

Type of Meeting: Quarterly Board Meeting
Chair: Jim Giglierano - Iowa Department of Natural Resources

**IGIC QUARTERLY MEETING MINUTES - OCTOBER 17, 2012
 JOHNSTON PUBLIC LIBRARY, JOHNSTON, IOWA**

BOARD MEMBERS:

Those members present are identified in **RED ITALICS**. Those members present on the phone in **GOLD**.

Private Enterprise:	
Joe Eckmann, ESRI	Alternate: Brian Hiller
Joshua McNary, Aerial Services	Alternate: Walter Ertz
<i>Pete Buckingham, JCG Land Services</i>	Alternate:
<i>Ryan Smith, The Schneider Corporation</i>	Alternate:
Municipal Government:	
Jessy Willadsen, City of Mason City	Alternate: Tricia Sandahl
<i>Lawrence Hartpence, City of West Des Moines</i>	Alternate:
<i>Dave Croll, City of Johnston</i>	Alternate:
County Government:	
<i>Micah Cutler (Secretary), Hardin/Franklin Co</i>	Alternate: Megan Moeller
<i>Matt Boeck, Story County</i>	Alternate: Jeff Miller
<i>Rick Havel, Johnson County</i>	Alternate: Jay Geisen
<i>Paula Lemke, Cerro Gordo County</i>	Alternate: James Worm
Regional Agency:	
<i>Chris Whitaker, Region XII COG</i>	Alternate:
Eric Sanders, SIMPCO COG	Alternate:
State Agency:	
<i>Chris Ensminger, Iowa DNR</i>	Alternate: Patrick Wilke-Brown

Jon Paoli (Past-Chair), Iowa Homeland Security & Emergency Management Division	Alternate: Curt Sullivan
Jim Giglierano (Chair), Iowa DNR	Alternate: Casey Kohrt
Shawn Blaesing-Thompson, Iowa DOT	Alternate: Brad Cutler
Federal Agency:	
Gregg Hadish, USDA-NRCS	Alternate: Jim Phillips
Karen Rawson, USDA Farm Service Agency	Alternate:
University & College:	
Dr. Anya Butt, Central College	Alternate:
Kevin Kane, Iowa State University	Alternate:
Dr. Simon Geletta, Des Moines University	Alternate:
Christopher Seeger, Iowa State University	Alternate: Alan Jensen
Community College & K-12:	
Terry Brase (Treasurer), Kirkwood Community College	Alternate:
Gail Brown, Kirkwood Community College	Alternate:

Additional Attendees:

Josh Obrecht, Iowa State University; Evan Koester, Iowa GIS Service Bureau; Roger Patocka, Emmet County; Eric Abrams, Iowa DOT; Jim Langtry, USGS; Jason Siebrecht, Linn County; Amy Logan, Iowa GIS Service Bureau; Baofeng Dong; Dan Erker, Infogroup; Chris Cupaldo, Iowa DOT; Cody Barrett, Warren County; and Hilary Copeland Marvin, ECICOG; Mark Warren, MAGIC; and Anna Whipple, City of Des Moines.

Welcome - Call Meeting to Order - Approve Agenda - Approve Minutes

Jim Giglierano called the meeting to order at 10:06am. Introductions were made. The agenda was reviewed. Anya Butt made a motion to approve the agenda. It was 2nd by Kevin Kane. All members present voted aye.

The July 11, 2012, meeting minutes were reviewed. <http://goo.gl/ZGuqw> There were no comments or changes. Paula Lemke made a motion to approve the minutes. It was 2nd by Kevin Kane. All members present voted aye.

Treasurer’s Report

Terry Brase submitted a Financial Report. Current balance is \$5,700.78. The ESRI education license was just paid. IGIC is expecting some payments from universities for the education license. Once all the schools pay, IGIC’s portion of the education license will only be about \$400. Every year Terry submits a 1099 form to the IRS every year. He recently received a letter that he had not submitted the form for 2009 (which he had) but he was able to send it upon request and settle it. He mentioned that managing the ESRI statewide license, the IGIC financial information, and the tax forms is getting a little much to handle by one person. He will be looking for someone to take over the Treasurer’s job in the next year.

Chris Seeger made a motion to approve the Treasurer’s Report. It was 2nd by Paula Lemke. All members present voted aye.

Committee Reports

Website

Josh McNary and Shawn Blaesing-Thompson reported on the progress of the new IGIC website, which can be found at <http://maps.gis.iastate.edu/igic>. There is a separate conference website, <http://conference.iowagis.org/>. Since Josh wasn't attending the meeting in person, he walked the board through the site setup through a Go To Meeting interface. Patrick Wilke-Brown has been able to give Josh access to the existing site to migrate all the information. We will need to set up some training for website contributors in the next year, starting with the Executive Committee after the site is officially launched. Board members are encouraged to explore the site and send comments to Shawn at shawn.blaesing-thompson@dot.iowa.gov or Josh at jmcnary@aerialservicesinc.com.

GIS Clearinghouse

Josh Obrecht report that he, Casey Kohrt, and Patrick Wilke-Brown recently attended the MAGIC clearinghouse conference in South Dakota. There is going to be another push towards standardizing the data. The recent development of ArcGIS Online has raised concerns about disseminating of GIS data without accompanying metadata, using maps developed by other organizations, and other clearinghouse-related issues.

Amy Logan reported that they have been adding records to the clearinghouse and the Iowa DNR will shortly be adding their information. Contact Josh and Amy Logan if you have metadata and want help uploading it to the site.

The Iowa GIS Clearinghouse website is located at <http://www.iowagis.org/geoportal/catalog/main/home.page>.

Geodetic Control

Lawrence Hartpence and Roger Patocka gave a short presentation on low distortion projects. The Iowa DOT is developing an RFP for geodesists to establish a statewide coordinated system of LDP's. Implementation could happen with or without ICEA input, but participation would be prudent. Roger is asking the Board to help spread the word and educate people on the value of low distortion projects.

Iowa GIS Service Bureau

He has been working quite a bit with the Iowa Department of Revenue. Earlier, the Iowa GIS Service Bureau presented at the annual conference for the Iowa State Association of Assessors in Des Moines. As part of the Service Bureau's responsibilities, they partnered with the Iowa Department of Revenue to present assessors with some introductory GIS processes for agricultural land assessment.

Amy Logan reported that metadata training has been going well. The last training under the current CAP grant will be on Thursday, October 18, 2012. The Ramona website, <http://gisinventory.net/>, has been updated and Amy is working with people to get it current. The Ramona GIS Inventory is a service of the National States Geographic Information Council (NSGIC).

Iowa State will be hosting a GIS Day on Wednesday, November 14, 2012. There will be a poster contest and people are encouraged to submit a poster even if they can't attend the day's events. There will be a web connect option if you can't travel.

The GIS Service Bureau has received funding from the Iowa DNR to put on training regarding Quantum GIS, an open source GIS (<http://www.qgis.org/>). It will be targeted to people working with water systems.

Information and news regarding the Iowa GIS Service Bureau blog can be found at <http://iagiservicebureau.blogspot.com>.

MAGIC

Paula Lemke reported on MAGIC activities. There was recently a retreat, which is held every two years. It focused on budget and strategic planning. There are a couple of workshops planned that will focus on next-generation 911 issues and homeland security. They hope to plan one event on each topic and then give regional organizations the tools to duplicate the event locally.

ICIT

Matt Boeck reported on ICIT Tech Team activities. These teams have offered technology evaluations at the request of a county. A couple of the evaluations have involved a GIS review. The ICIT mid-year conference will be the second week of June 2013 at the West Des Moines Marriott. There was an ESRI ArcGIS Online workshop held in Hampton that was opened to any interested GIS professionals that was sponsored by ICIT.

USGS

Jim Langtry reported that was some reorganization of the USGS regions. The Midwest area acquired Missouri, which was previously part of a south central region that no longer exists as a separate region. He brought an Enhanced Elevation Assessment report the the USGS will use to develop a 3D elevation program, which will likely focus on state partnerships.

NSGIC

Jon Paoli spoke about the recent NSGIC conference. Topics that were discussed at the conference included next-generation 911, NENA, and LiDAR. There weren't a lot of IGIC-related topics. NSGIC has been struggling financially and the future of NSGIC is unclear. The next fall conference in 2013 will be in Kansas City, MO.

Regional User Groups

The Board revisited the topic of IGIC supplying funds for paying for a domain name and/or hosting a website for a regional organization. The original inquiry came from Matt Boeck with looking to better organize the Central Iowa Arcusers Organization (CIAO). One suggestion was to use a subdomain of IGIC, such as <http://ciao.iowagic.org>. This would have the benefit of no additional cost, but it does then appear the IGIC is sponsoring the group, which may or may not be considered a negative. It would be easy to add a link to the main IGIC website. Matt Boeck made a motion to allow IGIC resources to be used to create a CIAO subdomain and hosting. It was 2nd by Micah Cutler. All members present voted aye.

IGIC Biennial Conference

The conference committee met after the regular Board meeting. The conference will be April 2-4, 2013. The conference website is up and running. <http://conference.iowagic.org/>. There will be workshops on the Tuesday before the main conference. The opening session will be the Tuesday evening, with keynote Dr. David DiBiase, an ice cream social, and a jazz music event. There will be a social at the Czech village after sessions on Wednesday evening. All events are on the conference website. Please encourage your vendors to sponsors and attend this conference. All Board members are **strongly encouraged** to submit a presentation, which can be found online at the conference website.

Lunch Presentations

Eric Abrams, Iowa DOT, gave a presentation and demonstration of the DOT's snowplow GPS/AVL tracking system. Micah Cutler gave a short demonstration of ArcGIS Online maps that were created for the upcoming elections in Hardin and Franklin Counties.

Ag Adjustment Process

Matt Boeck discussed the current ag adjustment process being looked at by the Iowa Department of Revenue and a state committee. There has never been a standard methodology for dealing with non-tillable land in the assessment process. The issue has recently come to attention because some assessors have removed non-tillable land from exception and landowners are challenging this in certain counties. An Ag Adjustment Standards/Methodology Committee has been established in Iowa to examine how this process might be standardized.

The process has gone through a rules committee and will be enacted by Executive Order by the Governor. The report was scheduled to be released today, October 17, 2012. Stakeholders have roughly two months to comment on the report. The adjustments will be made based on an established formula for counties to follow that uses a county's average CSR value. Counties will have to create a land use layer. If this process is implemented, it will be over several years.

The biggest impact of this on GIS in Iowa is the need for a statewide parcel layer and a statewide land use layer.

State CIO GIS Sub-Committee

Eric Abrams, Chris Ensminger, and Jon Paoli reported that the State CIO set up a GIS sub-committee for state government. The committee is instructed to look at IT solutions for GIS at the state level. The priority of the group is to get the State of Iowa to effectively and efficiently use GIS data and services. There are three phases:

Phase 1. Creating a common map or "map picture" for state agencies; basically a portal.

Phase 2. Standardizing data sharing and access; focus on web services and data storage.

Phase 3. Focusing on assistance to state agencies in using GIS data effectively. This where a state GIS Office may come into play.

There are a lot of similarities with the above objectives and the current Iowa GIS Service Bureau mission. Evan Koester has asked to become a member of the GIS Sub-Committee. There is hope that this won't be compete with the Iowa GIS Service Bureau but somehow enfold the GIS Service Bureau.

Next Meeting

The IGIC Quarterly Meetings have been scheduled for 2013. The meeting dates are: January 16th, July 17th, and October 16th. The Board will also meet during the IGIC Biennial Conference that will be held April 2-4, 2012.

Adjourn

Paula Lemke made a motion to adjourn the meeting and it was 2nd by Chris Seeger. All members present voted aye. The meeting was adjourned at 2:05pm.

Respectfully submitted,
Micah Cutler
IGIC Secretary

Itemized Categories Report
7/1/12 Through 10/31/12

10/15/12

Page 1

Cat/Sub	Date	Account	Num	Description	Memo	Clr	Amount
INCOME							
Education - Revenue	8/30/12	Checking	DEP	S Various Payees	UNI	R	17,000.00
					NICC	R	600.00
					KCC	R	150.00
	9/21/12	Checking	S	Various Colleges In ESR/ Agreement	Indian Hills	R	1,100.00
					Buena Vista University	R	500.00
					Dordt	R	550.00
TOTAL Education - Revenue							<u>19,900.00</u>
Other Inc	9/12/12	Checking	DEP	Dwolla	Test for account transfer	R	0.10
TOTAL Other Inc							<u>0.10</u>
TOTAL INCOME							<u>19,900.10</u>
EXPENSES							
administrative	7/11/12	Checking	734	A+ Conferencing	2772139	R	-36.16
	8/15/12	Checking	736	A+ Conferencing	2791729	R	-41.37
	9/27/12	Checking	739	A+ Conferencing	2838256		-83.62
	10/10/12	Checking	740	A+ Conferencing	2870249102.89		-102.89
					2882239		-15.00
TOTAL administrative							<u>-279.04</u>
Conference-Exp	7/13/12	Checking	735	National Czech And Slovak Museum	deposit for social evening	R	-550.00
	8/16/12	Checking	737	National Czech And Slovak Museum	Membership required for facilitie...	R	-50.00
TOTAL Conference-Exp							<u>-600.00</u>
Education - Exp	9/14/12	Checking	738	ESRI	2012-2013 license	R	-44,000.00
TOTAL Education - Exp							<u>-44,000.00</u>
TOTAL EXPENSES							<u>-44,879.04</u>
OVERALL TOTAL							<u>-24,978.94</u>

Register Report

7/1/12 Through 10/31/12

Date	Account	Num	Description	Memo	Clr	Category	Amount
			BALANCE 6/30/12				30,679.72
7/11/12	Checking	734	A+ Conferencing	2772139	R	administrative	-36.16
7/13/12	Checking	735	National Czech And Slovak Museum	deposit for social evening	R	Conference-Exp	-550.00
8/15/12	Checking	736	A+ Conferencing	2791729	R	administrative	-41.37
8/16/12	Checking	737	National Czech And Slovak Museum	Membership required for facilitie...	R	Conference-Exp	-50.00
8/30/12	Checking	DEP	Various Payees	UNI	R	Education - Revenue	17,000.00
				NICC	R	Education - Revenue	600.00
				KCC	R	Education - Revenue	150.00
9/12/12	Checking	DEP	Dwolla	Test for account transfer	R	Other Inc	0.10
9/14/12	Checking	738	ESRI	2012-2013 license	R	Education - Exp	-44,000.00
9/21/12	Checking	S	Various Colleges In ESRI Agreement	Indian Hills	R	Education - Revenue	1,100.00
				Buena Vista University	R	Education - Revenue	500.00
				Dordt	R	Education - Revenue	550.00
9/27/12	Checking	739	A+ Conferencing	2838256	R	administrative	-83.62
10/10/12	Checking	740	A+ Conferencing	2870249102.89	R	administrative	-102.89
				2882239	R	administrative	-15.00
			TOTAL 7/1/12 - 10/31/12				<u>-24,978.94</u>
			BALANCE 10/31/12				5,700.78
			TOTAL INFLOWS				19,900.10
			TOTAL OUTFLOWS				<u>-44,879.04</u>
			NET TOTAL				<u>-24,978.94</u>

Iowa County Engineers Association Summary - Use of Low Distortion Projections

What is an LDP?

- An LDP is a mapping projection that minimizes the difference between distances depicted in a GIS digital map when compared to the real-world distances “at ground”.
- “Standard” mapping projections are “at sea level” (ellipsoid), and elevation increases the distortion.
- “Standard” mapping projections usually do not have Central Meridian and Latitude origin near project, which increases distortion variability and convergence angle.

How would it make project surveying easier?

- Engineers and Surveyors have used datums “at ground” for years. What is common to practically all plane surveying techniques is that observed elevations and distances are projected to a “local” datum” with its unique point of beginning (POB), or what is sometimes referred to as a flat plane located at approximate, local ground. Higher-precision technology has made distortions more noticeable.
- The value of a GIS increases directly as a function of its accurate portrayal of items of interest:
 - Local government GIS managers are realizing the benefits of incorporating as-builts and COGO.
 - LDP’s provide better decision support from GIS.
- There is virtually no “cost” to using LDP’s once they are established. “On-the-fly” reprojection is a reality and the distortion due to earth curvature and ground height above the ellipsoid is quantifiable.
- Standard Projections are not good enough for local GIS:
 - UTM distortion is 1:2,500 (2.1 ft per mile).
 - SPC distortion is 1:10,000 (0.5 ft per mile).
 - But in both cases distortion at ground is usually much greater.

Would LDP use be mandatory?

- Utilization of LDP’s would be optional. However, it makes sense to reproject to an LDP “on-the-fly” to help simplify techniques and reduce distortions.

How will LDP’s be implemented?

- The Iowa DOT is developing an RFP for geodesists to establish a statewide, coordinated system of LDP’s. Implementation could happen with or without ICEA input, but participation would be prudent.
- Measurement provenance and metadata are extremely important.
- GIS technology has a large, diverse user community, ranging from recreational mappers to professional cartographers, engineers and surveyors. More data from more diverse professionals increases the probability of a greater number of GIS mash-ups.
- When all users better understand and appreciate the methods underlying the use of GIS and Engineering/Surveying data, everyone benefits. Simplifying procedures and reducing distortions are highly desirable to promote teamwork and convergence of data use.

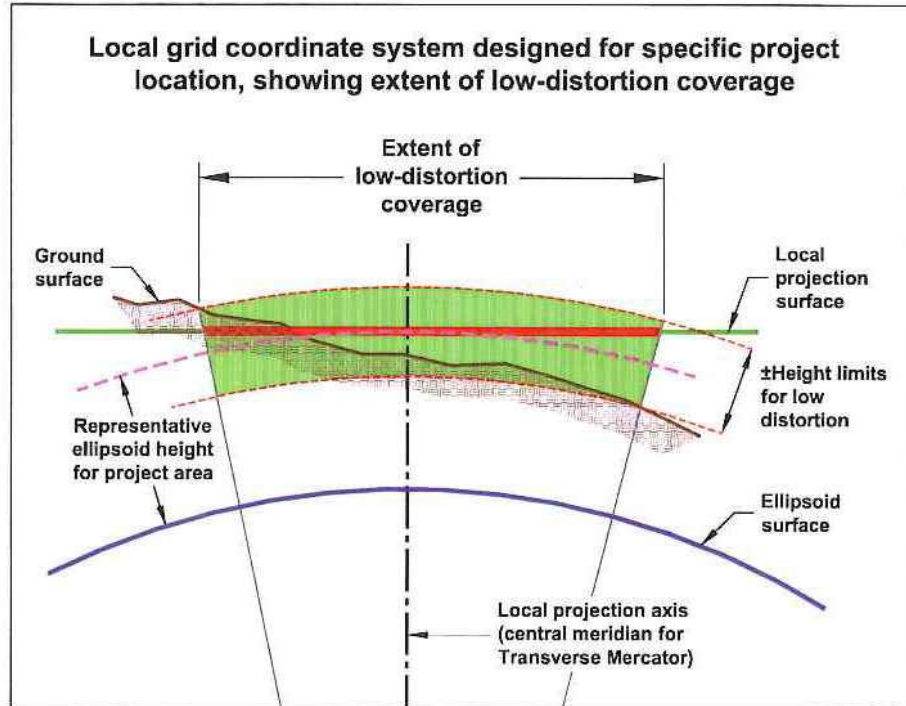


Diagram showing the affect of scaling the projection to a representative height above the ellipsoid.

(Armstrong, Mark L. (Lead Author), [Oregon Coordinate Reference System Handbook and User Guide](#), Version 1.0, Oregon Department of Transportation Highway Division, Geometronics Unit, April 16, 2010, p. 15)

[Version 2.00, March 25, 2011 available at

http://www.oregon.gov/ODOT/HWY/GEOMETRONICS/docs/OCRS_Handbook_User_Guide.pdf?ga=t]

Roger R. Patocka, P.E.
Emmet County Engineer