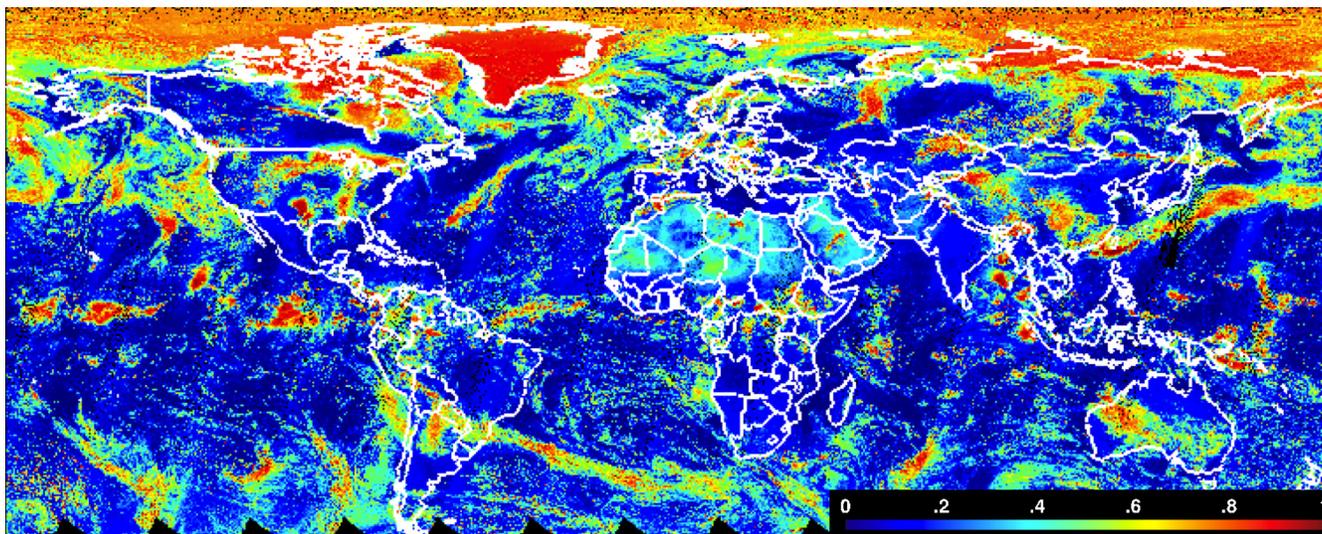




AVHRR RADIANCES - NASA

CLIMATE DATA RECORD

NASA LaRC FCDR Metop-B 0.63 μm Reflectance: 0930 LT 25 May 2015



CLIMATE DATA RECORD SPECIFICATIONS

- Global coverage
- Spatial resolution is 4 km for each channel in near-native GAC format
- Daily orbital product
- Temporal resolution is twice daily between 55°N/S and more than twice daily in polar regions
- Data spans from 1978–2016

VARIABLES TO THIS CLIMATE DATA RECORD

- Solar channel calibration coefficients for AVHRR VIS (0.64 μm), VEG (0.87 μm) and NIR (1.6 μm) channels
- VIS (0.64 μm), VEG (0.87 μm), and NIR (1.6 μm) scaled reflectances

SOME USES OF THIS CLIMATE DATA RECORD

- AVHRR solar channel intercalibration for comparison against other satellites
- Input into NASA Langley Research Center AVHRR cloud and surface radiation properties Climate Data Record
- Radiation balance assessments and studies
- Derivation of cloud and surface essential climate variables
- Detecting and studying climate variability
- Input for solar energy production studies

AVHRR RADIANCES:

<https://www.ncdc.noaa.gov/cdr/fundamental/avhrr-radiances-nasa>

CLIMATE DATA RECORD INFORMATION:

<http://www.ncdc.noaa.gov/cdr>

NOAA's Climate Data Record (CDR)

