

NOMINAL SITUATION (update)

MISR Level 1 products generated with the Camera Geometric Model (CGM) version 7 and Reference Orbit Imagery (ROI) utilized during standard processing represent a significant improvement in terms of georectification and coregistration accuracy if compared with those generated with previous CGM's and without ROI. In the nominal case, the expected mean geolocation error for eight out of nine cameras is below 50 meters. Standard deviations range between 60 meters (A-Nadir camera) and 100 meters (D-forward camera). The overall georectification of the D-aft (Da) camera is somewhat worse than georectification of the other eight cameras. It should be expected that without utilization of the Reference Orbit Imagery (ROI) Da image data will contain an average geolocation error of 500 meters. However data with a product version number 0015 or higher have been produced using ROI in order to take into account dynamic pointing errors remaining after implementation of the static camera pointing models. It is expected that for about 80% of all Da image data georectification errors will be reduced to an average of 100 meters with 250 meters one standard deviation. Previous CGM versions were based upon data from a few months or less. CGM version 7 was produced after extensive analysis of a comprehensive list of MISR image data acquired over an eighteen month time period.

ANOMALIES

It should also be noted that occasional and temporary degradations in attitude accuracy have been observed. These attitude degradations ultimately impact product geolocation and registration. Nevertheless, we expect a very small percentage of data to be affected. There is a list of orbits suspected to suffer from poor attitude accuracy due to orbit maneuvers or orbit attitude data loss.

See also

- [Statement dated July 31, 2002](#) for the statement containing the text of the previous statement.
- [Statement dated April 15, 2002](#) for the statement containing the initial quality evaluation of MISR Camera Geometric Model 7.
- [Statement dated February 5, 2002](#) for information concerning the previous version of the MISR Camera Geometric Model (6).