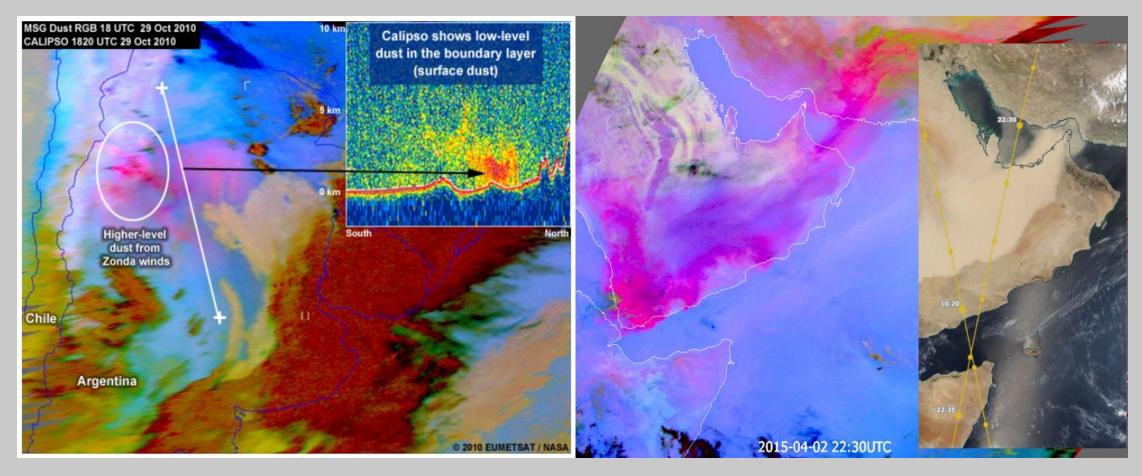
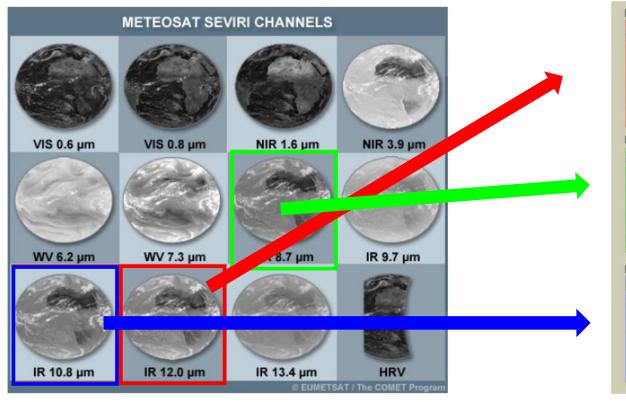
Case Studies Using Dust RGB and CALIPSO

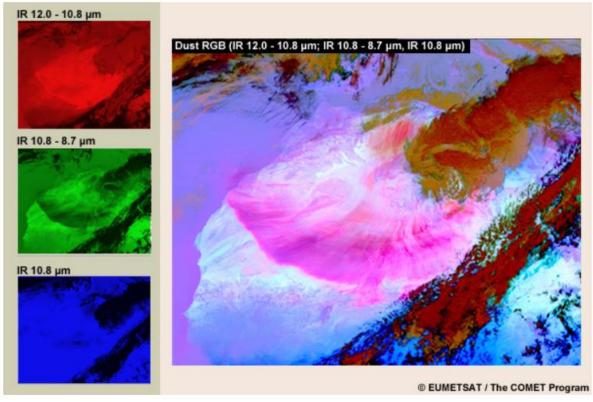


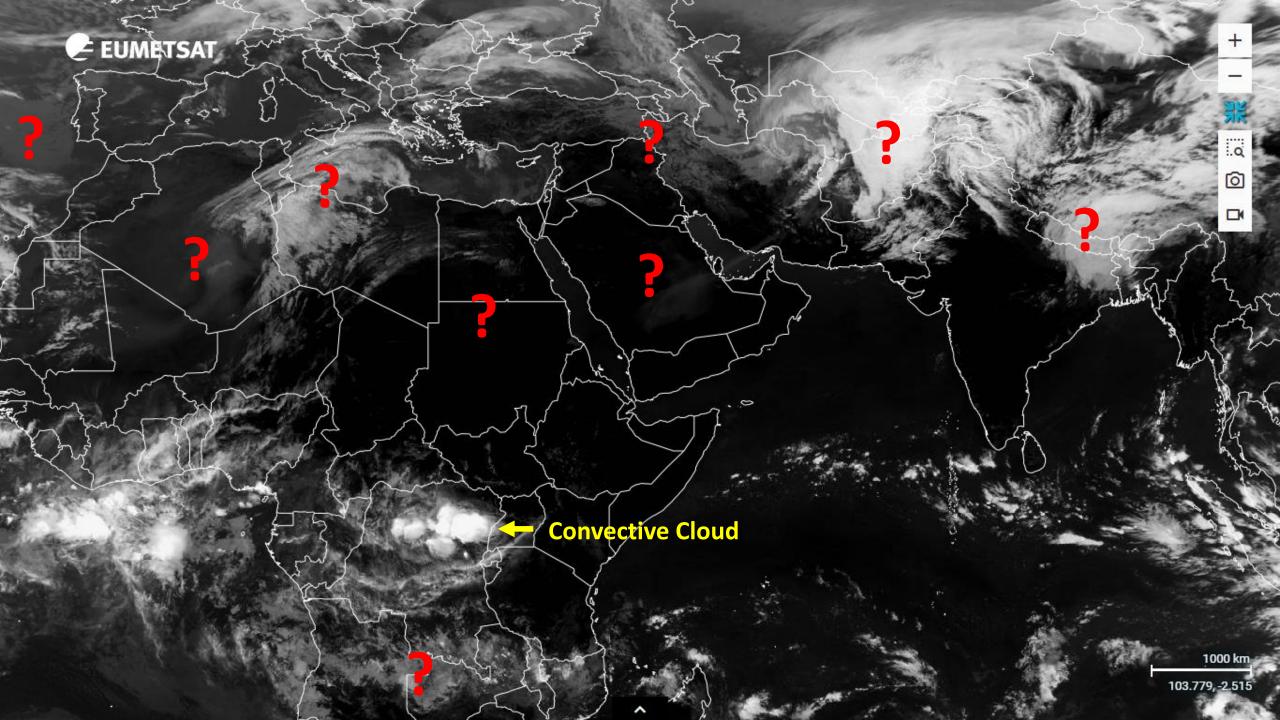
Ibrahim Al Abdulsalam

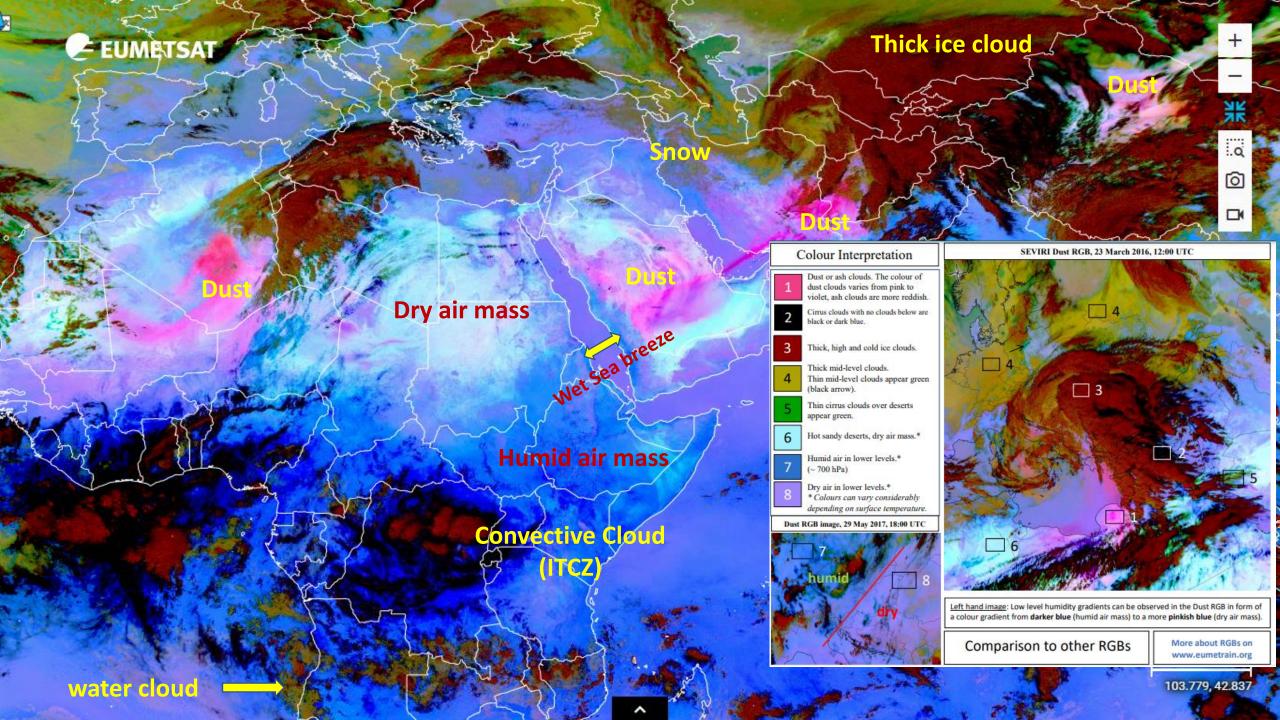
Meteorologist

Directorate General of Meteorology/Oman

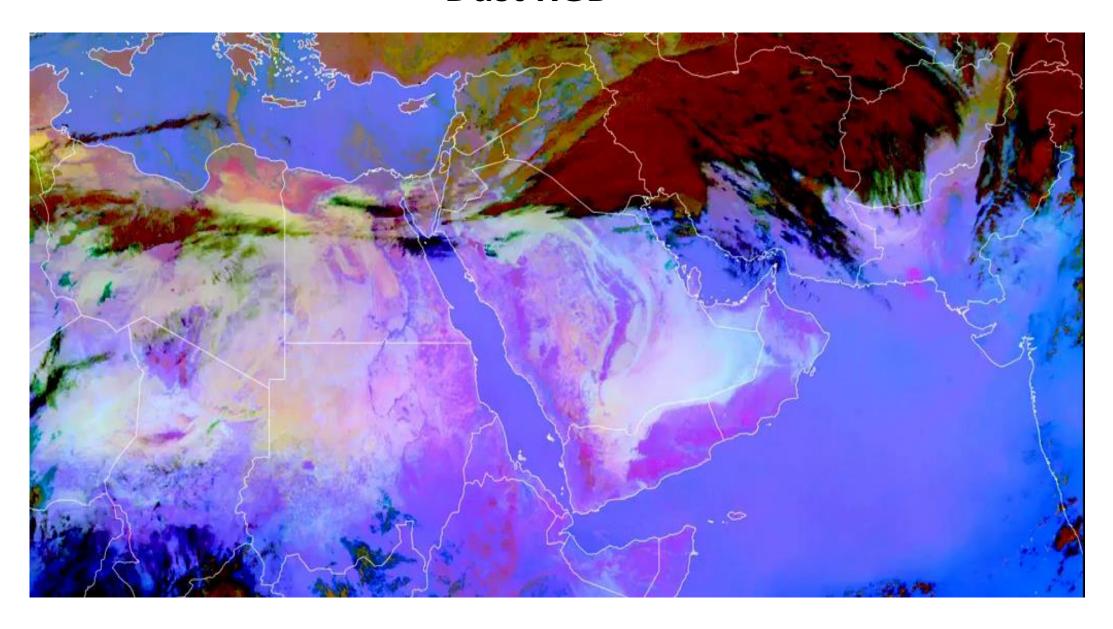


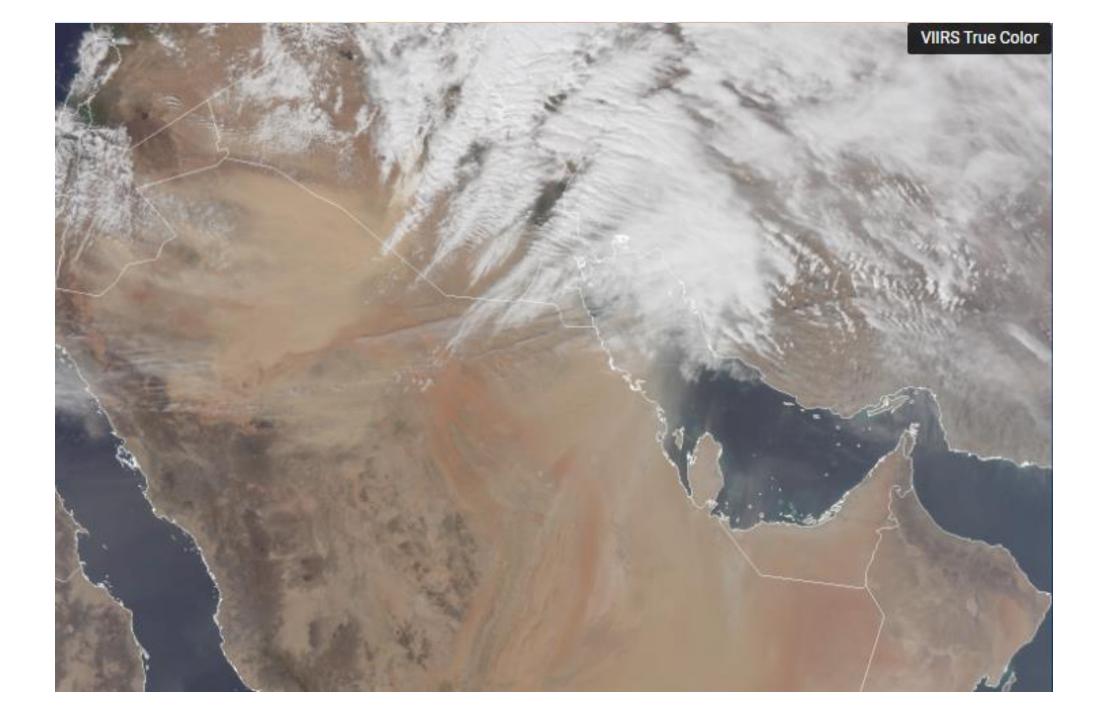




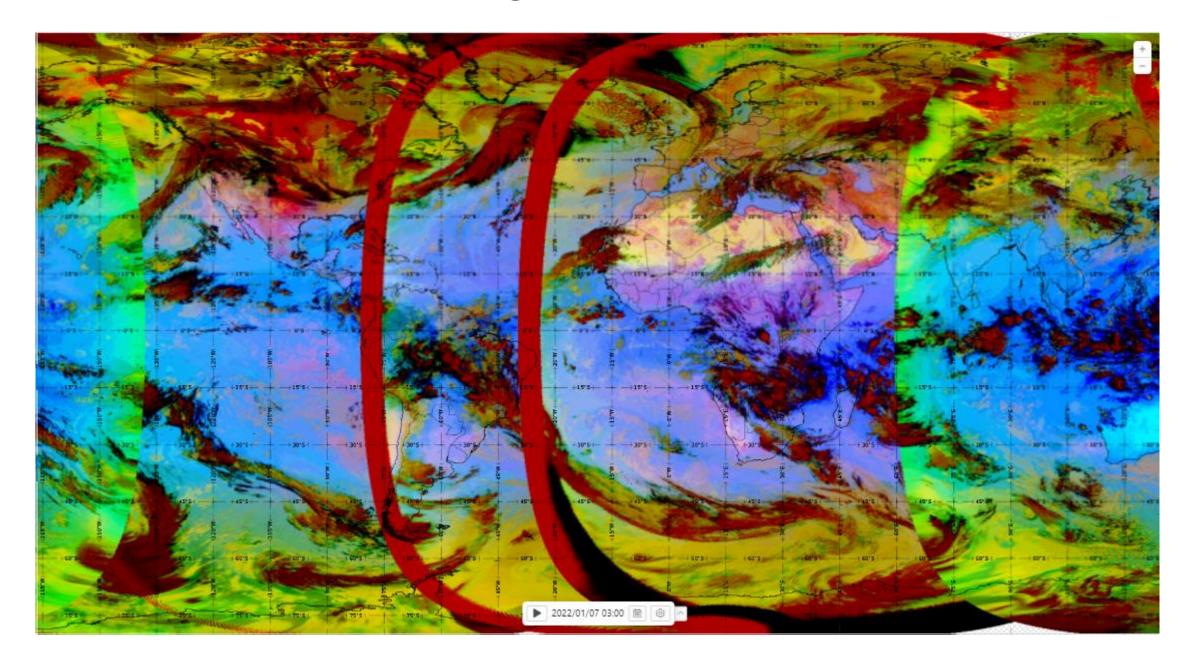


Dust RGB





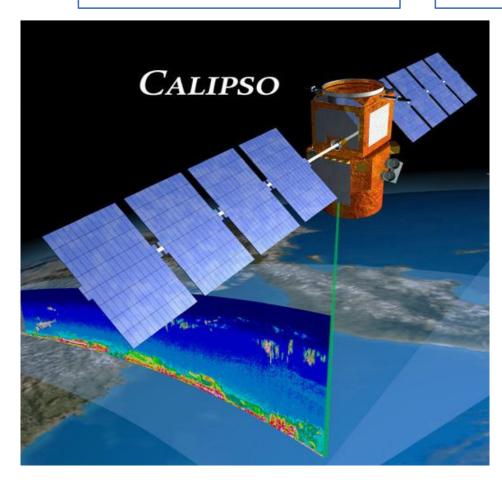
Covering the Whole Earth

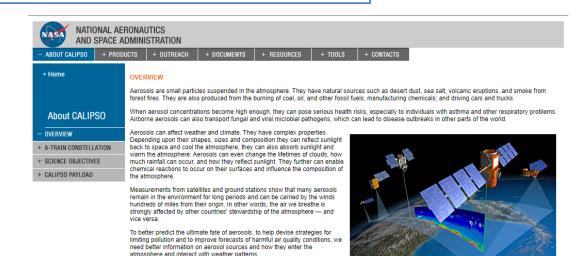


CALIPSO (Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observations)

Light **d**etection **a**nd **r**anging

Radar = Radio detection and ranging



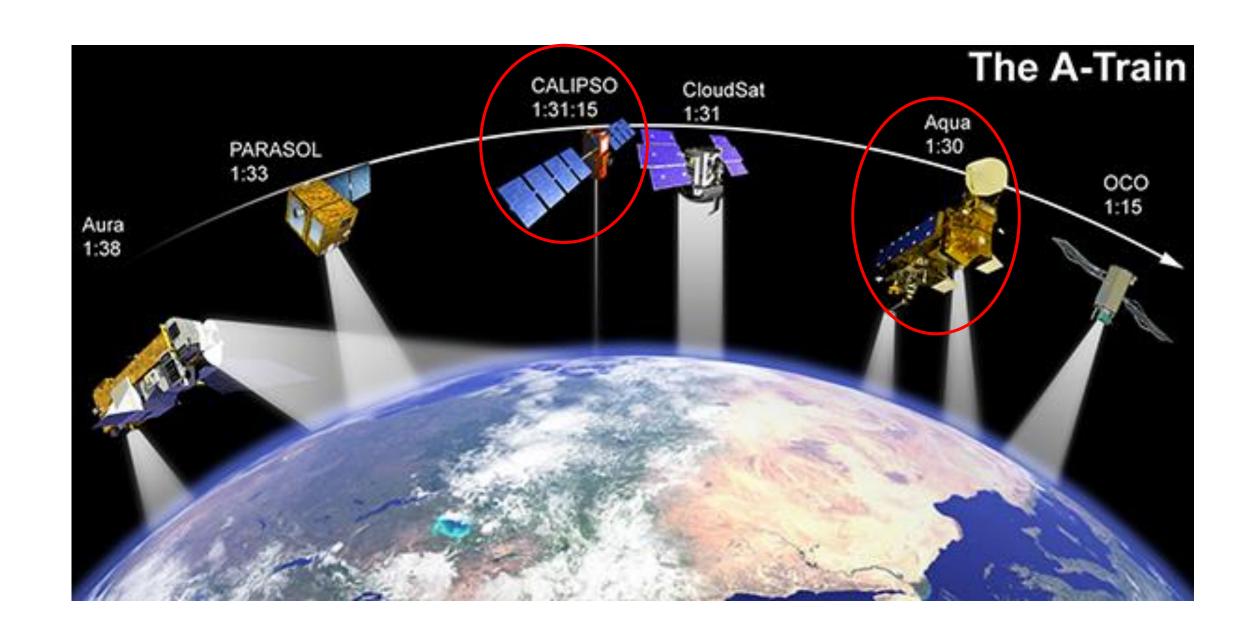


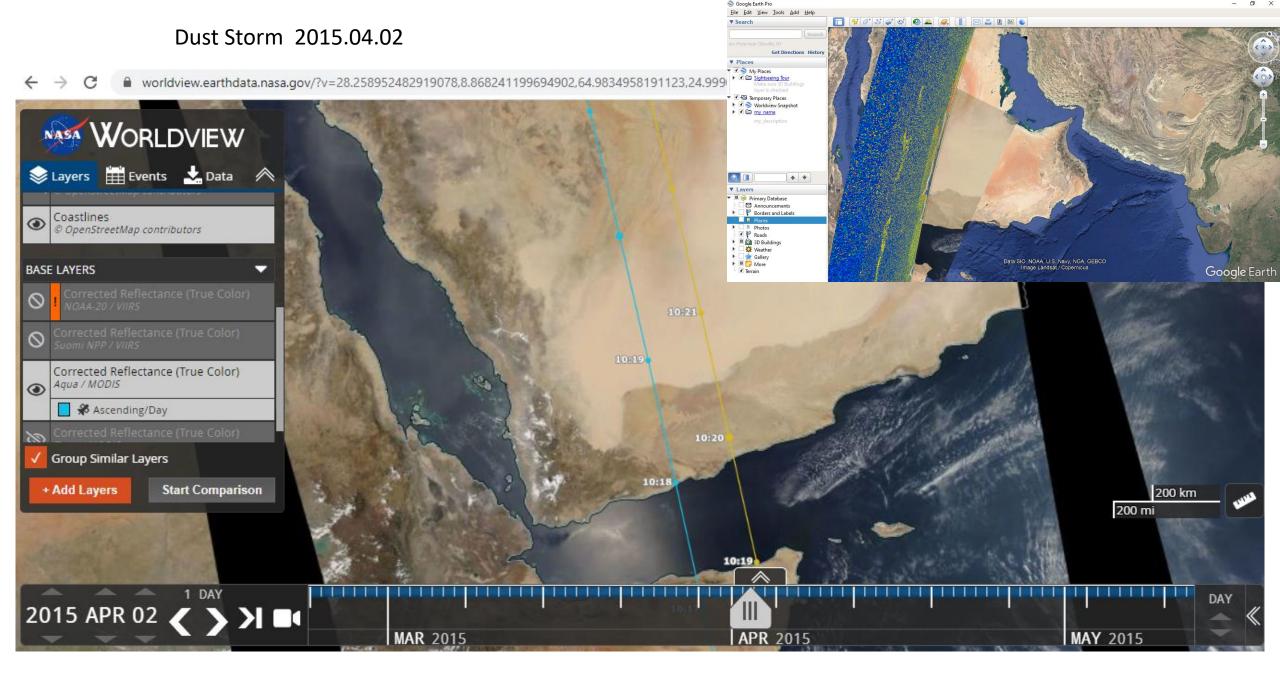
altitude of aerosol

information that is a part of the "A-Train," a constellation of Earth observing satellities.
A part of the "A-Train," a constellation of Earth observing satellities.
CALIFSO provides the next generation of climate observations, including observational satellities is the
an advanced study of clouds and aerosols, drastically improving our ability satellities is the

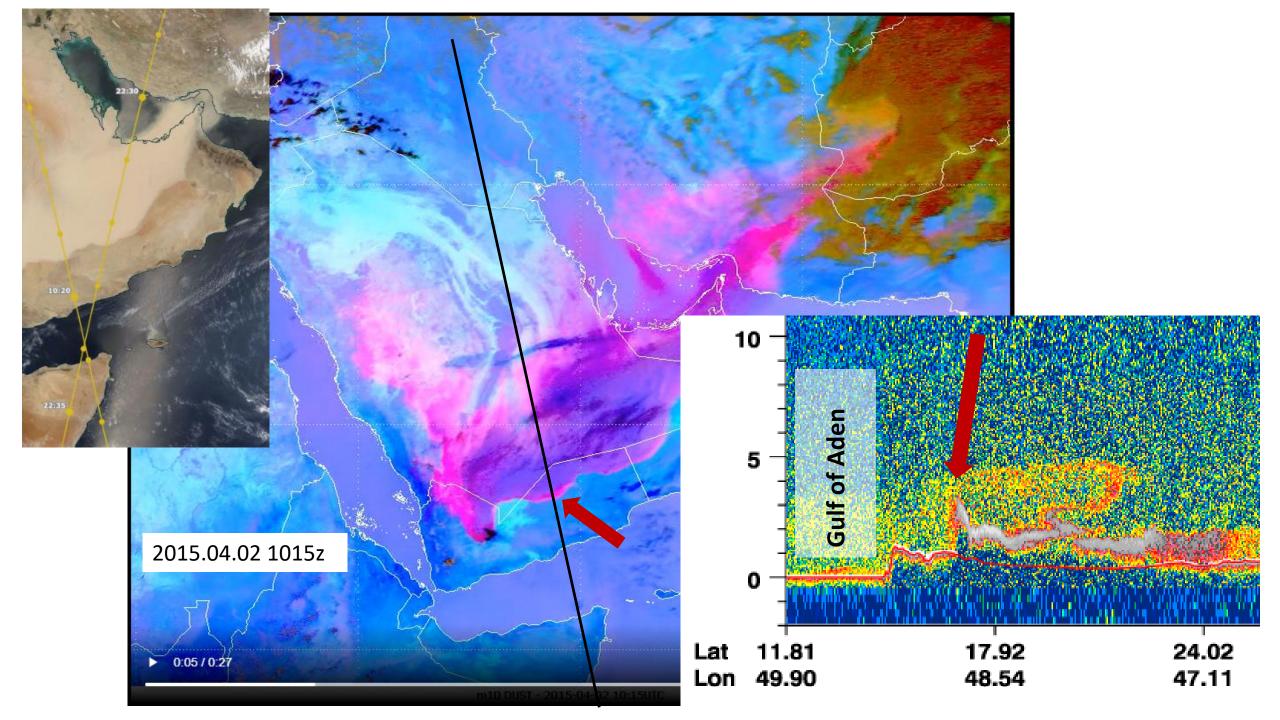
layers in the atmosphere. Aerosols confined to the lowest part of the atmosphere are likely to be removed quickly by rain. On the other hand, those that are transported to higher altitudes are much more likely to travel long distances and affect air quality in distant countries. CALIPSO provides this vital missing piece of information.

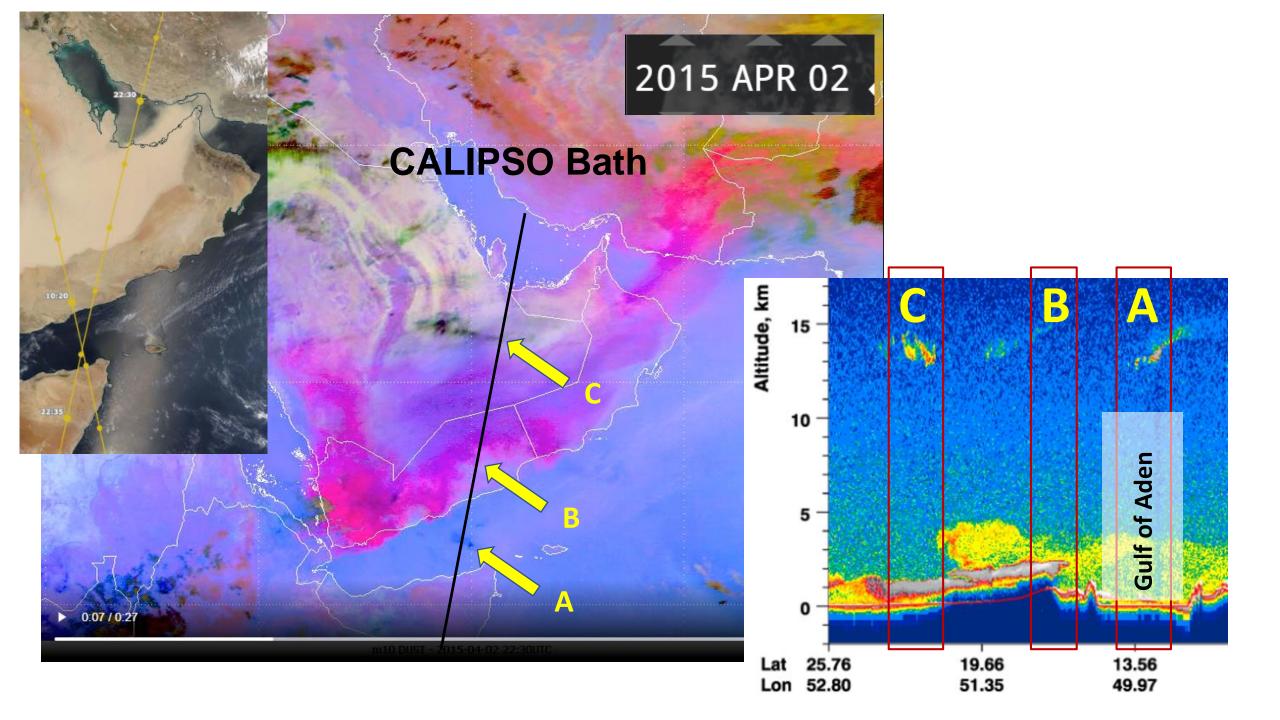
Obtaining better information on the height of clouds is also needed. At present, weather prediction and climate models have considerable difficulty predicting the coverage, water and les content and altitude of clouds. Inaccuracies in these parameters can lead to large errors in estimates of precipitation and the strength of the circulation. Observations from CALIPSO provide valuable new information that will help to improve weather and climate forecasts.

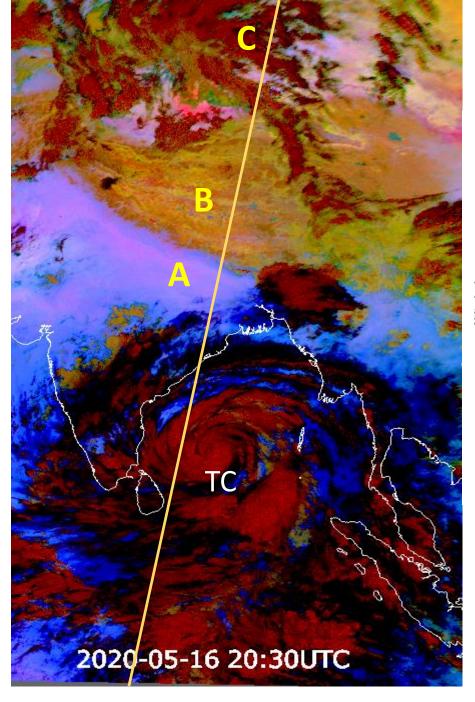


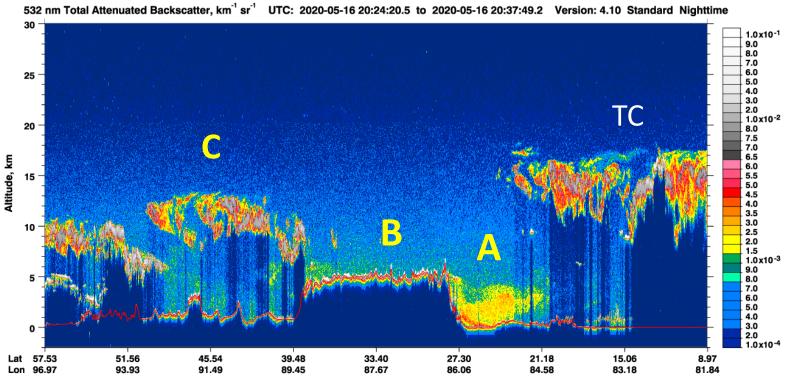


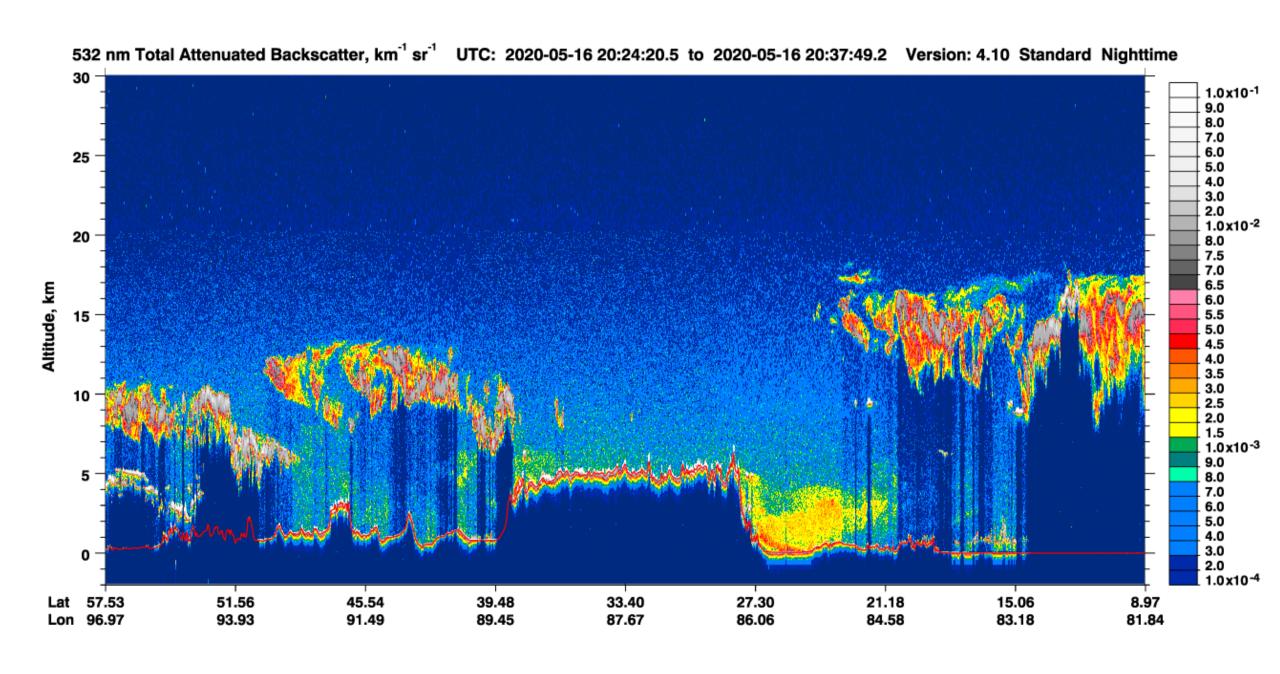
Let try do it!







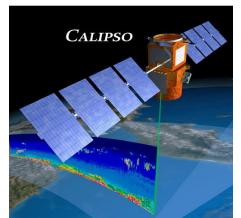




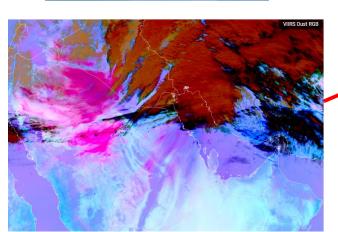


Using Google Earth

https://worldview.earthdata.nasa.gov/?v=15.408516006218086,3.175729580863475,83.21415046401614,38.37638903180629&l=OrbitTracks_Aqua_Descending (hidden),OrbitTracks_Aqua_Ascending,OrbitTracks_Calipso_Descending(hidden),OrbitTracks_Calipso_Ascending,Reference_Labels_15m(hidden),Reference_Fe atures_15m(hidden),Coastlines_15m,VIIRS_NOAA20_CorrectedReflectance_TrueColor(hidden),VIIRS_SNPP_CorrectedReflectance_TrueColor(hidden),MODIS_A qua_CorrectedReflectance_TrueColor,MODIS_Terra_CorrectedReflectance_TrueColor(hidden)&lg=true&t=2015-04-02-T03%3A36%3A00Z

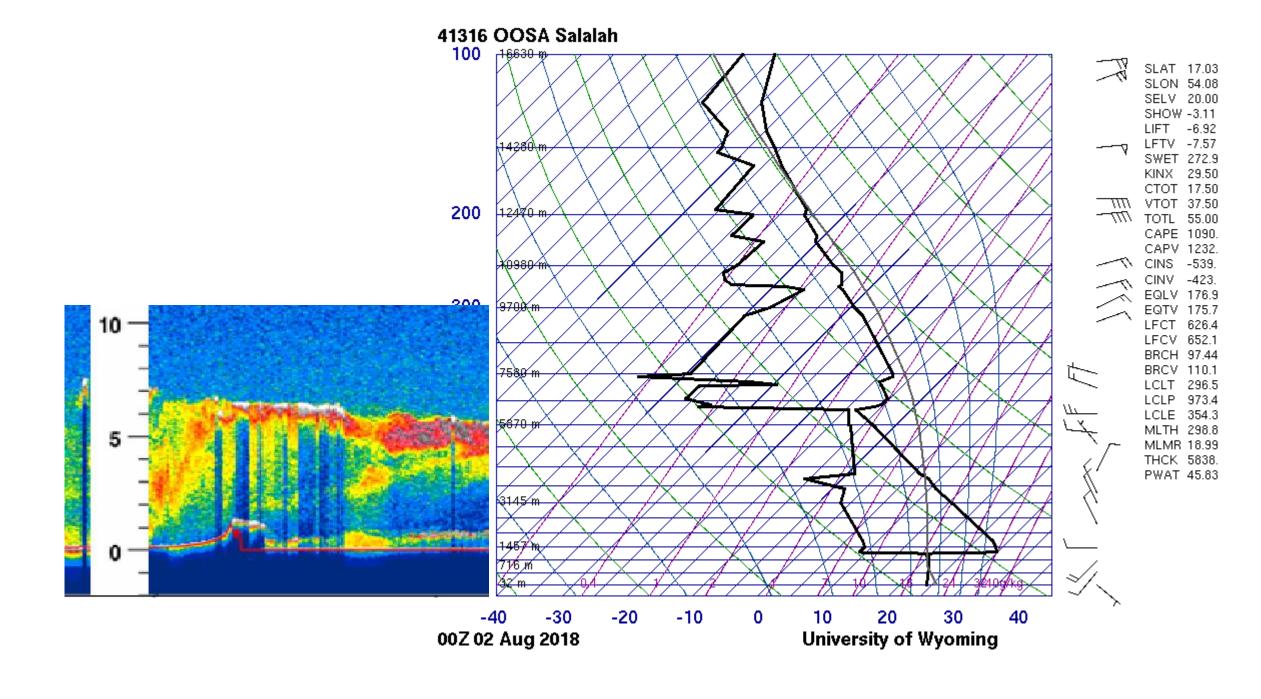


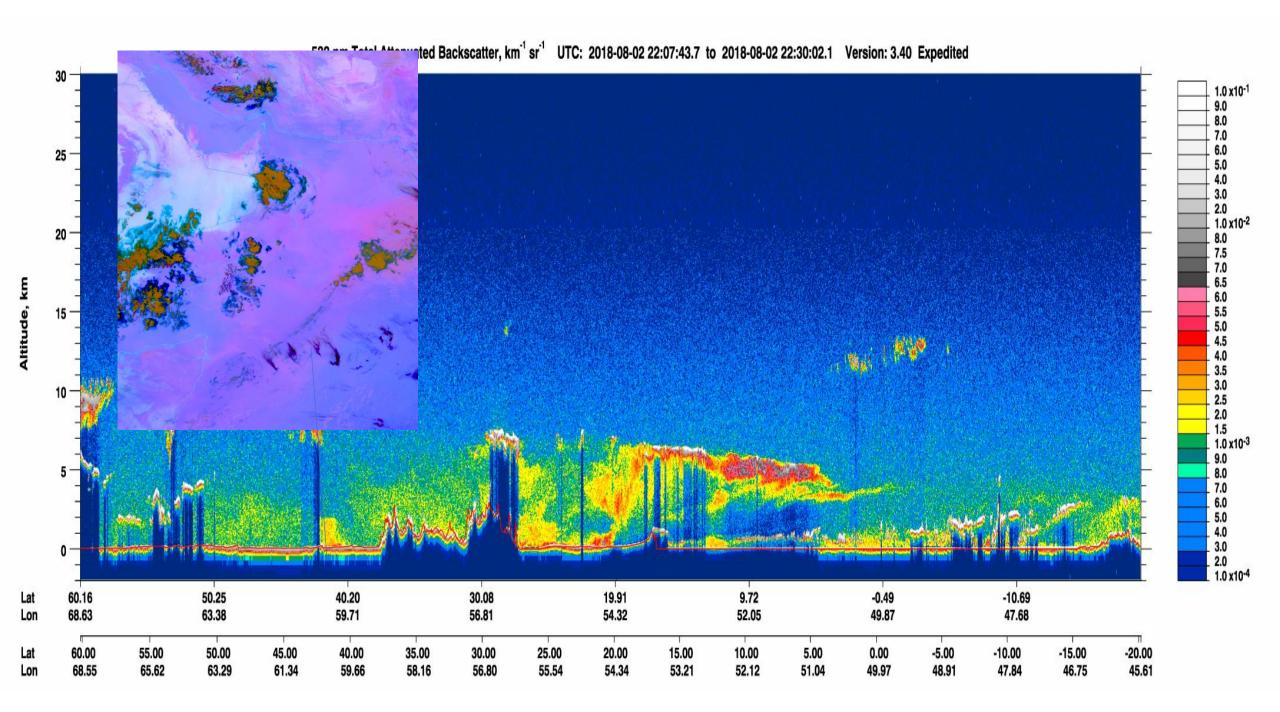
https://www-calipso.larc.nasa.gov/products/kmz_exp/











532 nm Total Attenuated Backscatter, km⁻¹ sr⁻¹ UTC: 2018-08-02 22:07:43.7 to 2018-08-02 22:30:02.1 Version: 3.40 Expedited

