

Imagery Subcommittee Meeting Minutes

December 11, 2006

Subcommittee Members in Attendance:

Sue Carnevale, SANDAG
Steve Kunkel, SANDAG
Tom McDowell, City of Chula Vista
Desiree Ramos for David Lindsay, County of San Diego
Clint Garrison, San Diego County Water Authority
Dan Hildebrand, City of Escondido
Paul Hardwick, Center for Homeland Security
David Toney, Marine Corp Base Camp Pendleton

Others:

Bob Gray, Pinnacle Mapping Technologies, Inc
Brian Mayfield, Pinnacle Mapping Technologies, Inc

Meeting Minutes:

1. Presentation by Pinnacle Mapping Technologies, Inc

Bob and Brian provided the group with information on Pinnacle's DiMac (Digital Module Aerial Camera) large format digital camera and the company's capabilities and experiences in working with the DiMac camera images and images obtained from other digital cameras (Vixel, DMC, and ADS40). They provided information on pros and cons of the various digital cameras currently being used by the industry.

The DiMac camera simultaneously captures multi-spectral data (true color and/or color infrared) at the same resolutions (other digital cameras capture the panchromatic and multi-spectral data at lower resolutions and provide a merged pan-sharpened type of multi-spectral image). This new camera also acquires images in 16 bit thereby providing more detail and information in the images. It also appears that this new technology has the potential to substantially reduce the costs of future image acquisitions.

2. Information on Options for a Regional Terrain Model

David Lindsay followed up and met with representatives of Intermap Technologies to discuss multi-agency pricing options for the NextMap terrain model. However, Intermap does not currently offer an economical, cost-effective way for multiple agencies to purchase this product. In addition, it is cost-prohibitive for one agency to purchase this product as well. At this point in time it would be about \$250,000 for a single agency to purchase the NextMap terrain model for the San Diego region. The multiple agency model requires that each additional agency pay an additional mark up fee of 50% of the initial cost (pro-rated for the area to be purchased).

Two agencies have been contacted and agreed to provide us with a general cost estimate to prepare a regional terrain model for San Diego using the LIDAR technology. Once these are received, Sue will distribute these estimates to the group.

3. Budgetary Cost Estimates for Regional Imagery Acquisition

Since most regional agency needs are mostly being cost-effectively met by the commercially available off-the-shelf imagery products, there does not appear to be the need for a regional imagery acquisition effort or partnership. However; if more complete coverage, higher resolution, and more accurate data are desired, a new, up-to-date terrain model would be required. Since there does not seem to be an economical way to obtain a terrain model for the region, doing an image acquisition project and partnership does not make sense.

Therefore, no cost estimates have been prepared for acquiring regional imagery.

4. Discussion on recommended local policy for providing local imagery to Google Earth/Microsoft

The imagery subcommittee is recommending a policy that imagery acquired locally can be provided to Google Earth, Microsoft, and others by the same means that anyone else can get access to the imagery; i.e. through USGS. We are recommending a policy whereby some version of locally obtained imagery is provided to USGS for inclusion in the public domain; and that all requests for local imagery would be directed to USGS. USGS is in support of this policy. We will discuss this issue further at the next San Diego Regional GIS Council Meeting in January.

5. Need for continued imagery subcommittee meetings

It was determined that the imagery subcommittee has completed all of the tasks it was supposed to investigate and research; therefore we no longer need to meet on a regular basis. However, we will still meet if need arises or if the San Diego Regional GIS Council asks us to conduct further research.

6. Subcommittee report at the January San Diego Regional GIS Council meeting

Tom and David have agreed to make the presentation to the San Diego Regional GIS Council on our work on regional and subregional terrain data and imagery. Sue will organize a meeting or conference call for us to discuss presentation content.

Action Items:

- Contact local agencies and compile an inventory of and metadata for existing subregional terrain models (**Tom**)
- Obtain and distribute cost information obtained for a LIDAR generated terrain model for the region (**Sue**)
- Prepare presentation/handouts for subcommittee report to the San Diego Regional GIS Council (**Tom/David**)