

GOES-R Advanced Baseline Imager (ABI) Aerosol **Product Update**

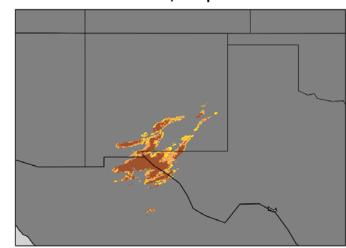
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National Oceanic and Advanced Baseline Imagers Aerosols

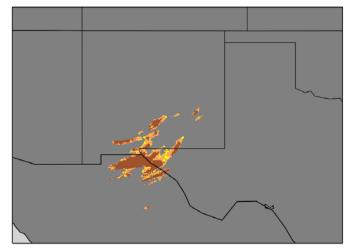
Aerosol Detection 19:00 UTC, 10 Apr 2019

GOES-16/17 ABI Aerosol Imagery and Products

- GeoColor
- **Dust RGB**
- Fire RGB, hot spots, fire radiative power
- **Aerosol Optical Depth**
- Aerosol Detection (smoke/dust)
- Derived surface PM2.5
- GOES-17 Loop Heat Pipe Anomaly impacts mostly IR observations in the night. AOD product is minimally impacted whereas aerosol detection product is impacted certain time of the year. A predictive calibration minimizes the impact.
- GOES-16 AOD has a diurnal bias. We have algorithm improvements coming in to minimize the bias. As an interim, we are providing a bias correction algorithm that users can apply



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Accessing ABI Aerosol Imagery and Products

3

- □ https://www.star.nesdis.noaa.gov/smcd/spb/aq/AerosolWatch/
 - Near real time imagery (GeoColor, AOD, ADP, Fire hot spots, Fire Radiative Power, dust RGB, surface PM2.5). Ten minute refresh
 - Latency 20 minutes from data capture
- □ www.class.noaa.gov
 - Full archive
- □ ftp://ftp.star.nesdis.noaa.gov/pub/smcd/hzhang/GOES-16/NRT/
 - Ten day rotation
 - □ Full Disk, CONUS every 10 minutes

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