

ABOVE Regional Weather Briefing
Based on the GMAO GEOS meteorology and aerosol forecast fields
Model Initialized 00z 05 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 06 July through 2359z 06 July

Fires continue to burn in northeast Alaska and the western half of YKT. The low pressure system in the Gulf of Alaska continues sending clouds and moisture into south central and south eastern Alaska. At the beginning of this period there is forecasted a channel of cloud free and precipitation free air stretching from southwest Alaska along the southern 1/3 of the state and through to lower YKT. This mostly clear channel will become gradually cloudy through the end of the period. Galena, Yukon Delta, or possibly Yukon Flats and North Slope might be good targets. An area of optically thin smoke haze is present from Barrow down through the southwest part of the state near the Yukon Delta. Low clouds will be moving west to east from the western edge of the north slopes of the Brooks Range, but there may be a clear shot to Toolik Lake in this period.

Day-2 Forecast

Valid 1500z 07 July through 2359z 07 July

Clouds and moisture wrapping around the Gulf of Alaska low pressure system approach the Fairbanks region. An area that approximates the middle third of Alaska is nearly cloud free at the beginning of the period. This area shrinks in size and moves northward as clouds and rain enter the Fairbanks region. Excursions to Yukon Flats, North Slope look possible though showers and thunderstorms will be moving in from the south into the Fairbanks area. If the mostly clear area extends far enough to the west, Nome might be a possible target destination. Thin smoke haze is forecasted for the southwest Alaska region including the Yukon Delta area.

Day-3 Outlook

Valid 1500z 08 July through 2359z 08 July

Any smoke haze seen should be optically thin except in the northeast where there may be a small area between Fort Yukon and Old Crow where thick smoke haze may be encountered. A significant area of clouds and precipitation will be approaching from the south associated with the Gulf of Alaska low pressure system. Denali and points south will be cloudy and rainy and the clouds and rain will be in the Fairbanks area by the end of the period. There may be time for short flights in and near Fairbanks before clouds and rain move in, but this may be a good day

for a no fly day. A flight from Toolik Lake north looks possible however low clouds and precipitation will be approaching Barrow from the northwest and the Toolik Lake region from the southwest.

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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

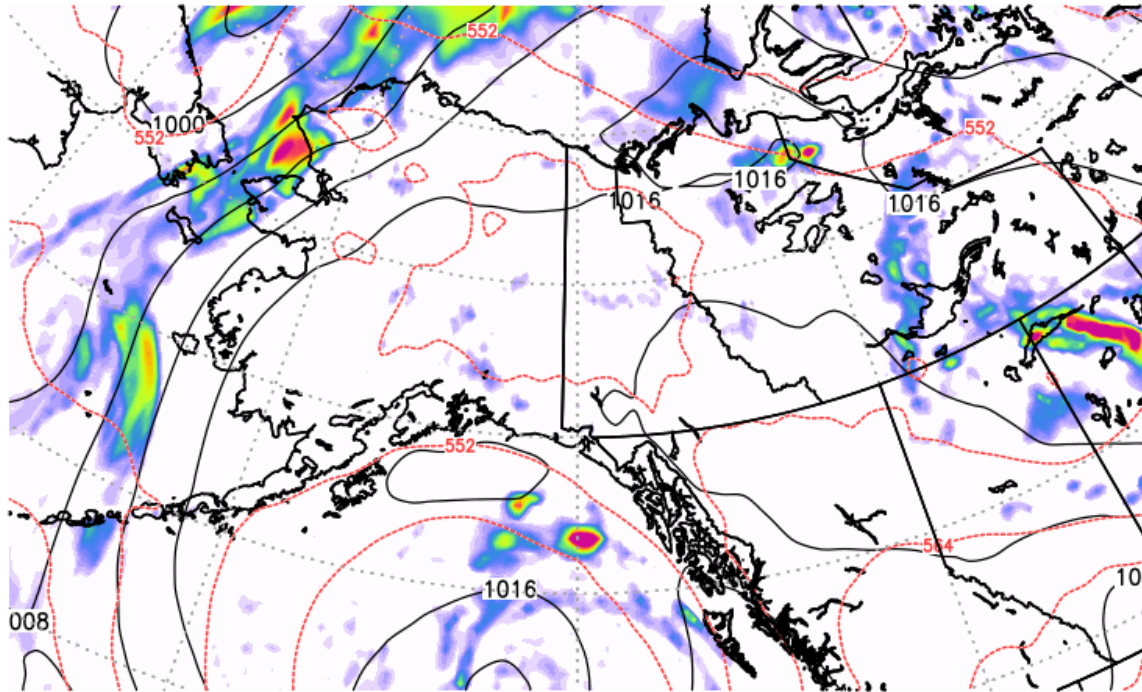
Austin.L.Conaty@nasa.gov

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

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NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-07-05

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

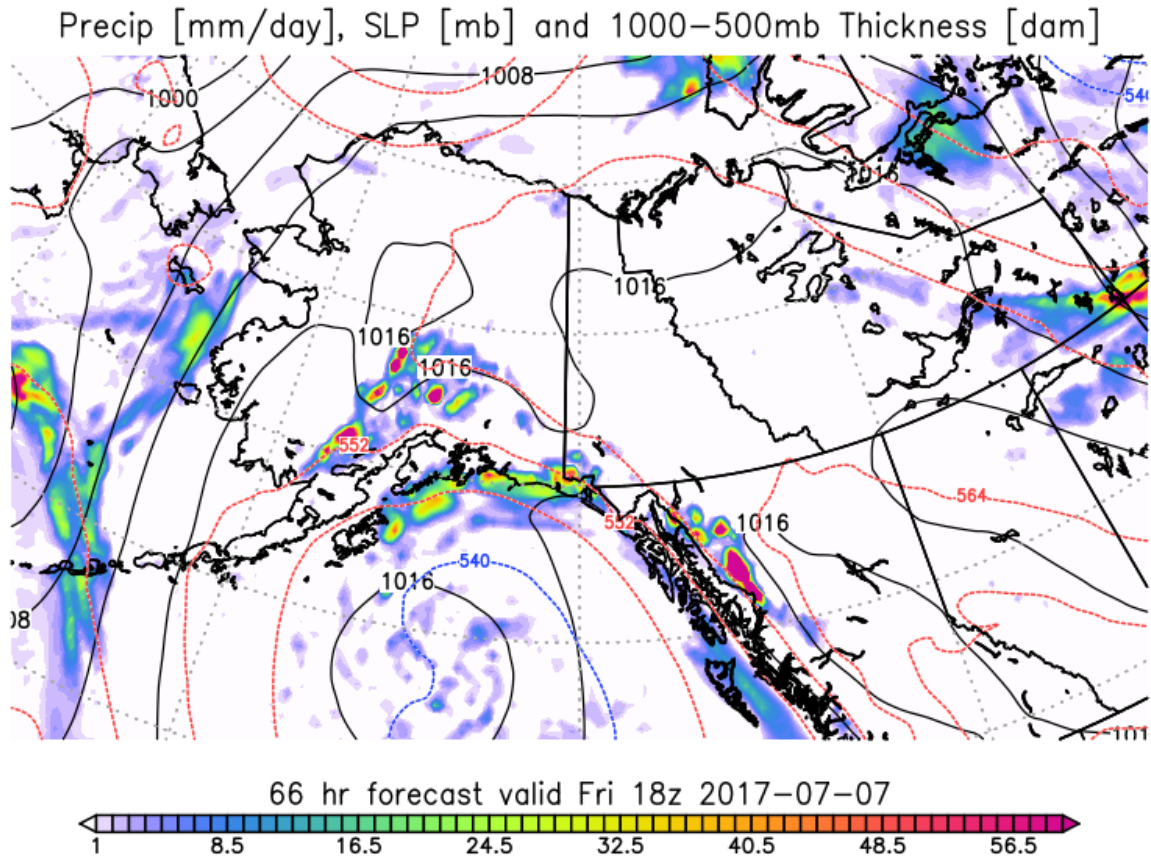


42 hr forecast valid Thu 18z 2017-07-06



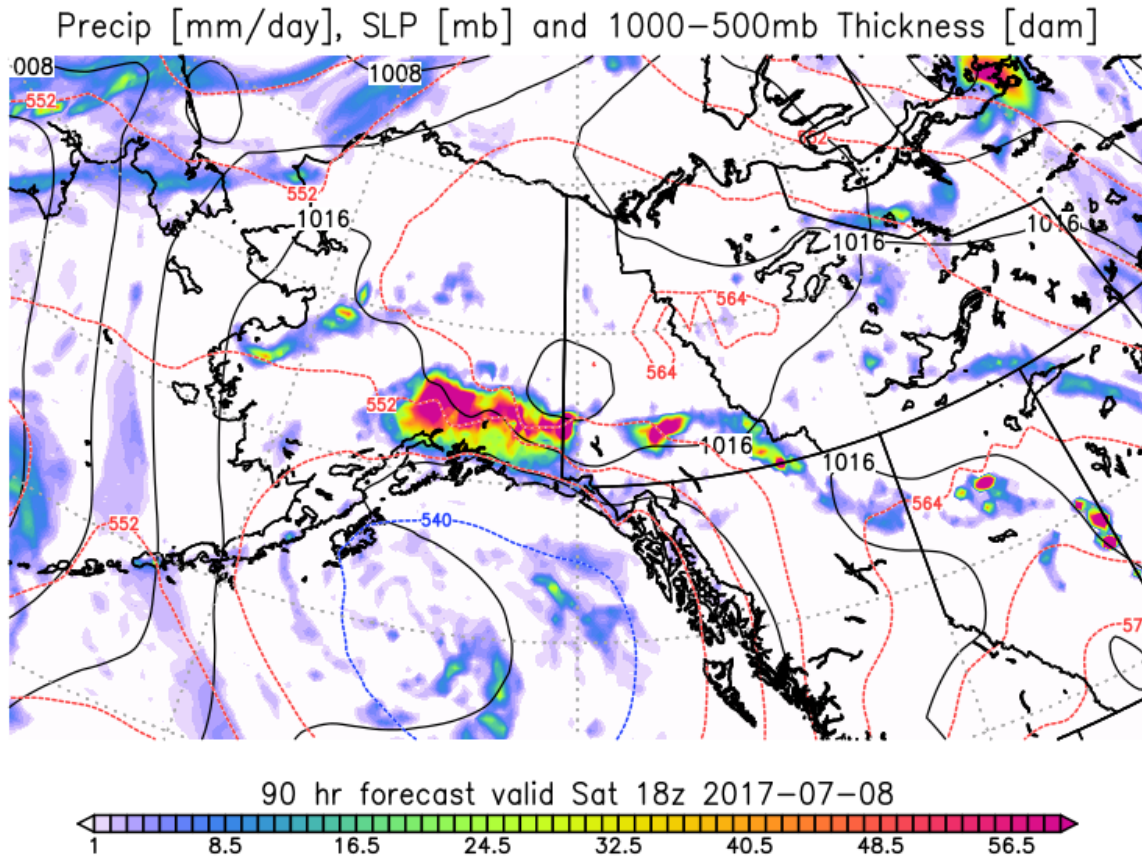
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NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-05



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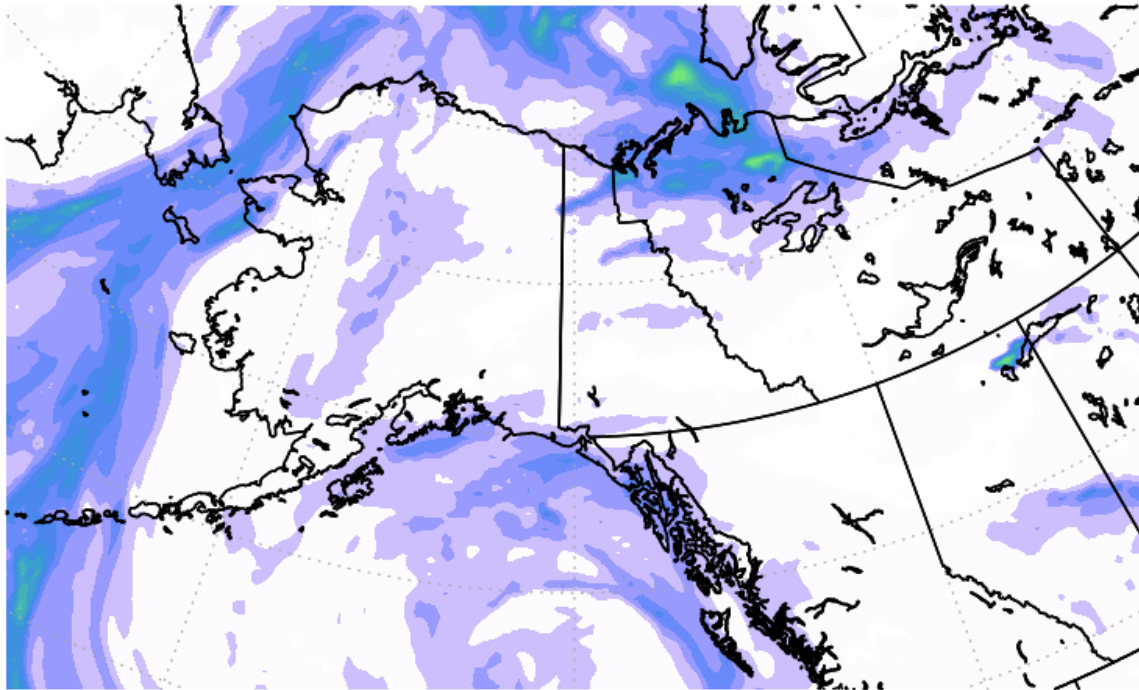
NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-05



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NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-05

Total Aerosol Optical Thickness

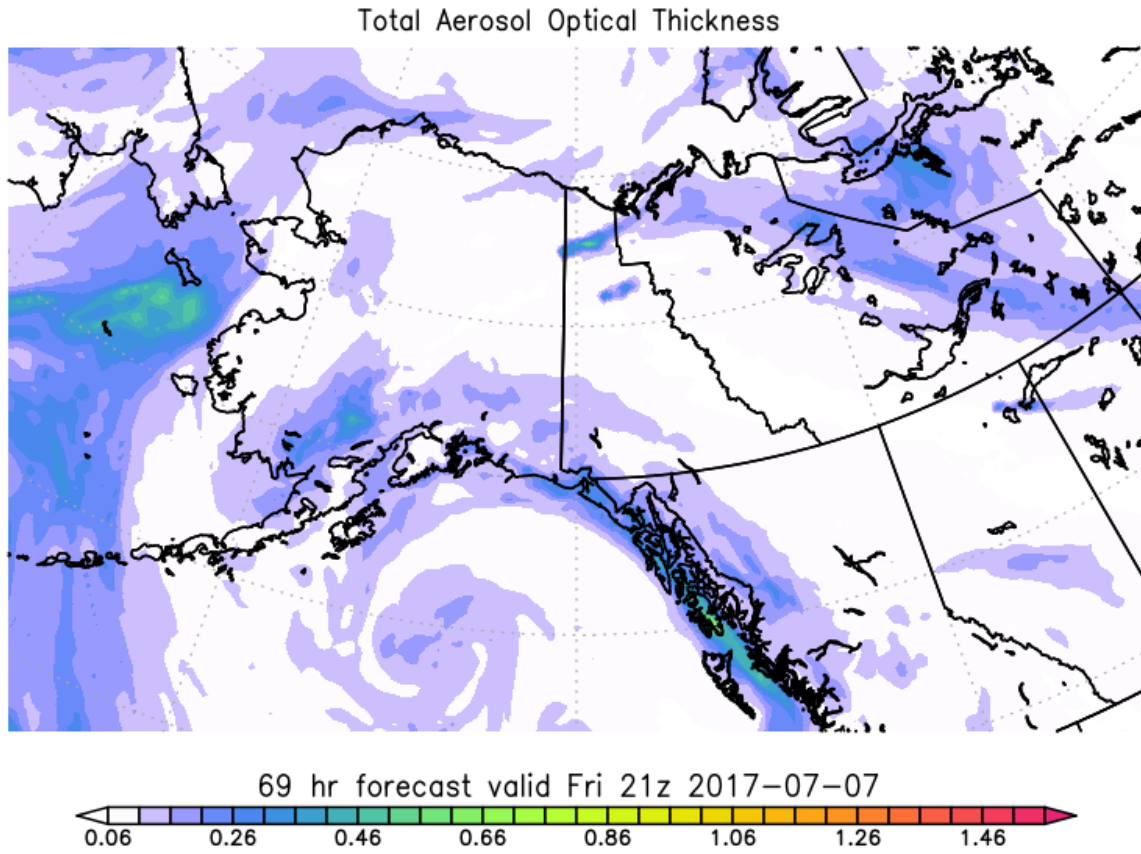


45 hr forecast valid Thu 21z 2017-07-06



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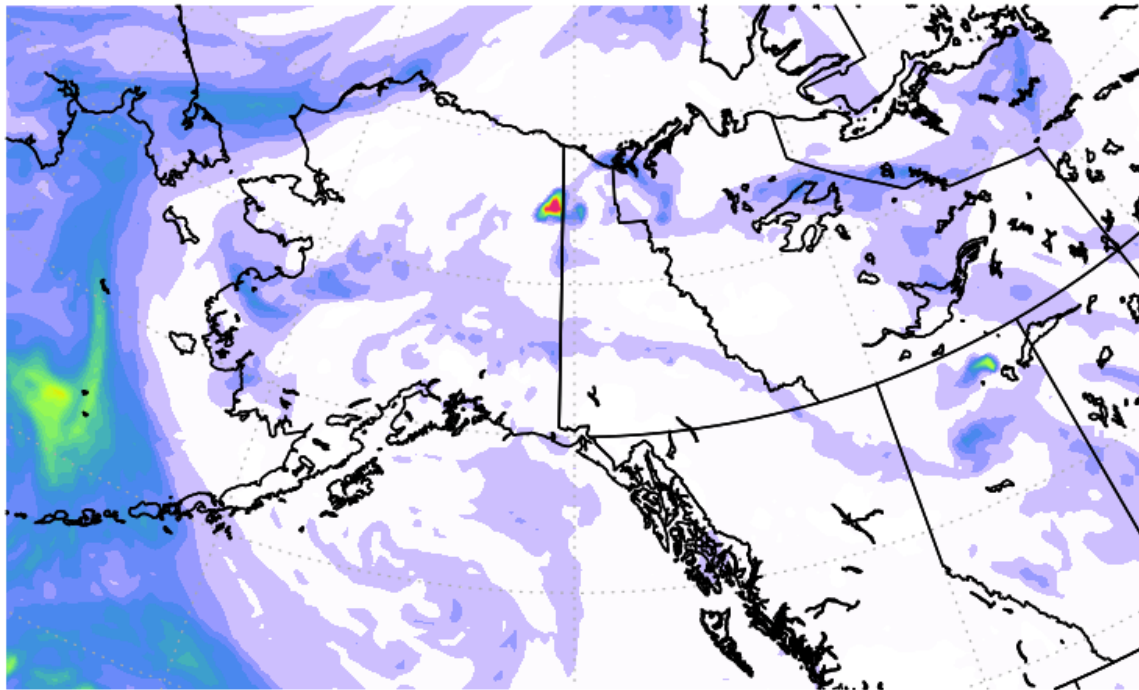
NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-05



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NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-05

Total Aerosol Optical Thickness

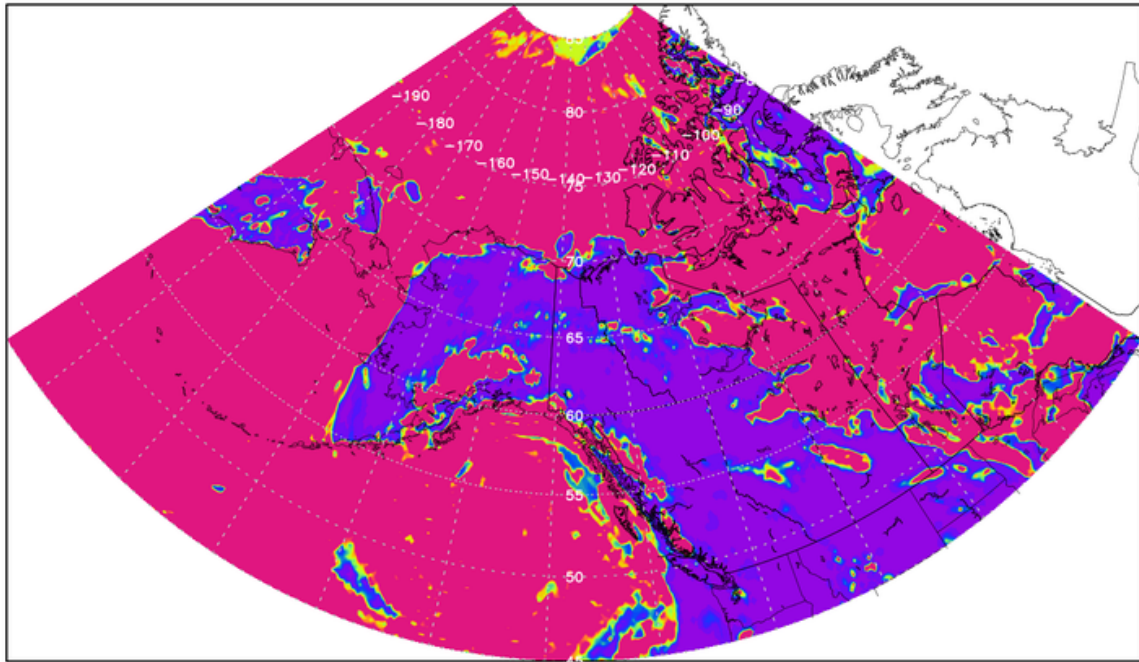


93 hr forecast valid Sat 21z 2017-07-08



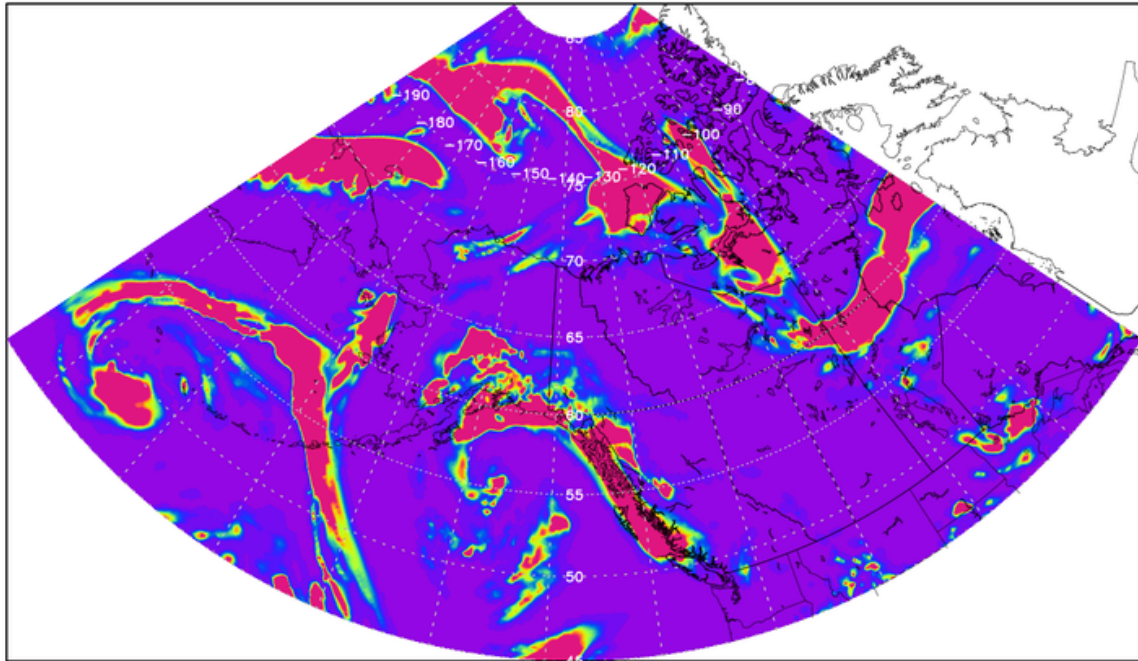
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GEOS Low Cloud Optical Depth
Initial time 05 JUL. 00z
Valid time 07 JUL. 18z



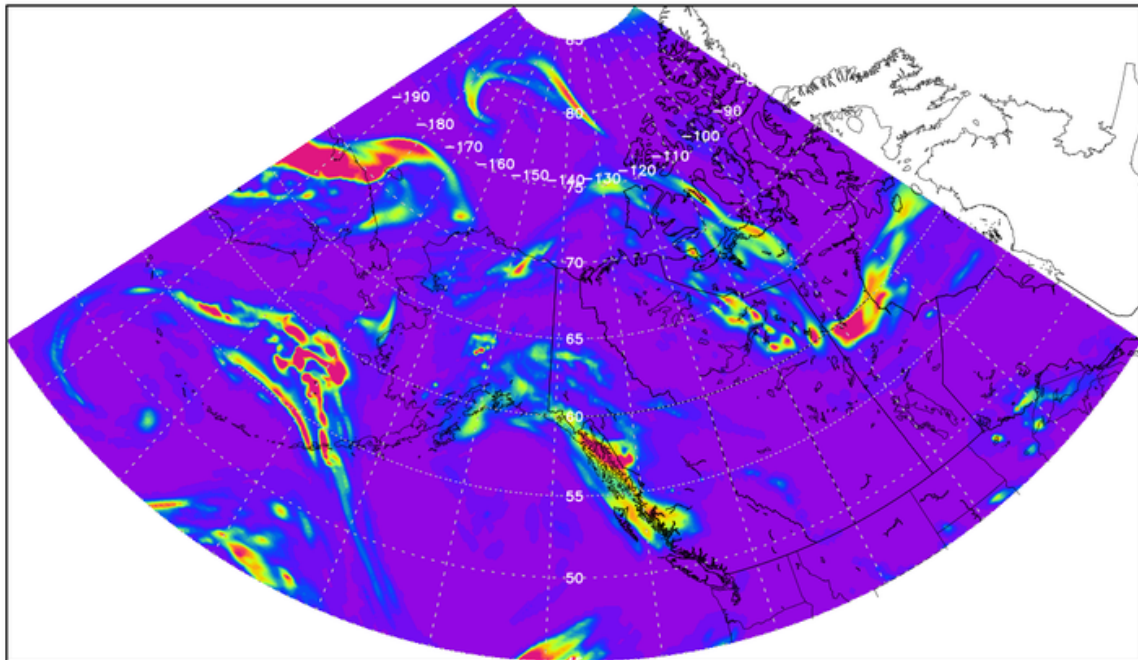
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GEOS Mid Cloud Optical Depth
Initial time 05 JUL. 00z
Valid time 07 JUL. 18z



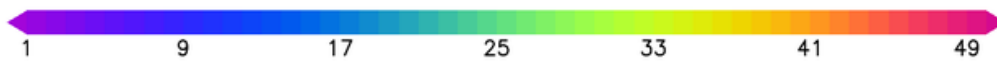
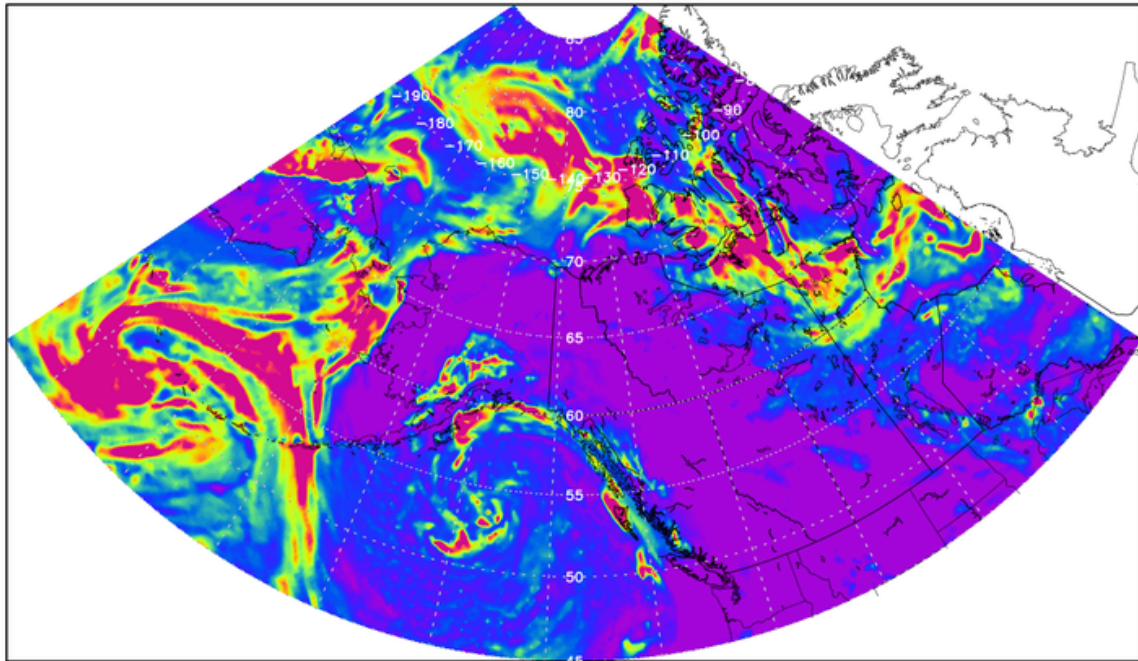
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GEOS High Cloud Optical Depth
Initial time 05 JUL. 00z
Valid time 07 JUL. 18z



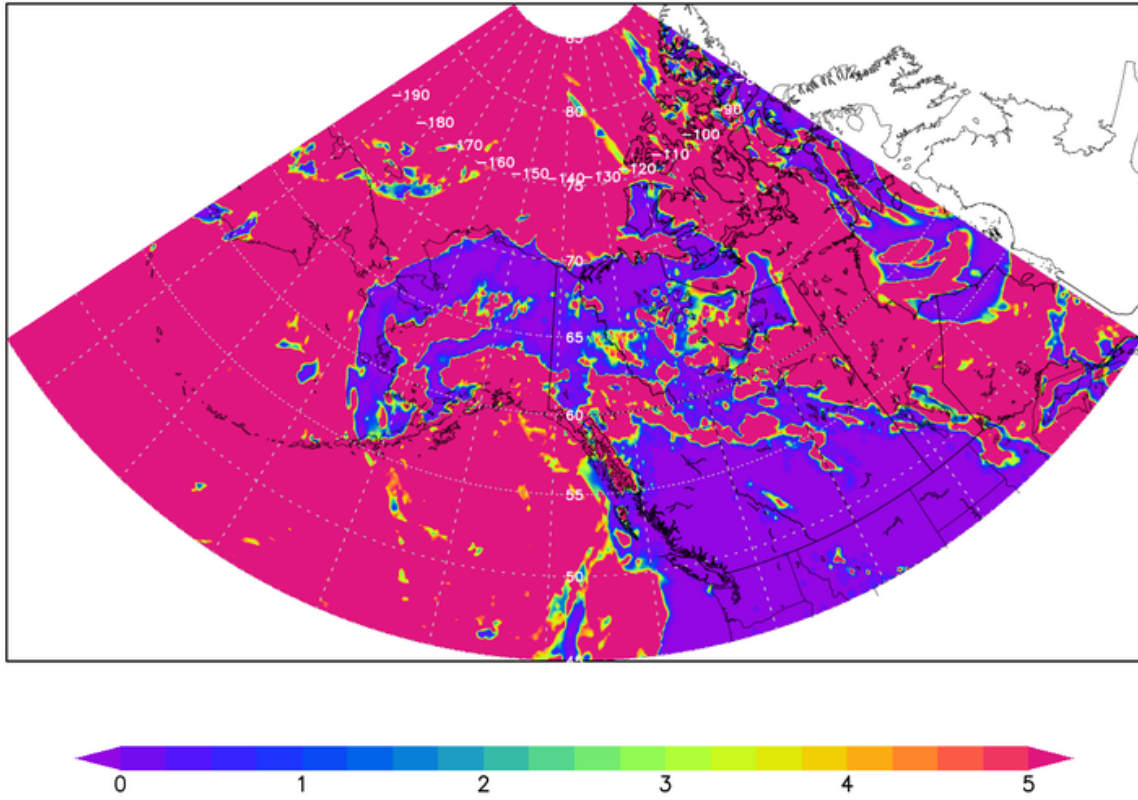
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GEOS Total Cloud Optical Depth
Initial time 05 JUL. 00z
Valid time 07 JUL. 18z



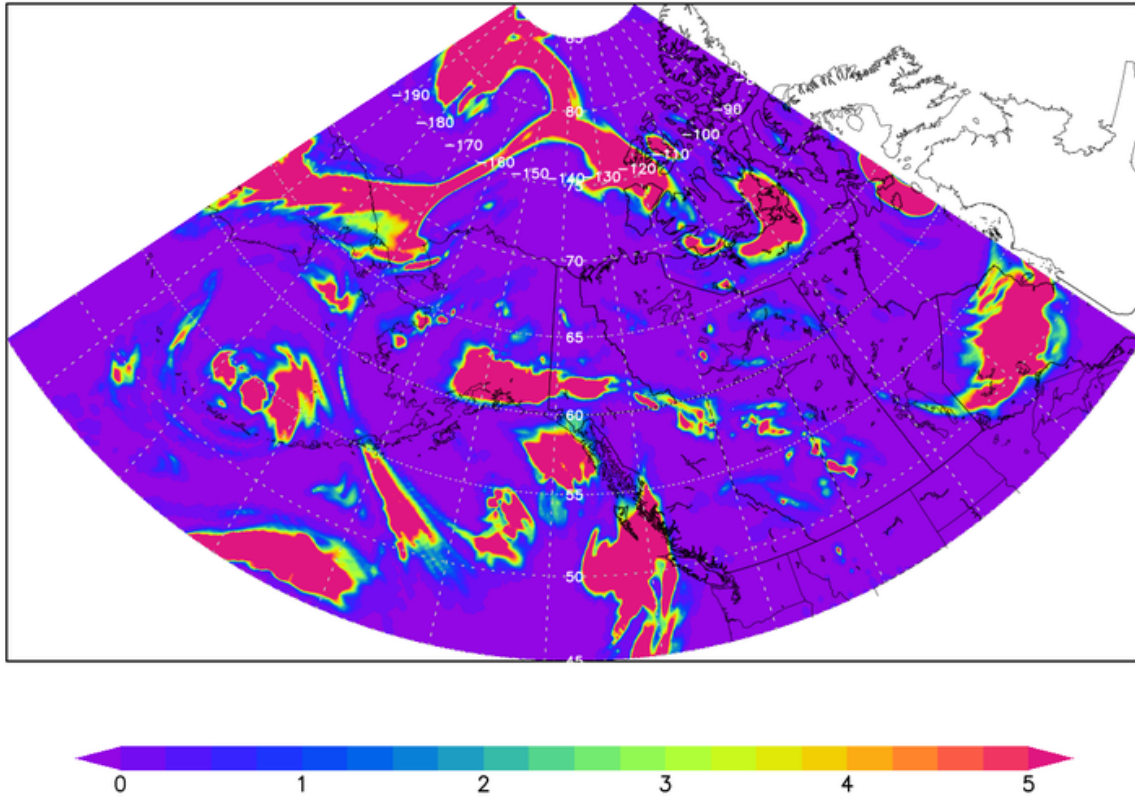
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GEOS Low Cloud Optical Depth
Initial time 05 JUL. 00z
Valid time 08 JUL. 18z



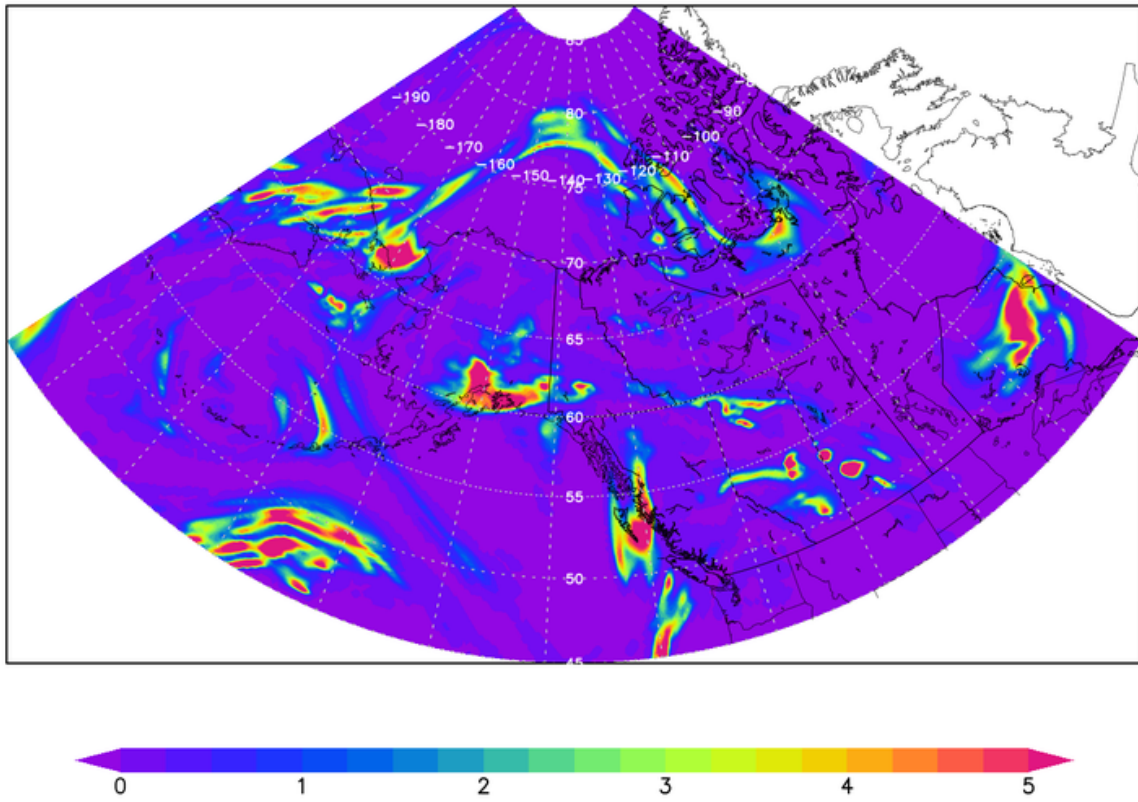
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GEOS Mid Cloud Optical Depth
Initial time 05 JUL. 00z
Valid time 08 JUL. 18z



ABOVE_High_Cloud_Optical_Depth_IT_00z05JUL_VT_18z08JUL.png

GEOS High Cloud Optical Depth
Initial time 05 JUL. 00z
Valid time 08 JUL. 18z



ABOVE_Total_Cloud_IT_00z05JUL_VT_18z08JUL.png

GEOS Total Cloud Optical Depth
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