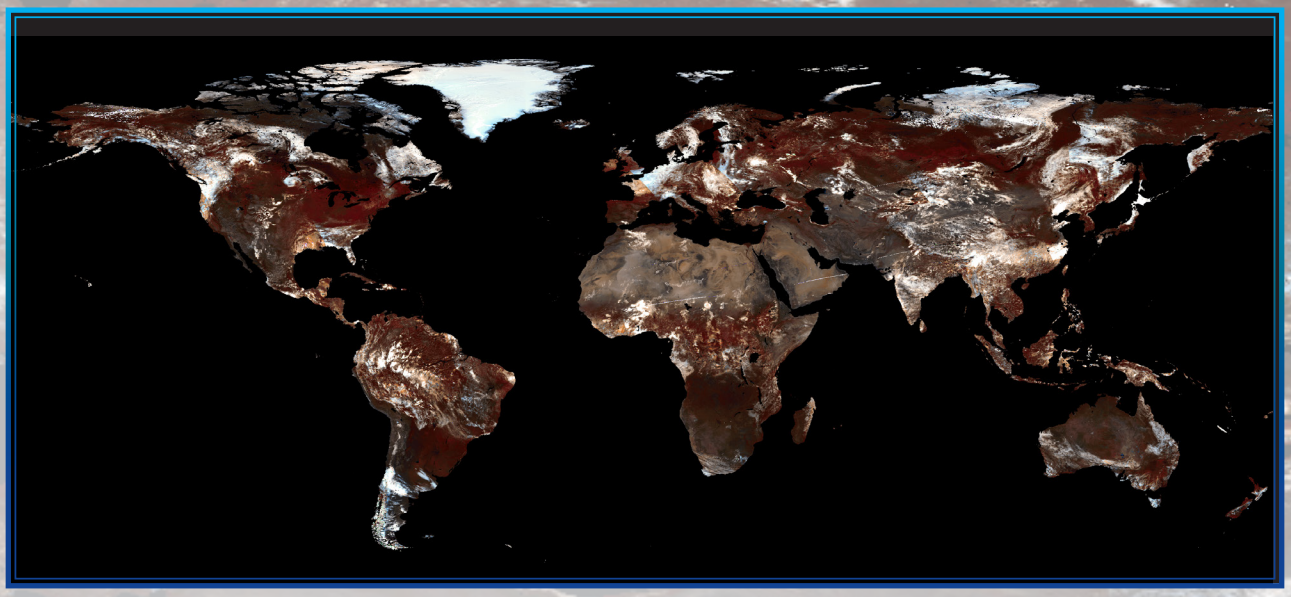
NOAA's Climate Data Record (CDR) Program

AVHRR Surface Reflectance



AVHRR Surface Reflectance Climate Data Record Specifications

- Global Coverage
- 0.05x0.05 Degree
- Daily Product
- 1981–Present
- Routinely Updated (10 day latency)

Inputs to the *AVHRR Surface Reflectance* Climate Data Record

- AVHRR Global Area Coverage Level 1b data
- TOMS ozone data
- NCEP water vapor data
- USGS digital elevation model
- MODIS land/water mask, BRDF database, and BRDF-corrected reflectance climatology

Some Uses of the *AVHRR Surface Reflectance* Climate Data Record

- Input to derive climate data records of:
  - Normalized Difference Vegetation Index (NDVI),
  - Leaf Area Index (LAI),
  - Fraction of Absorbed Photosynthetically Active Radiation (FAPAR)
- Studying long-term climate variability
- Verifying and validating global climate models

AVHRR Surface Reflectance Climate Data Record

http://www.ncdc.noaa.gov/cdr/operationalcdrs.html

Climate Data Record Program Information

http://www.ncdc.noaa.gov/cdr/index.html