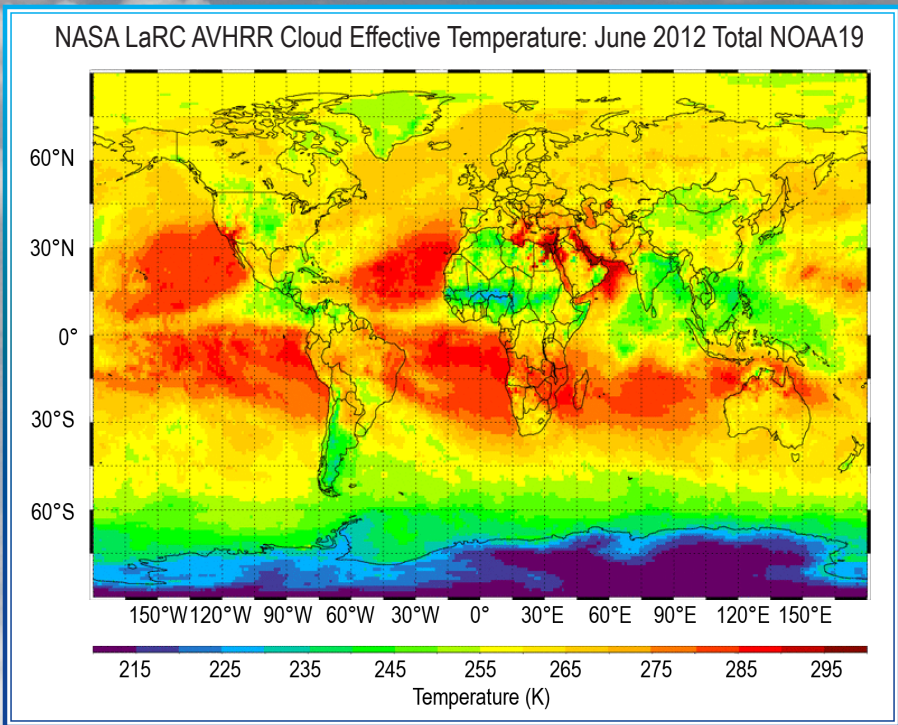




# AVHRR CLOUD PROPERTIES - NASA



## CLIMATE DATA RECORD SPECIFICATIONS

- Global coverage
- 4 km spatial resolution per product in GAC swath projection
- One file per day containing data from up to 15 AVHRR orbits
- Temporal resolution is twice daily between 55°N–55°S and more than twice daily in polar regions
- Temporal resolution is twice daily between 55°N–55°S
- 102 minutes per orbit
- 1978–2016

## VARIABLES TO THIS CLIMATE DATA RECORD

- Cloud amount
- Cloud top height
- Cloud effective height
- Cloud base height
- Cloud top temperature
- Cloud effective temperature
- Cloud base temperature
- Cloud phase
- Cloud reflectivity
- Cloud optical depth
- Effective radius
- Cloud top pressure
- Cloud effective pressure
- Cloud base pressure
- Overshooting cloud top mask
- Pixel skin temperature
- Longwave broadband flux
- Shortwave broadband flux

## SOME USES OF THIS CLIMATE DATA RECORD

### DATA RECORD

- Input into hydrological products to derive global precipitation, water vapor, cloud water, sea-ice concentrations
- Input into land surface products to derive surface albedo and radiation
- Long-term global and regional climate analysis applications such as monitoring, model assimilation, and validation

### AVHRR CLOUD PROPERTIES:

<https://www.ncdc.noaa.gov/cdr/atmospheric/avhrr-cloud-properties-nasa>

### CLIMATE DATA RECORD INFORMATION:

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

## NOAA's Climate Data Record (CDR)



[www.climate.gov](http://www.climate.gov)  
[www.ncei.noaa.gov](http://www.ncei.noaa.gov)