

ABOVE Regional Weather Briefing
Based on the GMAO GEOS meteorology and aerosol forecast fields
Model Initialized 00z 03 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 04 July through 2359z 04 July

A low pressure center continues drifting eastward now centered near the eastern border of NWT and with it moves an elongated area of clouds and precipitation that covers most of interior Alaska, YKT, and NWT (including Yellowknife). Parts of eastern central Alaska and western YKT become partly cloudy and SK and AB remain fairly cloud and rain free at this time. Moderate smoke haze stretches from NE Alaska down along the Canadian border near Whitehorse.

Day-2 Forecast

Valid 1500z 05 July through 2359z 05 July

A low pressure center in the Gulf of Alaska continues pumping in waves of clouds and rain into Southeast Alaska. Clouds and moisture from this system combine with the area of clouds and rain that stretches across the 60N latitude line from the Gulf of Alaska through the southern regions of YKT and NWT. There is a channel of mostly clear air that stretches northeastward from the Alaska peninsula up through PAFA and into YKT and NWT. This may provide a chance for flying near Yukon Flats depending on how far south the edge of the cloud shield is located. PABR and PASC are experiencing elevated levels of smoke haze. The Northern 1/3 of YKT is experiencing the smoke haze from the NE Alaska wildfires.

Day-3 Outlook

Valid 1500z 06 July through 2359z 06 July

If it hasn't happened yet, this could be a good day to transition from Yellowknife to Whitehorse provided the lines of showers can be avoided early and along the way. The weakening area of low pressure in the Gulf of Alaska continues to spin in waves of clouds and moisture. Although an area of optically thick clouds is present near PAFA, the majority of the region between PAFA and PABR, along with the area between PAFA and Galena to the Seward Peninsula have little or no rain forecasted and will have mostly optically thin clouds. Moderate levels of smoke haze stretch west to east along the northern 1/3 of YKT and NWT. An optically thinner band of haze is just off shore north of PABR and PASC.

--

Austin Conaty, SSAI
301-614-6149 (ph)
301-614-6297 (fax)

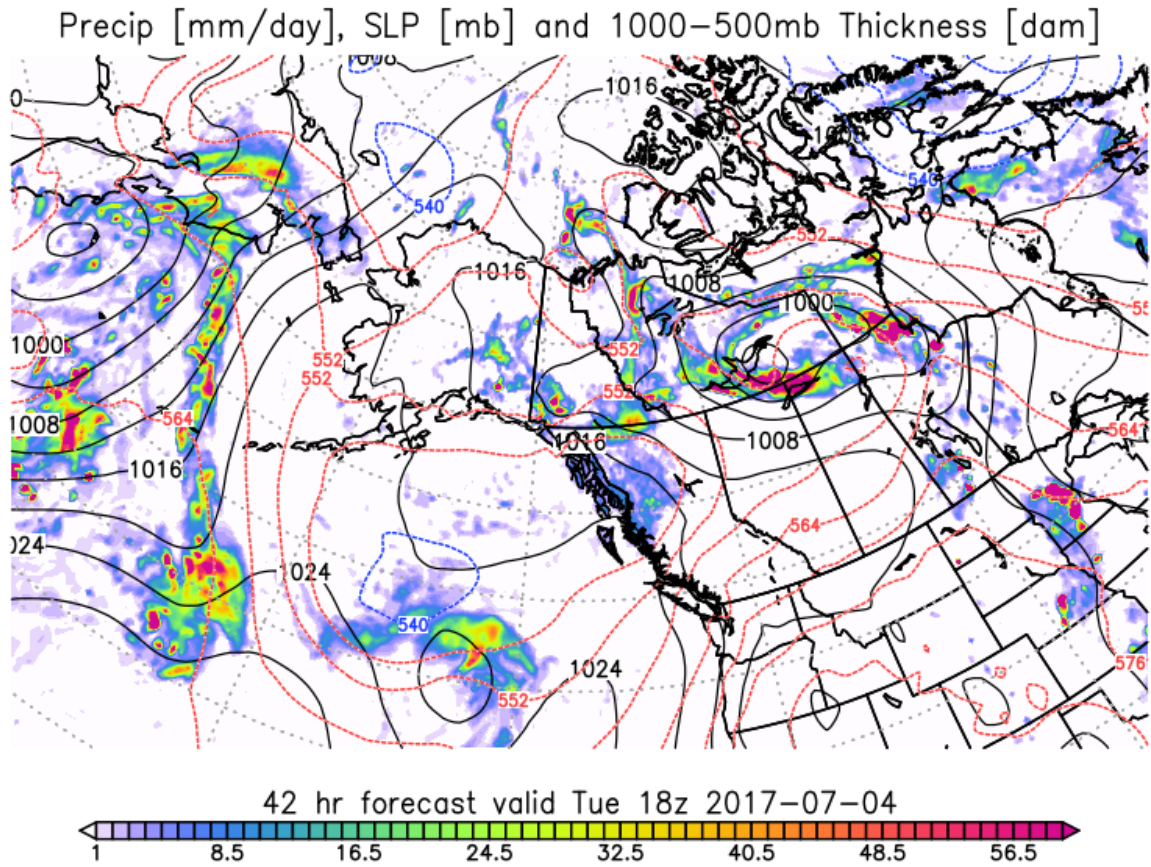
Global Modeling and Assimilation Office
NASA Goddard Space Flight Center
Code 610.1 Greenbelt, MD 20771

Austin.L.Conaty@.nasa.gov

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

fp.8prec.sfc.042.above_lg.png

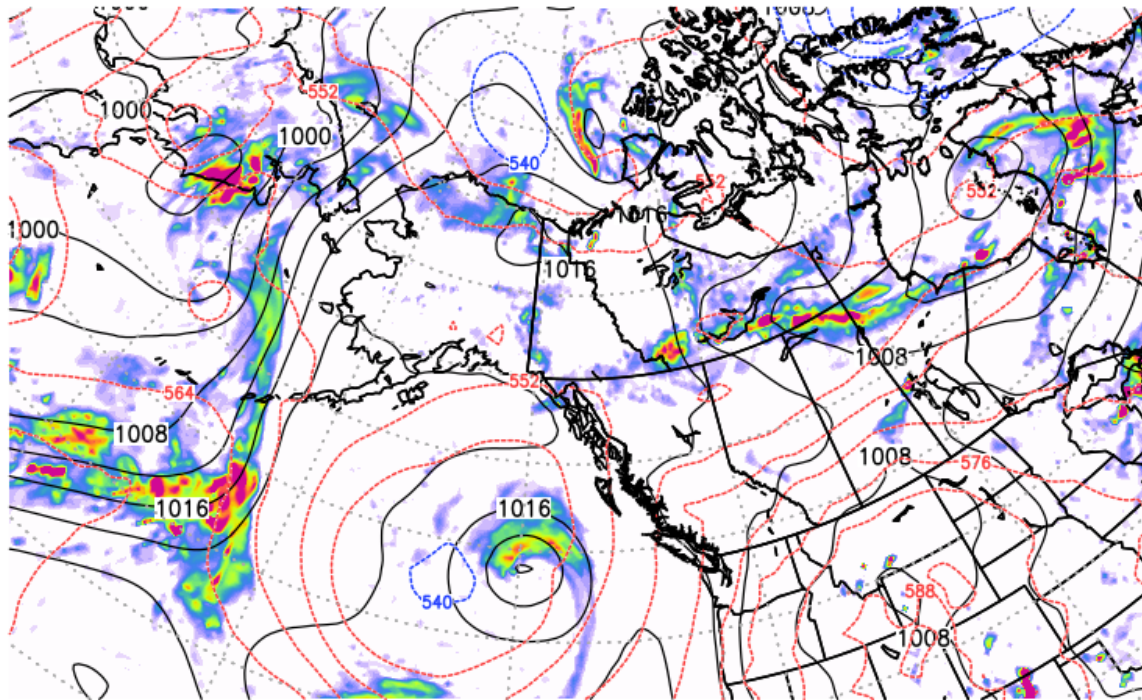
NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-07-03



fp.8precis.sfc.069.above_lg.png

NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-03

Precip [mm/day], SLP [mb] and 1000-500mb Thickness [dam]

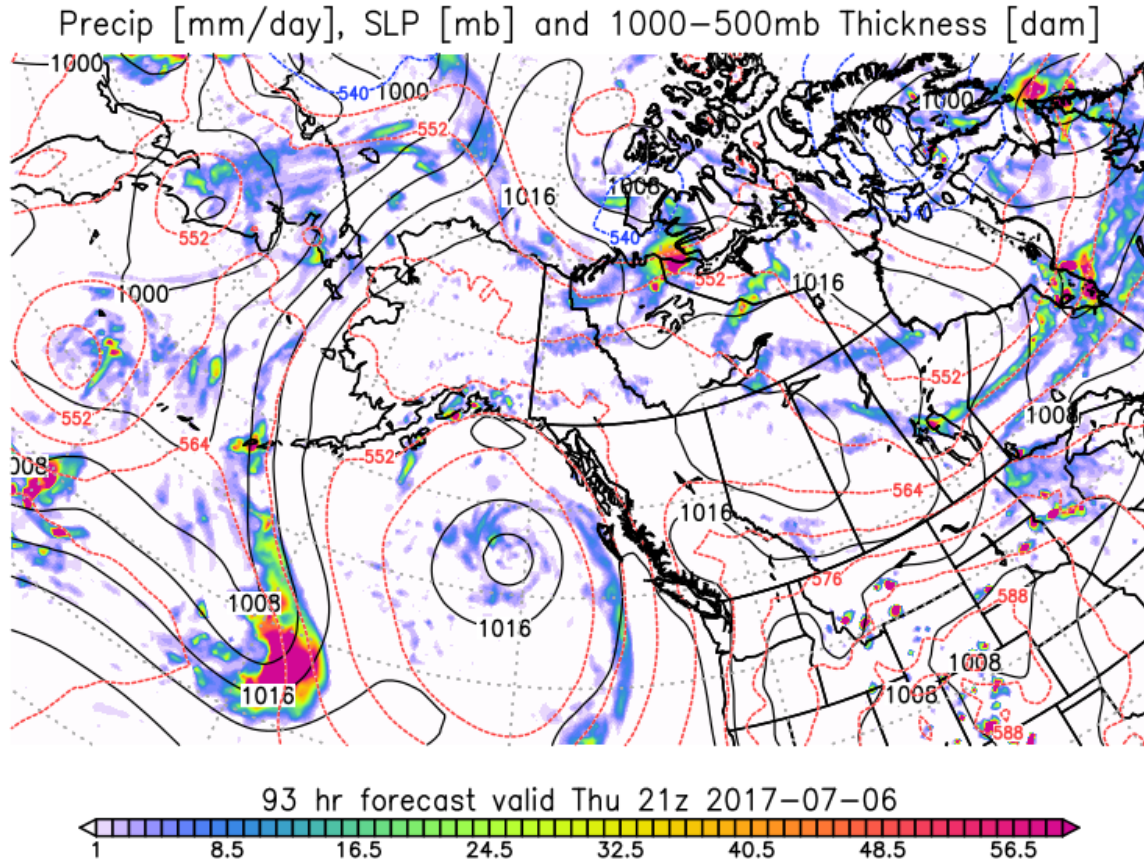


69 hr forecast valid Wed 21z 2017-07-05



fp.8prec.sfc.093.above_lg.png

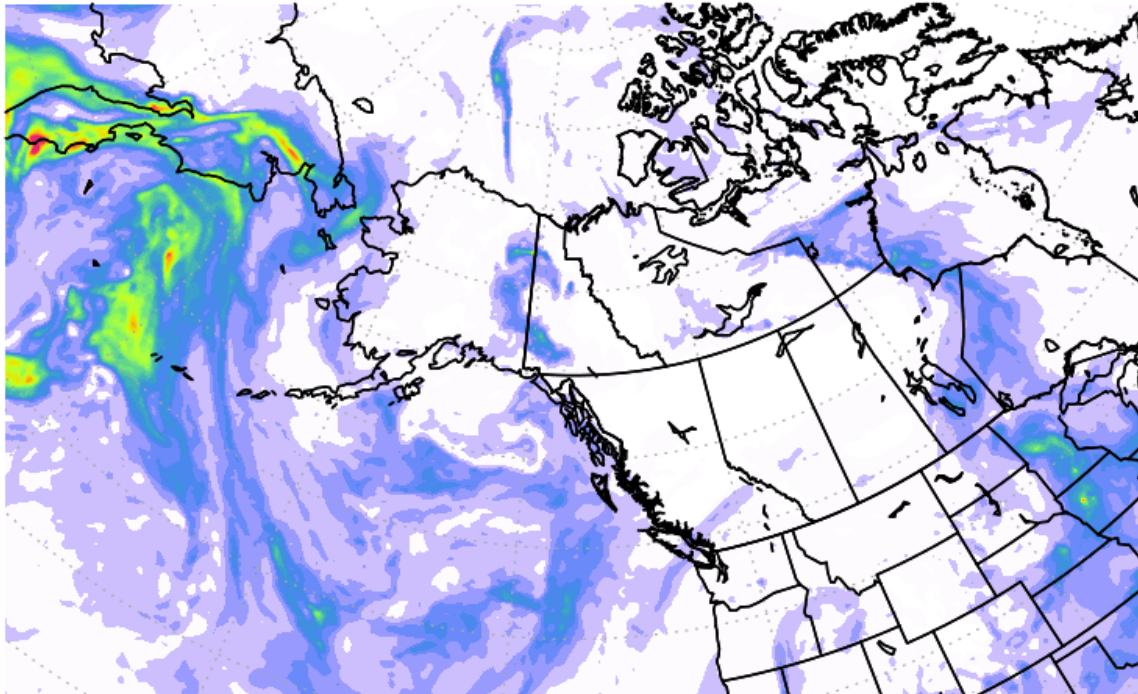
NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-03



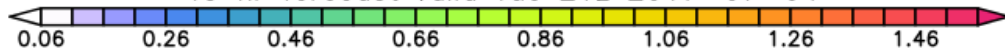
f516_fp.7totaot.045.above_lg.png

NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-03

Total Aerosol Optical Thickness



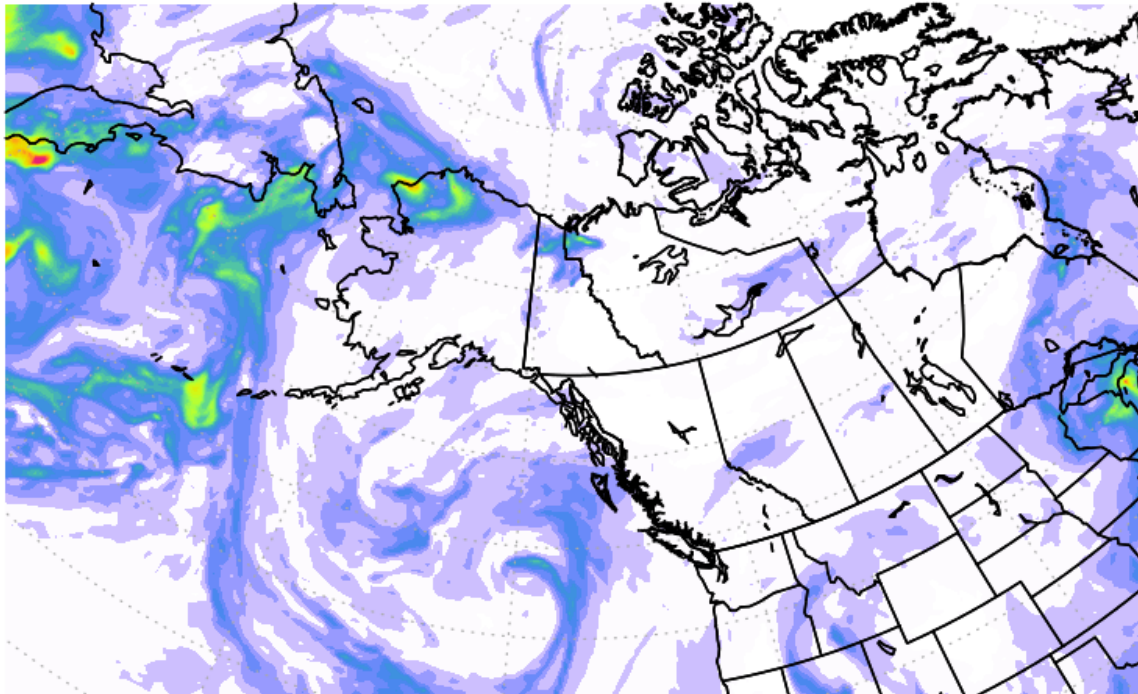
45 hr forecast valid Tue 21z 2017-07-04



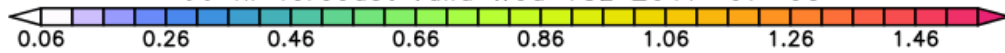
f516_fp.7totaot.066.above_lg.png

NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-03

Total Aerosol Optical Thickness

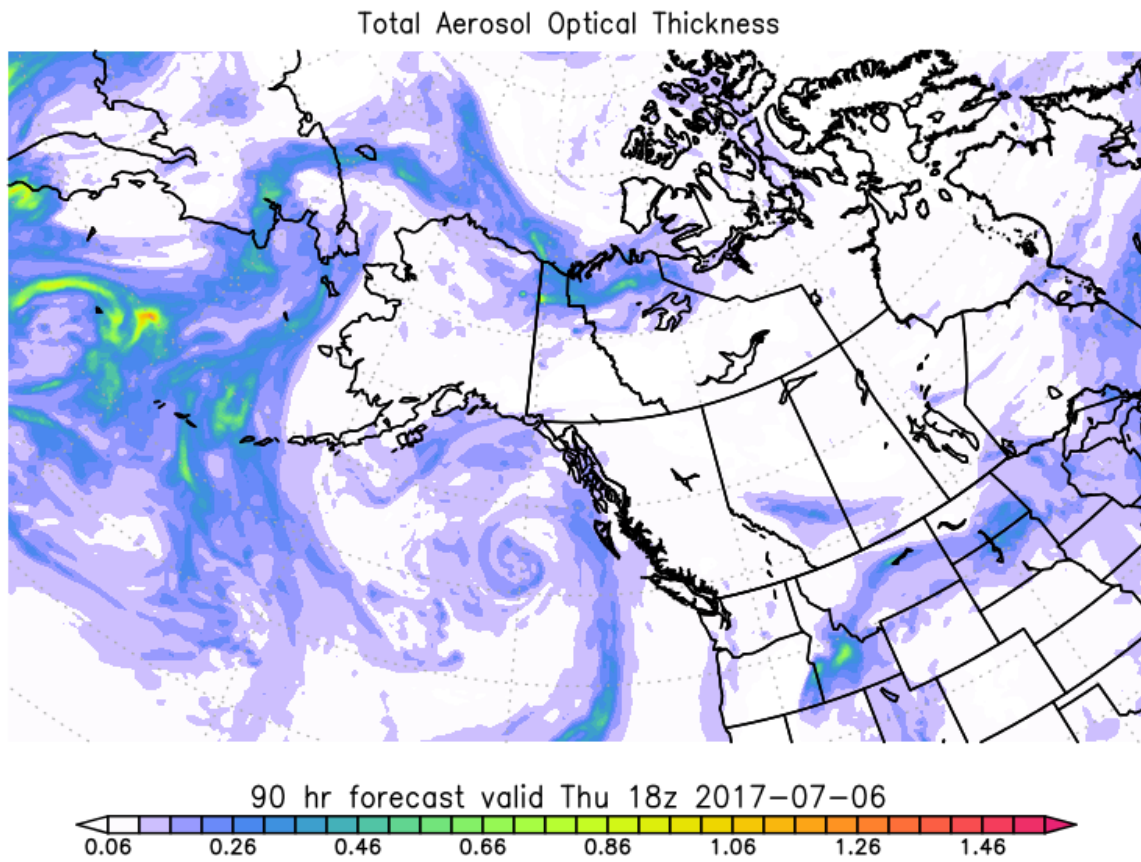


66 hr forecast valid Wed 18z 2017-07-05



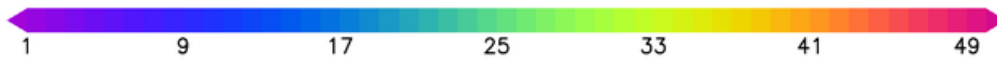
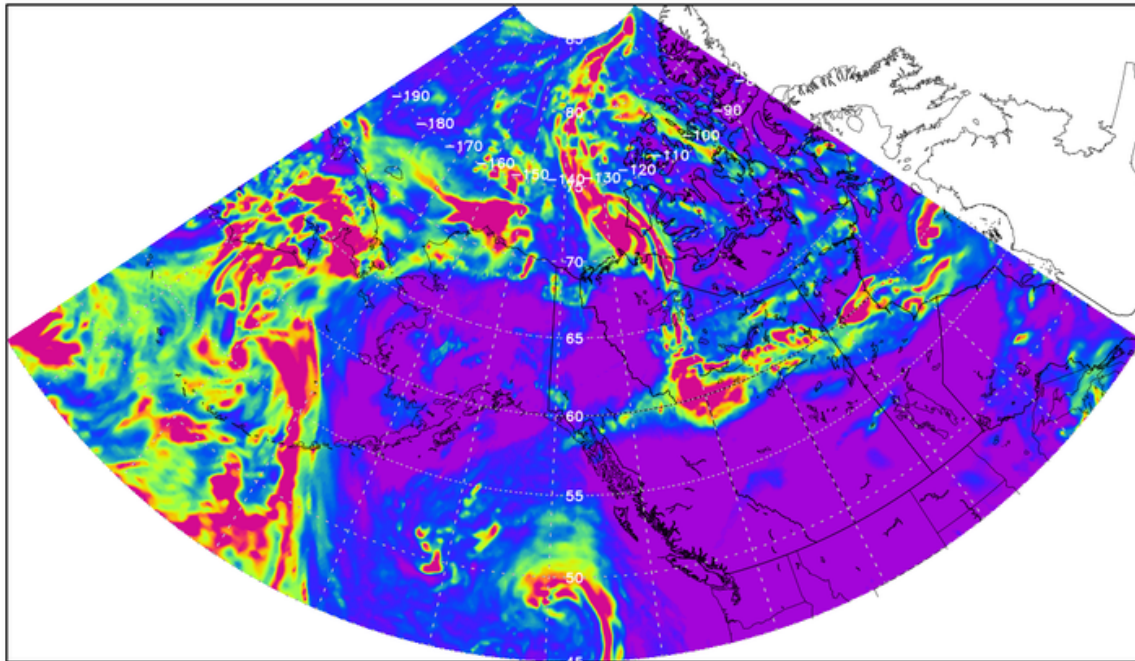
f516_fp.7totaot.090.above_lg.png

NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-03



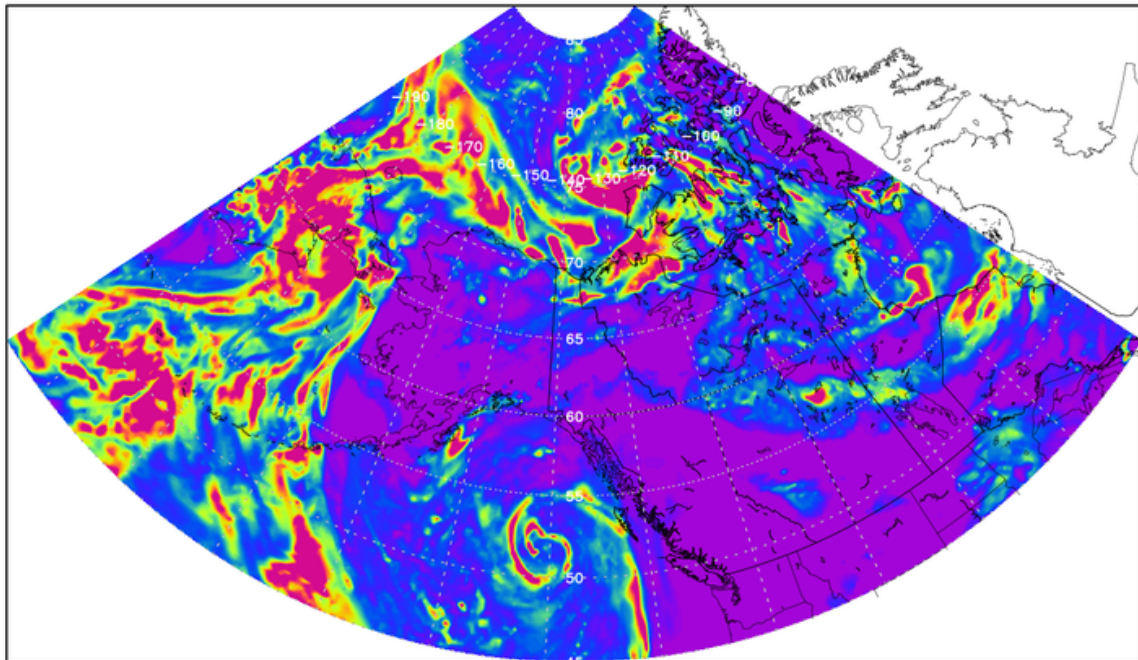
ABOVE_Total_Cloud_IT_00z03JUL_VT_18z05JUL.png

GEOS Total Cloud Optical Depth
Initial time 03 JUL. 00z
Valid time 05 JUL. 18z



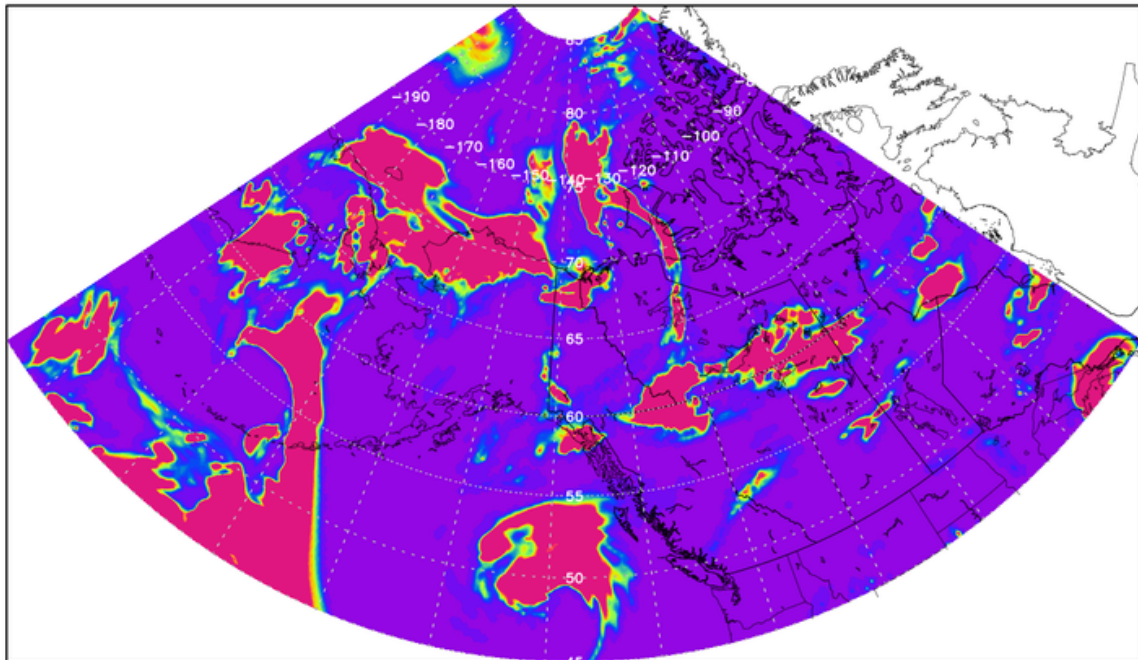
ABOVE_Total_Cloud_IT_00z03JUL_VT_18z06JUL.png

GEOS Total Cloud Optical Depth
Initial time 03 JUL. 00z
Valid time 06 JUL. 18z



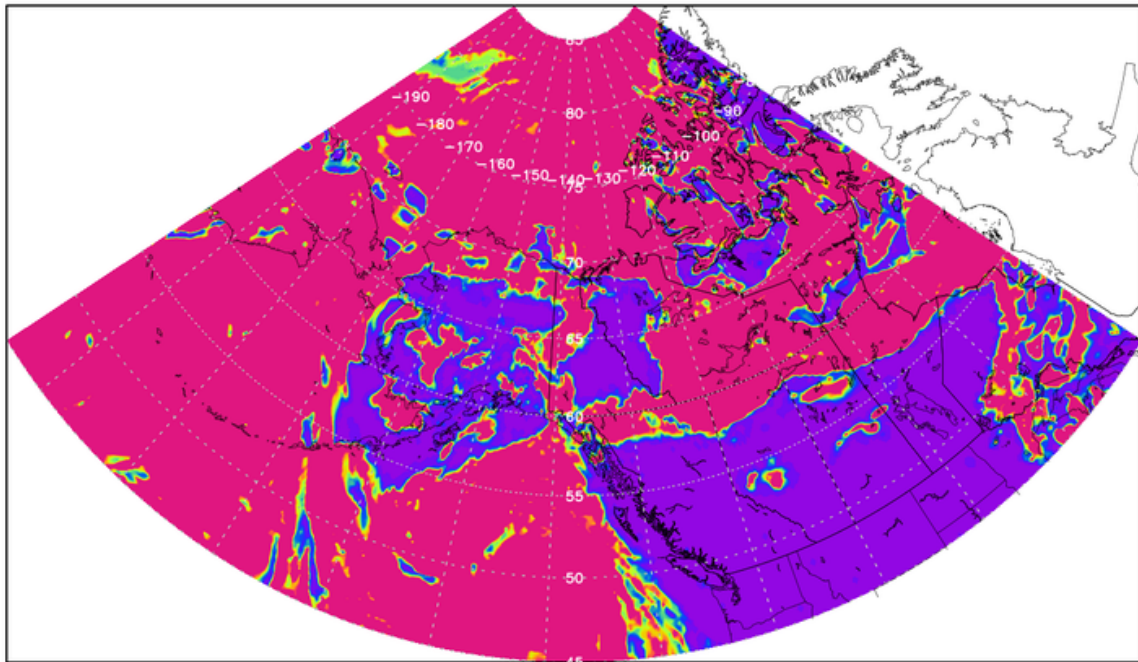
ABOVE_Mid_Cloud_Optical_Depth_IT_00z03JUL_VT_18z05JUL.png

GEOS Mid Cloud Optical Depth
Initial time 03 JUL. 00z
Valid time 05 JUL. 18z



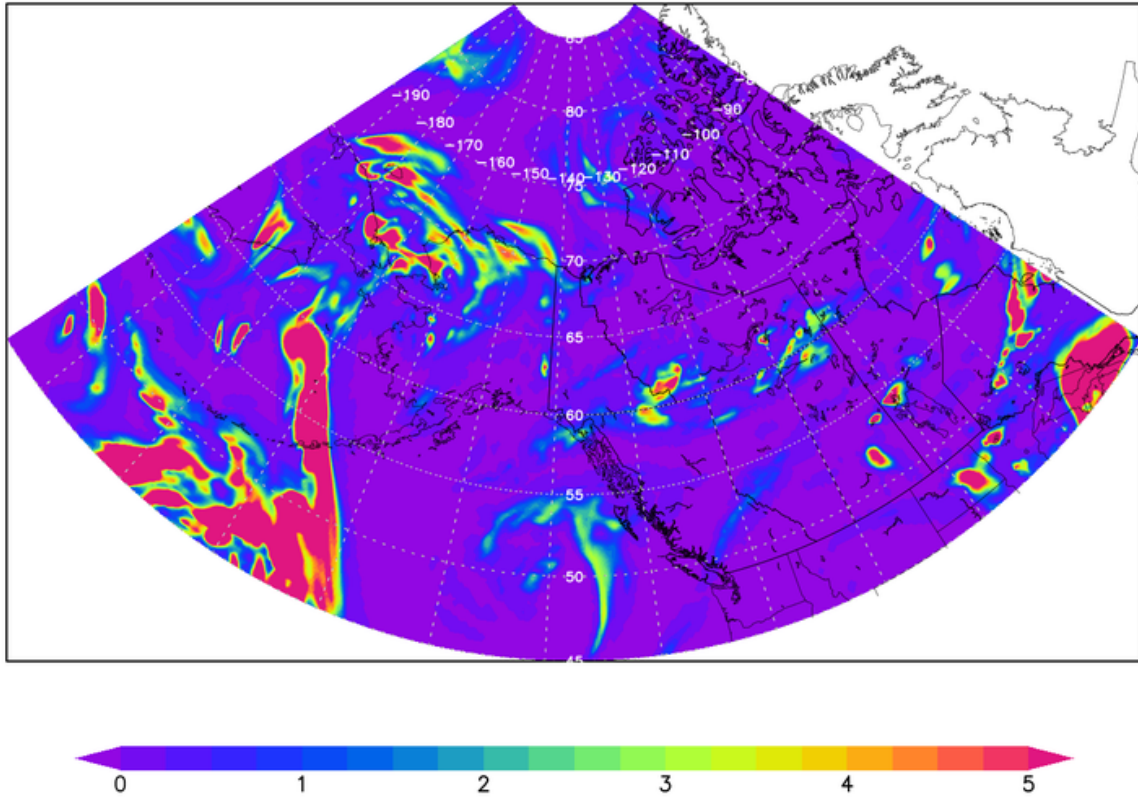
ABOVE_Low_Cloud_Optical_Depth_IT_00z03JUL_VT_18z05JUL.png

GEOS Low Cloud Optical Depth
Initial time 03 JUL. 00z
Valid time 05 JUL. 18z



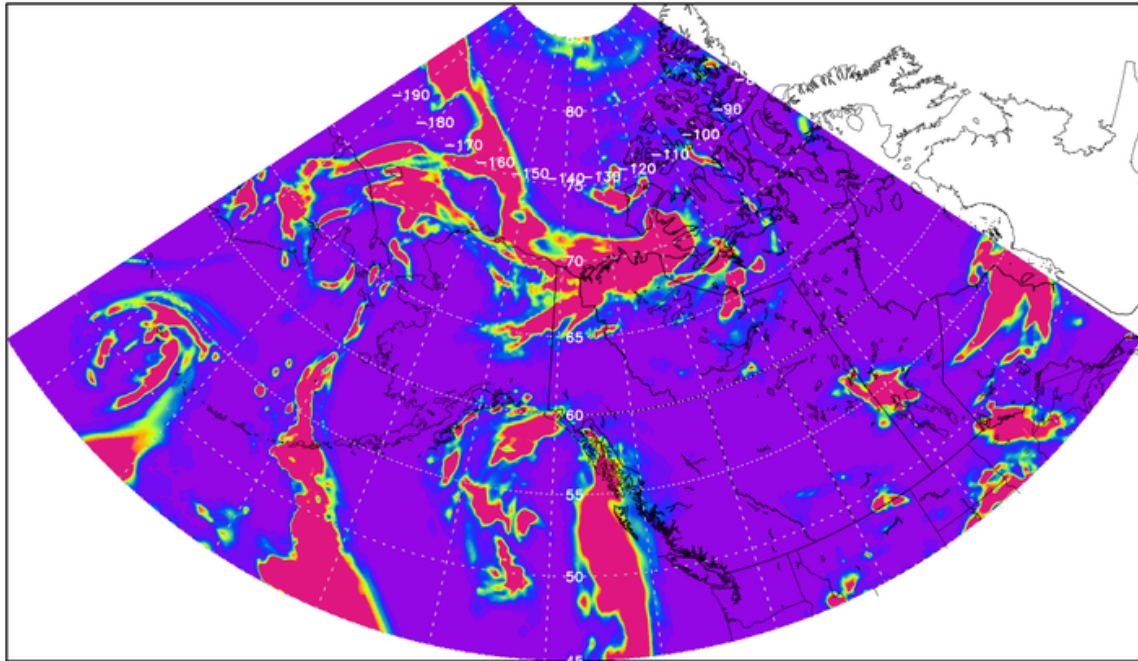
ABOVE_High_Cloud_Optical_Depth_IT_00z03JUL_VT_18z05JUL.png

GEOS High Cloud Optical Depth
Initial time 03 JUL. 00z
Valid time 05 JUL. 18z



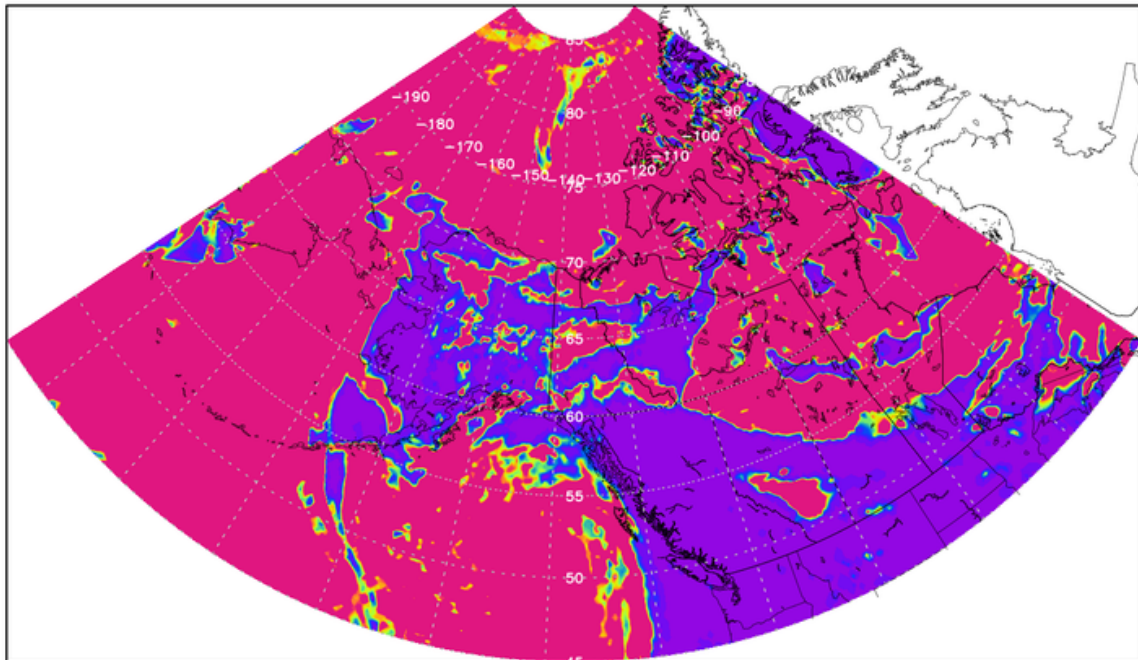
ABOVE_Mid_Cloud_Optical_Depth_IT_00z03JUL_VT_18z06JUL.png

GEOS Mid Cloud Optical Depth
Initial time 03 JUL. 00z
Valid time 06 JUL. 18z



ABOVE_Low_Cloud_Optical_Depth_IT_00z03JUL_VT_18z06JUL.png

GEOS Low Cloud Optical Depth
Initial time 03 JUL. 00z
Valid time 06 JUL. 18z



ABOVE_High_Cloud_Optical_Depth_IT_00z03JUL_VT_18z06JUL.png

