Validation of Suomi NPP/VIIRS Operational Aerosol Products through Multi-Sensor Intercomparisions

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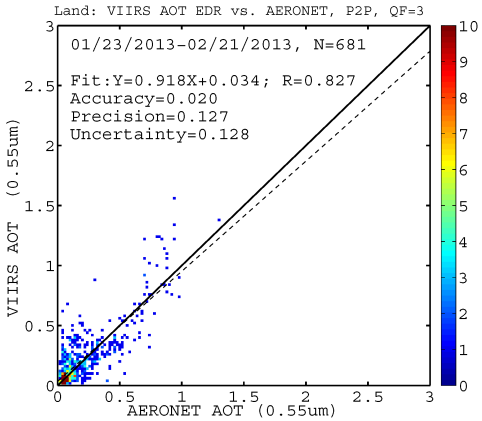
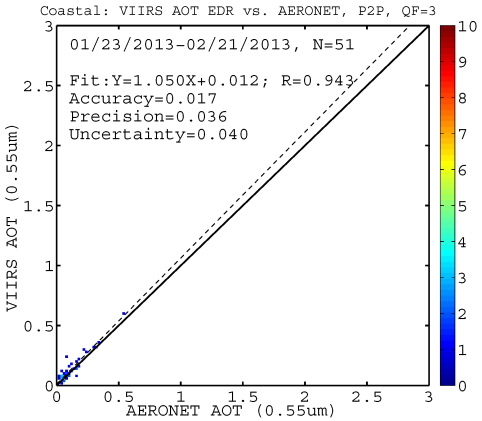
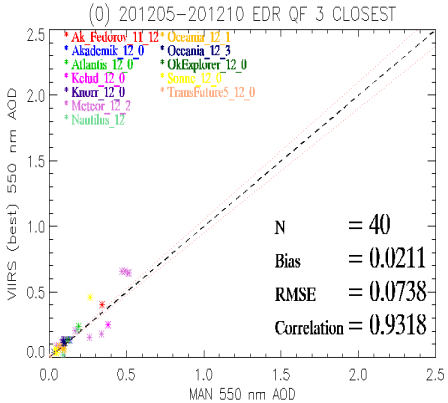
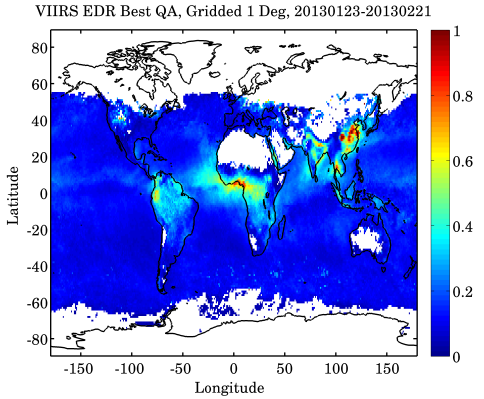
- Suomi NPP/VIIRS provides the aerosol Environment Data Records (EDRs) of:
  - Aerosol optical thickness (AOT) (6km at nadir, released as Beta from 05/02/2012)
  - Aerosol particle size parameter (APSP) EDR (Angstrom Exponent (AE) herein, 6km at nadir, released as Beta from 05/02/2012, not recommended over land)
  - Suspended matter (SM) EDR (750m at nadir, not yet released)
- Through the intercomparisons with multi-sensor products(MODIS, MISR, CALIPSO, AERONET, and MAN), the VIIRS Aerosol EDRs demonstrate great potential in global aerosol monitoring, continuing their heritage satellite products but with better spatial resolution over a wide spectral range and increased daily spatial coverage.

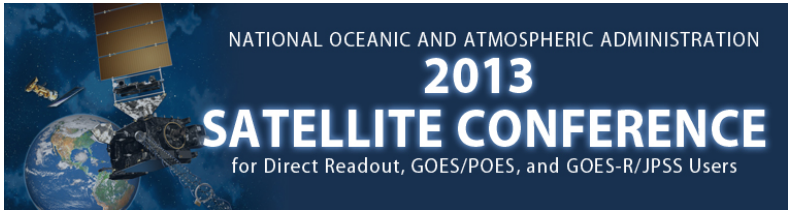








- The VIIRS aerosol EDRs are available form NOAA's Comprehensive Large Array-data Stewardship System (CLASS) (http://www.class.ngdc.noaa.gov).
- VIIRS Aerosol Products Users' guide: http://www.star.nesdis.noaa.gov/jpss/ATBD.php#S126472
- VIIRS Aerosol Products README: http://www.nsof.class.noaa.gov/saa/products/welcome



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