

ABOVE Regional Weather Briefing
Based on the GMAO GEOS meteorology and aerosol forecast fields
Model Initialized 00z 06 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 07 July through 2359z 07 July

Smoke haze is present in the northeast region of Alaska through Old Crow. Clouds and precipitation will be present in southwest Alaska early in the period. Near the end of the period, a line of showers with embedded thunderstorms will stretch from southwest Alaska near Bethel through Fairbanks and up through the Yukon Flats. Early in the period all but the southwest section of the state look good but conditions deteriorate through the period which may make an in and out trip tricky.

Day-2 Forecast

Valid 1500z 08 July through 2359z 08 July

Early in this period, a small band of low clouds and precipitation are present in western Alaska and move northward through Nome and over the Seward Peninsula. Fairbanks looks fairly rain free and cloud free early on but conditions deteriorate during the course of the day and by the end of the period, optically thick low clouds and rain will be in the Fairbanks area. Smoke haze areas will be located in southwest Alaska and near the Alaska - Canada border in the Northern 1/3 of YKT. Yukon Flats, Barrow, North Slope, and the PASC region all look favorable through the period.

Day-3 Outlook

Valid 1500z 09 July through 2359z 09 July

Thin smoke haze is present in the southwest part of the state, through the Fairbanks region and most of the eastern part of the state. A region in and around Yukon Flats and Fort Yukon includes moderate smoke haze. A weak low pressure system enters the southeast Alaska region with a center on the Alaska Canadian border. Low clouds and precipitation will accompany this system as it moves from southeast to northwest. By the end of the period, this low pressure system will be located in the center of the state and the clouds and precipitation associated with it will cover much of the southern half of the state. PASC, PABR and the North Slope look favorable with North Slope conditions deteriorating half way through the period.

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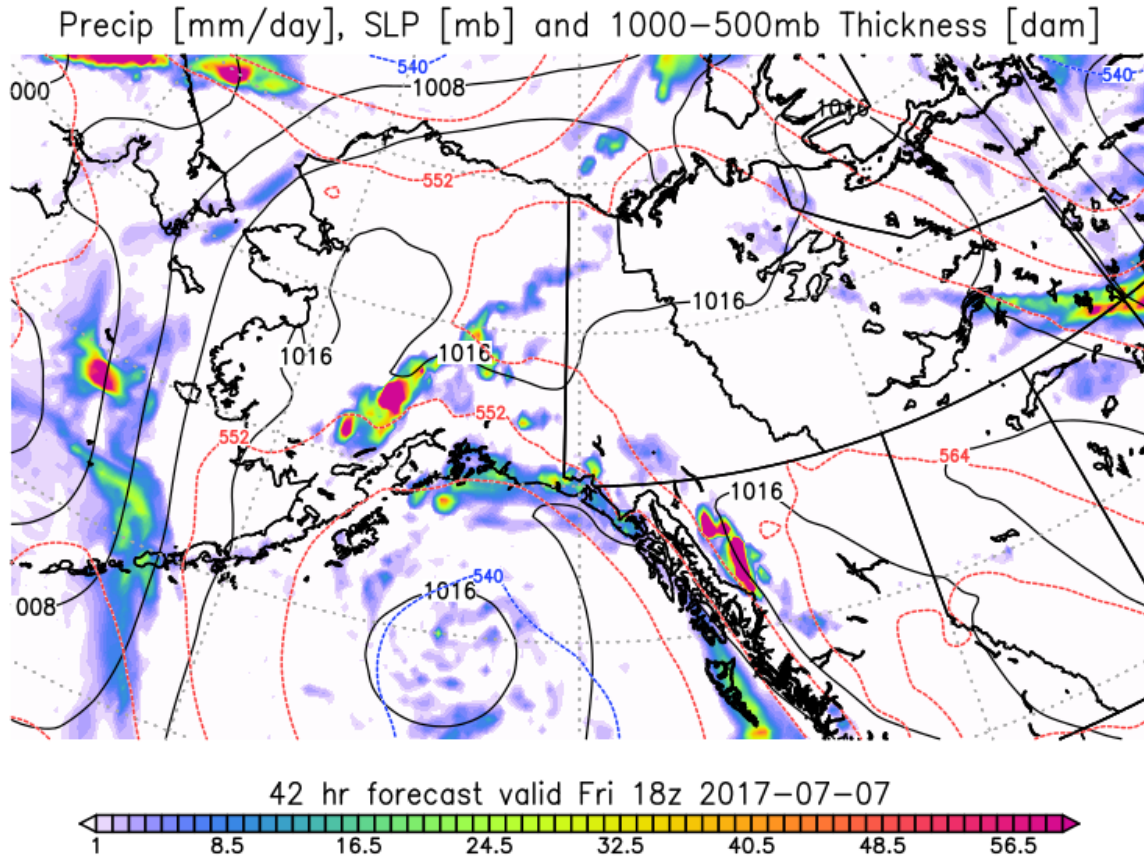
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<http://gmao.gsfc.nasa.gov>

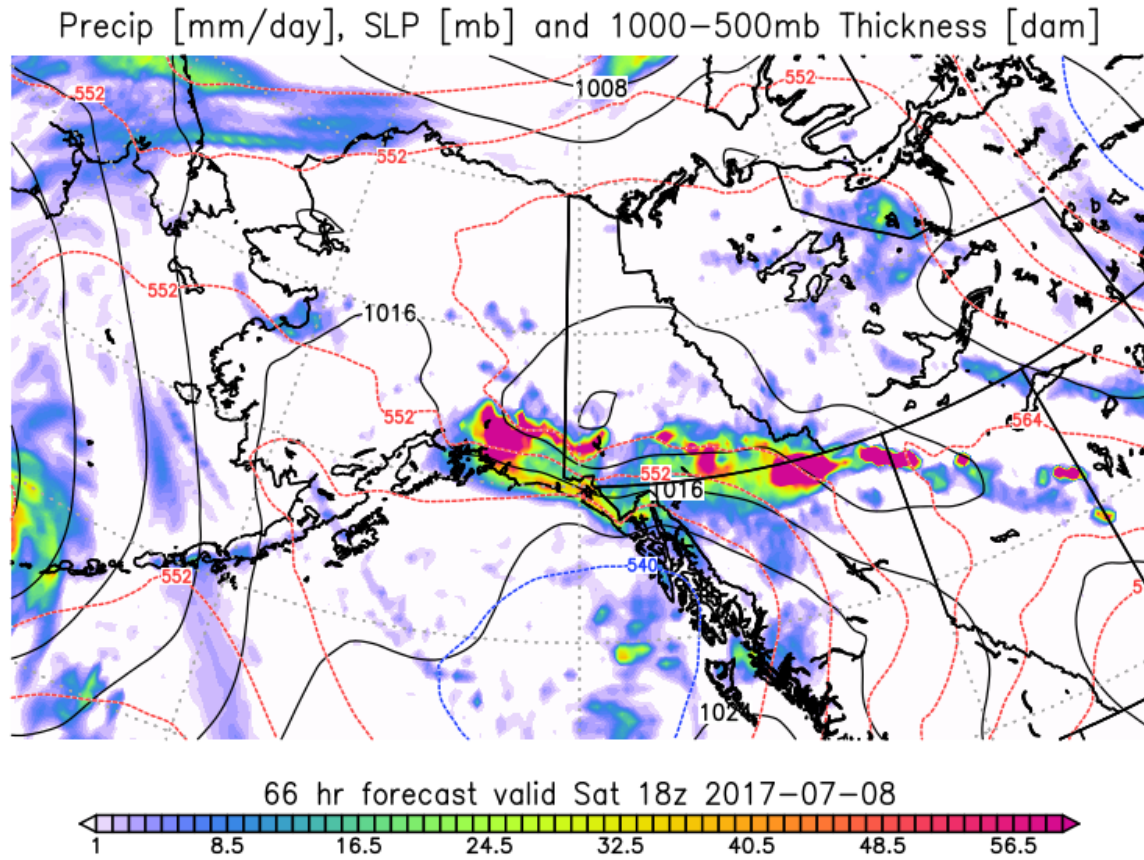
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NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-07-06



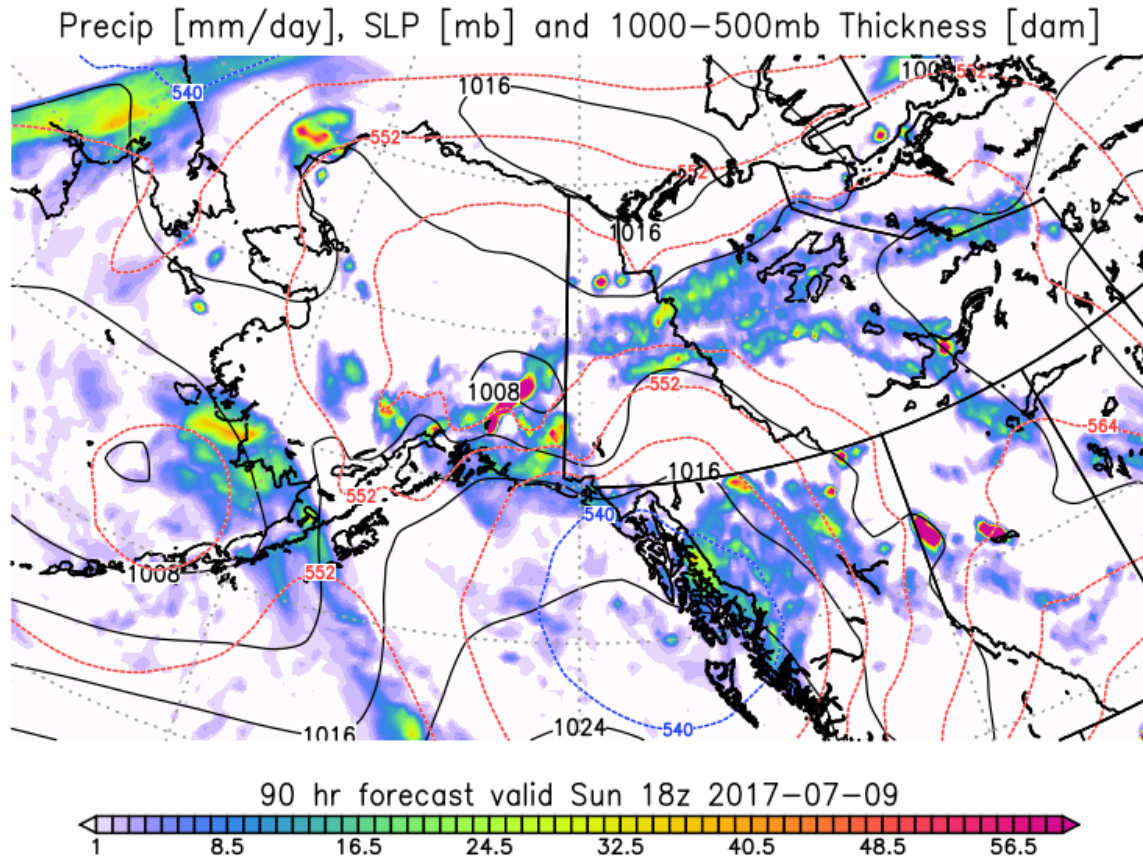
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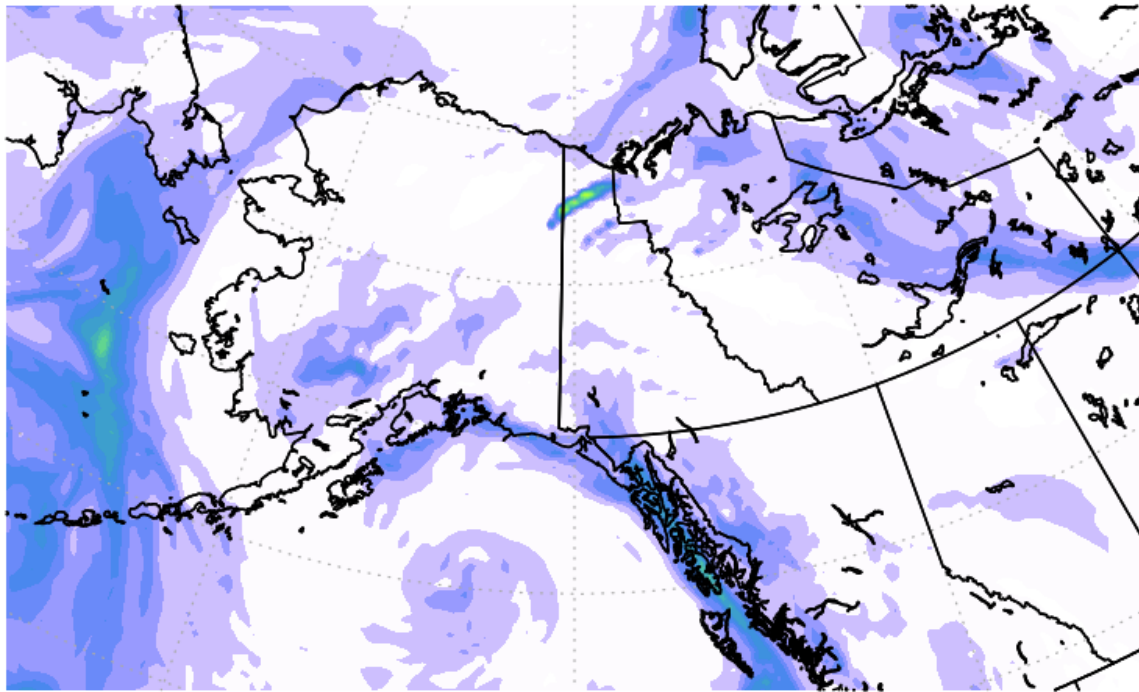
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NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-06

Total Aerosol Optical Thickness

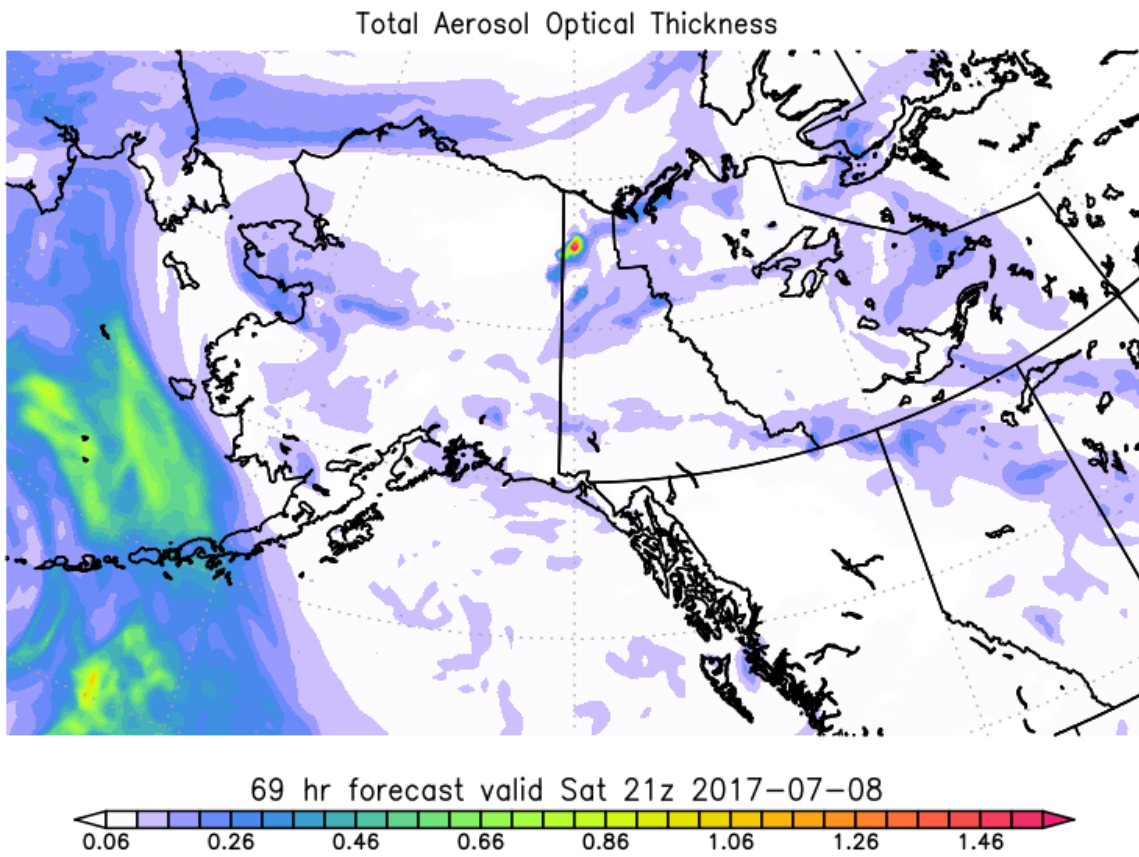


45 hr forecast valid Fri 21z 2017-07-07



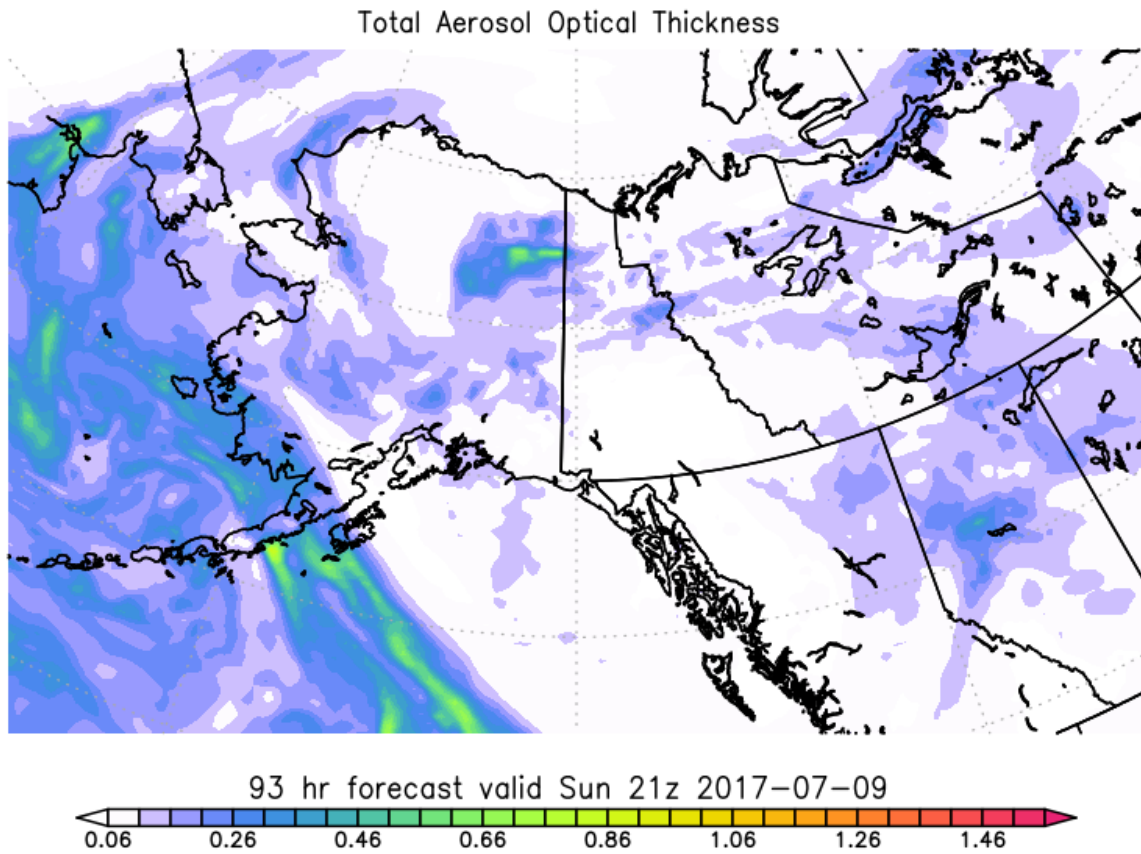
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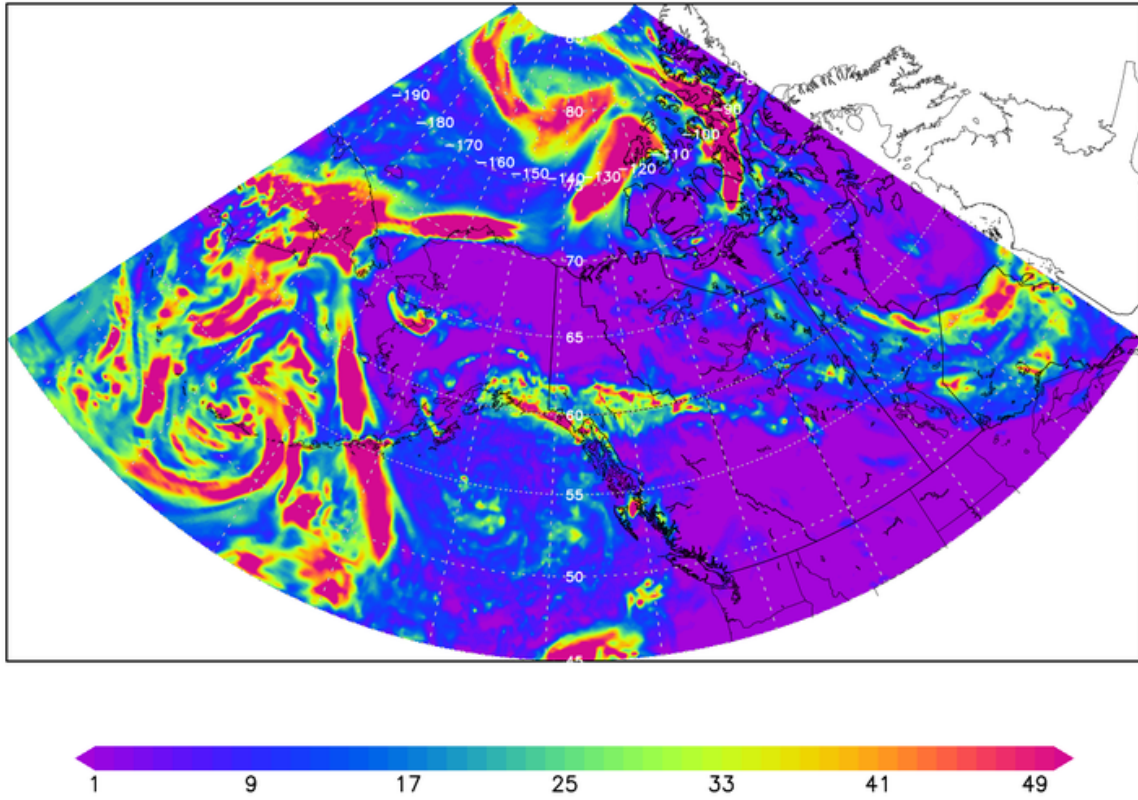
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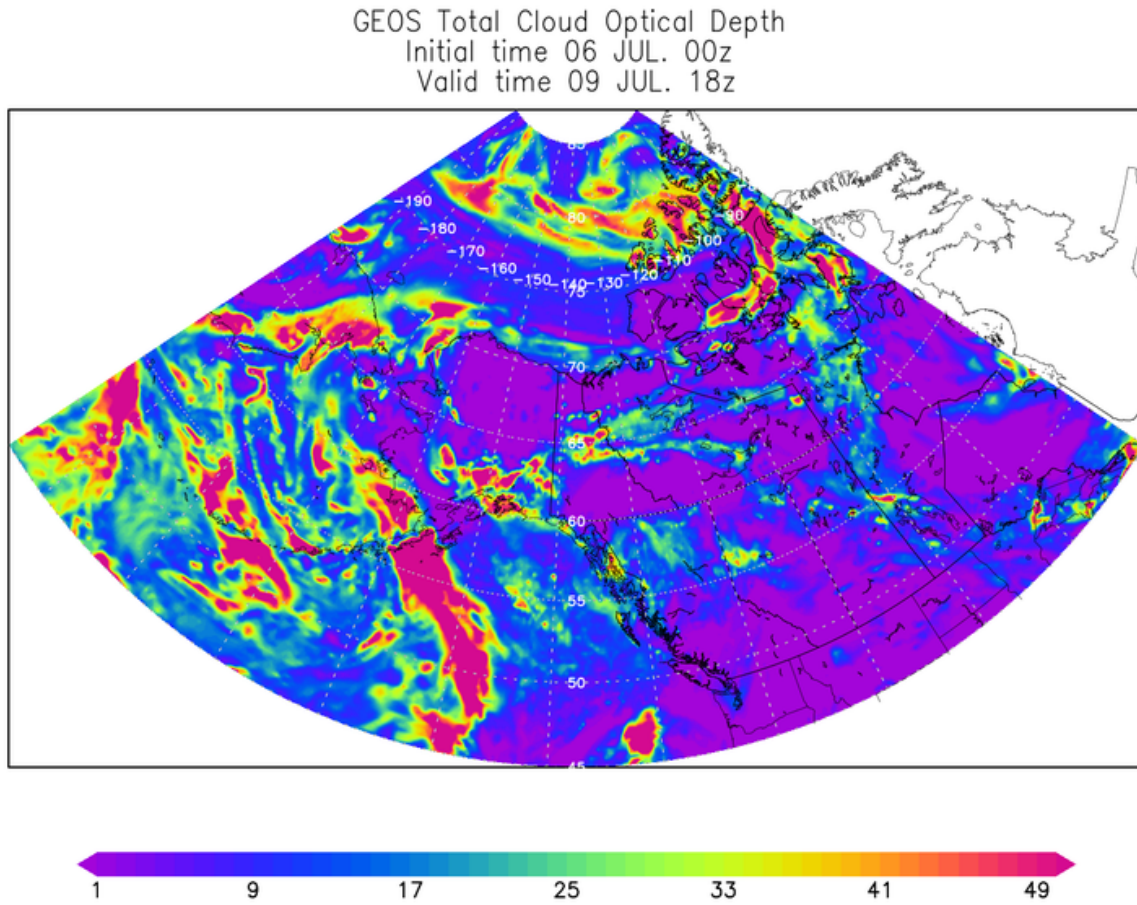


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GEOS Total Cloud Optical Depth
Initial time 06 JUL. 00z
Valid time 08 JUL. 18z

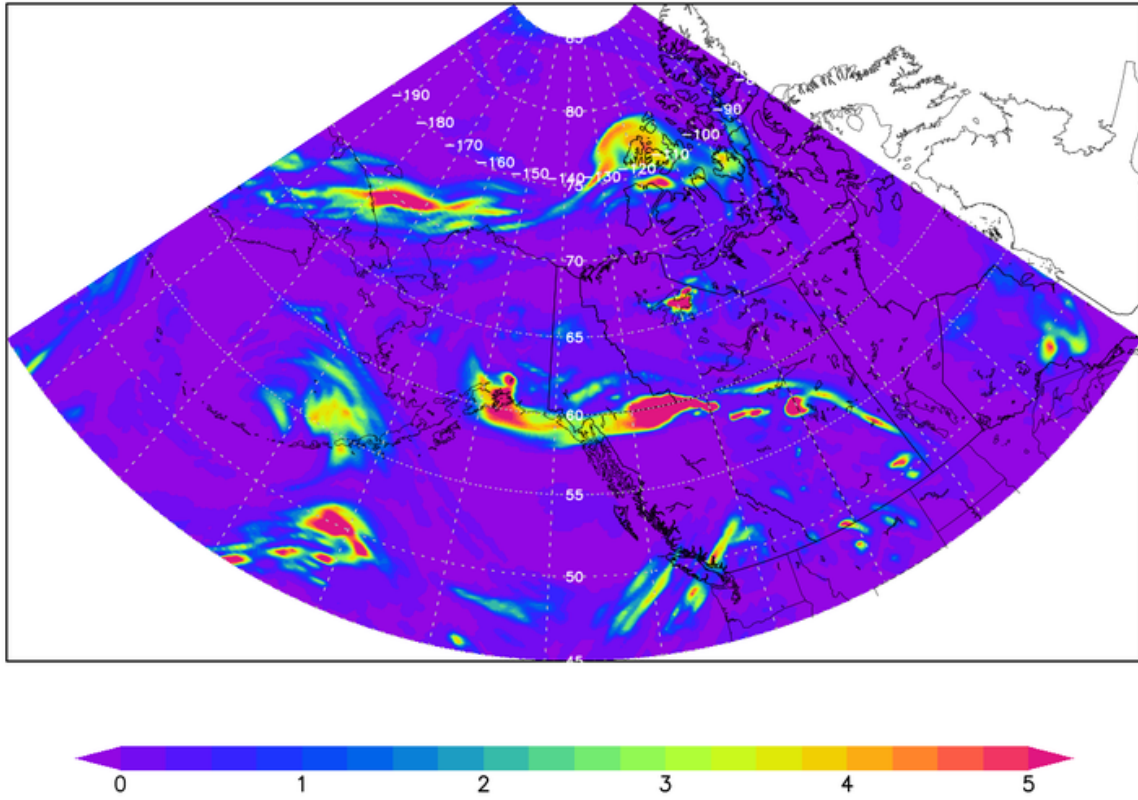


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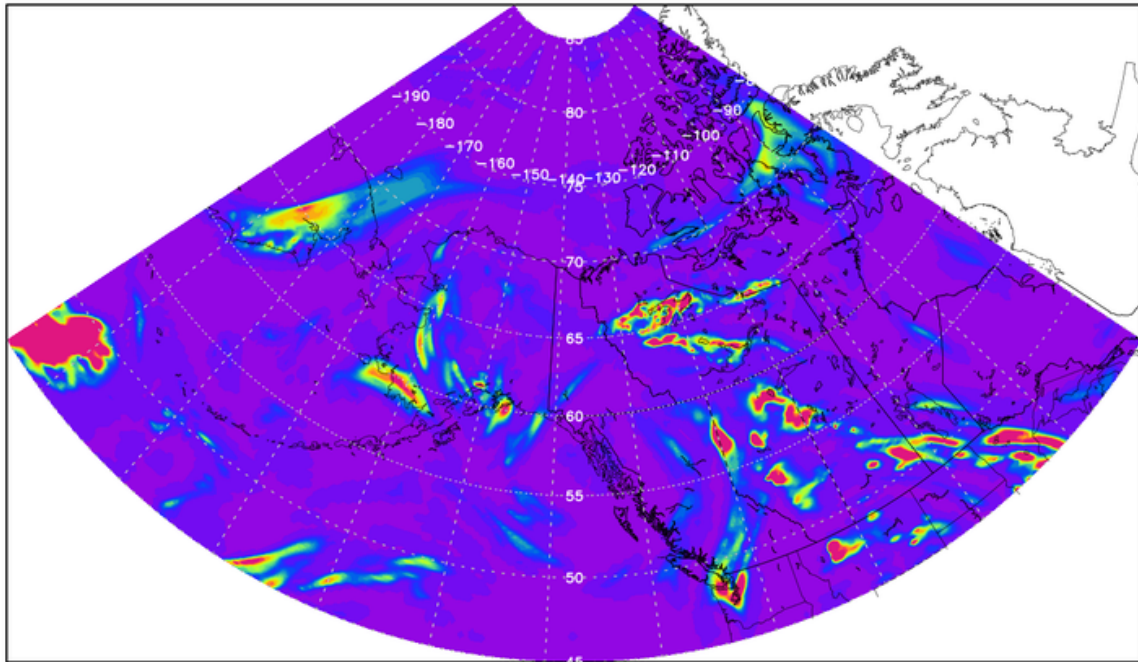
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GEOS High Cloud Optical Depth
Initial time 06 JUL. 00z
Valid time 08 JUL. 18z



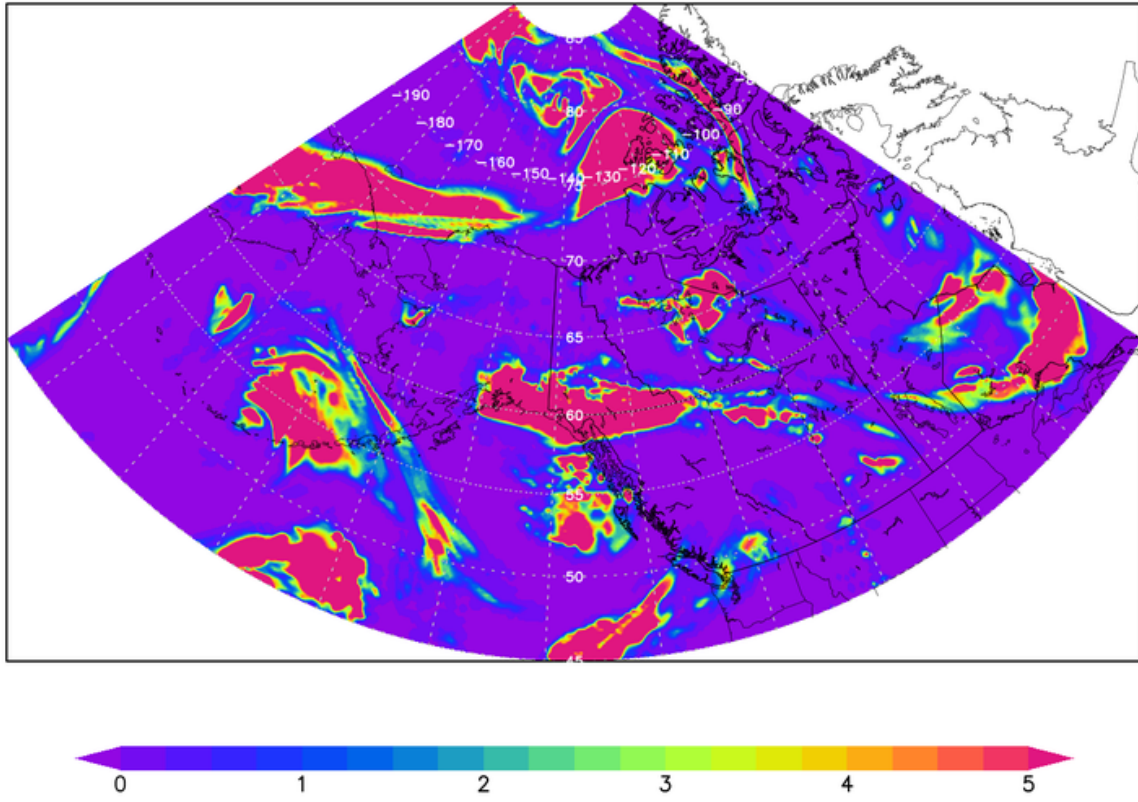
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GEOS High Cloud Optical Depth
Initial time 06 JUL. 00z
Valid time 09 JUL. 18z



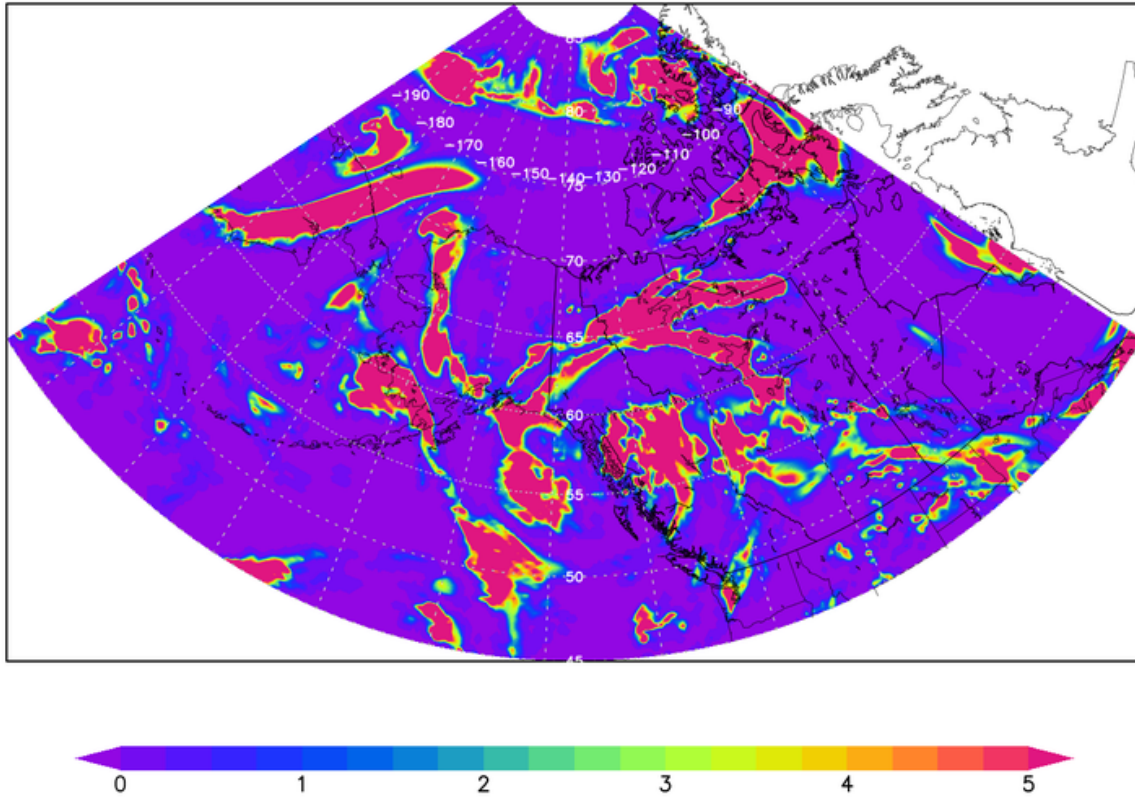
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GEOS Mid Cloud Optical Depth
Initial time 06 JUL. 00z
Valid time 08 JUL. 18z

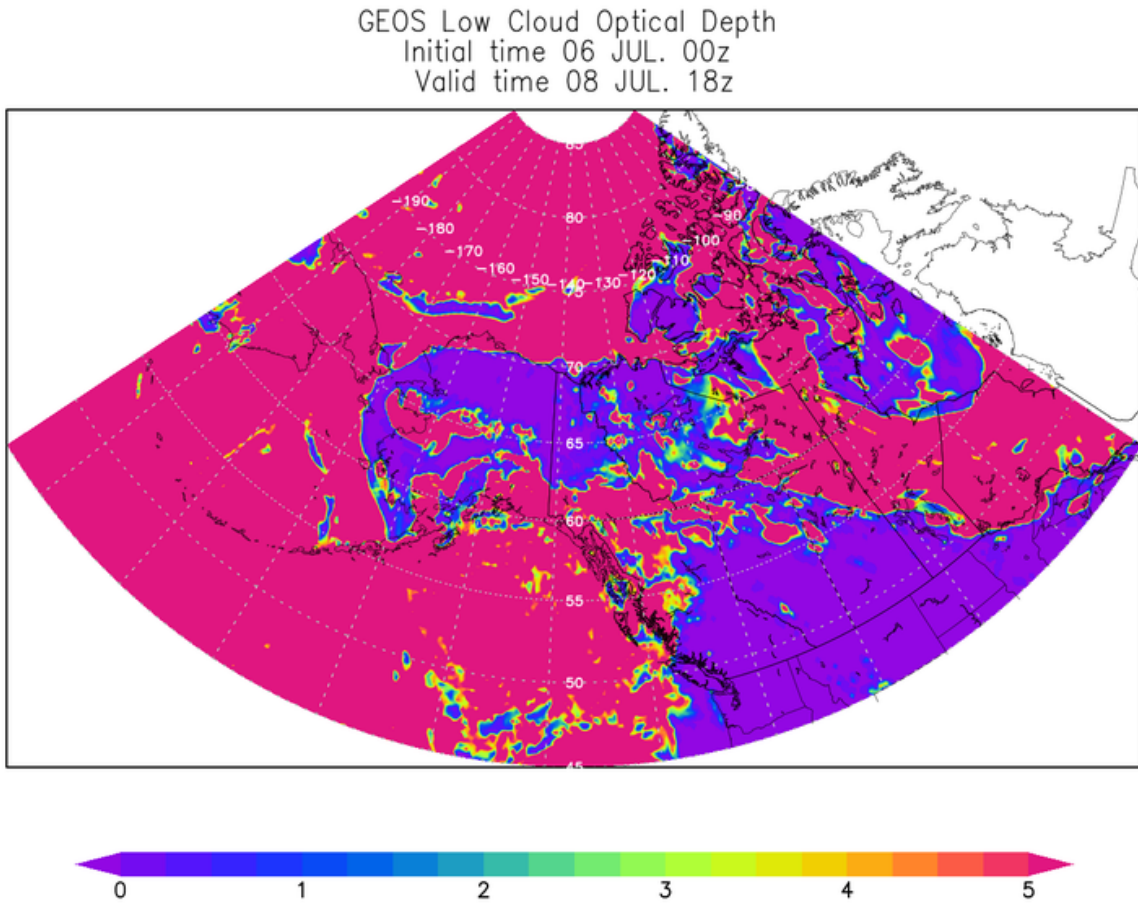


ABOVE_Mid_Cloud_Optical_Depth_IT_00z06JUL_VT_18z09JUL.png

GEOS Mid Cloud Optical Depth
Initial time 06 JUL. 00z
Valid time 09 JUL. 18z



ABOVE_Low_Cloud_Optical_Depth_IT_00z06JUL_VT_18z08JUL.png



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GEOS Low Cloud Optical Depth
Initial time 06 JUL. 00z
Valid time 09 JUL. 18z

