

Pictometry International Corp.

LAR-IAC2 Status Update Ortho and Oblique

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Oblique Project Status

- Flight Planning 100%
- Image Capture 100%
- Process GPS/INS data 100%
- Process Imagery 100%
- Quality Assurance 100%
- Final LiDAR DEM integration 95%
- Copying data to shipment media In Process

- Delivery to Dewberry and Davis week of August 4th or earlier.



Ortho Project Status

- Flight Planning 100%
- Image Capture 100%
- Process GPS/INS data 100%
- Process Imagery 100%
- AT Project Setup 80%
- Automatic Tie Point Generation 80%
- AT Bundle Adjustments 6%
- Delivery to Dewberry (AT review) 8%
- Mosaic processing Not started

AT Bundle adjustments and subsequent tasks currently behind schedule.



Why the schedule slip

Challenges with the AT process:

- To meet the radiometry requirements for this project, a large number of high resolution images were required. For the 4 inch areas of the County, over 240 thousand ortho images were captured (approximately 80 images per square mile)
- To Aero Triangulate (AT) this many images, the County was split into approximately 64 blocks as most AT software can not support more than a few hundred images in a block.
- Original contract with the County included AT for each of the 64 blocks as a separate entity.
 - Good accuracy results for intra-block areas, meet all accuracy requirements
- After several attempts using isolated blocks, it became clear that this process would not have met the County's accuracy requirements due to misalignments at the boundaries of the blocks.



New Methodology

- As a result a different methodology was developed to connect adjacent blocks, eliminate boundary misalignments, and meet project accuracy specifications.
 - Through extensive software changes, increase the number of images per block from several hundred to tens of thousands
 - Reduce number of total blocks from 64 to 12
 - Larger blocks can then be configured to more effectively support control distribution
- Transfer automatically generated tie points from one block to neighboring block
 - Reducing the total number of blocks makes this process feasible in a shorter timeframe
- Treat previously adjusted points as control in adjoining block
- Preserve work already completed on the project
 - Automatic points already generated will be used
 - Estimated 2/3 or more of work is completed



Current AT Status

- One block delivered to Dewberry and Davis
 - Catalina Island
 - Essentially a separate project
- Tie points already generated for 90% of the (4") blocks



Schedule Recovery

- As a result of the schedule slips early in the AT process, Pictometry has significantly increased the computing resources for this project, almost doubling the throughput. In addition the Photogrammetric Engineering staff has been working significant overtime to complete the AT phase as quickly as possible.
- Starting the week of July 28th Pictometry plans on completing 2 to 3 AT 'superblocks' per week.
 - Estimated Total of 12 'superblocks'
- Pictometry will work with the LAR-IAC to prioritize areas of interest within the County. Where technically possible, Pictometry will complete priority areas first.
- If necessary Pictometry will collect additional control to speed up the AT or AT QA process.
- Pictometry will explore other options to further accelerate the schedule.

