



GDC (Geographic Data Committee) Meeting

Wednesday, March 3, 2010, 9:30 a.m.

H-GAC Second Floor – Conference Room A

ATTENDANCE ROSTER

The following of the Geographic Data Committee attended all or a portion of the March 3, 2010 GDC Meeting:

City of Deer Park, Stuart Blumberg
City of Houston-Houston Emergency Center, Lee Mays
City of Houston Planning and Development, Larry Nierth, Chris McPhilamy
City of Houston Public Utilities Division, Kirt Arthur
City of Missouri City, Penny Hornsby
City of Pearland, Jameson Appel
City of Sugar Land, Lary Dorrington, Erik Schenk
City of Tomball, Lori Lakatos
Fort Bend County Engineer's Office, Robert Casey Lyde
Greater Harris County 911, Jeff Ledbetter
Harris County Appraisal District, David Moss
Harris County Flood Control District, Scott Lamon
Harris County Information Technology Center, Travis Conner
Harris County Public Health and Environmental Services, Nathan McConnell, Christina Dischinger
Harris County Public Infrastructure Department- Executive, Andre Bally
HDR Claunch & Miller, Inc., Doug Wilson
Houston Advanced Research Center, Zach Vernon
Houston-Galveston Area Council, Tanya Nguyen, Robert LaBarbera
LJA Engineering & Surveying, George Culver
Metropolitan Transit Authority of Harris County, Jose J.
Michael Baker Jr., Inc., Vince Hamilton
Port of Houston Authority, Grant Garrison
Rice University, Kim Ricker, Jean Niswonger, Kim Ricker
TCB,(Turner, Collie & Braden, Bruce Davidson
Texas Department of Transportation, Sheila Gaden, Jeremy Scott
University of Houston-Department of Economics, Janet Kohlase

Visitors

Harold Rogers, III
Laura Hill
Richard Parkins
Nick Popovich
Brandon Grimm
Edgar Smith
Paul Suckow
Darnetta Nelson



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Agenda Item	Action/Discussion/Information	Responsibility
Item 1: Review of the February Minutes	The minutes were accepted as presented.	Scott Lamon (HCFCD)
Item 2: Pixxures Aerial Imagery Presentation	<p>Wendy Luck gave a high level summary of the collection. All resolutions on the photography were captured between January 9th - February 6th, therefore the collection is complete. It took 11 days of total flight time to collect all the imagery. For ground control (AT Solution) Pixxures now has 52 photo identifiable points that were collected from a combination of both Merrick LiDAR Control and additional photo-identifiable points. There were 16 points and 36 new GPS points that were collected. There are 75 possible check points that will most likely not be used. Those will not be used in AT but will be used for an accuracy report. On February 17th Color Sample # 3 was selected for the entire project area. Pixxures is willing to provide guidance to any participants who wish to display their Lamberts in ArcMap with one of the different color samples or contrast settings that were provided as samples. This will only be a display change on the computer screen and will not change anything in the data itself. In addition Pixxures can apply a different coloring contrast to any participation's Lambert Tiffs for a fee after the final delivery. This will be an actual color change to the Tiff files themselves, which will require a separate Lambert delivery to those interested participants. The Image QC Tool will be available after Pixxures Imagery QC Steps have been finalized. Then the TAC Members will be allowed to review it. Pixxures expects to have the entire 6 inch Lamberts ready for the Aerial TAC Review around March 22nd. The processing status as of today (3/3) for 6 inch resolution is about 70% complete. The 1 foot resolution is about 35% complete and the 3 inch resolution is about 25% complete. The following are the steps for the percent completed after it is collected, download and rectified.</p> <p>Seaming is divided up by a block. A block of flight lines are assigned to an image analyst and the seam lines are manually replaced. Next they output the color balance Lamberts once all of the seaming are done. Then they hold an internal kick off meeting with the production team and go over the QC specifications again. Finally everything is divided up by block for strategic QC. This is a QC design to</p>	Wendy Luck (Pixxures)

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	<p>look along every single seam line and every place where the seam line crosses the water ways and review all of the major bridges. Any errors are marked out and listed by resolution for editing. The errors are listed on a QC sheet. Then they do a final round of QC and block the data out in a different way. This way they are not looking at the data in the exact same way. Pixxures blocks the data out and gives it to the project leads. They do a spot check similar to the strategic QC process. The estimated delivery schedule for the TIFFS is July 12th for all the resolutions (3 inch, 6 inch, and 1 foot). Early incremental deliveries are expected where it is efficient to do this. The delivery of the MrSID files will follow within 2 weeks of the Tiff files, which means July 26th at the latest. Merrick is currently assisting with the 1 foot resolution RGB QC. They are paralleling the QA/QC edit process of the 1 foot resolution Lamberts.</p>	
<p>Item 3: InfoUSA License Participation</p>	<p>A total of \$48,900 was pledged for the infoUSA Business and Residential Data. Carrie Clure is willing to give the GDC the data for \$48,900. If your organization would like to participate or needs to renew their license please contact Beverly Bell at Beverly.Bell@h-gac.com. Please keep in mind if your organization has not renewed the license for infoUSA Data they will need to be removed from your computers' storage devices. The new infoUSA Contract becomes effective March 22. The new dataset will be distributed to participants after the Contract has been signed and approved.</p>	<p>Robert LaBarbera (H-GAC)</p>
<p>Item 4: New GDC Logo Contest Results</p>	<p>Congratulations to Andre Bally for (Harris County Public Infrastructure Department of –Executive) the new GDC Logo contest that he won. Andre also designed the original GDC Logo back in the late 1990's as well.</p> 	<p>Grant Garrison (Port of Houston Authority)</p>



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<p>Item 5: 2010 GIS Day Chair Nominations</p>	<p>Kim Ricker of Rice University was nominated for the 2010 GIS Day Chair by Grant Garrison. Please contact Larry Nierth if you are interested in nominating someone or yourself. Final nominations must be submitted before the next GDC meeting.</p>	<p>Larry Nierth (City of Houston)</p>
<p>Item 6: Star*Map Replication Demo</p>	<p>H-GAC has been offering Star*Map Replication for Star*Map Subscribers since June 2009. Star*Map will continue to be provided via CD and FTP as well as through the ArcGIS Server web service to all Star*Map Subscribers. For Star*Map Replication you have to be a subscription member and you must have ArcGIS 9.3. Using the distributed geodatabase toolbar, users can extract the data to their own machines in any kind of geodatabase format they wish. You can download a specific extent or the entire region. Another option is replication where the user would first download the entire region, and then only the updates would be downloaded thereafter (one-way replication). Wenge Fu posts and reconciles the Star*Map geodatabase every week, that will be the update frequency of the geodata service.</p>	<p>Wenge Fu and Thomas Schultz (H-GAC)</p>
<p>Item 7: Mobile LiDAR Technology</p>	<p>Michael Baker purchased an Optech Lynx system for Terrestrial LiDAR mapping. It has two lasers that have sensors that spin at about 1500 revolutions per minute. Collecting 400,000 points per second. The precision on the laser instruments are plus or minus 7 mm vertical accuracy with a horizontal accuracy of 3 cm. In addition there are 2 high definition cameras that take photos at a rate of 3 or 5 frames per second. It also has a kinetic GPS and an initial measurement unit (IMU). The IMU tracks the direction and speed of the vehicle in case you lose your GPS signal. The vehicle drives posted speeds and collects 400,000 points per second at about 600 feet on either side of the vehicle (in a 360 degree view). The sensors are mounted on a vehicle (i.e. Chevy Suburban) at a 45 degree angle as the sensors go out on each side collecting forwards and backwards. This allows them to catch faces of buildings as they are passing. The RGB values from the digital photos can be applied to the LiDAR point cloud for greater image detail. This is not a complete surveying solution and is typically used more for site planning and analysis. Still requires the use of a Licensed Surveyor for setting the Ground Control for the Project area. It is a solution for a quick very detailed inventory including features X,Y, and Z locations in a specific Project area. Provides greater Mapping detail and accuracy than other remote sensed products.</p>	<p>Vince Hamilton (Michael Baker)</p>



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Item 8: Other Issues	<ul style="list-style-type: none">• City of Houston My City GIS application (Chris McPhilamy)• Oblique Imagery Cost-Share (David Moss - HCAD)• GIS Training for 2010 (Robert LaBarbera)	Scott Lamon (HCFCD)
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