

ABOVE Regional Weather Briefing

Based on the GMAO GEOS meteorology and aerosol forecast fields
Model Initialized 00z 07 August 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 Outlook**Valid 1500z 08 August through 2359z 08 August**

Moderate to high values of aerosol optical thickness will be seen this period south and east of Great Slave Lake and through most of SK including Saskatoon. Much of southern BC is still an area with high values of aerosol optical thickness. Widely scattered showers and thunderstorms will be present in interior AK and along the northern parts of the state. **Inuvik and the Mackenzie River Valley look clear early but quickly become cloudy and rainy as the day goes on.** A line of showers and thunderstorms will stretch across southern SK near Saskatoon. Multiple layers of optically thin clouds are forecasted to stay just offshore of the panhandle of Alaska.

Day-2 Outlook**Valid 1500z 09 August through 2359z 09 August**

Moderate to high values of aerosol optical thickness will be seen this period south and east of Great Slave Lake, in Southern Nunavut and northern MB. Much of southern BC is still an area with high values of aerosol optical thickness. Southwestern and northern Alaska will be under cloudy and rainy conditions most of the period. PAFA area eastward along with Whitehorse area look favorable. Great Slave Lake will be experiencing cloudy and rainy conditions with some improvement towards the end of the period. **Inuvik is expected to be clear and rain free most of the period with some increasing cloudiness towards the end of the period.**

Day-3 Outlook**Valid 1500z 10 August through 2359z 10 August**

Moderate to high values of aerosol optical thickness will be seen this period along the north coast of Alaska, over Lake Athabasca stretching through the Hudson Bay northward. The western half of BC is an area with high values of aerosol optical thickness from south to north including portions of south eastern YKT. Moderate to heavy rain south of the Alaska Range pushes northward during the period and spreads over much of the southern half of the state. Far western Seward Peninsula remains mostly clear with clouds filling in near the end of the period. Clouds and rain will cover much of SK. Inuvik may be just to the south of a line of clouds and rain. Much of YKT and NWT will be rain free and partly cloudy during this period.

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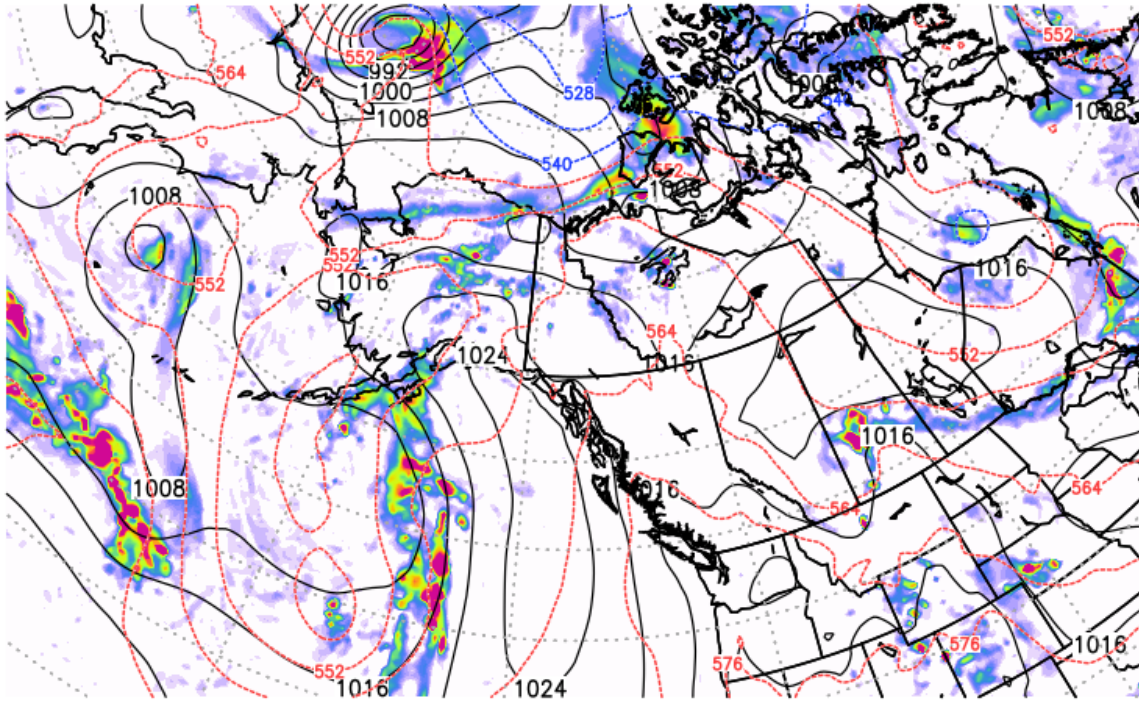
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fp.8prec.sfc.042.above_lg.png

NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-08-07

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



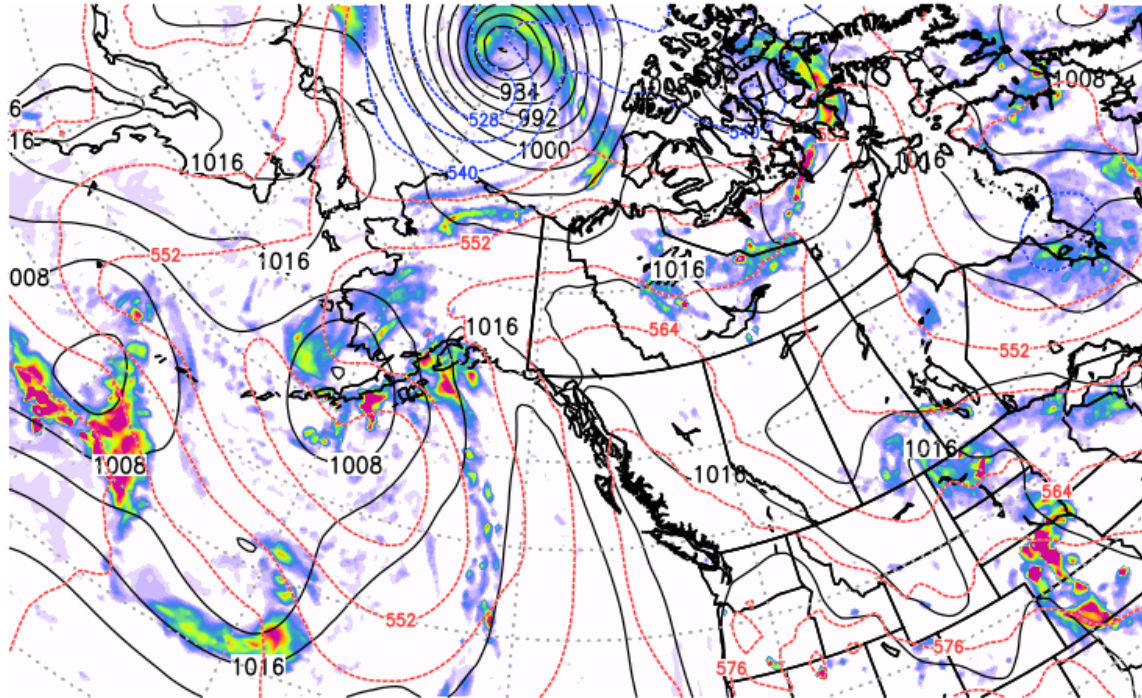
42 hr forecast valid Tue 18z 2017-08-08



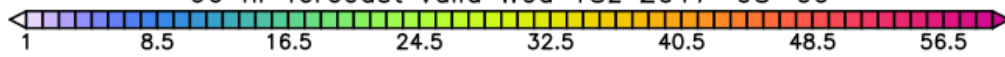
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NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-08-07

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

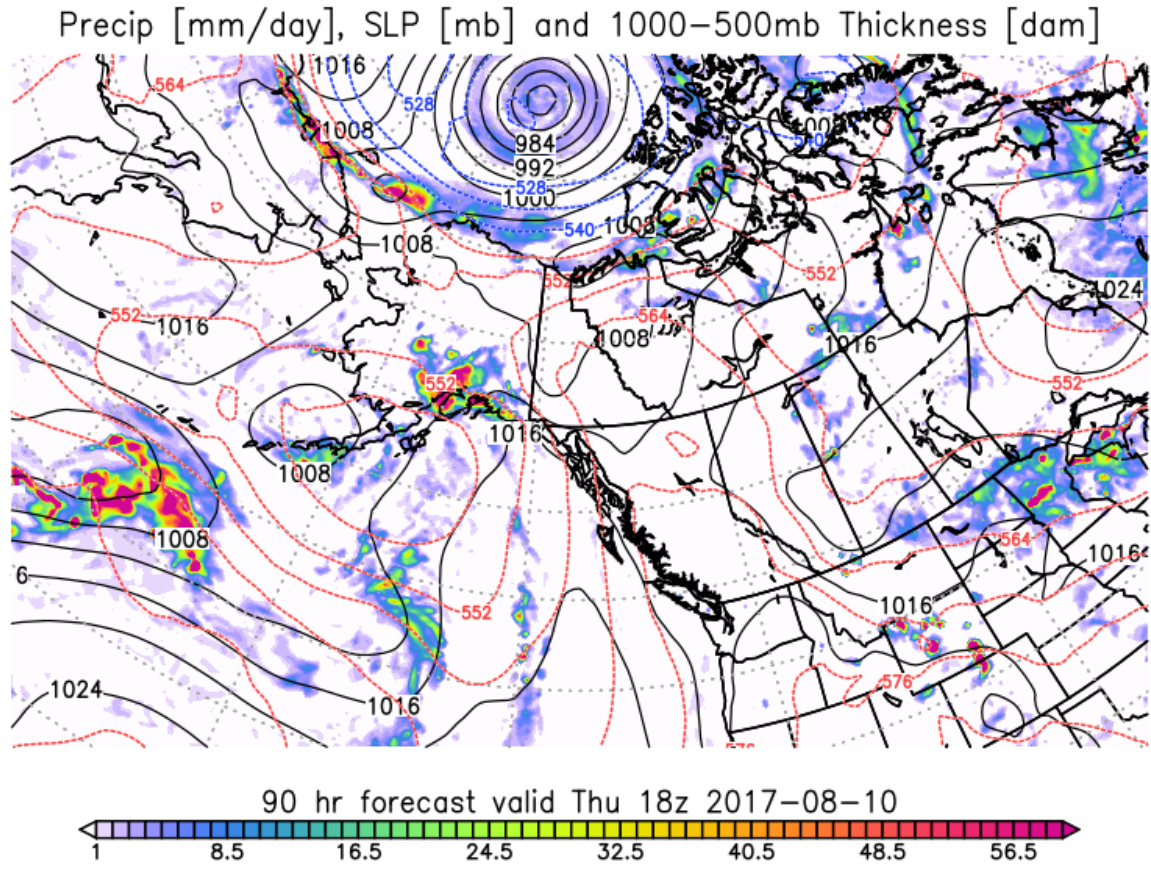


66 hr forecast valid Wed 18z 2017-08-09



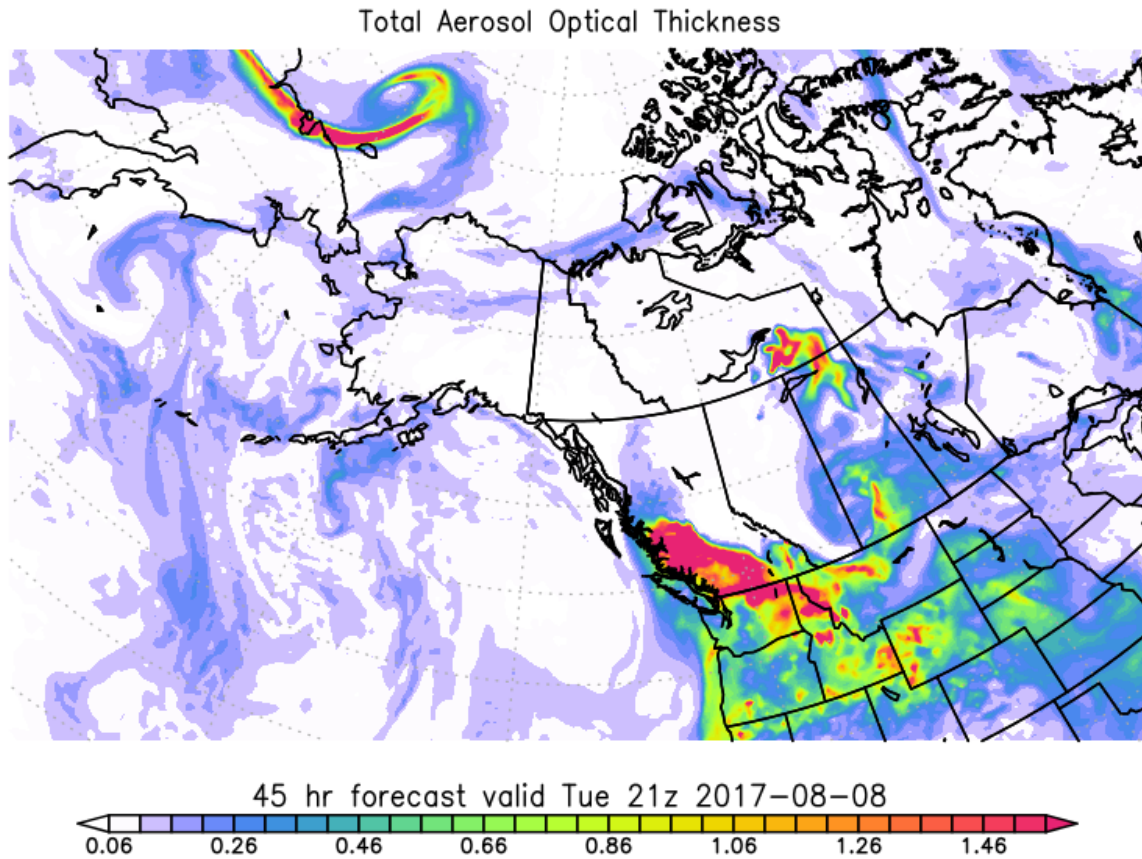
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NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-08-07



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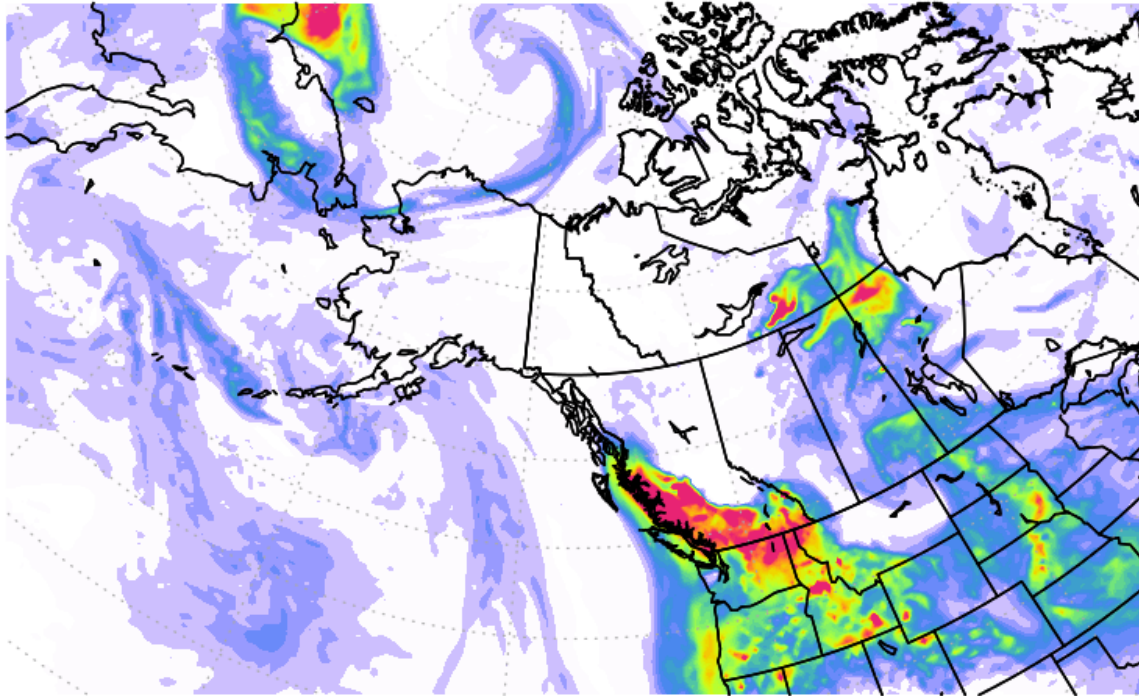
NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-08-07



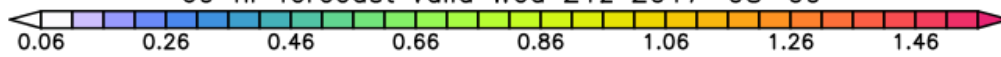
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NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-08-07

Total Aerosol Optical Thickness

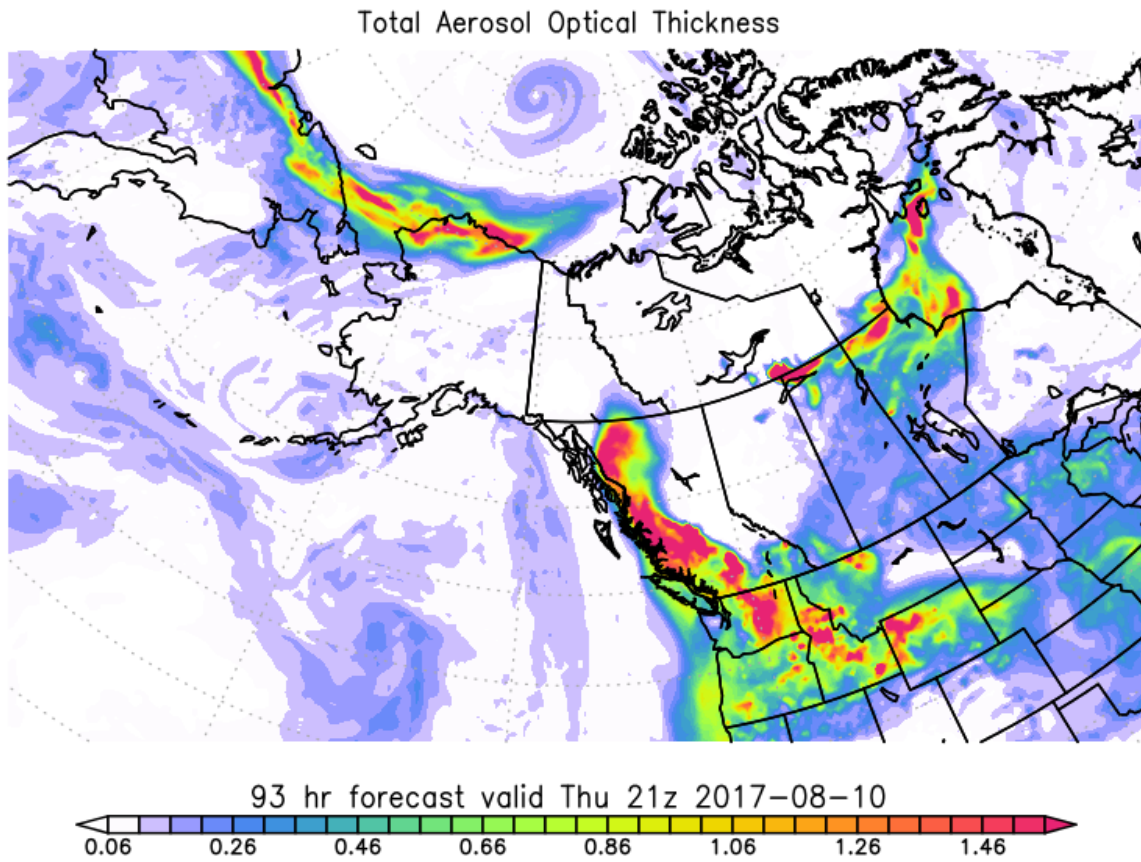


69 hr forecast valid Wed 21z 2017-08-09



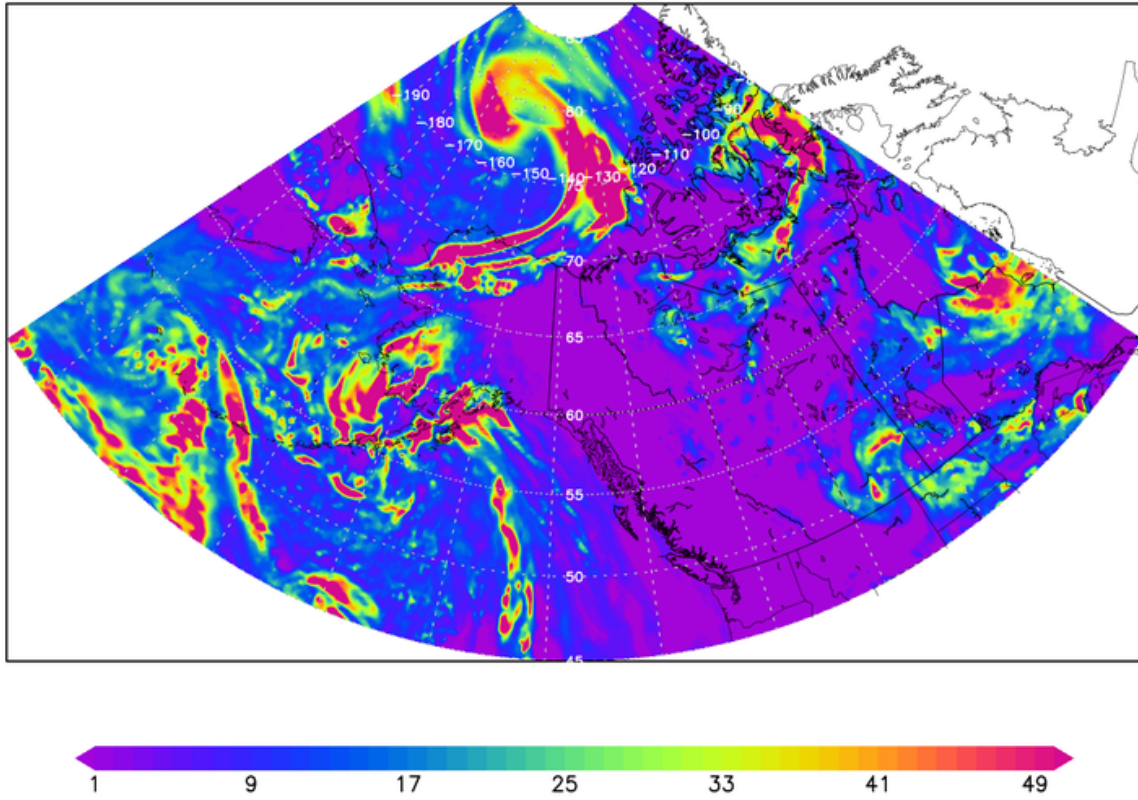
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NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-08-07



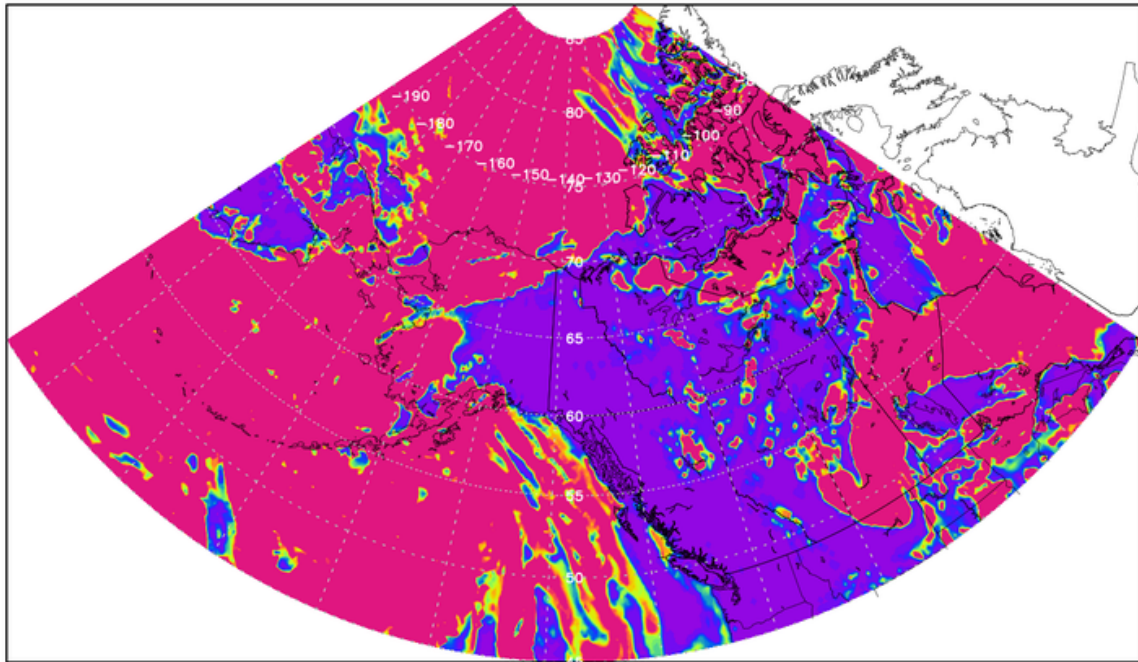
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GEOS Total Cloud Optical Depth
Initial time 07 AUG. 00z
Valid time 09 AUG. 18z



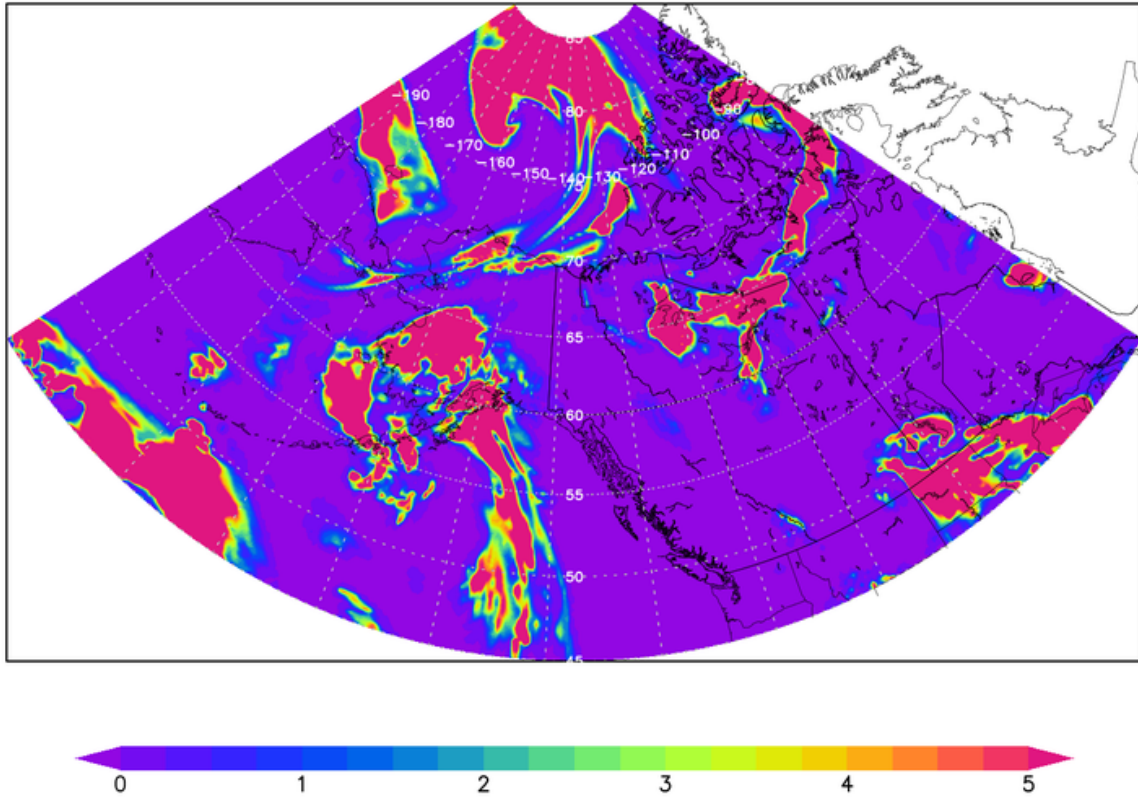
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GEOS Low Cloud Optical Depth
Initial time 07 AUG. 00z
Valid time 09 AUG. 18z



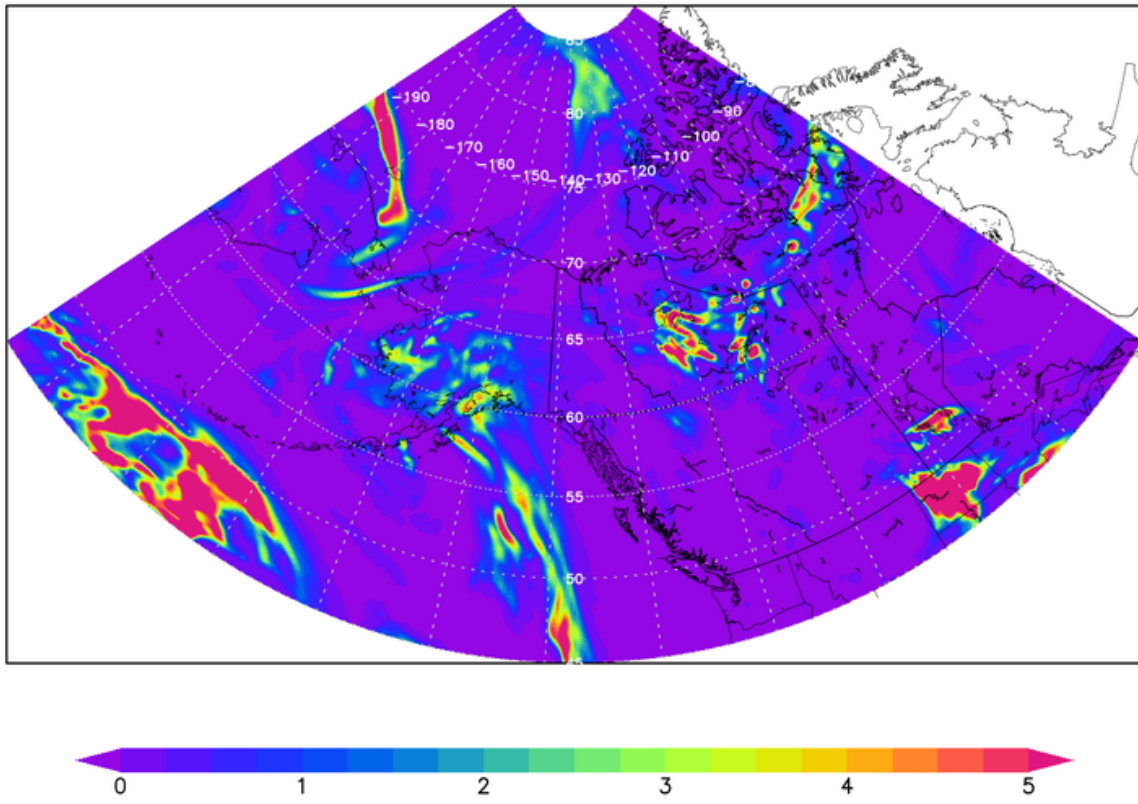
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GEOS Mid Cloud Optical Depth
Initial time 07 AUG. 00z
Valid time 09 AUG. 18z



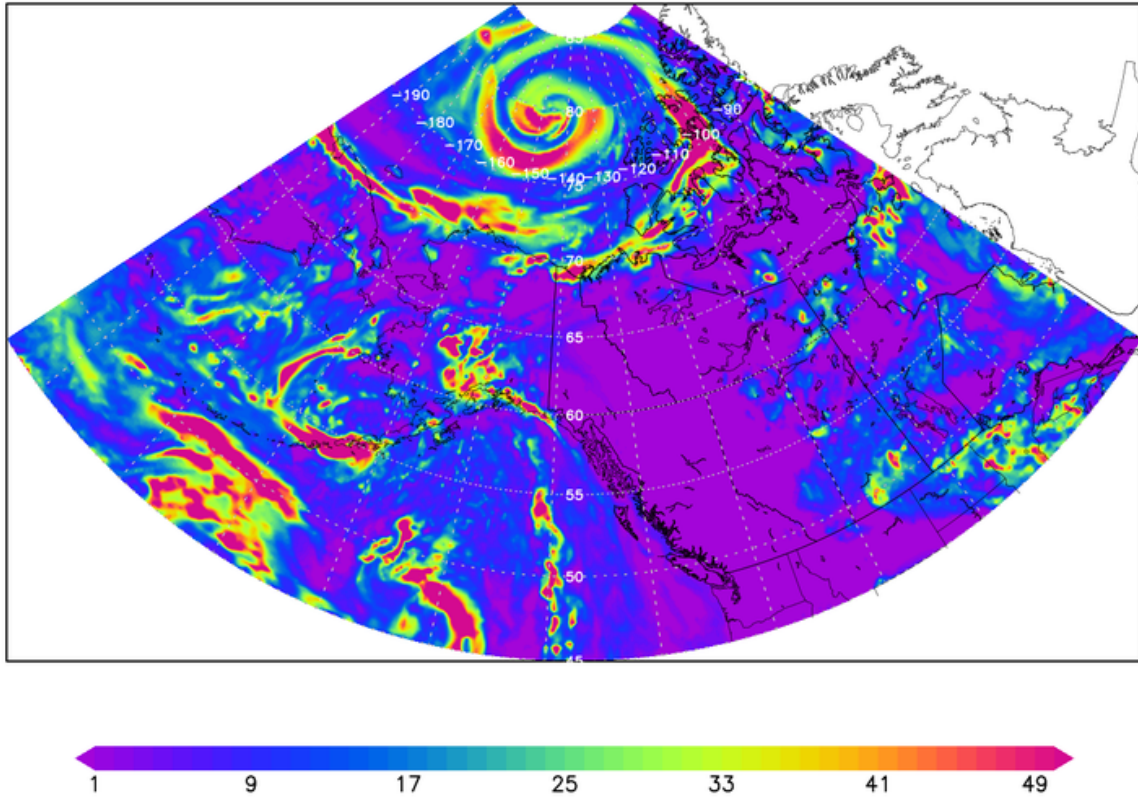
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GEOS High Cloud Optical Depth
Initial time 07 AUG. 00z
Valid time 09 AUG. 18z



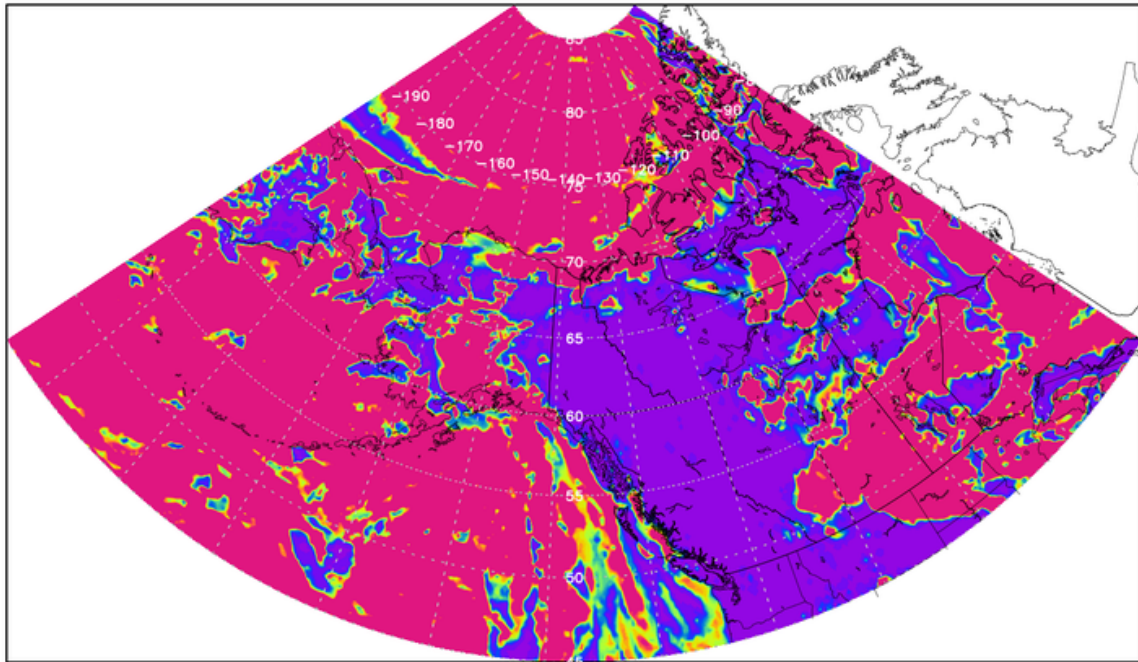
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GEOS Total Cloud Optical Depth
Initial time 07 AUG. 00z
Valid time 10 AUG. 18z



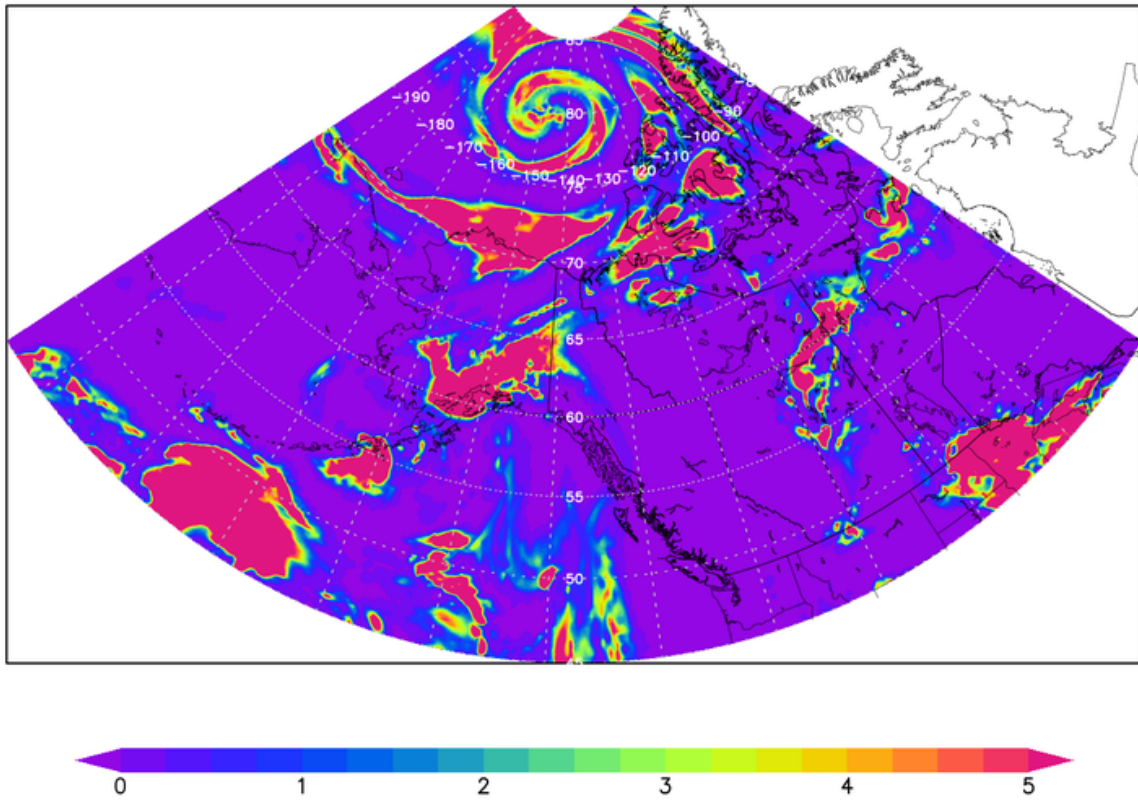
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GEOS Low Cloud Optical Depth
Initial time 07 AUG. 00z
Valid time 10 AUG. 18z



ABOVE_Mid_Cloud_Optical_Depth_IT_00z07AUG_VT_18z10AUG.png

GEOS Mid Cloud Optical Depth
Initial time 07 AUG. 00z
Valid time 10 AUG. 18z



ABOVE_High_Cloud_Optical_Depth_IT_00z07AUG_VT_18z10AUG.png

GEOS High Cloud Optical Depth
Initial time 07 AUG. 00z
Valid time 10 AUG. 18z

