

ABOVE Regional Weather Briefing

Based on the GMAO GEOS meteorology and aerosol forecast fields
Model Initialized 00z 08 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 09 August through 2359z 09 August**

Much of southern BC is still an area with high values of aerosol optical thickness. Clouds and precipitation will be present along the north coast of Alaska and in much of the southwestern portion of the state. Clouds and precipitation will also be present along a cold front that stretches from north of the Hudson Bay, through Nunavut and through NWT. Great Slave Lake region begins the period partly cloudy but is cloudy and rainy by 21z as the frontal system approaches from the north. Scattered showers and low clouds will be present as a line of showers forms in the Mackenzie River Valley stretching north to south along or near the river. PAFA, Whitehorse and Inuvik all look to be free of low clouds and rain free through this period.

Day-2 Outlook**Valid 1500z 10 August through 2359z 10 August**

Smoke from Russian fires will bring high values of aerosol optical thickness along the north coast of Alaska. Large values of aerosol optical thickness will be present in much of BC especially the lower half of the province. The north coast of Alaska and Canada including PASC Inuvik will be mostly cloudy with rain during this period. Mackenzie River Valley looks good south of Great Bear Lake where clouds and rain will be present. Northern SK and northeast AB will be cloudy and rainy, with southern SK and AB cloudy but rain free. Showers and thunderstorms likely north of the Alaska Range and through the PAFA region.

Day-3 Outlook**Valid 1500z 11 August through 2359z 11 August**

Moderate values of aerosol optical thickness will stretch across the north and west portions of Alaska from Seward Peninsula through PASC. Much of BC will experience large values of aerosol optical thickness from north to south. Bands of clouds and heavy rain along a front near PABR and PASC region will bring poor conditions to much of the western and northern part of Alaska. Inuvik looks clear in the middle of the period, but cloudy early and late. Mackenzie River (South of the Great Bear Lake) and Yellow Knife/Great Slave Lake look to be free of rain and clouds the entire period. AB looks favorable. SK is clear early for a short while and then becomes

mostly cloudy.

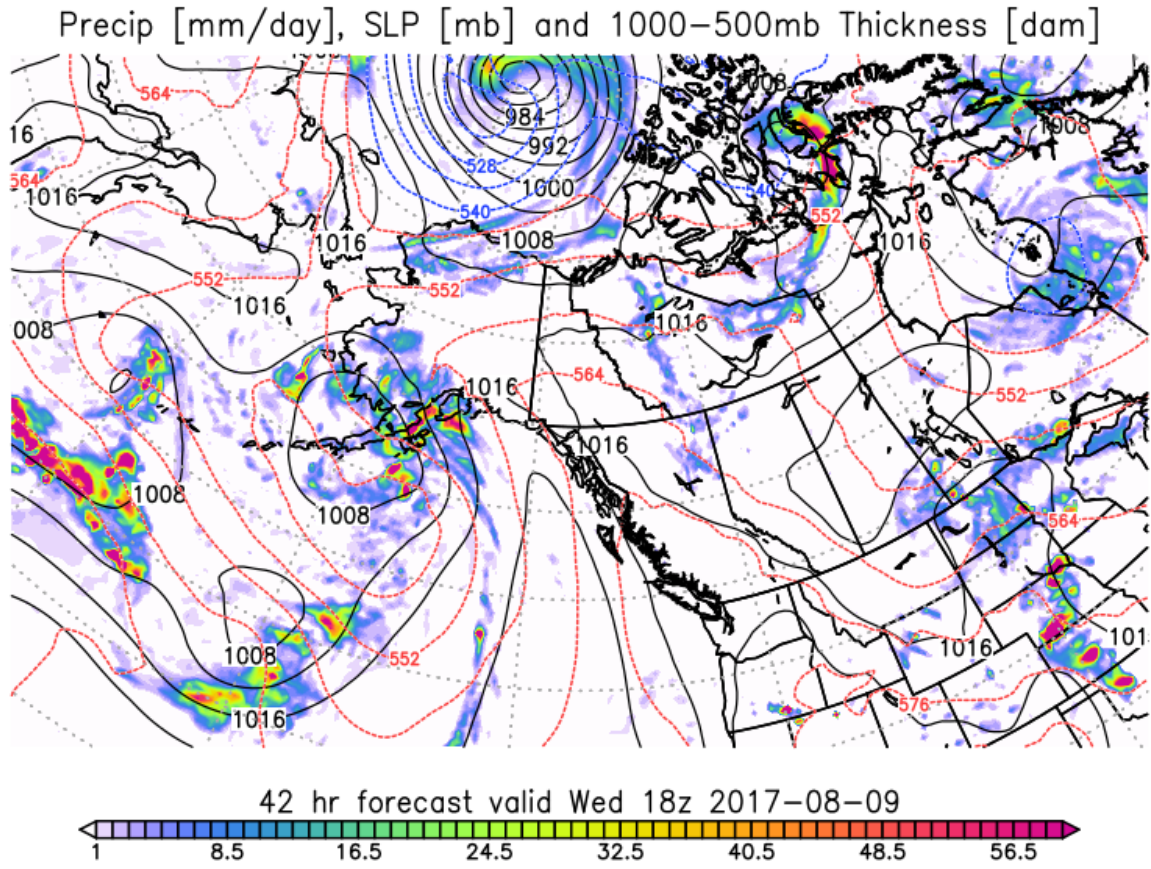
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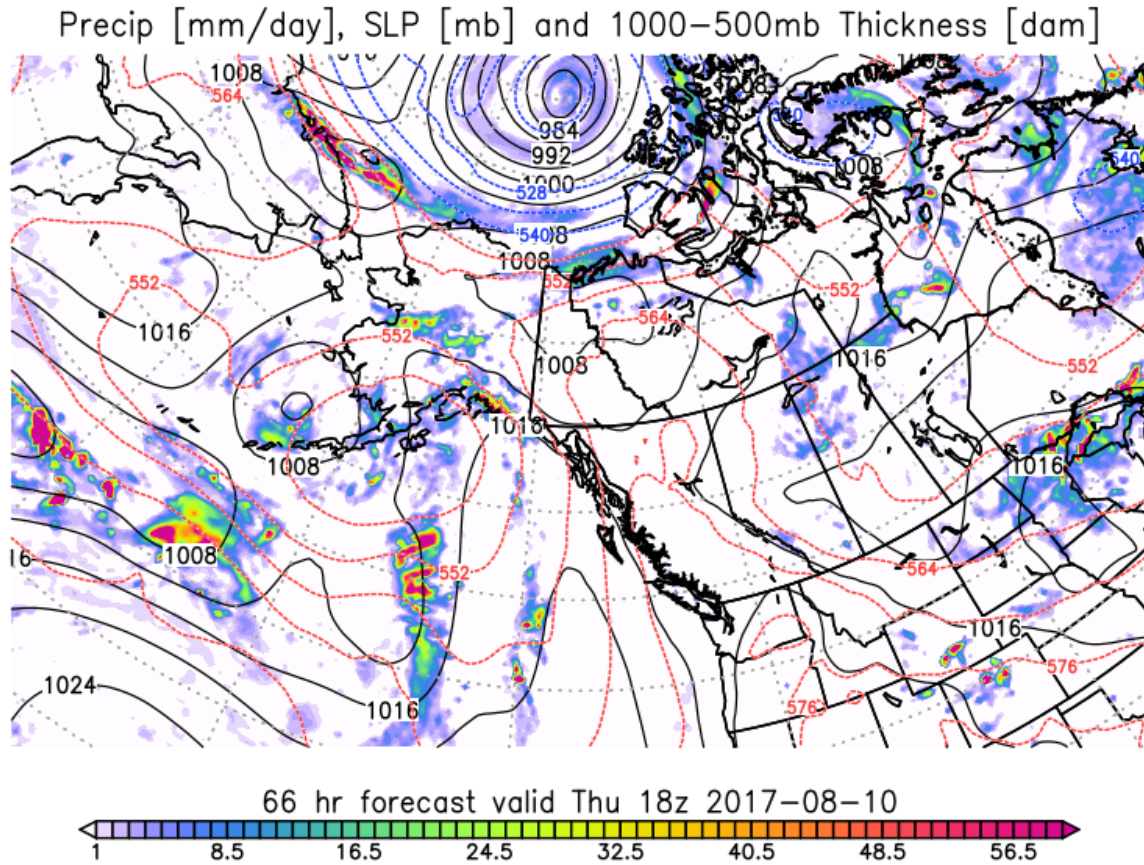
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NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-08-08



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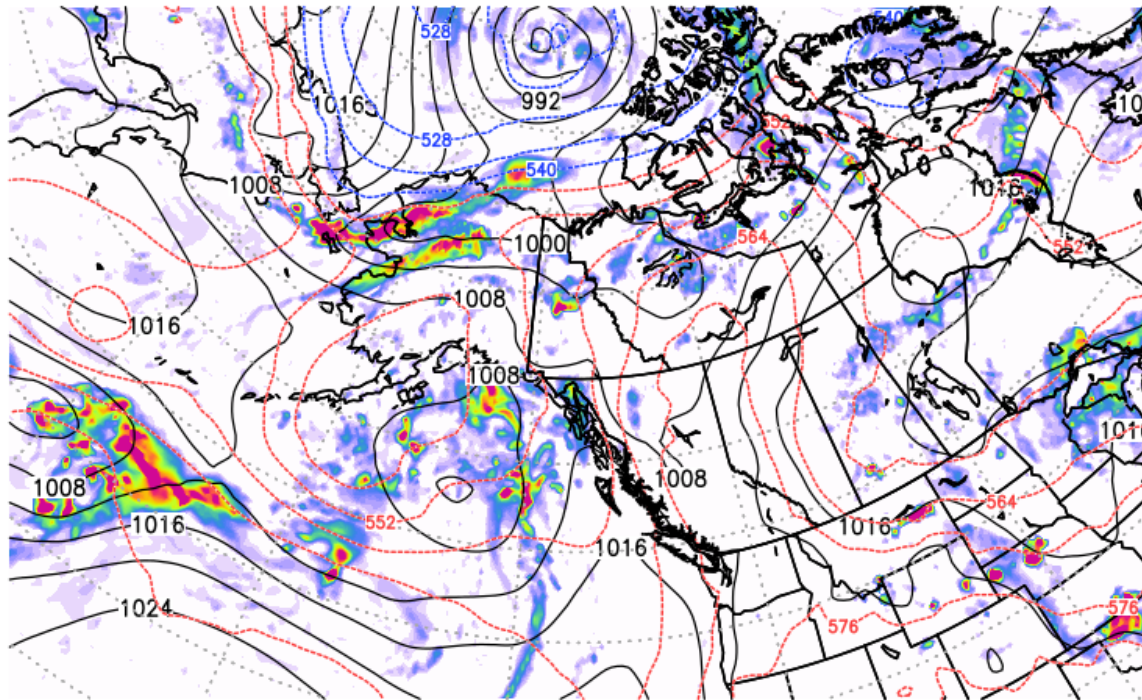
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NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-08-08

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

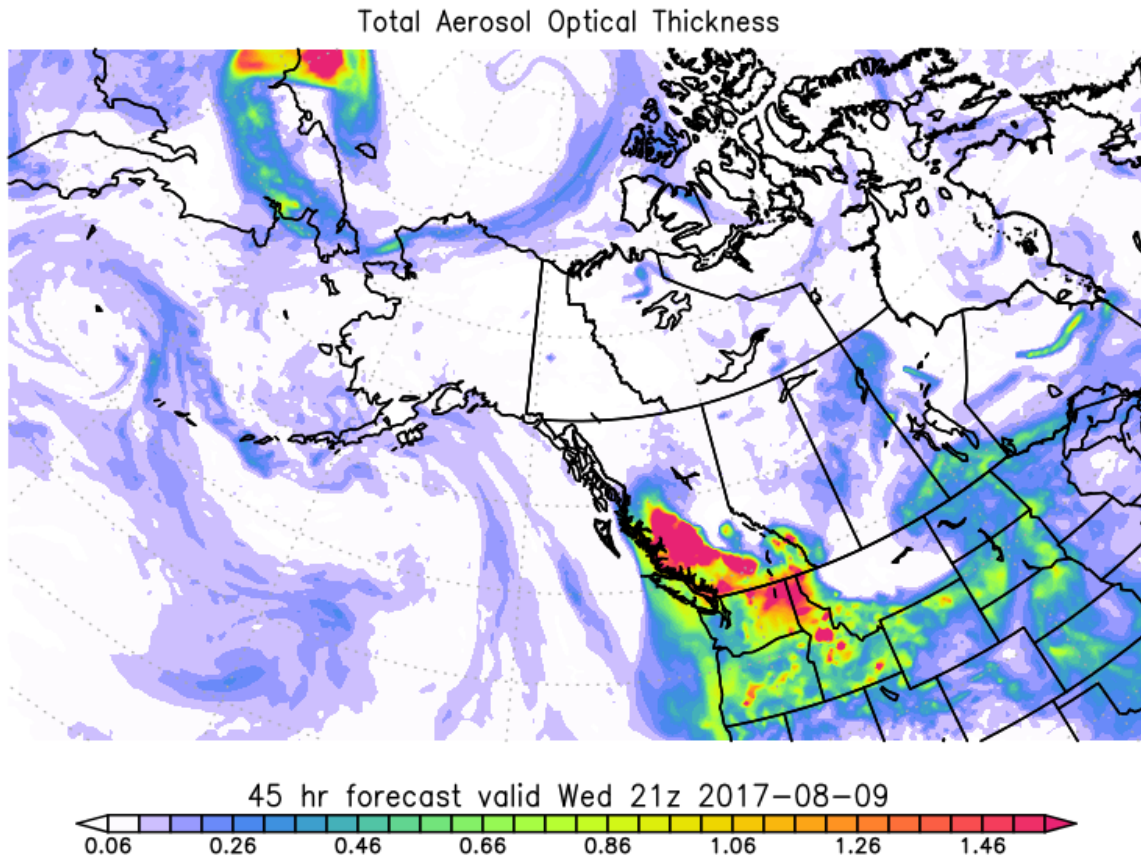


90 hr forecast valid Fri 18z 2017-08-11



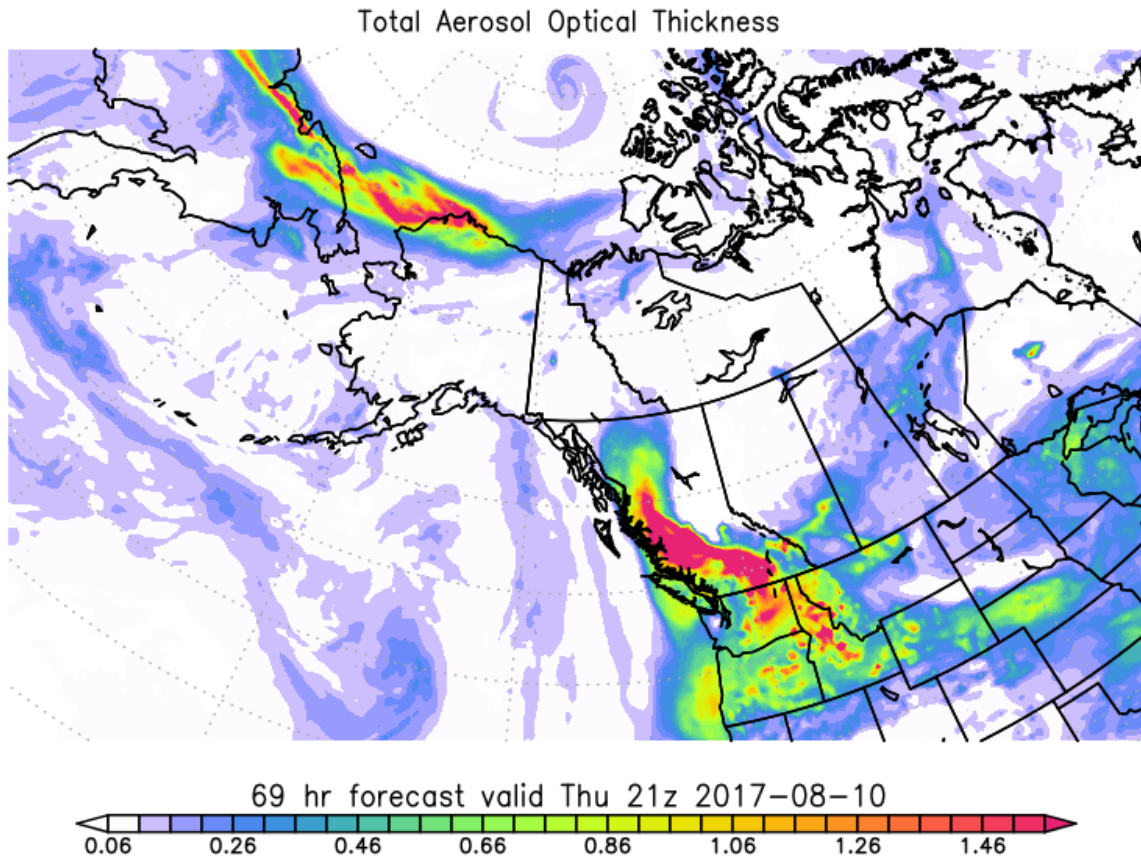
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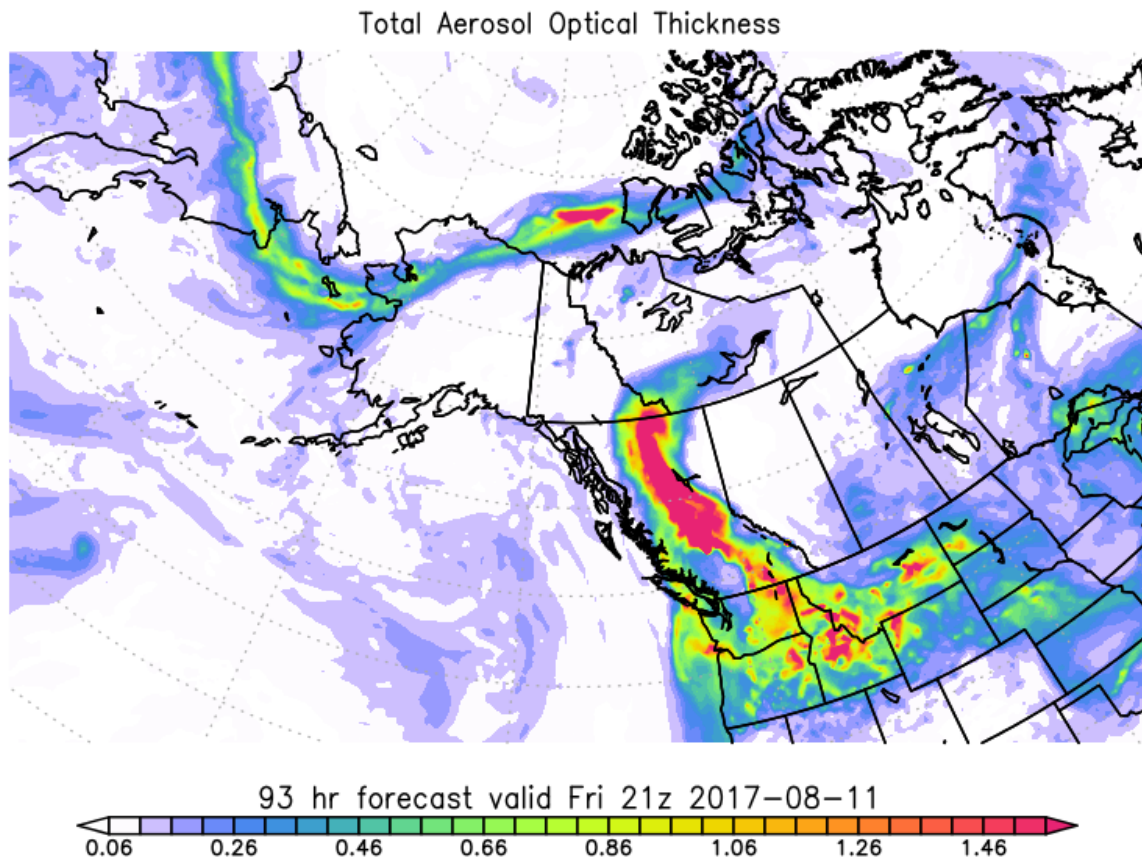
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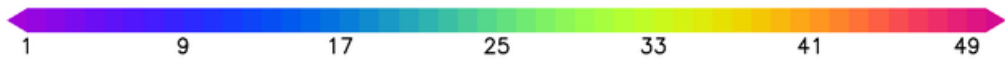
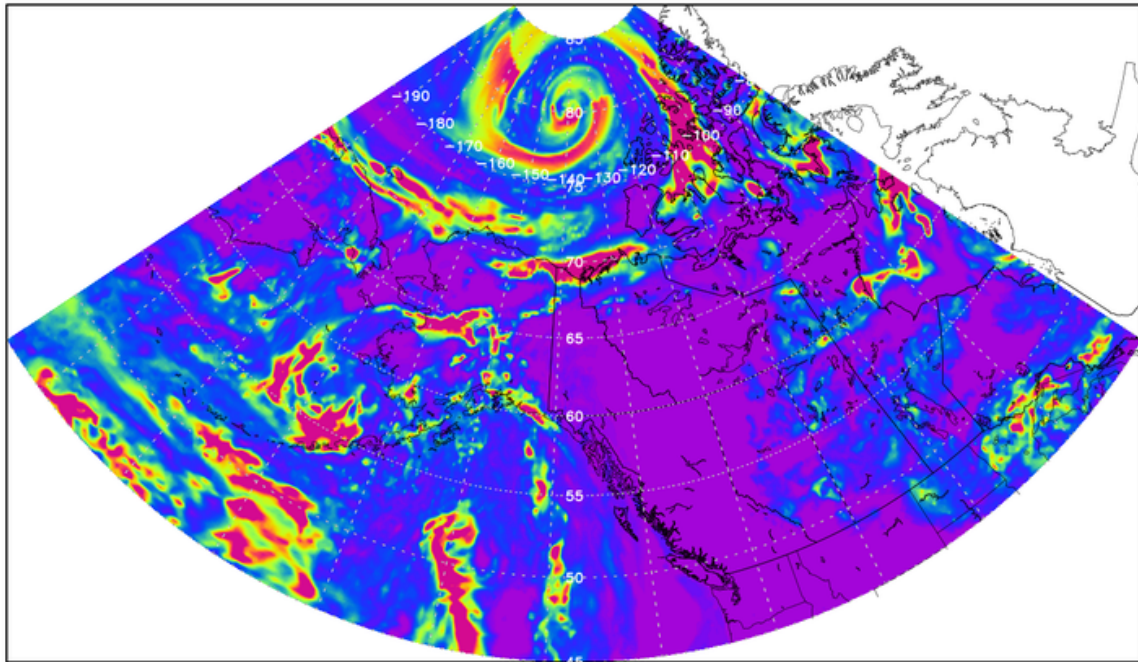
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NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-08-08



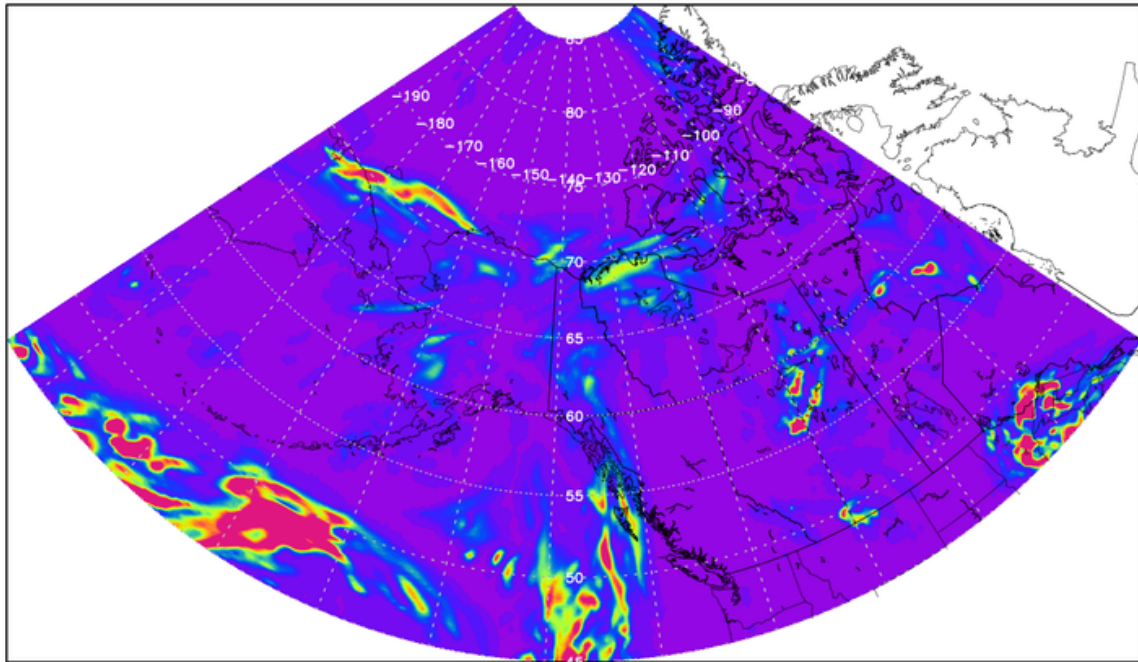
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GEOS Total Cloud Optical Depth
Initial time 08 AUG. 00z
Valid time 10 AUG. 18z



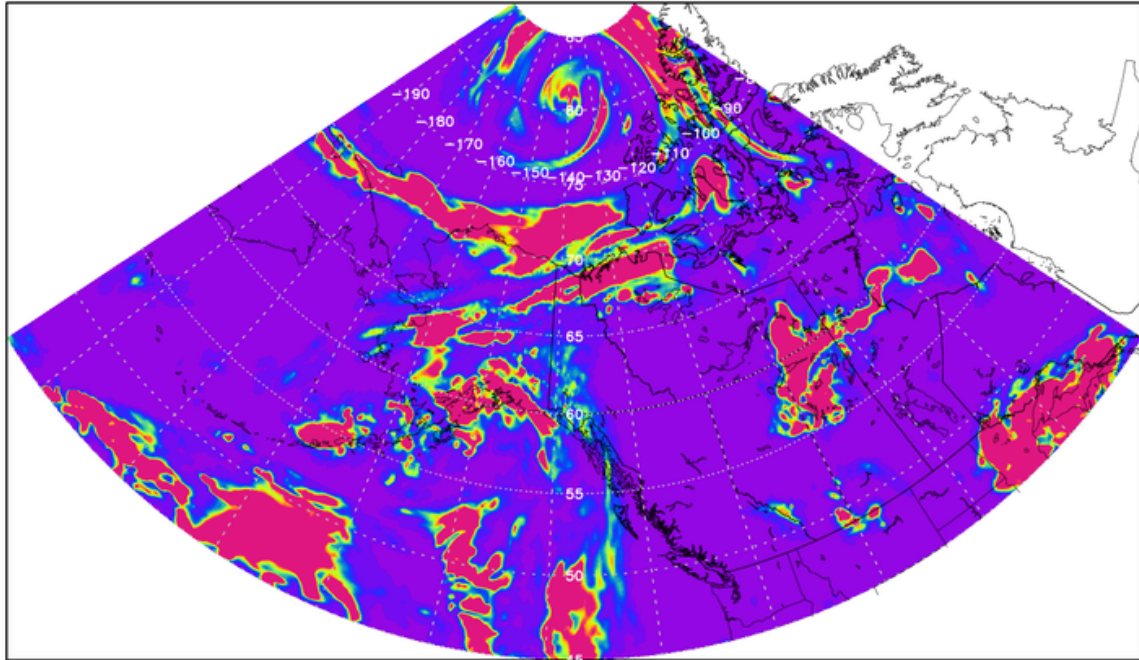
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GEOS High Cloud Optical Depth
Initial time 08 AUG. 00z
Valid time 10 AUG. 18z



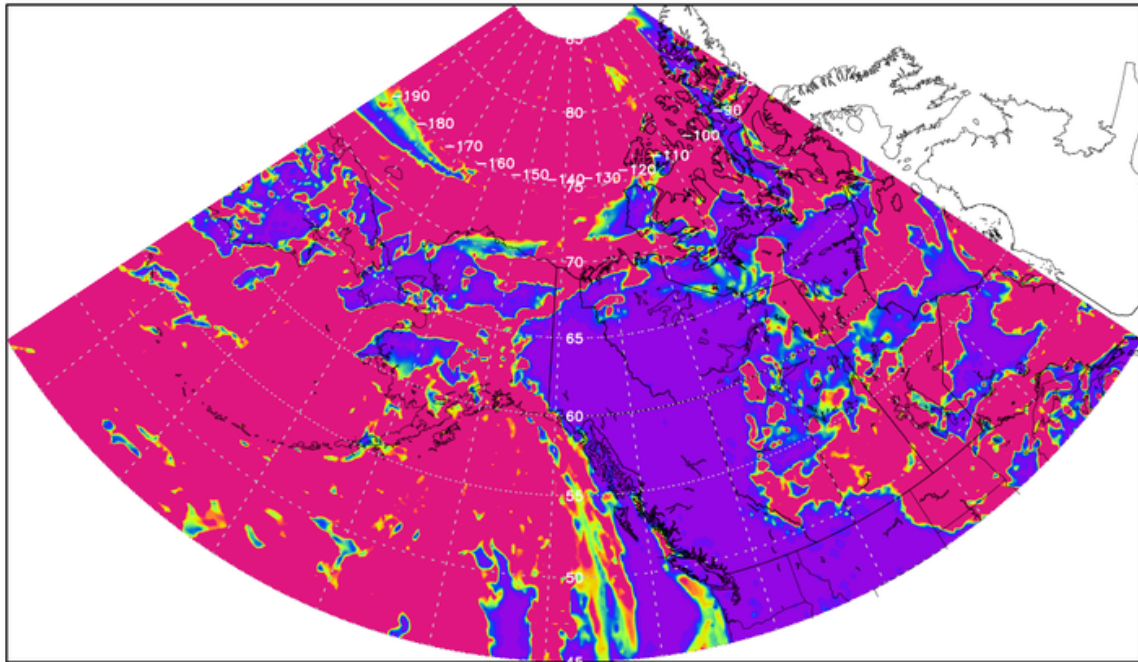
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GEOS Mid Cloud Optical Depth
Initial time 08 AUG. 00z
Valid time 10 AUG. 18z



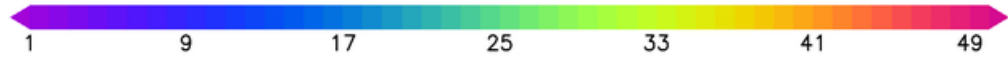
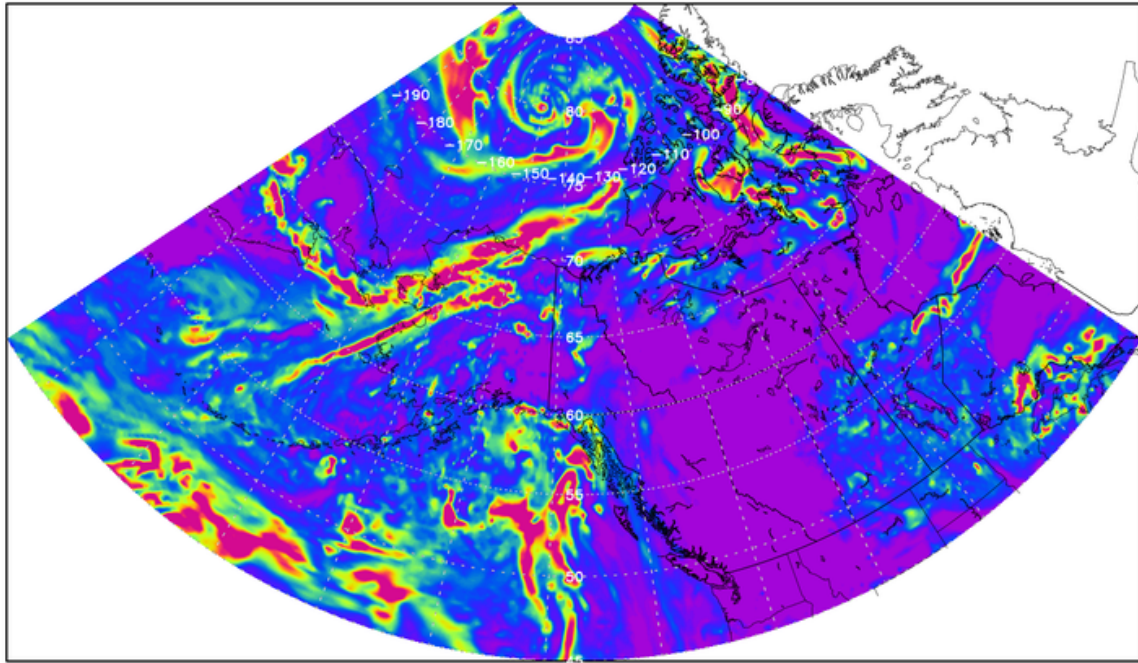
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GEOS Low Cloud Optical Depth
Initial time 08 AUG. 00z
Valid time 10 AUG. 18z



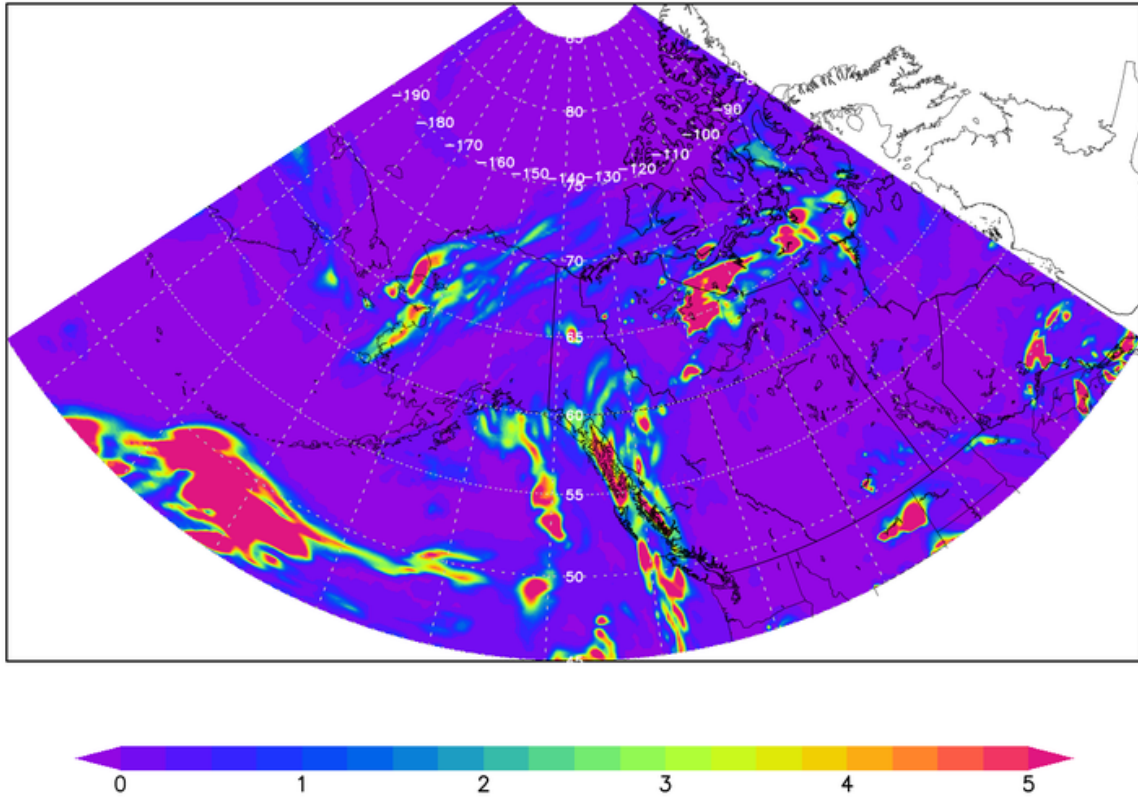
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GEOS Total Cloud Optical Depth
Initial time 08 AUG. 00z
Valid time 11 AUG. 18z



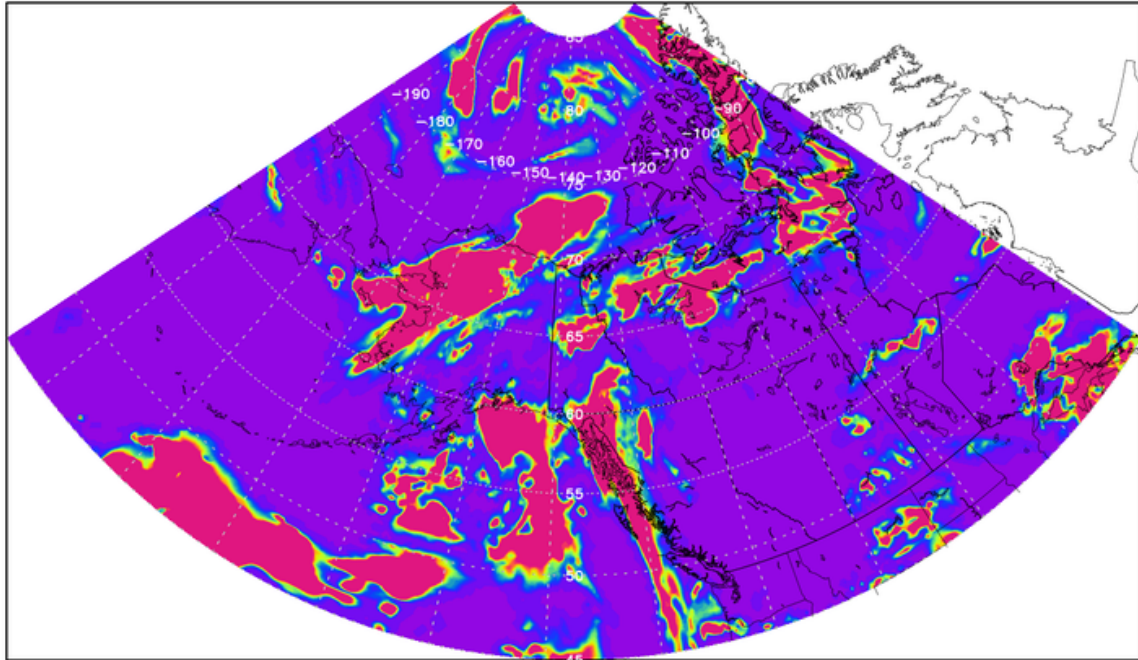
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GEOS High Cloud Optical Depth
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ABOVE_Mid_Cloud_Optical_Depth_IT_00z08AUG_VT_18z11AUG.png

GEOS Mid Cloud Optical Depth
Initial time 08 AUG. 00z
Valid time 11 AUG. 18z



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GEOS Low Cloud Optical Depth
Initial time 08 AUG. 00z
Valid time 11 AUG. 18z

