

ABOVE Regional Weather Briefing

Based on the GMAO GEOS meteorology and aerosol forecast fields
Model Initialized 00z 09 July 2017

Note: Saskatchewan (SK), Alberta (AB), Manitoba (MB), Northwest Territory (NWT), Yukon Territory (YKT), British Columbia (BC)

PAFA = Fairbanks Airport, Alaska

PASC = Deadhorse Airport, Prudhoe Bay Alaska

PABR = Barrow

Day-1 Forecast**Valid 1500z 10 July through 2359z 10 July**

A low pressure system is straddling lower Alaska and the lower YKT. Associated clouds and rain move slowly to the west. Smoke haze from the many fires spreads across much of the eastern half of the state at the beginning of the period. By the end of the period the area of smoke haze drifts to the west and only part of the western third of the state is in the clear in terms of aerosol optical thickness. Rain stretches from near PAFA through the lower half of YKT and along the panhandle region of Alaska. Clouds cover most of the state except for a thin strip of cloud free air that runs from the Seward Peninsula southeast through the Kenai Peninsula. PAFA is cloudy and rainy through this period.

Day-2 Forecast**Valid 1500z 11 July through 2359z 11 July**

The smoke haze covers the eastern 2 thirds of the state and as the low pressure system moves slowly west during this period, only the western edges of the state like the Yukon Delta, Bethel, Nome, and western Seward Peninsula are indicating smoke free air. Most of the state will see cloudy skies except for the extreme western part of the state near Yukon Delta and part of the northeast corner of the state. Showers will be at or near PAFA through the period as part of the system to the south that is slowly moving westward as it weakens.

Day-3 Outlook**Valid 1500z 12 July through 2359z 12 July**

The entire state is under the influence of northwesterly flow in this period as the majority of the state is covered with thin to moderate smoke haze. The thickest smoke and haze is forecast between PAFA and Old Creek, and all moving in a southeasterly direction. A line of showers along the northern tip of the state passes over the PASC and Toolik Lake region moving to the southeast. Towards the end of the period showers are popping up along the western slopes of the Kuskokwin Mountains along a line that stretches up to the southern slopes of the Brooks Range. In and around Fairbanks/Denali/Yukon Flats looks good especially early in the period. Later in the period the line of showers and associated cloud shield up north moves into the PAFA area. Nome and Seward Peninsula look favorable at this time.

--

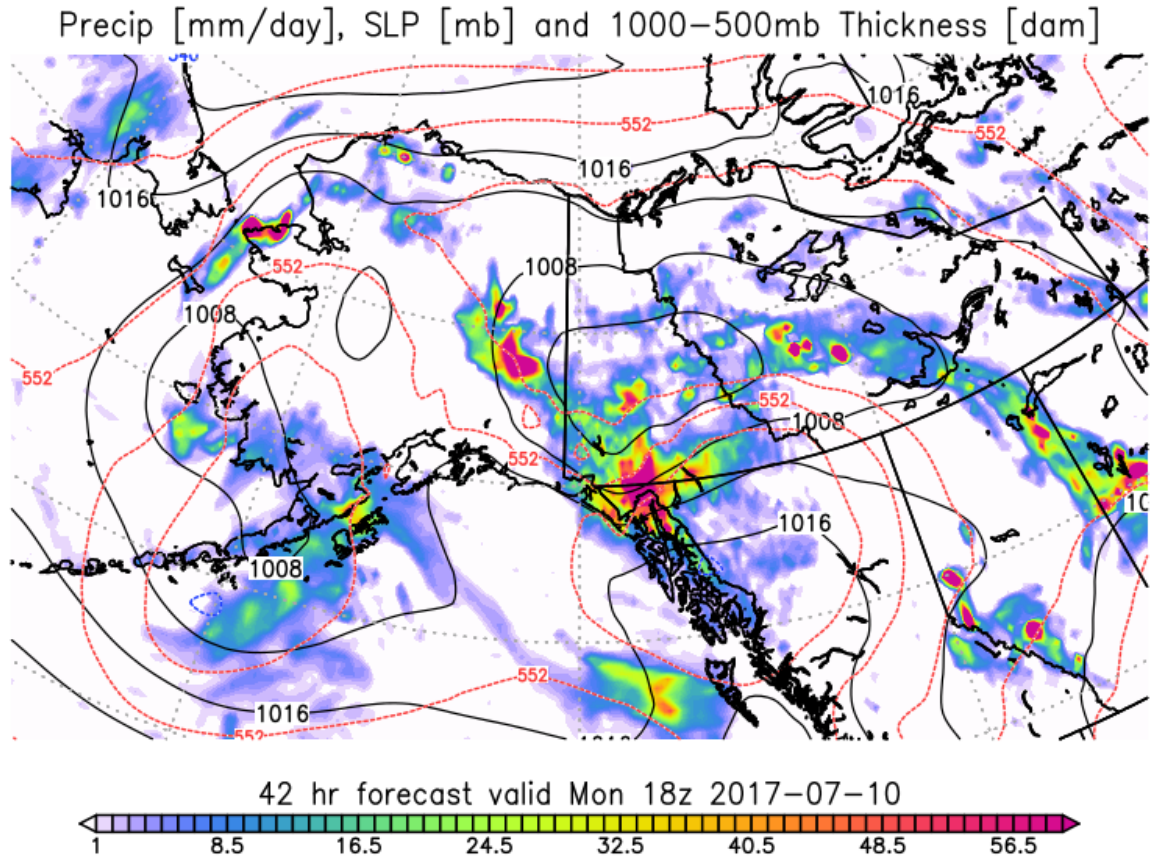
Austin Conaty, SSAI Global Modeling and Assimilation Office
301-614-6149 (ph) NASA Goddard Space Flight Center
301-614-6297 (fax) Code 610.1 Greenbelt, MD 20771

Austin.L.Conaty@nasa.gov

<http://gmao.gsfc.nasa.gov>

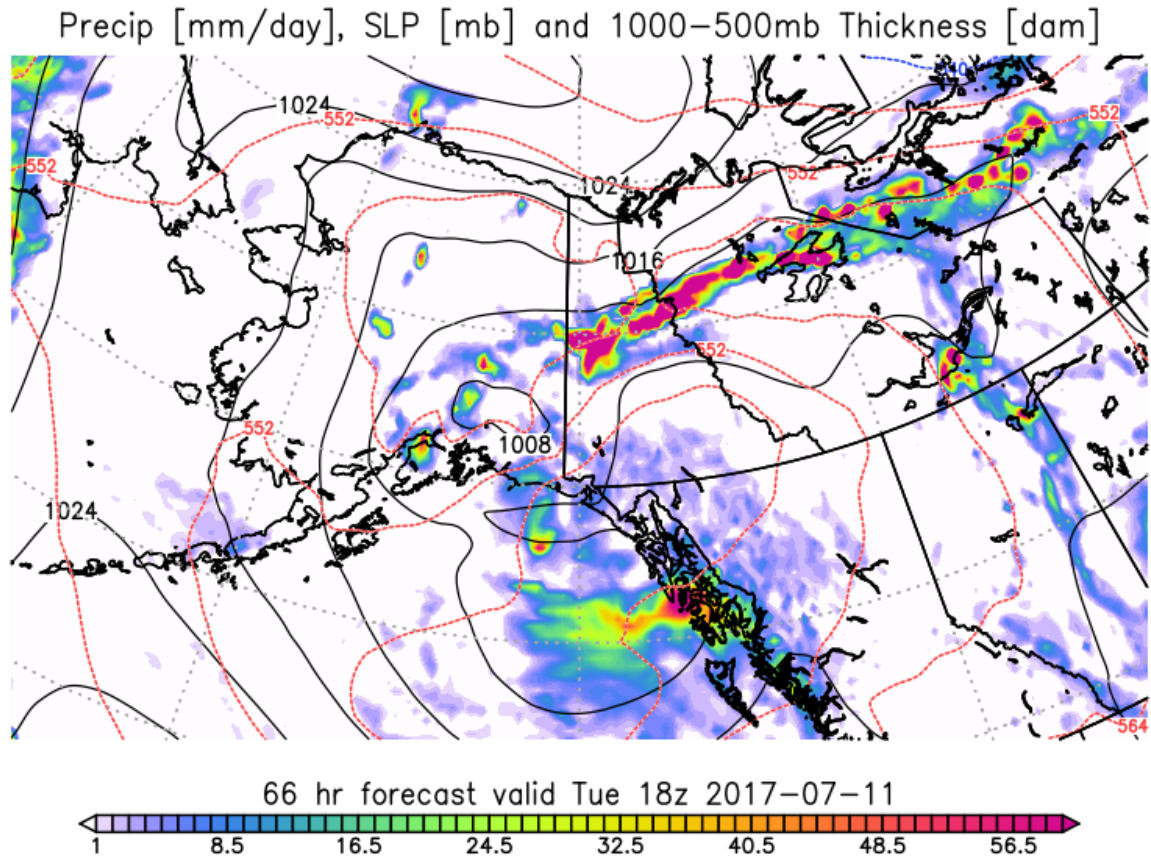
fp.8prec.sfc.042.above_sm.png

NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-07-09



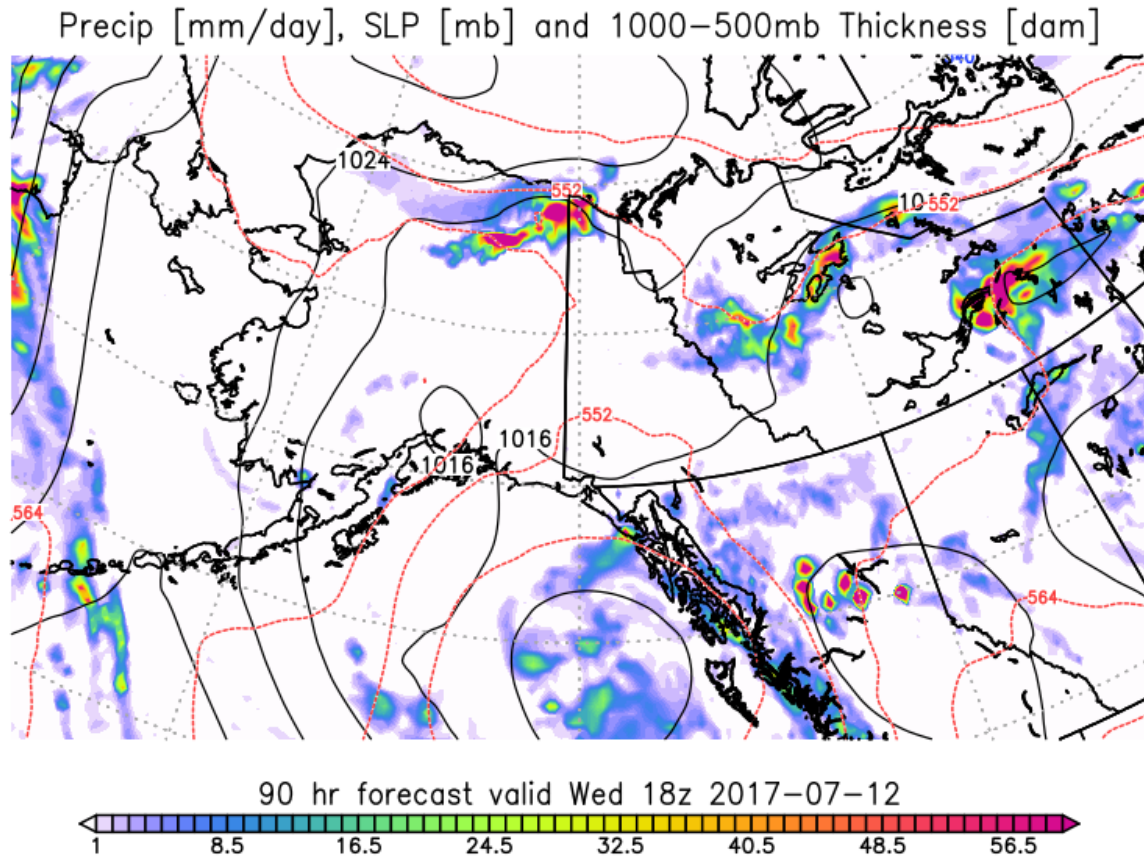
fp.8prec.sfc.066.above_sm.png

NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-07-09



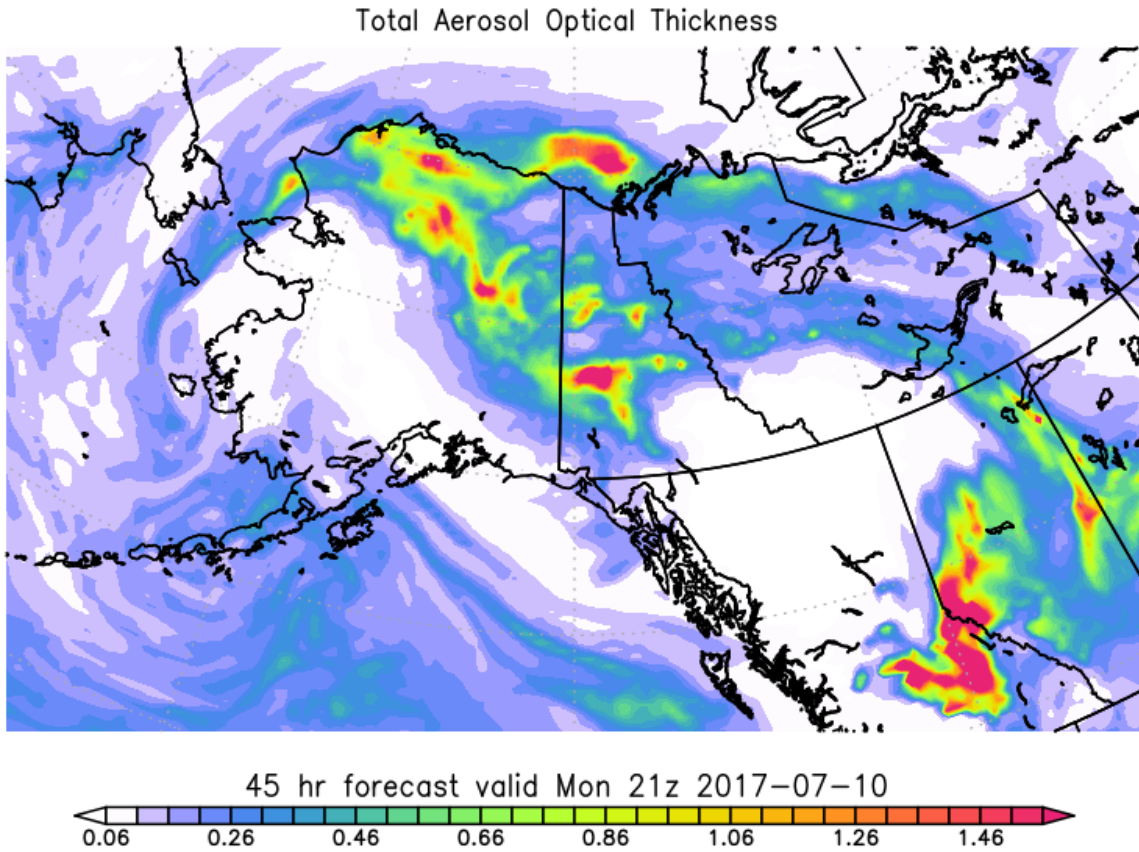
fp.8prec.sfc.090.above_sm.png

NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-07-09



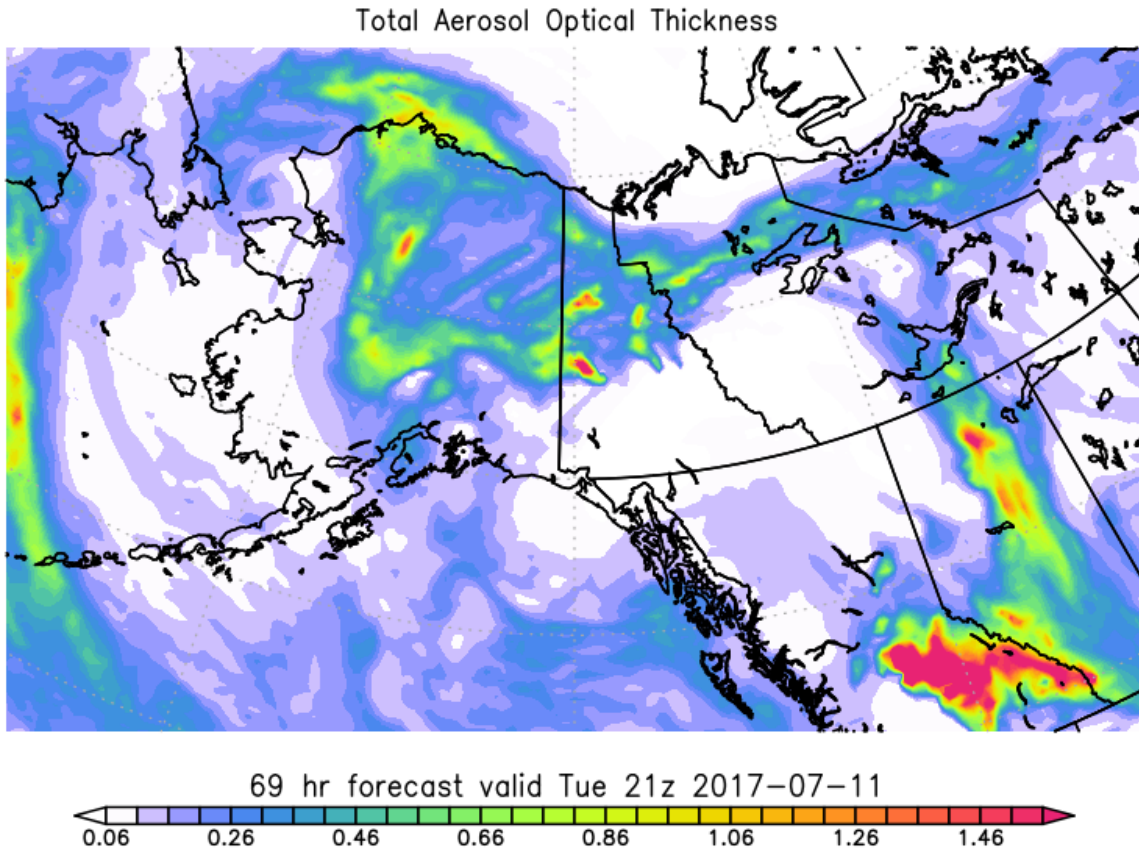
f516_fp.7totaot.045.above_sm.png

NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-09



f516_fp.7totaot.069.above_sm.png

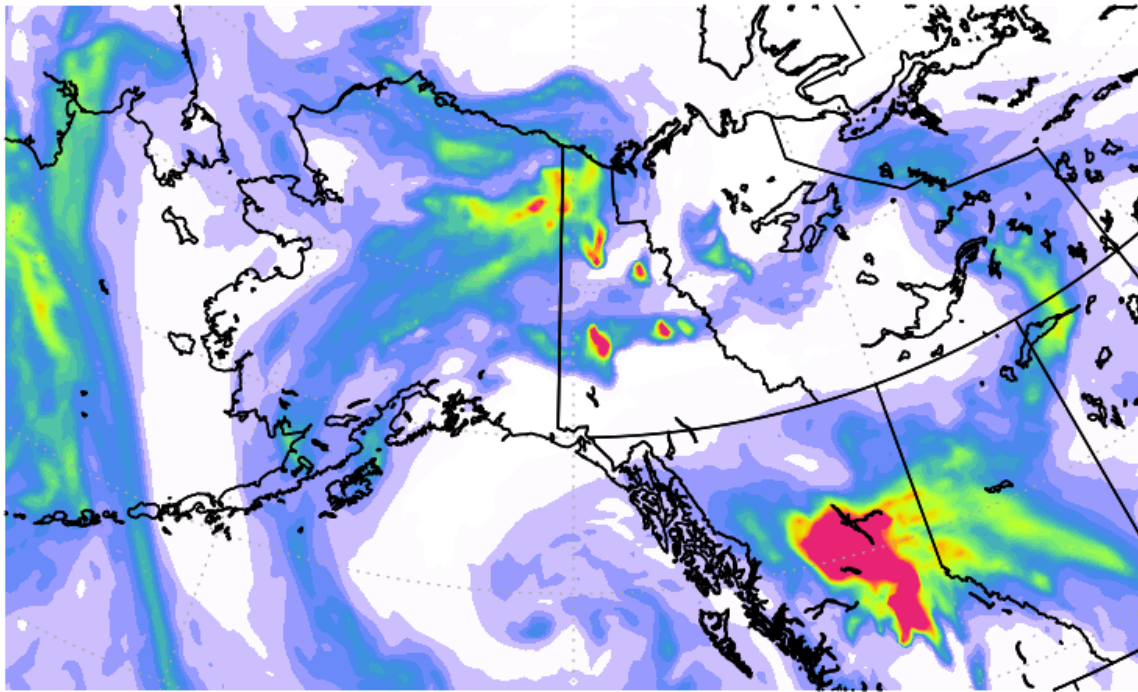
NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-09



f516_fp.7totaot.093.above_sm.png

NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-09

Total Aerosol Optical Thickness

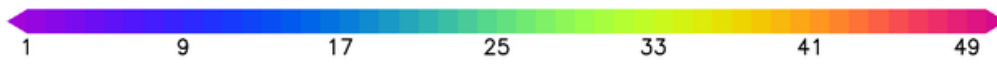
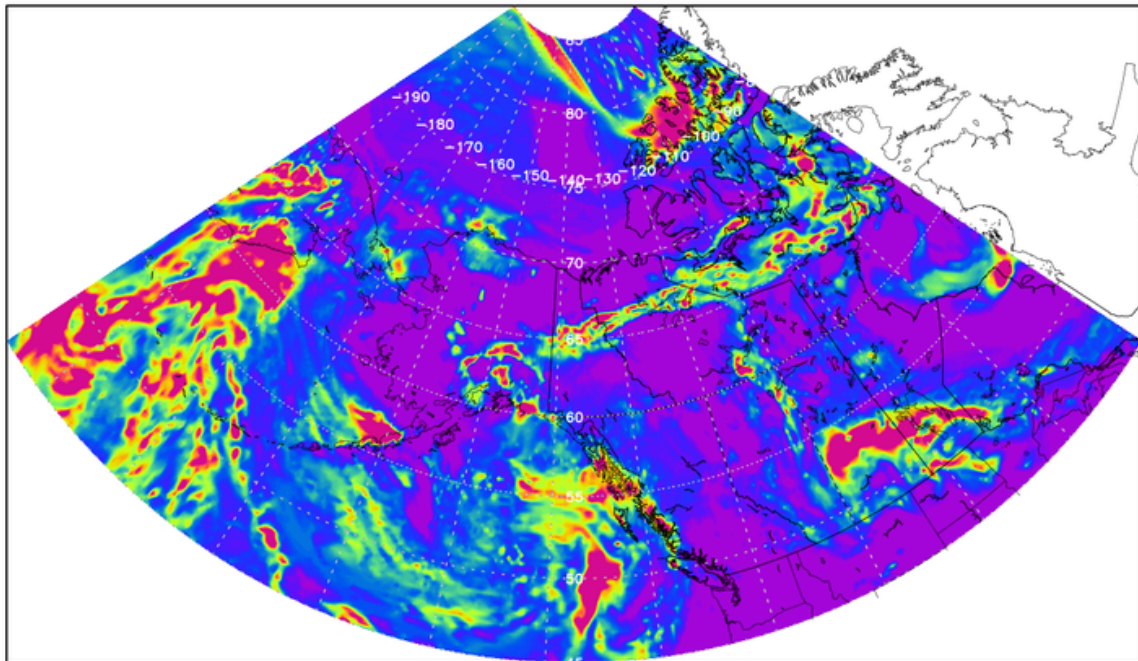


93 hr forecast valid Wed 21z 2017-07-12



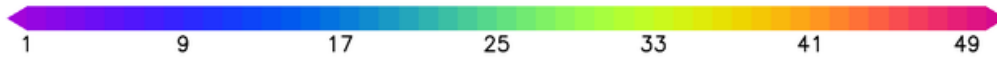
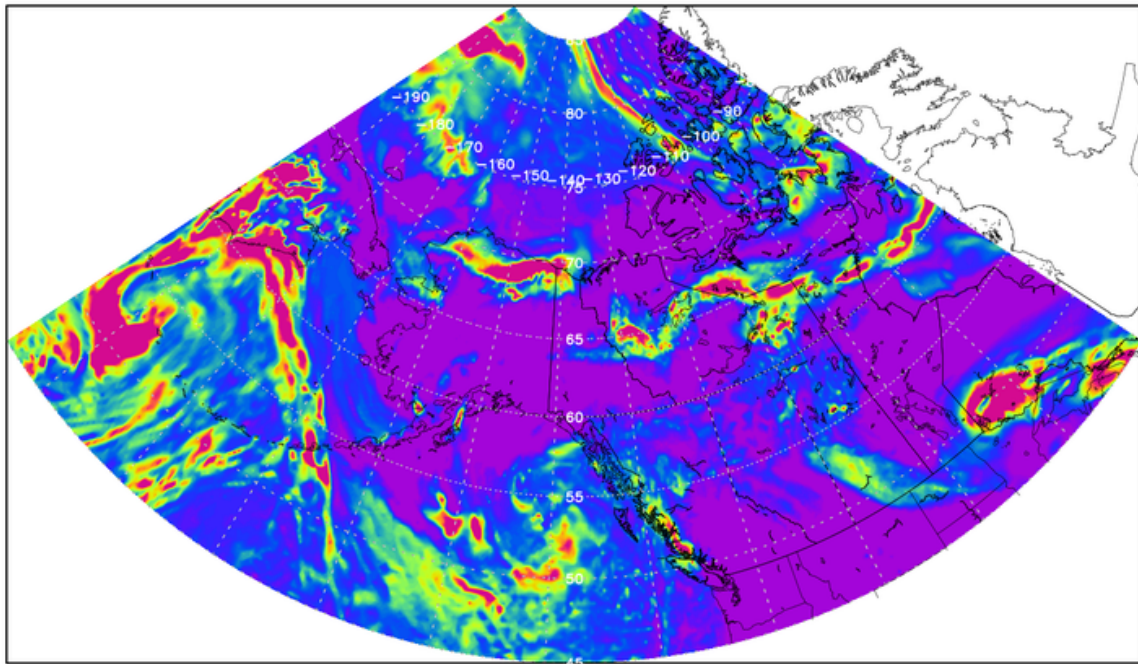
ABOVE_Total_Cloud_IT_00z09JUL_VT_18z11JUL.png

GEOS Total Cloud Optical Depth
Initial time 09 JUL. 00z
Valid time 11 JUL. 18z



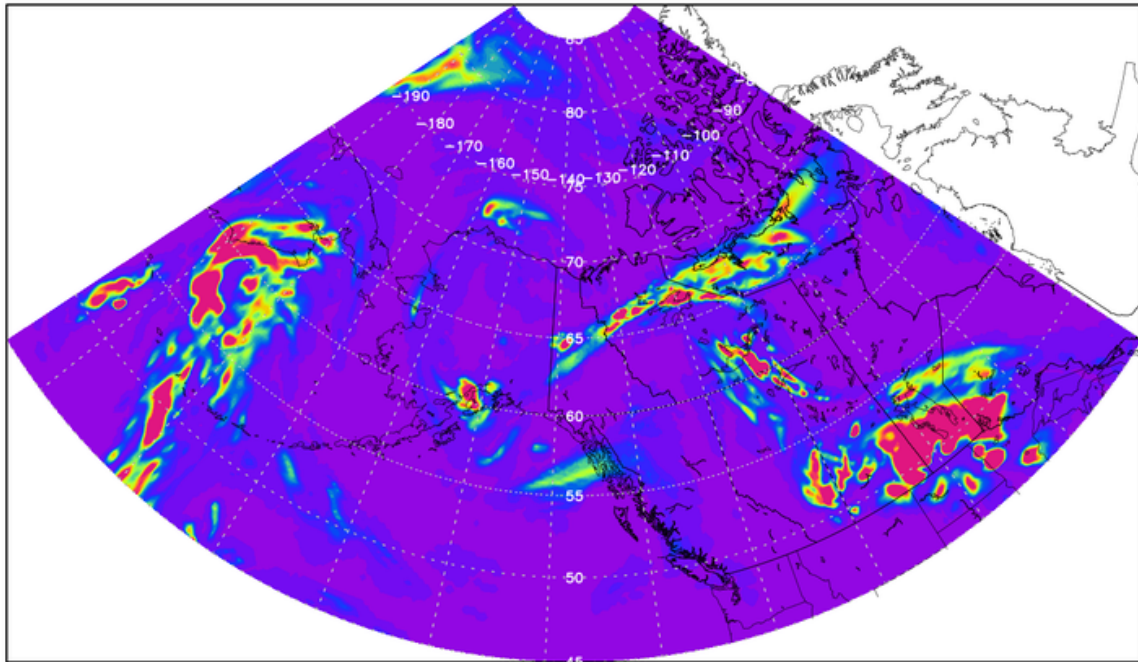
ABOVE_Total_Cloud_IT_00z09JUL_VT_18z12JUL.png

GEOS Total Cloud Optical Depth
Initial time 09 JUL. 00z
Valid time 12 JUL. 18z



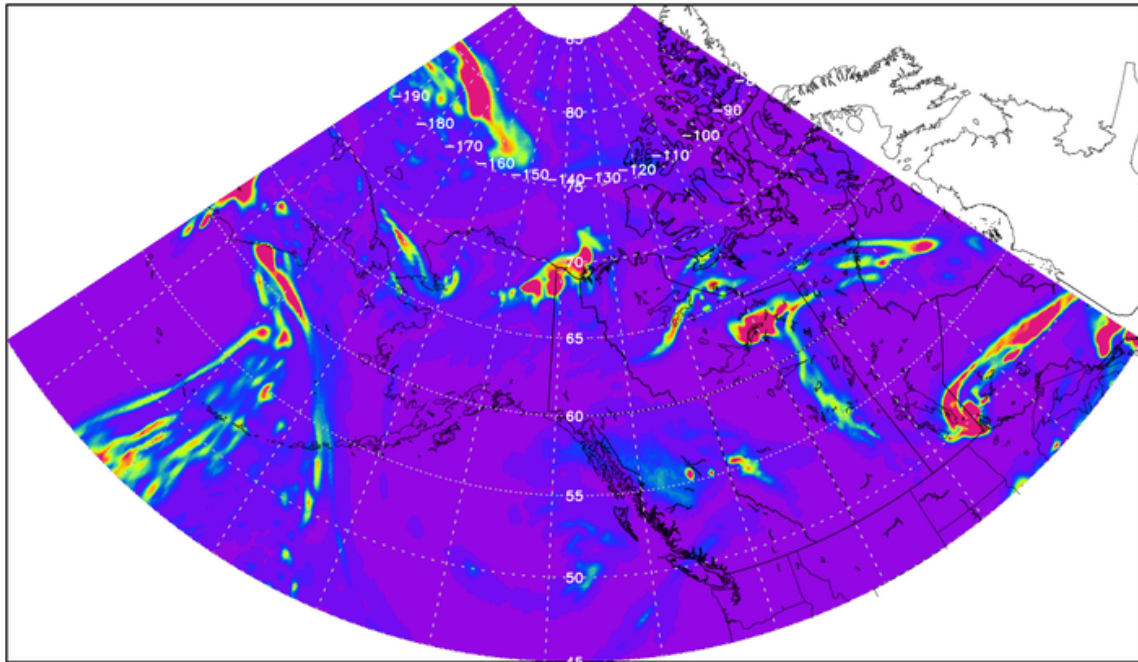
ABOVE_High_Cloud_Optical_Depth_IT_00z09JUL_VT_18z11JUL.png

GEOS High Cloud Optical Depth
Initial time 09 JUL. 00z
Valid time 11 JUL. 18z



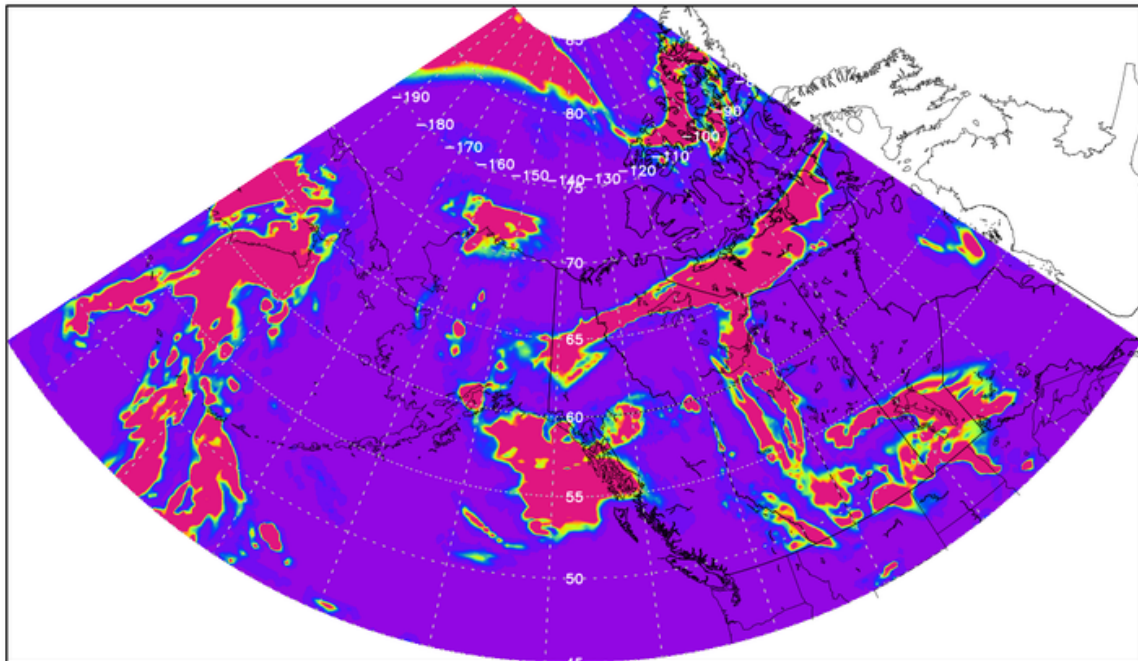
ABOVE_High_Cloud_Optical_Depth_IT_00z09JUL_VT_18z12JUL.png

GEOS High Cloud Optical Depth
Initial time 09 JUL. 00z
Valid time 12 JUL. 18z



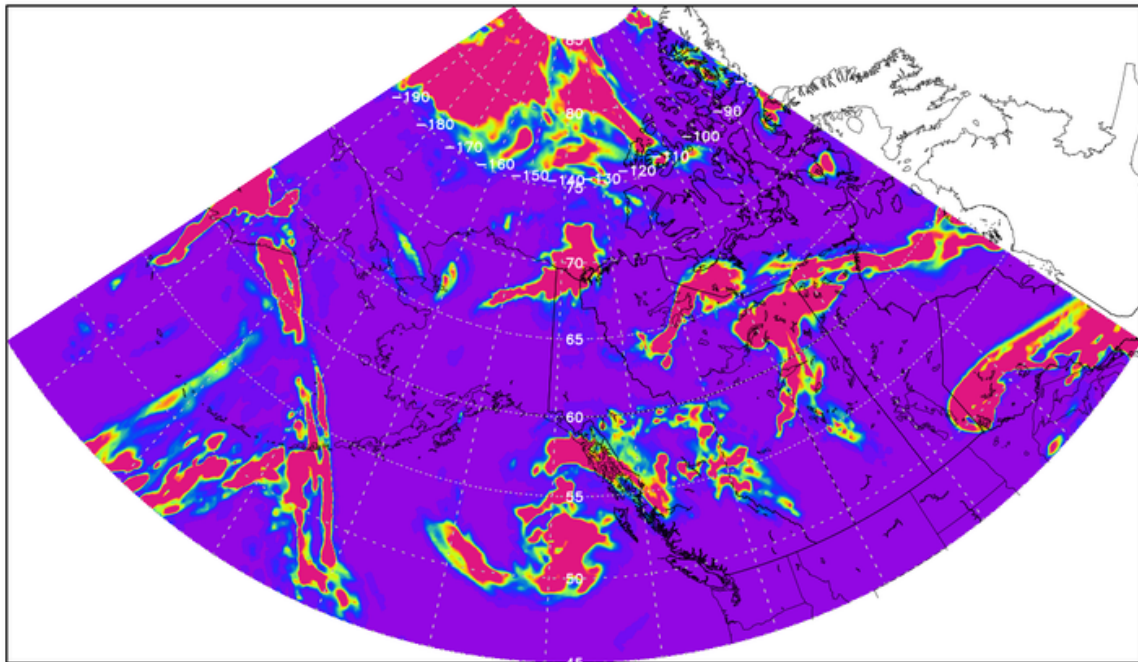
ABOVE_Mid_Cloud_Optical_Depth_IT_00z09JUL_VT_18z11JUL.png

GEOS Mid Cloud Optical Depth
Initial time 09 JUL. 00z
Valid time 11 JUL. 18z



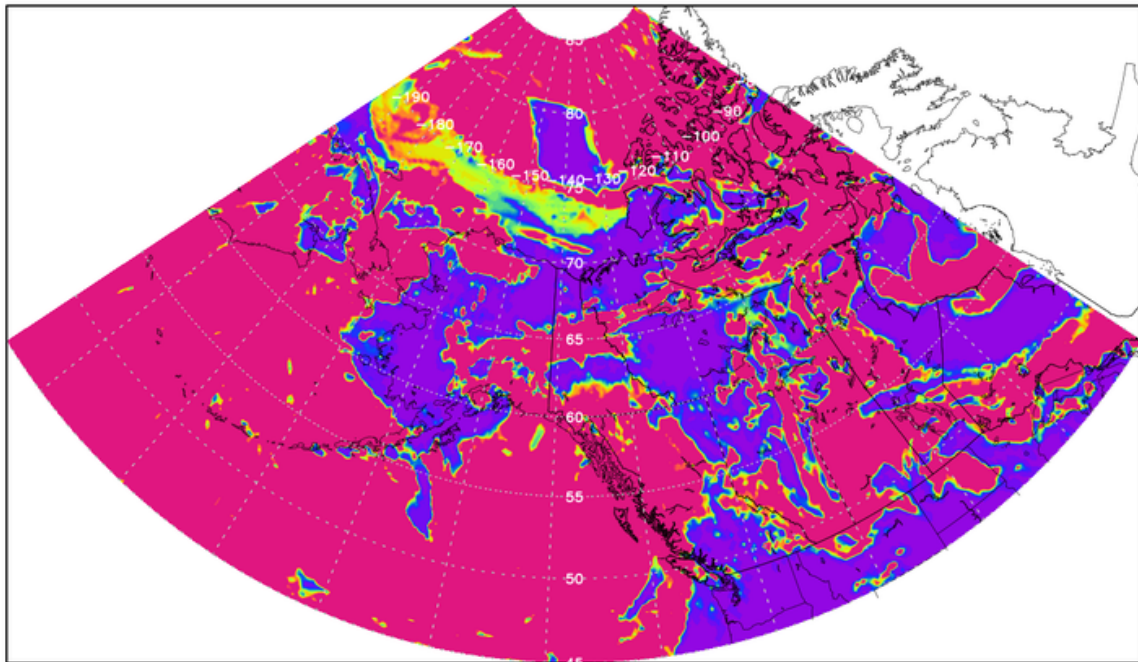
ABOVE_Mid_Cloud_Optical_Depth_IT_00z09JUL_VT_18z12JUL.png

GEOS Mid Cloud Optical Depth
Initial time 09 JUL. 00z
Valid time 12 JUL. 18z



ABOVE_Low_Cloud_Optical_Depth_IT_00z09JUL_VT_18z11JUL.png

GEOS Low Cloud Optical Depth
Initial time 09 JUL. 00z
Valid time 11 JUL. 18z



ABOVE_Low_Cloud_Optical_Depth_IT_00z09JUL_VT_18z12JUL.png

GEOS Low Cloud Optical Depth
Initial time 09 JUL. 00z
Valid time 12 JUL. 18z

