

## Collection 005 Change Summary for MODIS NIR Water Vapor (05\_L2) Algorithms

Only two changes were implemented in the Collection 005 version of the Water Vapor Near-Infrared (NIR) algorithm:

1. Changes were made to several subroutines and functions so that the MODIS near-IR water vapor algorithm can now properly handle bad and partially missing L1B and Cloud Mask scan lines. Relevant QA flags are now properly set, and improved L3 near-IR water vapor data products will be produced.
2. A processing threshold for solar zenith angle is now set at 85 degrees. Pixels with solar zenith angles less than the new threshold value are processed. In Collection 004 and previous this was set to 80 degrees. This change will allow more low sun angle pixels to be processed.