Radiometric Comparison between Suomi NPP VIIRS and AQUA MODIS using Extended Simultaneous Nadir Overpass in the Low Latitudes

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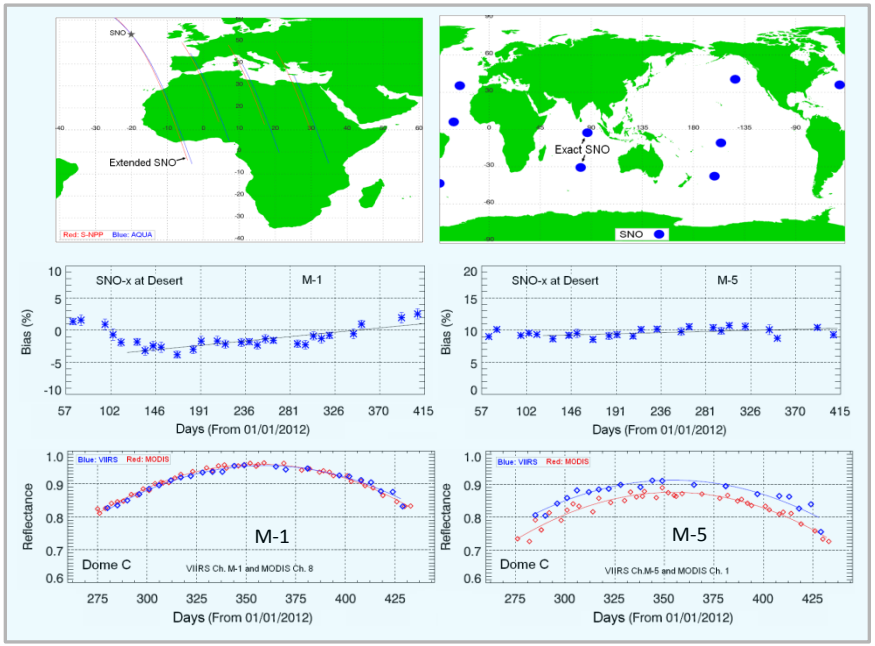
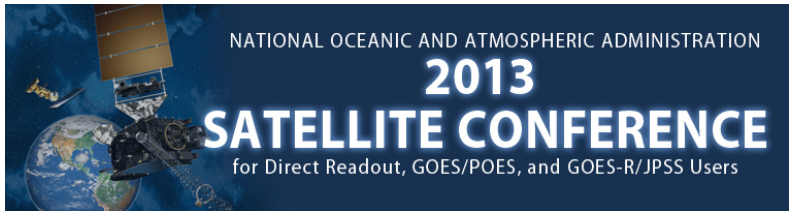
- Extended Simultaneous Nadir Overpass (SNO-x) approach for quantifying radiometric accuracy and calibration stability of S-NPP VIIRS
  - Extends SNO orbits to low latitudes for inter-comparing sensors over a wide dynamic range (analyzed over desert and ocean).
  - VIIRS measurements for VNIR radiometric bands agree with MODIS within 2% (uncertainty < 1%).
  - Antarctica Dome C site can be used to evaluate and verify the calibration stability and radiometric bias calculated using SNO-x approach.



Top: SNO-x Events Mid: VIIRS Bias using SNO-x
Bottom: VIIRS Bias at Antarctica Dome C