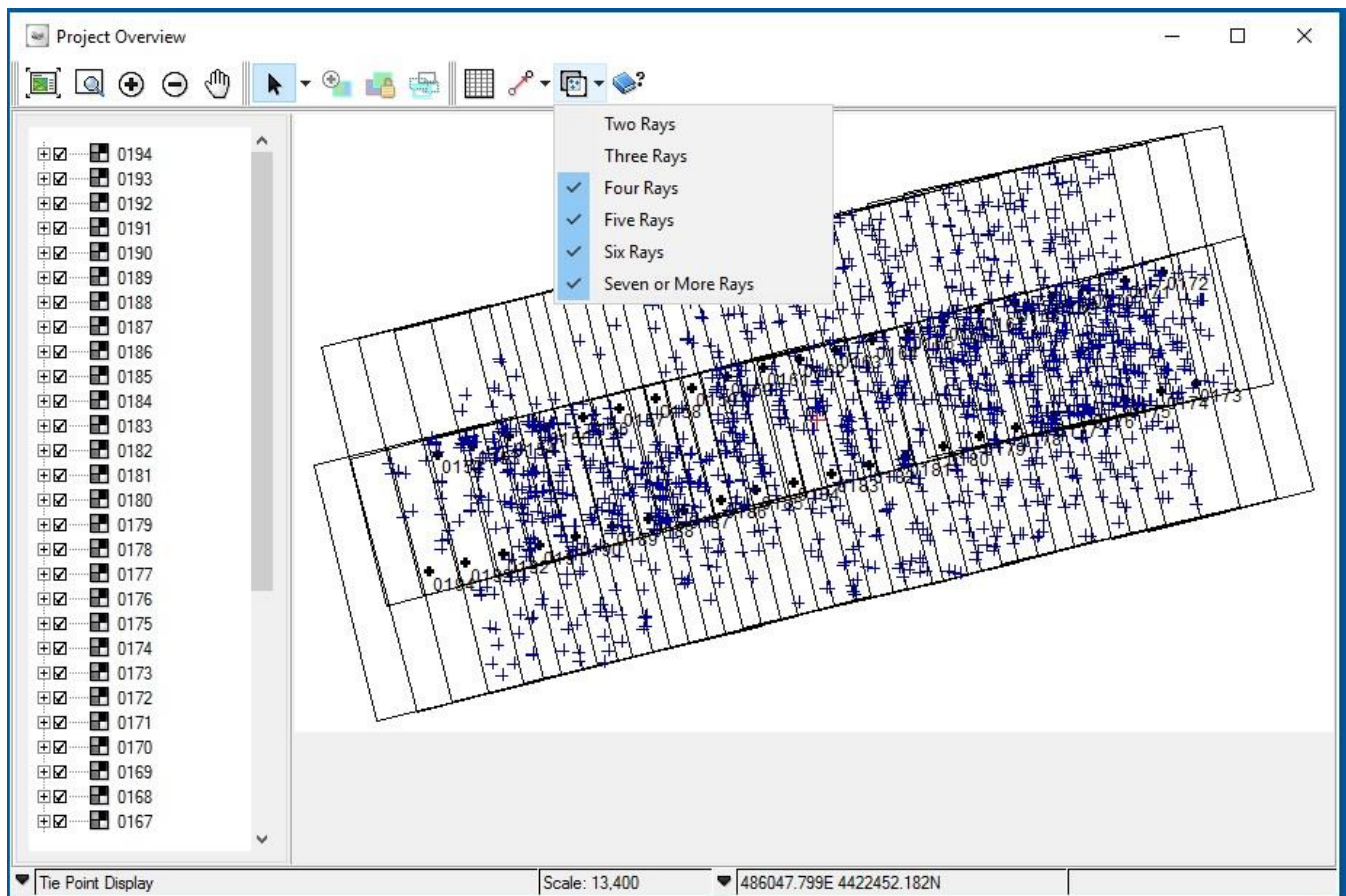


Details on improvements and new capabilities

Aerotriangulation

Tie-point visualization tools

Project overview window in OrthoEngine now allows users to control which TPs to show based on the number of rays associated with a point. A ray is a line of sight drawn from the camera to a point in an image. For example, when a TP is connected to two images it has two rays, when a TP is connected to three images it has three rays, and so on.



This capability allows users to better review the overall distribution of tie-points in the project to determine if any edits are required.

Improved tie-point collection

- Addition of TRIALS parameter, which assists the chosen selection algorithm to find more points.
 - This has been added to the AUTOTIE PPF and also to the Automatic tie-point collection panel in OrthoEngine

NOTE: Using the trials option will make the matching process slower as the system may try multiple times to match in each cell.

Aerial Camera Bundle Adjustment

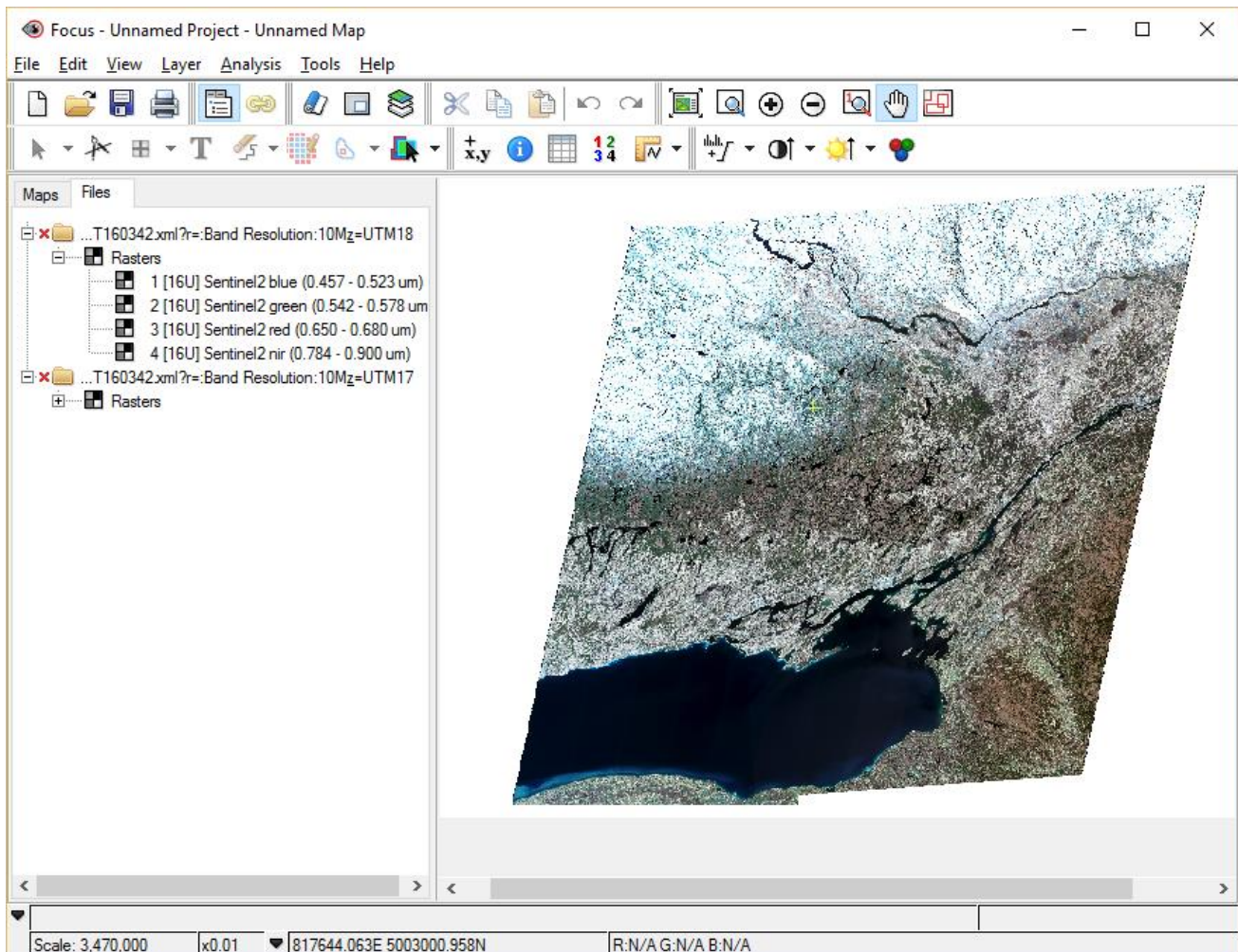
- Calculations now include the ability to correct for:
 - Earth curvature
 - Atmospheric refraction

These changes have been added to the OrthoEngine Camera Calibration panel and also to the OEBUNDLEOPT PPF

Sensor Support Updates

The following sensors are newly supported:

- Sentinel-2: GDB support added for all Level 1C data downloaded from ESA or USGS. GDB support has also added for Level 2A datasets (imagery channels only, not thematic layers)



- Resourcesat-2: Including orbital metadata, GCP segments and atmospheric correction compatibility for AWIFS, LISS3, and LISS4 data



- Kazeosat-2: Including orbital metadata, GCP segments and atmospheric correction compatibility
- KOMPSAT-3A: Full support for the higher resolution sister satellite of KOMPSAT-3
- CBERS-4: Includes orbital metadata, and ortho-correction support for all four cameras, PanMUX, MUXCam, IRS, and WFI
- Jilin-1: Includes orbital metadata, and ortho-correction support

The following sensors have upgraded support:

- Kazeosat-1: Now includes support for level 2 data with RPC information
- KOMPSAT 3: Added support for PSH (pan-sharpened) data sets
- TripleSat: Added atmospheric correction support

ADS Package Updates

New functionality

- ADSL0toL1 PPF: For converting level 0 ADS data to Level 1
- ADSADJUST PPF: For writing the updated math model information to the native ADS format

User Feedback and Requests

As a standard part of any PCI software release, we have spent a great deal of time modifying the Geomatica environment and its processes based on direct customer feedback. Over 20 customer-requests have been addressed in the Geomatica 2016 SP1 release.