

Agenda
Southeastern Minnesota GIS User Group Meeting
Thursday, June 25th, 1998
Whitewater State Park Visitor's Center

- 9:00 - 9:15 **Introductions**
- 9:15 - 10:15 **MnDot Basemap Presentation by Chuck Bryant**
- 10:15 - 10:30 **Break**
- 10:30 - 11:30 **GeoMaster Presentation by Jeff Smith**
- 11:30 - 12:00 **Roundtable Discussion about Workshops we could Arrange**
- 12:00 - 12:45 **Lunch (Feel free to bring your own lunch)**
- 12:45 - 1:30 **Plan for Future Meeting**

Directions to the Whitewater State Park Visitor's Center:

Directions: The Visitor's Center is located on MN HWY 74 about 7 miles north of HWY 14 in St. Charles or about 9 miles north of the junction of Interstate 90 and HWY 74 on the south side of St. Charles.

If you have any questions please feel free to call me at 507-359-6003 or email me at pete.knutson@dnr.state.mn.us.

*Next Mtg Sept 24th (see below) 9am
Tim Wilson on GIS
Governor Council
Cooking - needs assessment for GIS*

*Sept 20 200/400 7, 8, 9 St. Cloud
mtg
GPS*

CNR - 200

www.dnr.state.mn.us/mis/gis/2000/06/25/25.htm

From uucp Thu Jun 4 14:37 GMT 1998

X-Mailer: Novell GroupWise 5.2

Date: Wed, 03 Jun 1998 16:29:30 -0500

From: "Pete Knutson" <mnnet!dnr.state.mn.us!pete.knutson>

To: hwmciver@aol.com, jeffgis@aol.com, talk2au@wolf.co.net,
tim.ogg@bwsr.state.mn.us, myrna.halbach@co.goodhue.mn.us,
jk@co.mower.mn.us, mikes@co.mower.mn.us,
chezick.janice@co.olmsted.mn.us, wheeler.phil@co.olmsted.mn.us,
christopher.roy@dot.state.mn.us, tom.glancy@dot.state.mn.us,
dao0@emtc.nbs.gov, brian.johnson@health.state.mn.us,
tlee.roc@ix.netcom.com, waterwarrior@juno.com, srg@ll.net,
kirchner@mbrnet.interex.org, dlc2@mn.nrcs.usda.gov,
jth@mn.nrcs.usda.gov, kalz@mn.nrcs.usda.gov, mkw2@mn.nrcs.usda.gov,
rdl@mn.nrcs.usda.gov, rvh@mn.nrcs.usda.gov, sjs2@mn.nrcs.usda.gov,
slc2@mn.nrcs.usda.gov, cls@mnaustin.fsc.usda.gov,
jdv@mnaustin.fsc.usda.gov, don.yaeger@mnplan.state.mn.us,
laq@mnrochest2.fsc.usda.gov, terry.j.birkenstock@mvp01.usace.army.mil,
lmeinke@nt1.co.winona.mn.us, tbram@nt1.co.winona.mn.us,
carrie.bartz@pca.state.mn.us, david.morrison@pca.state.mn.us,
larry.gunderson@pca.state.mn.us, lee.ganske@pca.state.mn.us,
mark.olsen@pca.state.mn.us, sandeep.burman@pca.state.mn.us,
rwcity@presenter.com, wroot@presenter.com, drichard@rpu.org,
wcook@rpu.org, bdrazkow@smumn.edu, rwenc1@usgs.gov, sanocki@usgs.gov,
bhoffmann@vax2.winona.msus.edu

Cc: pete.knutson@dnr.state.mn.us

Subject: SE MN GIS User Group Agenda

Mime-Version: 1.0

Content-Transfer-Encoding: quoted-printable

Content-Disposition: inline

Who: SE MN GIS User Group

What: Meeting

When: Thursday, June 25th

Where: Whitewater State Park Visitor=27s Center

Meeting Agenda:

9:00 - 9:15 Introductions
9:15 - 10:15 MnDot Basemap Presentation by Chuck Bryant
10:15 - 10:30 Break
10:30 - 11:30 Roundtable Discussion about workshops we could arrange
12:00 - 12:45 Lunch (Bring your own if you want)
12:45 - 1:30 Plan for future meetings

Directions to the Whitewater State Park Visitor=27s Center:

Directions: The Visitor=27s Center is located on MN HWY 74 about 7 miles =
north of HWY 14 in St. Charles or about 9 miles north of the junction of =
Interstate 90 and HWY 74 on the south side of St. Charles.

If you have any questions please feel free to call me at 507-359-6003 or =
email me at pete.knutson=40dnr.state.mn.us

Hope to see you there,

STATE OF MINNESOTA
GPS ADVISORY GROUP MEETING NOTES
March 18, 1998

Attendees

Dave Gorg(Chair)	MnDOT	Gary Elsner	Dept. of Ag
Chuck Bryant(Minutes)	MnDOT	Larry Swenson	DNR
Don Seitz	MnDOT	Lowell Pommerening	DNR
Gene East	MnDOT	Glenn Berts	St. Louis Co.
Norm Livgard	St. Louis Co.	Stephen Nicholson	Kunde Company
Joe Dobesh	MnDOT		

9:00 Introduction of Members and Guests

Dave welcomed guests. Agendas and minutes from the last meeting were distributed.

9:05 Review of January 21, 1998 Meeting Minutes

There were no additions or corrections to the minutes.

9:10 National Differential Global Positioning System (NDGPS)

Dave Gorg presented a slide show with handout explaining the wide range of benefits such a system would provide. Some highlights of the presentation were; *Positive Train Control, Intelligent Transportation System, State and Local Government Applications (mapping transportation infrastructure, 911 emergency response, monitoring of contaminated water, and natural resource management to name a few). The beacon coverage plan seems to be moving forward with an accepted site in North Dakota and South Dakota. Those sites are estimated to be on line in two to four years. The search is on for suitable land owned by the federal government at Camp Ripley near Brainerd. Many parcels are marsh areas and others are timber. Each site has it's own unique problems. If a suitable site is found, a new station could be installed this year.*

Dave attended a two day forum in Raleigh NC. The focus of the forum was the National Height System Modernization. A national system of GPS Base Stations for providing real-time centimeter accuracy, as proposed at the forum, would be extremely expensive. However, the benefits are such that a good case could be made for implementation. Dave mentioned that Greg Frank is working on expanding access to the Geodetic Data Base.

Hard copies of the NDGPS or the Nation Height Modernization System handouts, can be obtained from Chuck Bryant. They will also be available at the May meeting.

9:30 Mn/DOT GPS Coordination Team activity reports

Minnesota GPS Users Group update

Gene East distributed and summarized a report on the testing of an RTK GPS system. The report covers a wide area RTK system from several manufacturers/vendors such as; Control Technologies Inc. (CTI), Diverstech Inc., Nikon/Novatel, Aero Antenna Technology Inc., Carlson Software, and DAP Technologies. Gene mentioned the positive and negative aspects of all hardware/software components used in the testing. The 2 - 3 cm accuracy for RTK would seem to reach its limits at the 10 - 15 km range as stated by the manufacturers. Gene sent copies of his report to all Mn/DOT District Surveys Supervisors, J.P. LeTourneau, Howard Brace, and Dave Gorg. You can contact Gene East (320/231-5195) gene.east@dot.state.mn.us or Chuck Bryant (612/296-1768) chuck.bryant@dot.state.mn.us for copies of the report.

Metro Area CORS Status

Gene distributed a handout which shows the positions, data collection times, site naming conventions, data formats, and more. The five metro CORS are currently collecting data that will be saved for three months. This data can be downloaded from the Mn/DOT web site. If you are internal to Mn/DOT the data is on the DOT-LM server \\DOT_LM\Data\Pub\Pub\Cors.gps . Internet: <http://rocky.dot.state.mn.us> (click on GPS Base Station Data Icon) or <ftp://rocky.dot.state.mn.us/CORS.GPS/>

Contacts:

GPS and Surveying Questions

Bob Fritz
Mn/DOT Metro West Surveys
2055 N. Lilac Dr.
Golden Valley, MN 55422
(612) 797-3106
bob.fritz@dot.state.mn.us

File Access and Availability Questions

Blaine McKeever
Mn/DOT Land Mgmt Automation Unit
395 John Ireland Blvd.
St. Paul, MN 55155
(612) 296-3288
blaine.mckeever@dot.state.mn.us

10:00 St. Louis County RTK

Norm Livgard is working with CTI to setup 7 base stations for cm accuracy in the county. He is interested in a possible partnership to establish total county coverage. Norm also stated that he was able to receive the Duluth beacon signal approximately 100 miles away. There was a request to the Coast Guard some months ago to raise the tower and/or increase the signal strength. It was assumed that the signal strength had been boosted.

10:20 Processing Software

Stephen Nicholson of the Kunde Co. Inc. stated that Waypoint Consulting Inc. develops precise GPS real-time and post-processing position determination software. Waypoint Consulting advertises an easy to use graphical interface and cm accuracy processing of both real-time and static data collection.

Stephen mentioned that the Kunde Co. has a web site and was wondering if there is anything the group would like to see on the site? Possible information would be data not on government web sites.

For further information contact:

Kunde Co. Inc.
2311 Woodbridge St. #170
Roseville, MN 55113
Phone: (612) 484-0114
FAX: (612) 484-0228
E-mail: kundeco@isd.net
Internet: www.kundeco.com

Waypoint Consulting Inc.
210,200 Rivercrest Dr. S.E.
Calgary, Alberta
T2C 2X5 Canada
Phone: (403) 720-3800
FAX: (403) 720-3868
E-mail: wpinfo@waypnt.com
Internet: www.waypnt.com

11:00 Round Table Discussion

Dave Gorg proposed a joint meeting of the GPS Advisory Group and the ProX_User Group. The groups would meet together to discuss mutual issues and then meet separately for those unique user group items. The meeting site being considered is at Camp Ripley. Larry Swenson mentioned that the DNR has a conference room there and will check on the size and availability.

11:30 Meeting Adjourned

Next Meeting

Dave Gorg is working with Dave Hamernick to reach an agreement as to a usable parcel. We would like to have some preliminary agreement that would make the Camp Ripley site workable before a May meeting is scheduled. A date and time will be sent as soon as possible. We are hoping to host the meeting at the new Camp Ripley education building.

Possible agenda items may include but are not limited to:

- Tour of a possible Drainerd area CORS site
- Viewing of Pathfinder Office training CD
- GPS Coordination Team Update
- Coast Guard Beacon Update

Any ideas for agenda items should be sent to:

Dave Gorg
Geodetic Engineer
Office of Land Management
Minnesota Department of Transportation
Mailstop 641
395 John Ireland Boulevard
St. Paul MN. 55155-1899
PROFS: DMG000
E-mail: dave.gorg@dot.state.mn.us
Fax: 612/297-1518
Office: 612/296-5710



Chuck Bryant

Geodetic Services GIS Specialist

Office of Land Management

Mail Stop 641

395 John Ireland Boulevard

St. Paul, MN 55155-1899

E-Mail: chuck.bryant@dot.state.mn.us

Fax: 612/297-1518

Office: 612/296-1768

Thu Mar 05 15:11:56 1998

This message includes two items: 1. The next agenda and 2. Notes from our previous meeting are attached in Notepad (.txt) format. Thanks to Catherine Schmidt for the notes

Thurs

Agenda

Southeastern Minnesota GIS User Group Meeting

Thursday, April 9th 1998

Austin Public Library, Austin MN

- 9:00 - 9:15 Introductions
- 9:15 - 10:15 Introduction to Coordinate Systems by Roger Brand (Surveyor)
- 10:15 - 10:30 Break
- 10:30 - 11:30 Rural County Development of Horizontal and Vertical Control for Basemaps by Richard Walter and Tammy Mauss (Houston County Surveyors Office)
- 11:30 - 12:00 Roundtable Discussions (WWW sites of interest and more)
- 12:00 - 12:30 Lunch (Bring a bag lunch this time. A fridge is available.)
- 12:30 - 1:30 Plan for Future Meetings or Events

Pete Knutson

Directions to the Austin Public Library:

Directions: Take I-90 to Austin. Exit 4th St. SW head south. From 4th SE turn east (left) on 4th Ave. NW, pass Main Street and you are on 4th St. NE. Library will be on north side of road (left) approximately three blocks from Main Street. (follow library signs too...)

Phone numbers: Austin Public Library: (507) 433-2391

If you have any questions please feel free to call me at 507-359-6003 or email me at pete.knutson@dnr.state.mn.us.

Hope to see you there.

Pete Knutson
Region IV/V GIS Coordinator
MN Dept. of Natural Resources
261 Hwy 15 S
New Ulm, MN 56073-8915
(507) 359-6003

Meeting Notes for the Second SE MN GIS User Group Meeting

On Wednesday, February 25th, 1998 a diverse group of GIS/GPS users from southeast Minnesota gathered in the Resource Studies Center of St. Mary's University in Winona.

The first SE MN GIS User Group meeting was held in Rochester on January 7th, 1998. This initial meeting established the desire and interest in continuing a group of SE MN GIS users to meet and support one another in knowledge, data, skill, and camaraderie. Southwest Minnesota participates in a similar group. Pete Knutson (DNR GIS Coordinator for southern Minnesota), chaired the first meeting with Hunter Pape (DNR Region V GIS Support Specialist). Questions regarding the groups organization and purpose should currently be directed towards Pete Knutson, (507) 359-6003 or pete.knutson@dnr.state.mn.us

The first item on the agenda at St. Mary was a roundtable discussion where we talked about training and education. The SE MN GIS User Group will be able to pull resources and skills from within the group to provide training and information to others in the group, overall generating a synthesis of knowledge on GIS to southeastern Minnesota. GIS training (introduction to GIS and a separate introduction to ArcView), was a general interest from the group. There is a clear distinction between the concept of GIS and the different software packages used.

The group also discussed the groups different needs. The group agreed that the development of an initial base map was essential in order to build a foundation for GIS. This is particularly an issue when mapping a smaller geographical region (i.e. Winona County) vs. a larger region (i.e. DNR region V). The following are some of the topics discussed:

- Coordinate Systems and GIS/GPS
- Survey Techniques/Problems in GIS
- Parcel Mapping - problems and solutions with mapping and financing
- Metadata: Keeping everyone on the same page
- Using different systems (i.e. 911 system vs. the Parcel Map - can they work together?)
- Liabilities and Legal problems/ accuracy of database
- USGS products/resources/support
- LMIC products/resources/support
- DOT products/resources/support
- Costs of GIS (both initial start up costs and maintaining costs)
- Obtaining GIS support from governing units (financial and legal)
- Developing a SE MN GIS User Web Page
- Generating an Internet guide to our favorite web sites
- How to use the World Wide Web (http, ftp, downloading files, etc.)
- How to get on line (Internet) help with Arc View problems(ESRI ArcView List)
- Grant writing (training for individual regions and for the group as a whole)
- Public entities working with private businesses (surveyors/engineers) data sharing

This list is by no means all inclusive to the topics discussed. Other issues included where meetings should be held. Training on GIS will need computer class room capabilities. Computers with Internet access will be necessary for Internet training, although inherent access is not needed for the Internet guide to be developed. It is suggested that each attendant bring a list of their favorite web addresses and brief descriptions of the sites contents. David Deschene (Dodge County) volunteered to consolidate this list.

Lonnie Meinke (Winona County Planning) volunteered to develop a survey that will be sent to participants concerning training needs and potential presentations. The survey should be forwarded by participants to others in their region/area, even those who can not or will not attend every meeting or directly use GIS.

The next meeting will be held April 9th, 1998 at the Austin Public Library. The meeting will start with introductions at 9:00. Presentations by Roger Brand and Dick Walters will follow introductions. The presentations will be on surveying issues, coordinate systems, parcel mapping, and the importance of base mapping. The round table discussion will follow the presentations and will continue into the lunch hour. Please bring a sack lunch and stay for more discussion

SE MN GIS User Group Meeting #1 in January 1998

Last Name	First Name	Agency	City	Work Phone	Email Address
Alderson	Stephen	MNDOT	Rochester	(507) 285-7369	
Allen	Scott	Rice County	Faribault	(507) 332-5954	waterwarrior@juno.com
Bauer	Richard	USDA Farm Service Agency	Rochester	(507) 282-6153	
Chezick	Jan	Olmsted County	Rochester	(507) 285-8628	chezick.janice@co.olmsted.mn.us
Connelly	Steve	Olmsted SWCD	Rochester	(507) 280-2850	slc2@mn.nrcs.usda.gov
Cook	Bill	Rochester Public Utilities	Rochester	(507) 280-1558	wcook@rpv.org
Copeland	Dave	USDA	Rochester	(507) 289-6239	dlc2@mn.nrcs.usda.gov
Drazkowski	Barry	St. Mary's University	Winona	(507) 457-6925	bdrazkow@smumn.edu
Gamm	Mark	Dodge County	Mantorville	(507) 635-6273	
Grosso	Jeff	Goodhue County	Red Wing	(612) 388-2812	
Growden	Randy	Rochester Olmsted County	Rochester	(507) 285-8232	growden.randy@co.olmsted.mn.us
Hensley	Ron	Rochester Olmsted County	Rochester	(507) 285-8232	hensley.ron@co.olmsted.mn.us
Hill	Tony	Olmsted County Water Res	Rochester	(507) 285-8982	tlee.roc@ix.netcom.com
Hoffmann	Bea	Southeast Minnesota Water	Winona	(507) 457-5223	bhoffman@vax2.winona.msus.edu
Jensen	Philip	Wabasha County	Wabasha	(612) 565-3669	
Kasak	Jeff	Mower County	Austin	(507) 437-9448	jk@co.mower.mn.us
Kiemenhagen	Larry	Rochester Olmsted County	Rochester	(507) 285-8232	kiemenhagen.larry@co.olmsted.mn.us
Kinneberg	R. Sally	Houston County Zoning / W	Caledonia	(507) 724-5800	
Kirchner	Dennis	Goodhue County	Red Wing	(612) 385-3204	kirchner@mbrnet.interex.org
Knutson	Peter	MN DNR	New Ulm	(507) 359-6003	pete.knutson@dnr.state.mn.us
Lentz	Ryan	Root River SWCD	Caledonia	(507) 724-5261	rdl@mn.nrcs.usda.gov
Meinke	Lonnie	Winona County Planning an	Winona	(507) 457-6506	lmeinke@nt1.co.winona.mn.us
Morrison	Dave	MN PCA	Rochester	(507) 285-7343	david.morrison@pca.state.mn.us
Pape	E. Hunter	MN DNR	Lino Lakes	(507) 281-7778	hunter.pape@dnr.state.mn.us
Persoon	Debbie	MNDOT	Rochester	(507) 281-7777	
Quinnell	Lori	USDA NRCS	Rochester	(507) 289-7454	laq@mnrochest2.fsc.usda.gov
Rasmussen	Donna	Fillmore County Water Plan	Preston	(507) 765-3305	
Richardson	Donn	City of Rochester	Rochester	(507) 280-1509	drichard@rpu.org
Root	Willie	Goodhue County	Red Wing	(612) 385-3107	wroot@pressenter.com

SOUTHEASTERN MINNESOTA GAS USERS GROUP

SURVEY RESULTS

Since the users group formed in January of this year many questions have arisen that no one individual can answer. Because of this fact it was decided a survey of the participants would be the most logical way to obtain the answers. In order to create and maintain a cohesive and useful group we are asking that you take a few minutes to complete the survey. Your cooperation is the key to a successful group.

USER GROUP MEETINGS

YES: 84 %

1) Do you plan on attending the users group meetings? **NO: 16 %**

2) If not, why? (short explanation please) **Will attend those directly pertaining to selves/ Busy Schedule**

3) Is there anything that would motivate you to attend more frequently? **Doughnuts/Presentations/Travel Expense Reimbursement/More Central Meeting Location**

4) What should the frequency of our meetings be? Circle One:

MONTHLY	37 %
BI-MONTHLY	49 %
OTHER (Quarterly)	14 %

5) Currently our meetings are being scheduled in different locations each time. Is this a good idea? **YES: 61 %**
NO: 10 %

COMMENT: Depends on meeting agenda, facility equipment **NUETRAL: 29 %**

6) Should our meetings be at one central location? **YES: 42 %**
NO: 25 %
NUETRAL: 33 %

7) Should our group try to organize "workshops" on specific topics? **YES: 92 %**
NO: 0 %
NUETRAL: 8 %

7a) OR should we try to keep our group meeting as a whole group? **YES: 58 %**
NO: 21 %

COMMENT: Yes, in addition to "workshops" **NUETRAL: 21 %**

8) There has been much discussion on potential topics. One thing becomes clear. As a group we have multiple levels of proficiency. Should we select narrow topics for "fractions of our group to attend, as in a "workshop" setting. Or, should we start at a "base" point and try to bring everyone up to a common level of understanding?

WORKSHOP SETTING: 12 %
BASE POINT: 23 %
MELDING OF BOTH: 65 %

COMMENTS:

- 1) Quarterly "generalized meetings in addition to "workshops"
- 2) Standard "workshops" in morning, Specialized "workshops" in afternoon
- 3) Start at "Base" point for few meetings & then advance, "Remember we need converts at decision making levels!"

TOPICS OF DISCUSSION

Please circle topics of interest. If you would like rate the topics as to level of importance to you.

Surveying	Creating a Base Map	Feature Speakers	RESULTS:	
GIS Startup Costs	Charges for your GIS products	What Can I expect From a GIS	1)Creating a Base Map	50 %
HARN Coordinate System	USGS Data & Services	Data Availability	2)Data Availability	40 %
External Attribute Sources (AS400, Access, Excel etc...)			3)External Attribute Sources	37 %
Communicating with other software (via ODBC or SQL connections)			3)Communicating with other software	37 %
Governors Council on GIS	Creating a Web Page for our Group		4)What Can I Expect From a GIS	33 %
Any Other Suggestions for Topics ?			5)Surveying	30 %
			6)Charges For Your GIS Products	27 %
			6)USGS Data & Services	27 %
			7)GIS Startup Costs	23 %
			7)HARN Coordinate System	23 %
			7)Feature Speakers	23 %
			8)Governors Council on GIS	20 %
			9)Creating a Web Page	7 %

GIS SOFTWARE:

- 1)Do you currently own GIS software ? **YES: 82 % NO: 18 %**
- 2)If so, what is the name of the software ? **ESRI PRODUCTS: 89 % MAPINFO: 4% EPPL7: 17%**
 Arc/Info & Arcview: 76 %
 Arc/Info (only) : 5 % (Apparent error in total percentage is due to participants having more than 1 type of software at their disposal.)
 ArcView (only) : 50 %

- 3)How long have you used this software ?
- YEARS**
- < 1 29 %
 - 1 18 %
 - 2 24 %
 - 3 12 %
 - 4 12 %
 - > 5 5 % (Pete)

- 4)Do you use any other type of software in conjunction with it ? (e.g. AutoCad) **AutoCad -24 %, Access/Word/Excel - 18 %, Adobe Photoshop & Illustrator - 24 %, Image Alchemy - 6 %, Microstation GeoPak - 6 %, ArcCad - 6 %, CivilView - 5 %, SightSurvey - 5 %, AutoCad(softdesk) - 5 %**

- 5)What type of file formats can you utilize, what type can you export? **.dxf, .dem, .dlg, .drg, .dbf, .e00, .eps, .obf, .dwg, .jpg, .bmp, .bil, .bip, .bsq, .pbm, .pcx, .pgm, .png, .ppm, .tif**

- 7)Do you have email/internet access: _____ **YES: 74 % NO: 26 %**
COMMENT: Do not send notes as attachments, email sytem cannot handle (Lori Quinell)

NOTE: PLEASE COPY THIS SURVEY AND PASS IT ON TO ANY OTHER PARTIES YOU THINK HAVE AN INTEREST IN GIS. (smaller units of gov't., private, etc...)

Contact for Survey: Lonnie Meinke, Winona County Planning/Zoning, 171 West 3rd, Winona, MN 55987, (507)457-6506,

lmeinke@NTL.Co.Winona.MN.US **THANK YOU!!!**