Yukon Trail.
- Began work on a program that will provide information tailored to the needs of the emergency services sector on usage and functionality of various GPS units.

#### **6. Additional information or issues that need to be addressed:**

- In coordination with MnGeo, anticipate applying for an additional \$50,000 FGDC CAP grant supporting the Minnesota Structures Collaborative.

- In coordination with MnGeo, anticipate working with the Geospatial Information and Technology Association to formalize GEMS as a national program. It is believed this program could potentially become a significant funding stream to MnGeo.
- To support a program of committee recognition and other important administrative requirements, need a definitive determination concerning committee's organizational linkage and name. Is the committee the MnGeo Emergency Preparedness Committee, or the Minnesota Statewide Geospatial Advisory Council Emergency Preparedness Committee?

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## **Hydrography Committee**

*Report date: September 15, 2010*

### **FY2010 Accomplishments**

- Submitted draft standard for Digital Stormwater System Data Exchange to Standards Workgroup – 3/1/2010.
- Draft standard was published on MnGeo website for public review as part of the standards approval process – September, 2010.
  - [http://www.mngeo.state.mn.us/committee/standards/stormwater/stormwater\\_standard.html](http://www.mngeo.state.mn.us/committee/standards/stormwater/stormwater_standard.html)

### **FY2010 Meetings Held**

The full Hydrography Committee did not meet in 2010; however members and subgroups have been active on various issues being addressed by the Committee. The following meetings were held:

- December 10, 2009 – Stormwater Standards Workgroup
- February 24, 2010 – Statewide hydrography data management (MnGeo, DNR, MPCA)
- January 27, 2010 – Stormwater Standards Workgroup
- March 10, 2010 – US/Canada Hydrographic Data Harmonization meeting - International Falls (DNR, MnGeo, MPCA, USGS)

### **FY2011 Work Plan**

- Plan for an integrated approach to statewide hydrography data management
- Plan for implementation, use and maintenance of the framework
  - Refine roles and responsibilities
  - Implement MN NHD data update process
  - Implement event creation and maintenance process
  - Foster development and sharing of applications and tools
- Integrate DNR 24K hydrography data improvements into MN NHD
- Plan for future maintenance and stewardship of MN Watershed Boundaries
- Continue Phase 1 wetlands mapping activity and maintenance strategy
- Continue development of storm water mapping guidance

### **FY2011 Meetings (held & scheduled)**

The next meeting of the Hydrography Committee is scheduled for Tuesday, September 28, 2010 from 1:30 to 3:30 in Room 1-2 of the MPCA building (520 Lafayette Rd N., St. Paul).

### **FY2011 Activities and accomplishments to date**

- None to date

## **Additional information including any issues you would like to bring forward**

New hydro data and projects for GIS community:

- New version of StreamStats was developed by USGS-WRD, Mounds View and published in June, 2010: <http://water.usgs.gov/osw/streamstats/minnesota.html>
- DNR developed new MN catchments and derived data layers to replace old watershed boundary files – June, 2010
  - Project description: [http://files.dnr.state.mn.us/publications/waters/lakeshed\\_mapping.pdf](http://files.dnr.state.mn.us/publications/waters/lakeshed_mapping.pdf)
  - Catchments metadata: <http://deli.dnr.state.mn.us/metadata.html?id=L390006150201>
- Award of USGS cooperative agreement grant: NHD Stewardship – June 2010
- Award of EPA challenge grant to MnGeo to pilot development of high resolution NHDPlus – September 2010

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## **Standards Committee**

*Date of Report: September 7, 2010*

**Chair:** Mark Kotz

### **List of Members and Affiliation:**

- David Bitner, MAC
- Chris Cialek, MnGeo
- David Fawcett, MN PCA
- Andrea Grygo, ARDC
- Pete Henschel, Carver County
- Joel Koepp, City of Roseville
- Mark Kotz, Met Council
- Eileen Quam, OET
- Nancy Rader, MnGeo
- Tad Schindler, MN PCA
- Ron Wencl, USGS

### **FY2010 Accomplishments:**

- The Committee worked with the Stormwater Standard Workgroup to approve for public review a draft version of the Standard for Digital Stormwater System Data Exchange.
- Worked with the MetroGIS Address Workgroup to submit a Minnesota response to the draft national address data standard.

**FY2010 Meetings Held:** The Committee meets irregularly, only when there is a need. The only FY10 meeting was held May 16<sup>th</sup>.

### **FY2011 Work Plan:**

- Make draft Standard for Digital Stormwater System Data Exchange available for public review. Review comments and modifications to standard and, if appropriate, approve a draft standard as provisional for approximately a year while it is tested.
- Assess changes needed to the Minnesota Geographic Metadata Guidelines to address changes at the national and international levels and to more adequately document web services.

**FY2011 Meetings (held & scheduled):** No meetings held and none scheduled at this time.

**FY2011 Activities and accomplishments to date:** None of note.

**Additional Info or issues:** None

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## **Geocoding Workgroup**

*Date of Report: September 15, 2010*

**Committee or Workgroup:** - <http://www.mngeo.state.mn.us/workgroup/geocoding/>

**Co-chairs:** Mike Dolbow, Kent Treichel

### **FY2010 Accomplishments:**

- Charter Finalized
- Initial Timeline Sketch Approved
- Initiated Review of Scope & Requirements

### **FY2010 Meetings:**

First Work Team Meeting: June 11, 2010

### **FY 2011 Work Plan**

Basic milestones below have been developed with a goal to create a report and presentation of findings to MnGeo Advisory Councils at the end of the calendar year. We are about a month behind this timeline, but draft Geocoding Service Requirements and Potential Benefits documents (bolded below) are expected by the end of September. We will share those drafts with the larger workgroup for electronic approval at that time.

<b>Milestone / Task</b>	<b>Anticipated Date</b>
Development of detailed project plan	6/30/2010
Identification of State Geocoding business needs	7/16/2010
Identification of geocoding <b>service(s) requirements</b>	8/2/2010
Identification of <b>potential benefits</b>	8/9/2010
Identification of potential costs, both initial and on-going	8/16/2010
Identification of potential geocoding solutions	9/1/2010
Identification of desired support dataset characteristics	9/17/2010
Identification and analysis of available support dataset(s)	10/1/2010
Identification of standards or guidelines	10/12/2010
Identification of services to be developed or acquired	10/15/2010
Development of recommendations for follow-on projects	11/1/2010
Generation of "Report of Findings" (MnGeo AC mtg)	11/9/2010
Presentation of findings (MnGeo AC mtg)	12/29/2010

### **FY 2011 Meetings Held & Scheduled**

All meetings held and scheduled have been for the small work team consisting of Kent Treichel, Mike Dolbow, John Wiersma, and Tim Zimmerman. Workgroup members can request details at any time.

July 16<sup>th</sup>, 2010

August 20<sup>th</sup>, 2010

September 23<sup>rd</sup>, 2010



**Needs, Issues and Concerns (if any):**

Already clear to workgroup that significant data investments are required for a successful outcome, unless obstacles for data sharing between public agencies are reduced or removed. Encourage MnGeo to pursue data practices reform to address this issue.

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**Minnesota Geospatial Commons Workgroup**

(a subgroup of the MetroGIS Technical Leadership Workgroup and the MnGeo Standards Committee)

*Date of Report: September 7, 2010*

**Chair:** Mark Kotz

**List of Members and Affiliation:**

The following people and organizations are stakeholders in this project.

**Project Workgroup:** Plan and design the Commons, advise Implementation Workgroup

- Mark Kotz, Metropolitan Council (Chair)
- Chris Cialek, MnGeo
- Jessica Deegan, Metropolitan Council
- Jim Dickerson, MnGeo
- Jessica Fendos, DEED
- Josh Gumm, Scott County
- Lesley Kadish, MN Historical Society
- Susanne Maeder, MnGeo
- Chris Pouliot, DNR
- Nancy Rader, MnGeo
- Nancy Read, Metro Mosquito Control District
- Dan Ross, Mn/DOT
- Hal Watson, DNR
- Paul Weinberger, Mn/DOT

**Additional Subteam Members not included above:**

- John Harrison, Mn/DOT
- Matt McGuire, Metropolitan Council
- Alison Slaats, 1000 Friends of Minnesota
- Joel Koepp, City of Roseville
- David Brandt, Washington County

**FY2010 Accomplishments:**

- Preliminary functions defined and prioritized
- Workgroup agreed to implement ESRI Geoportals Toolkit as test bed
- Approved project charter
- Conducted online survey
- Created draft project plan
- Researched functionality and configuration options
- Identified a host server
- Developed plan for which Commons functions will be implemented in test
- Designated how selected geoportals software and components will fit into existing architecture
- Reported on survey results to date and compared with list of functions

- Project plan approved by executive sponsors, owners and project manager
- Installed and/or configured hardware and firewall connections
- Installed and configured software (including toolkit and underlying software)

**FY2010 Meetings Held:** The Committee meets monthly, with additional subteam meetings as needed.

**FY2011 Work Plan:**

- Develop a configuration plan
- Define look-and-feel of main pages
- Compile survey results and compare to functions list
- Define roles of Broker (machine and human) and Provider related to quality of service and trust
- Develop a test plan, test cases, and traceability matrix
- Define options for, and recommended functions of broker and how it interfaces with service provider and the application client
- Submit MetroGIS funding proposal
- Implement client functions and complete UI/design work
- Individual agencies contribute resources (e.g. data, services, applications) to test Commons
- Test implemented functions
- Revise any needed implementation pieces
- Revise data or service contributions
- Test Bed running with real data and services - open for comments
- Give presentation about Commons at MN GIS/LIS Consortium Conference
- Assess how implemented functions meet workgroup-defined needs
- Describe what other functionality is needed
- Modify implementation if appropriate, based on feedback
- Recommend how that functionality might be acquired or created
- Recommend whether the ESRI product should be used for a production site
- Create draft recommendations for a production Commons
- Modify and approve recommendations for a production Commons
- Create draft project plan for a Productions Commons
- Modify and approve project plan for a Production Commons
- Report to stakeholder organizations and geospatial community
- Model service level agreements
- Articulate the benefits of sharing services and a system that supports such sharing

**FY2011 Meetings (held & scheduled):** The Committee meets monthly, with additional subteam meetings as needed.

**FY2011 Activities and accomplishments to date:** None of note.

- Developed a configuration plan
- Defined look-and-feel of main web pages
- Compiled survey results and compared to functions list
- Submitted MetroGIS funding proposal

**Additional Info or issues:** None