



# Geographic Data Committee

## Meeting Minutes Wednesday, December 2, 2009, 9:30 am

### **ATTENDANCE ROSTER**

The following of the Geographic Data Committee attended all or a portion of the

December 2, 2009 GDC Meeting:

Chambers County, Tommy Bridwell  
City of Houston-Houston Emergency Center, Lee Mays  
City of Deer Park, Stuart Blumberg  
City of Houston Emergency Center, Lee Mays  
City of Houston Planning and Development, Larry Nierth  
City of Houston-Public Utilities Division, Kirt Arthur  
City of Missouri City, Ralph Granados, Penny Hornsby  
City of Pearland, Jameson Appel  
City of Sugar Land, Lary Dorrington, Erik Schenk  
City of Tomball, Lori Lakatos  
CivilTech Engineering Inc., Annie Ding  
Fort Bend County Engineer's Office, Robert Casey Lyde  
Greater Harris County 911, Jeff Ledbetter  
Harris County Flood Control District, Scott Lamon  
Harris County Appraisal District, Chengyan Wu, Thang Nguyen  
Harris County Flood Control District, Scott Lamon  
Harris County Information Technology Center, Travis Conner  
Harris County Public Infrastructure Department-Architecture & Engineering Division, Kevin Criss  
HDR Claunch & Miller Inc., Doug Wilson  
Harris County Toll Road Authority, Jason Cowart  
Houston-Galveston Area Council, Tanya Nguyen, Robert LaBarbera  
Metropolitan Transit Authority of Harris County, Jose' James  
Montgomery County 911, Chiu-Wen Ray  
Port of Houston Authority, Grant Garrison  
Rice University, Kim Ricker  
Texas Department of Transportation, Jeremy Scott, Sheila Gaden  
University of Houston-Department of Economics, Janet Kohlhase

### **Visitors**

Nick Popovich  
Claire Devaughan  
Jarrod Young  
Susan Bobbitt  
Larry Jahn  
Dora Mayfield



# Geographic Data Committee

## Meeting Minutes Wednesday, December 2, 2009, 9:30 am

| Agenda Item   | Action/Discussion/Information  | Responsibility                |
|---|--|-------------------------------|
| <b>Item 1:</b><br><b>Review of the December Minutes</b>       | The minutes were accepted as presented.  | Scott Lamon<br>(HCFCD)        |
| <b>Item 2:</b><br><b>Pixxures Aerial Imagery Presentation</b> | <p>Mr. Shepherd gave an overview of where Pixxures is at with the 2010 Aerial Imagery. The existing control network as supplied in the initial Request for Proposals will be used (This includes the NGS monuments). There is an area in the Project Coverage that the Surface Models (DEM) will transition from LiDAR surface to National Elevation Data (NED) dataset. As of now January 1<sup>st</sup> through January 31<sup>st</sup> will be the flight window, unless there is an early freeze before then. The project will be flown in a contiguous manner. Blocks will be assigned that have multiple flight lines. As these flight lines are collected quality control will be done to make sure they are acceptable and meet requirements. Then the production process will begin. The project pilot should be done by the end of March. If you are aware of any existing photo indefinable or permanent momentum control that is known to be in good shape, recoverable and not on private property please let Pixxures know. The ground control and dual frequency airborne GPS and IMU information will be collected during the flight. This will be collected in the post flight process and given to the base station that will be established with in a 50 kilometer range. This is to make sure the data is accurate. Dual Frequency airborne GPS samples per second will be collected. That information is combined with the initial measurement unit. It shows where the plane is at any given moment, direction of flight and altitude. That data is post processed to the base station to give Pixxures a firm calculation in space of where the plane was at any given moment. That is then tied to ground control to solidify an Aero-Triangulation solution. Flying heights will be 9,600 ft above ground level for the 12 inch GSD/Resolution imagery. The 6 inch GSD/Resolution imagery is a fact of the sensor, it just cuts the altitude in half to 4,800 ft above ground level. The same goes for the 3inch GSD/Resolution imagery with a 2,400 ft above ground level altitude. Pixxures will be using the Leica ADS digital sensor for the collection of the imagery. All flight lines will be flown in a north to south direction with the exception of two small western areas. There are a total</p> | Ashley Shepherd<br>(Pixxures) |



# Geographic Data Committee

## Meeting Minutes Wednesday, December 2, 2009, 9:30 am

| Agenda Item   | Action/Discussion/Information   | Responsibility                            |
|---|---|---|
|   | <p>of 51-52 flight lines for the entire project. Following the acquisition of the imagery, processing will begin incrementally on an on-going basis. Pixxures has created an online QC/QA Tool that allows them to host the imagery and shape files for the GDC members to review the imagery. Project Communications will be through a single point of contact Wendy Luck at Pixxures. Final delivery of the 1 Foot Resolution/GSD imagery is expected to be in August 2010. H-GAC will be licensing the imagery through Pixxures with a sunset clause of 18 months after final delivery before it becomes part of the Public Domain.</p>  |   |
| <p><b>Item 3:<br/>Aerial Imagery<br/>Cost Share<br/>Update</b></p>    | <p>All but a few Letters of Intent have been returned. The Inter- Local Agreements are for the partners who are contributing major portions of the Project. We have 48 total participants this year. If you have not turned in your Letter of Intent please get it in as soon as possible. If it is not in soon you run the risk of not getting your area acquired. Also if you did not send your Letter of Intent on your organization's Letterhead please do so. Right now H-GAC is in discussions to possibly get Walker County flown in addition to other areas. Mr. LaBarbera will update everyone at the next GDC Meeting.</p>  | <p>Robert LaBarbera<br/>(H-GAC)</p>       |
| <p><b>Item 4:<br/>Key Map License</b></p>                             | <p>Bob Abbott gave a review of the annual licensing agreement. Key Map and the GDC have used this agreement for about 10 years. The primary purpose of the agreement is to allow GDC members to use the Key Map grid in combination with the STAR*Map, any subsets of STAR*Map or related GIS datasets. Committee members can take the datasets and use them in the public sector (cannot be used by Private members). For example if your organization has a website where you want to show something you created in combination with Key Map the organization can use the Grid. H-GAC will send your organization a copy of the contract. There will also be an addendum that you will need to sign. The cost to participate is an annual fee of \$500. Each organization will send the signed addendum back to H-GAC. Then Key Maps will directly bill/invoice the organization the \$500 fee.</p> | <p>Bob Abbott<br/>(Key Map)</p>           |
| <p><b>Item 5:<br/>GIS Day Wrap up<br/>and Lessons<br/>Learned</b></p> | <p>Larry Nierth thanked everyone that helped make GIS Day a success. Due to the weather only 175 students attended the event this year. However this made the event more manageable. One problem was that the UH University Center double booked the Exhibition Room. Mary Gainer</p>   | <p>Larry Nierth<br/>(City of Houston)</p> |



# Geographic Data Committee

## Meeting Minutes Wednesday, December 2, 2009, 9:30 am

| Agenda Item  | Action/Discussion/Information  | Responsibility  |
|--|--|---|
|  | <p>(NASA) gave a great Key Note Speech. Now we will be looking for a new GIS Day Chair for 2010. Start thinking about nominating someone. Of course please speak to them and let them know you are considering nominating them. We will also be working on a GIS Day Video. Please get with Larry Nierth if you took any footage from the event or photos.</p>   |   |
| <p><b>Item 6:</b><br/><b>New GDC Logo Contest</b></p>                                | <p>Submit your New GDC Logos by January 5<sup>th</sup> at 4pm. Send the logos in a .tiff, .png or .eps to Robert LaBarbera (<a href="mailto:Robert.LaBarbera@h-gac.com">Robert.LaBarbera@h-gac.com</a>).</p>   | <p>Grant Garrison<br/>(Port of Houston Authority)</p> |
| <p><b>Item 7:</b><br/><b>GIS Demo – Locating and Mapping Buried Field Assets</b></p> | <p>Applied Field Data Systems (AFDS) is now able to combine the marking and locating of field assets with GPS &amp; GIS. Marking and locating allows an organization to locate its underground and above ground assets. Utilities need accurate records of their asset locations because:</p> <ul style="list-style-type: none"> <li>• Call before you dig</li> <li>• Locate buried assets quickly especially in emergencies</li> <li>• GASB-34 compliance</li> <li>• Minimize crew response time</li> <li>• Ease of location identification</li> <li>• Identification of the type of asset (water, sewer, gas)</li> </ul> <p>Electric markers come in different sizes and shapes. Markers can be permanent and hold data. This will give the organization the location of the asset and help them find out what it is, before they dig it. The electronic memory marker reads and writes memory. They are used above ground as well as underground. This allows an organization to leave all necessary data on the asset at the site. The data can be accessed and new data can be posted on site and left on site. RFID markers are new to the market. These are radio frequency markers. Each RFID marker has unique ID number. Data can be written to and stored on RFID markers. Also the data can be read from the RFID markers. This allows field crews to use a cheap inexpensive handheld GPS unit like a Garmin or Magellan to find the general location and then use the RFID receiver to find the exact specific location (on top of the asset).</p> | <p>Ashok Wadwani<br/>(Applied Field Data Systems)</p> |
| <p><b>Item 8:</b><br/><b>Other Issues</b></p>  | <ul style="list-style-type: none"> <li>• GIS Training for 2010 – TeachMeGIS</li> <li>• Aerial TAC Meeting immediately after GDC</li> <li>• New GDC Member Representative – Jeff Ledbetter GIS Manager with the Greater Harris County 911 Emergency Network.</li> </ul>   | <p>Scott Lamon<br/>(HCFCD)</p>                        |



# Geographic Data Committee

## Meeting Minutes Wednesday, December 2, 2009, 9:30 am

| Agenda Item | Action/Discussion/Information  | Responsibility |
|-------------|--|----------------|
|             | <ul style="list-style-type: none"><li data-bbox="586 342 1122 365">• CivilTech Engineering – GIS Job Opening</li></ul> |                |