

ABOVE Regional Weather Briefing

Based on the GMAO GEOS meteorology and aerosol forecast fields
Model Initialized 00z 09 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 10 August through 2359z 10 August**

Large aerosol optical depth values will be seen over much of western BC and between Lake Athabasca and Great Slave Lake. Smoke from Russian fires will blanket the northern portion of the state including Seward Peninsula with occasionally very large values of aerosol optical thickness especially near PASC and PABR. Clouds and rain will be present in and around PAFA for most of the period. Northern half of NWT and YKT will see clouds and rain by the end of the period. Most of the Mackenzie River area looks good south of Norman Wells including Yellowknife and vicinity. AB and SK will be partly to mostly cloudy with showers and thunderstorms likely in the northern half of those provinces. Cambridge Bay will be in and out of low clouds and rain.

Day-2 Outlook**Valid 1500z 11 August through 2359z 11 August**

Smoke from Russian fires covers much of the western half of the state with moderate to occasionally large values of aerosol optical depth. Most of BC and southern portions of NWT and YKT will see moderate values of aerosol optical thickness. Clouds and heavy rain will overtake northwest AK early in the period leaving much of the state covered in clouds and rain by the end of the period. YKT and northeastern NWT will see scattered showers and thunderstorms becoming more widespread as the day progresses. Inuvik looks like it will be mostly clear. Yellowknife and Great Slave Lake look favorable. BC and all but eastern AB will be free of cloud and rain most of the period.

Day-3 Outlook**Valid 1500z 12 August through 2359z 12 August**

Moderate to large values of aerosol optical thickness will be present in a wide band of smoke haze that stretches from southern BC up through NWT into Nunavut near Cambridge Bay. The western half of AK begins the period cloudy with bands of heavy rain. The cloudy and rainy conditions spread across the state by the end of the period with poor conditions present in and around the PAFA, PASC, and PABR areas. A frontal system approaches western BC bringing

heavy rain to the coast. Clouds will be in and out of northern NWT and YKT. AB and southern NWT including Yellowknife, Great Slave Lake, and Lake Athabasca will have favorable mostly clear conditions.

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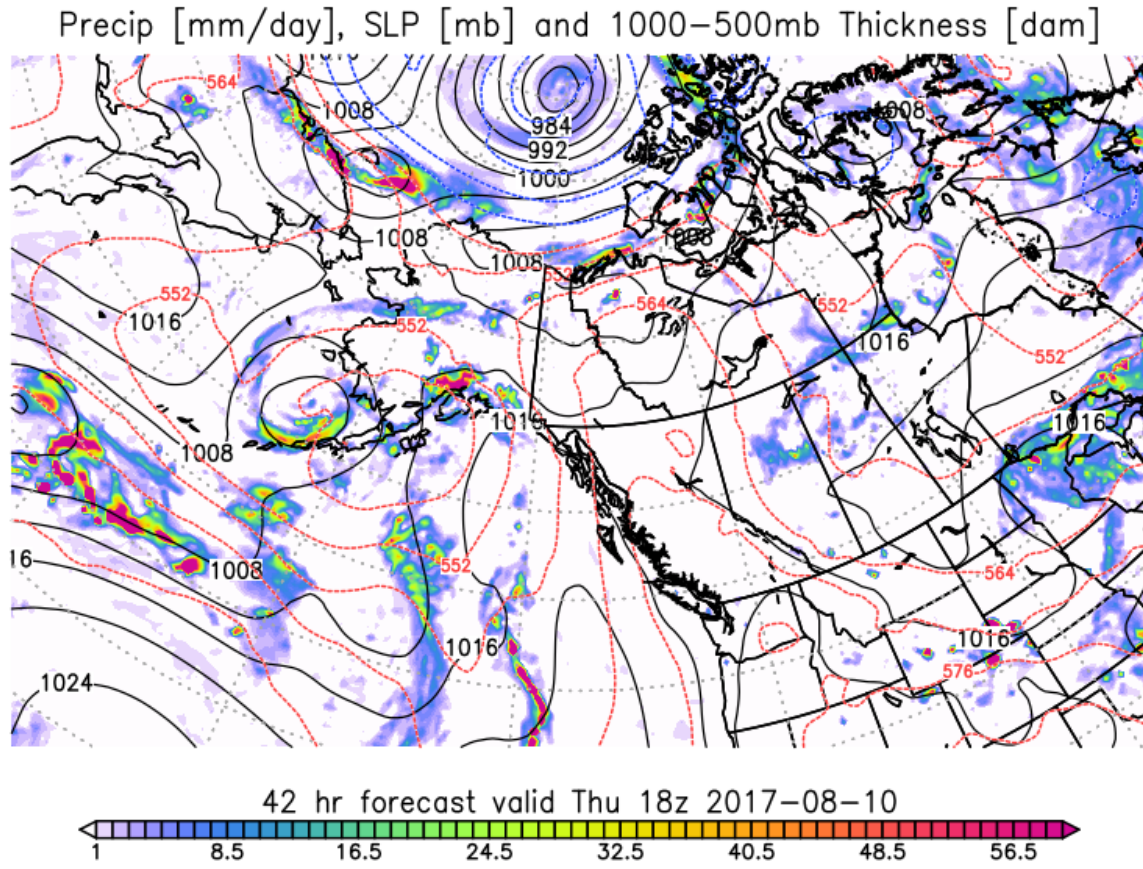
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<https://gmao.gsfc.nasa.gov>

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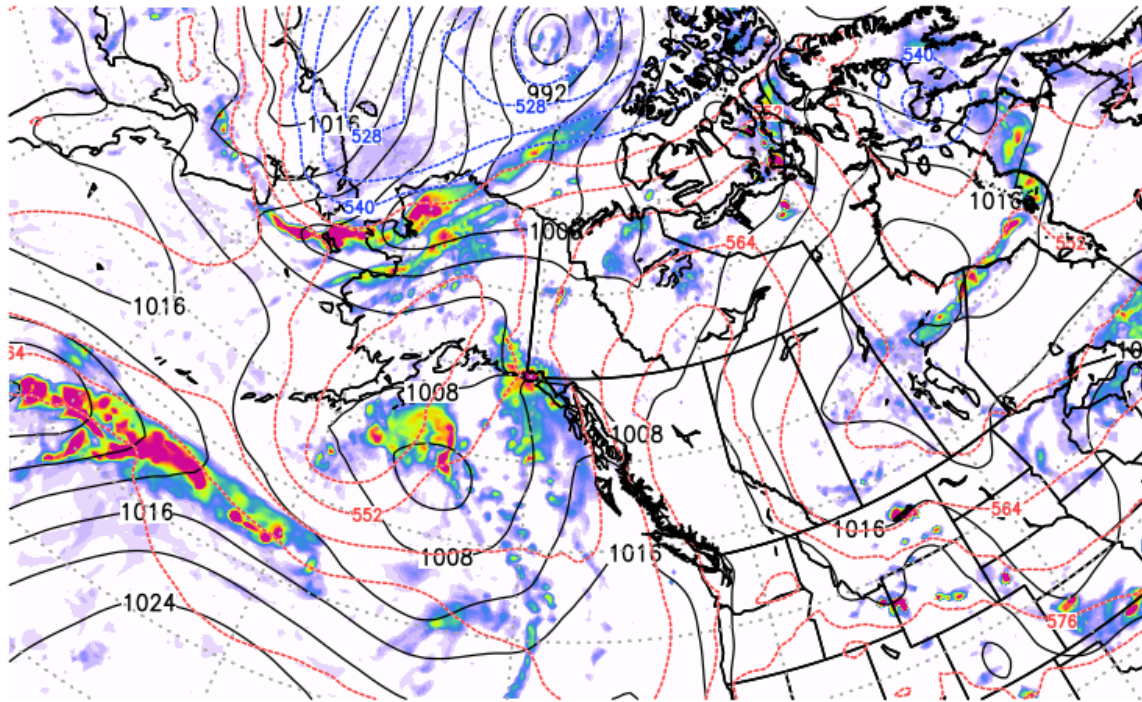
NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-08-09



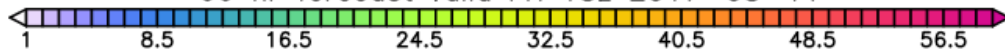
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NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-08-09

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



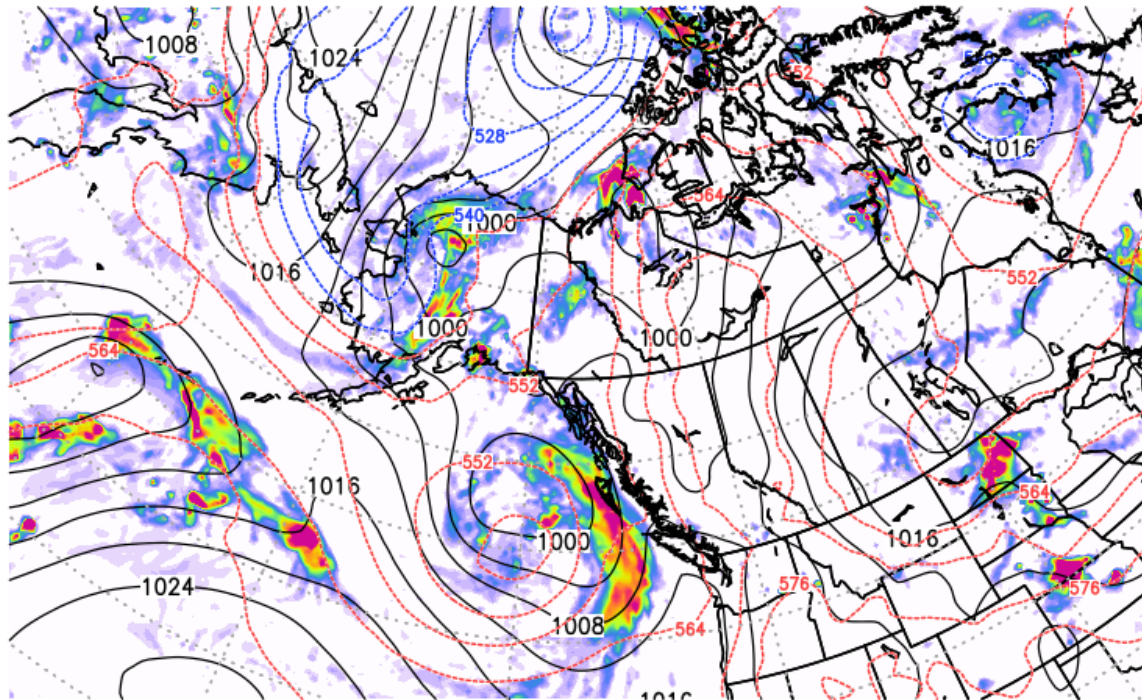
66 hr forecast valid Fri 18z 2017-08-11



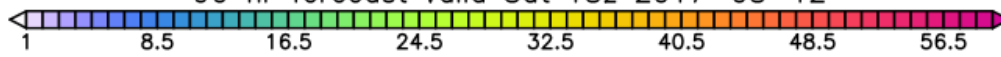
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NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-08-09

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

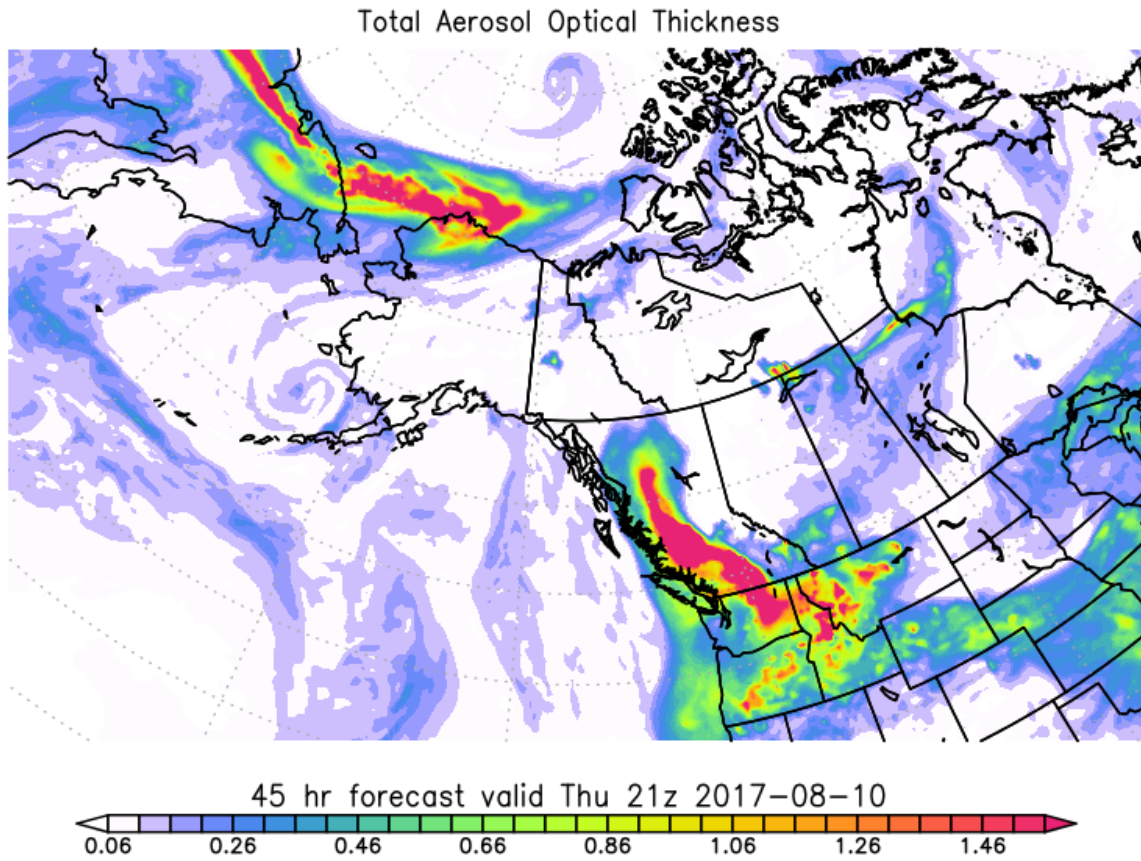


90 hr forecast valid Sat 18z 2017-08-12



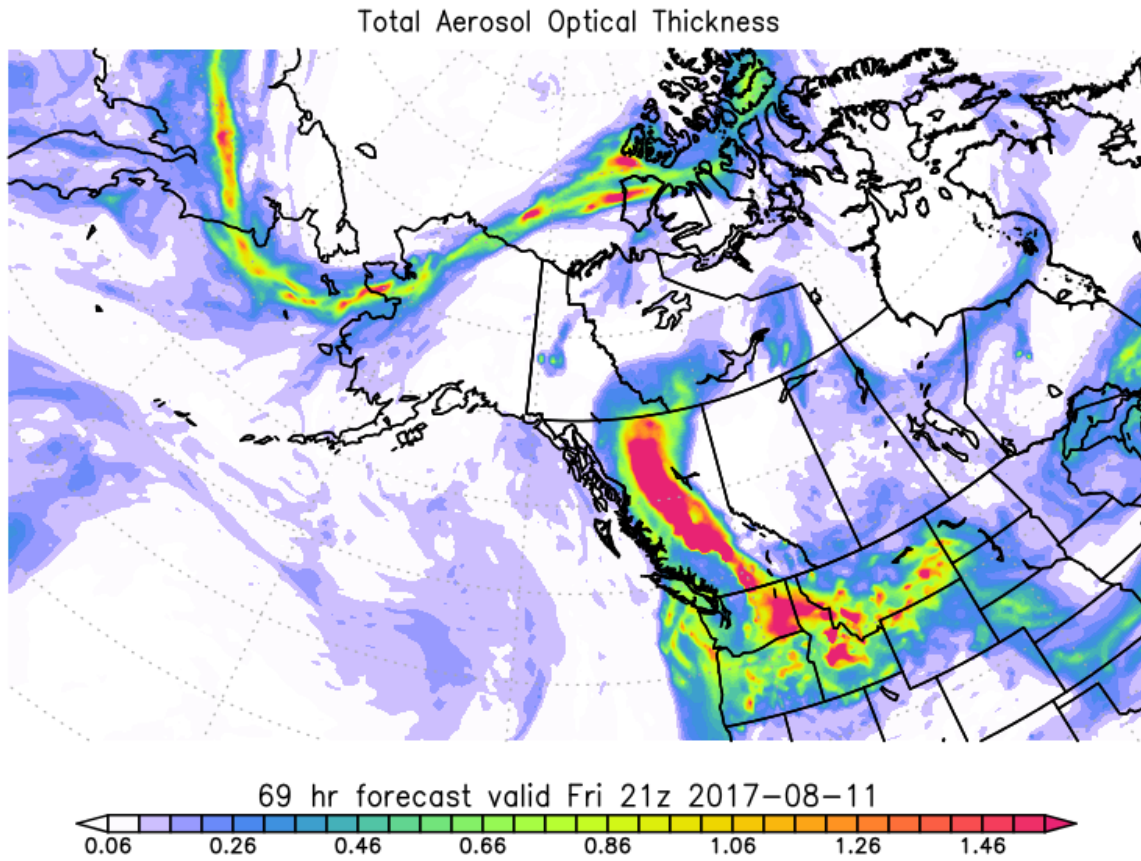
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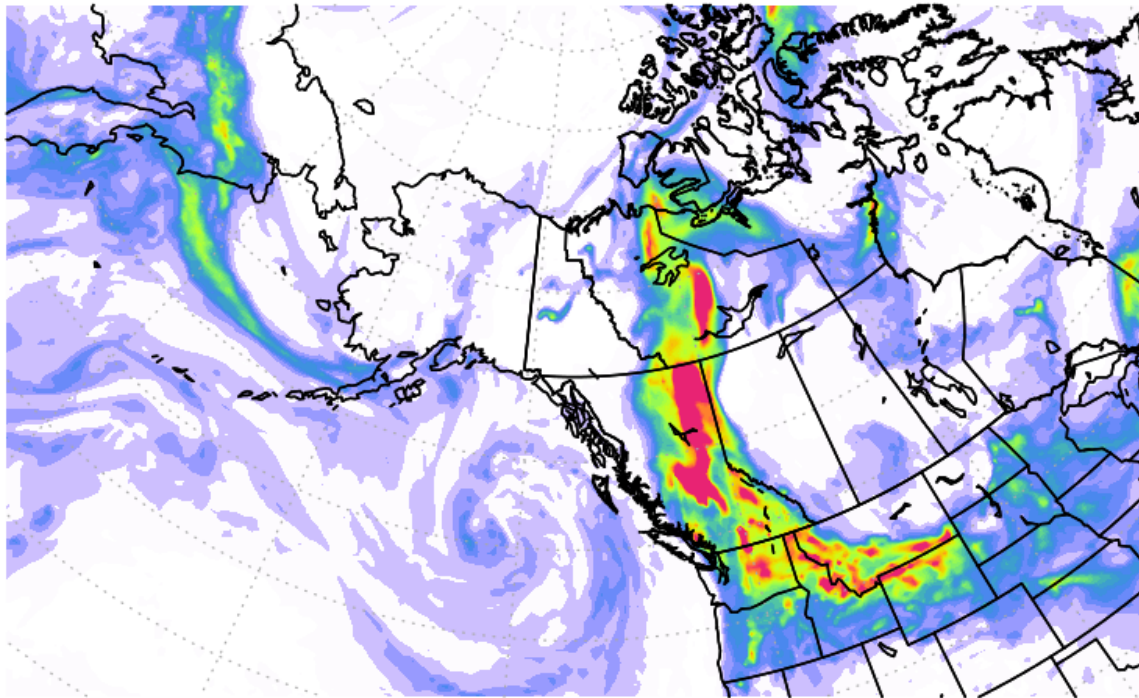
NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-08-09



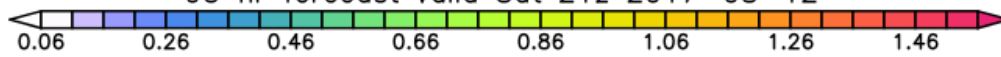
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NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-08-09

Total Aerosol Optical Thickness

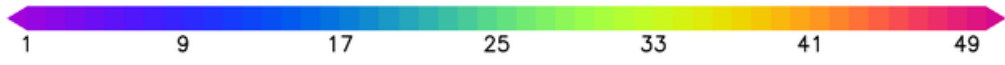
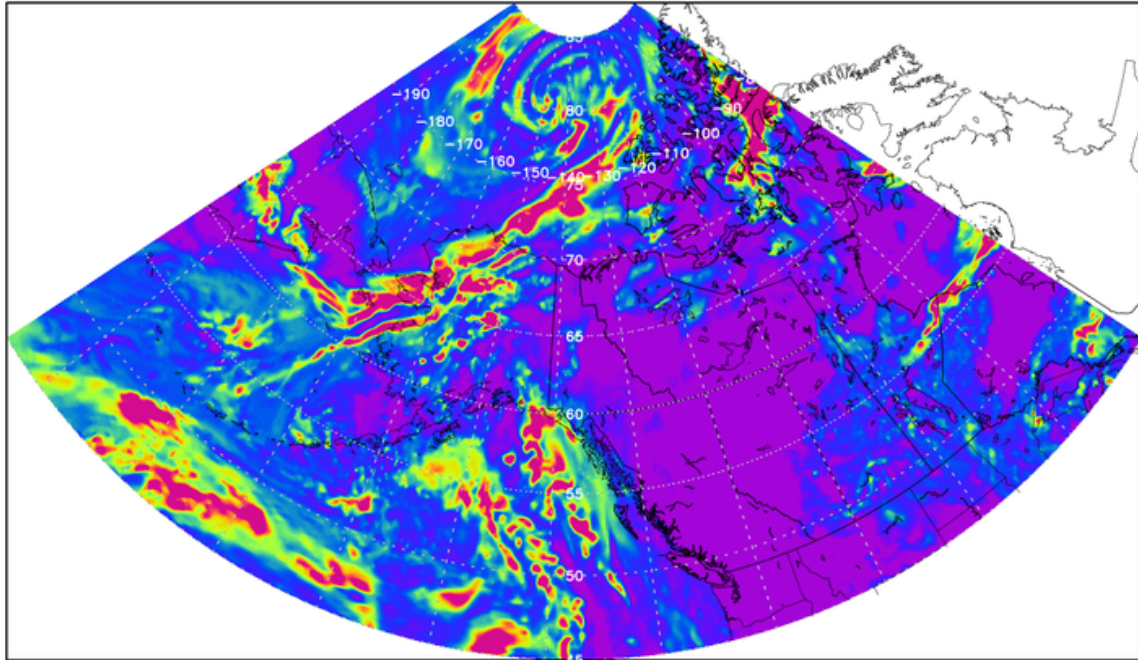


93 hr forecast valid Sat 21z 2017-08-12



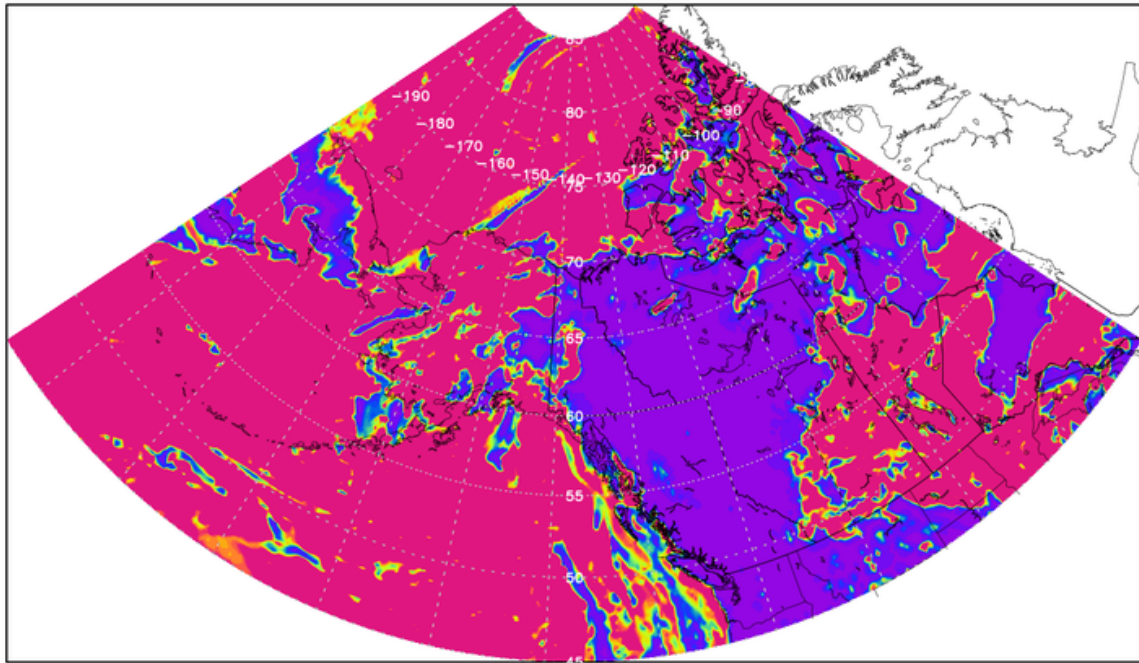
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GEOS Total Cloud Optical Depth
Initial time 09 AUG. 00z
Valid time 11 AUG. 18z



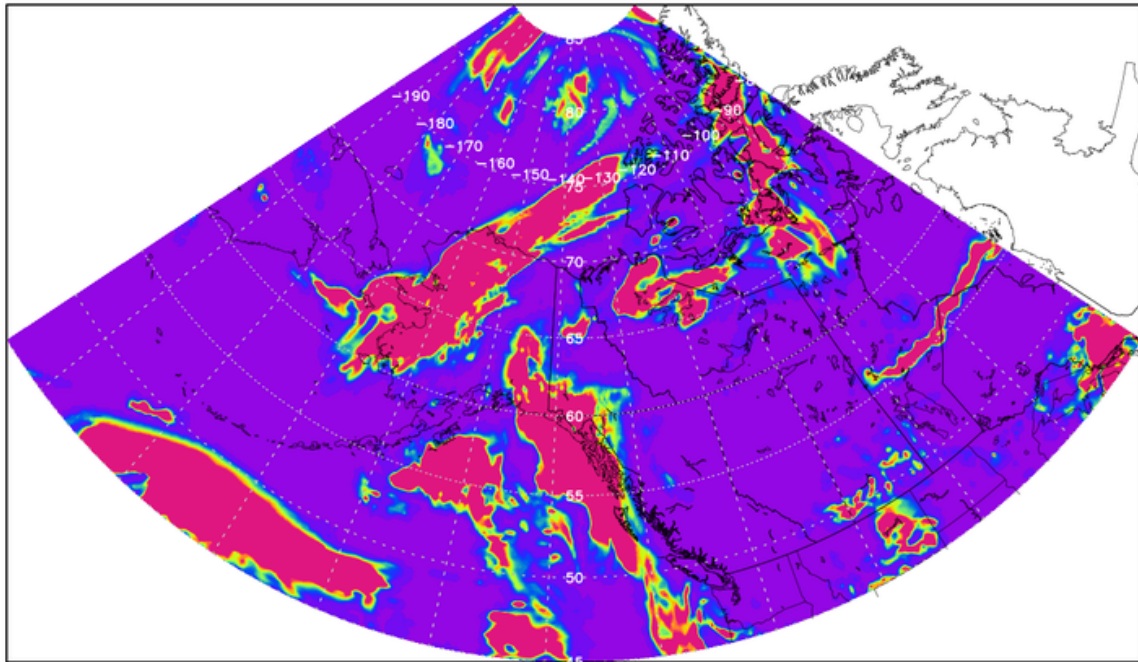
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GEOS Low Cloud Optical Depth
Initial time 09 AUG. 00z
Valid time 11 AUG. 18z



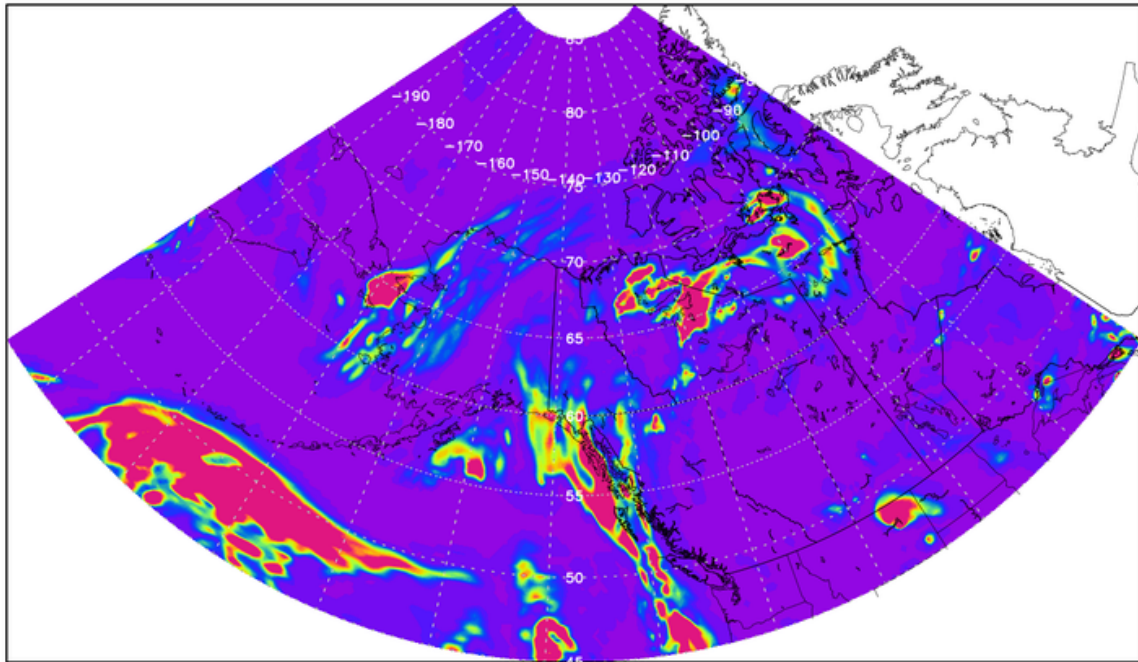
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GEOS Mid Cloud Optical Depth
Initial time 09 AUG. 00z
Valid time 11 AUG. 18z



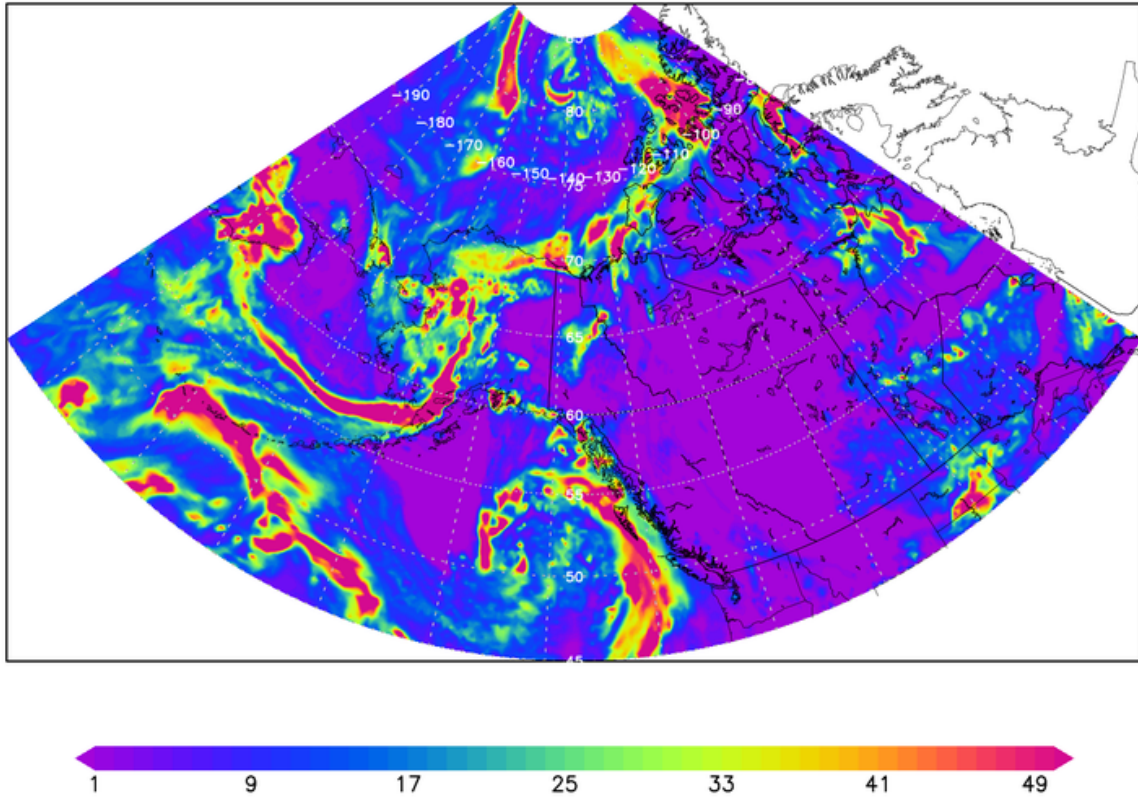
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GEOS High Cloud Optical Depth
Initial time 09 AUG. 00z
Valid time 11 AUG. 18z



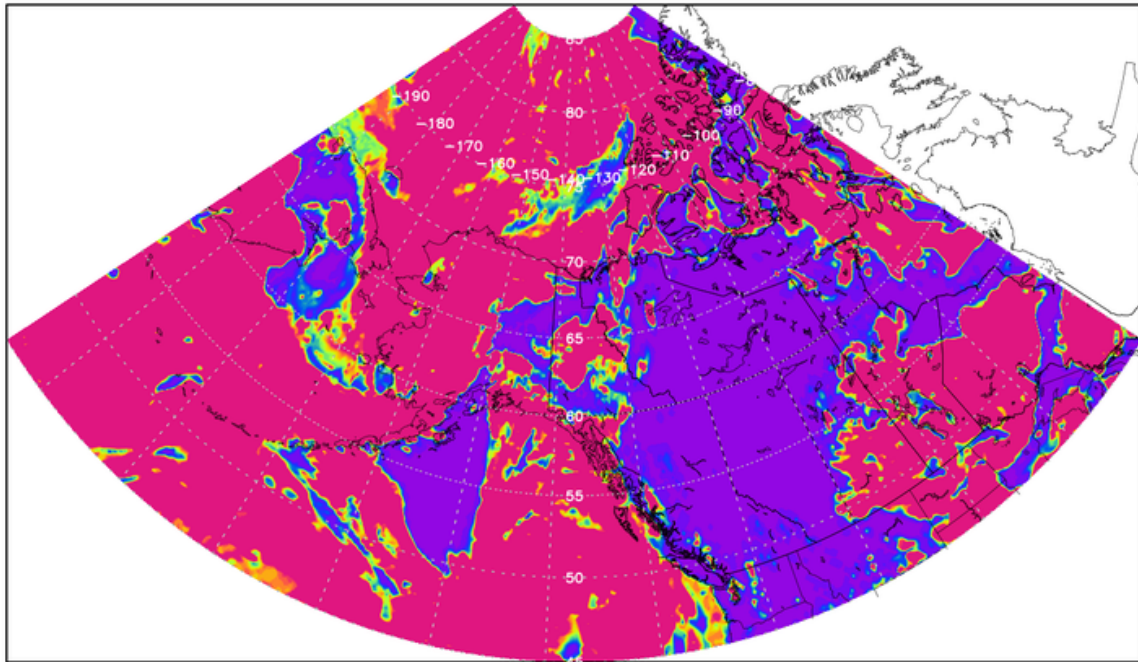
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GEOS Total Cloud Optical Depth
Initial time 09 AUG. 00z
Valid time 12 AUG. 18z



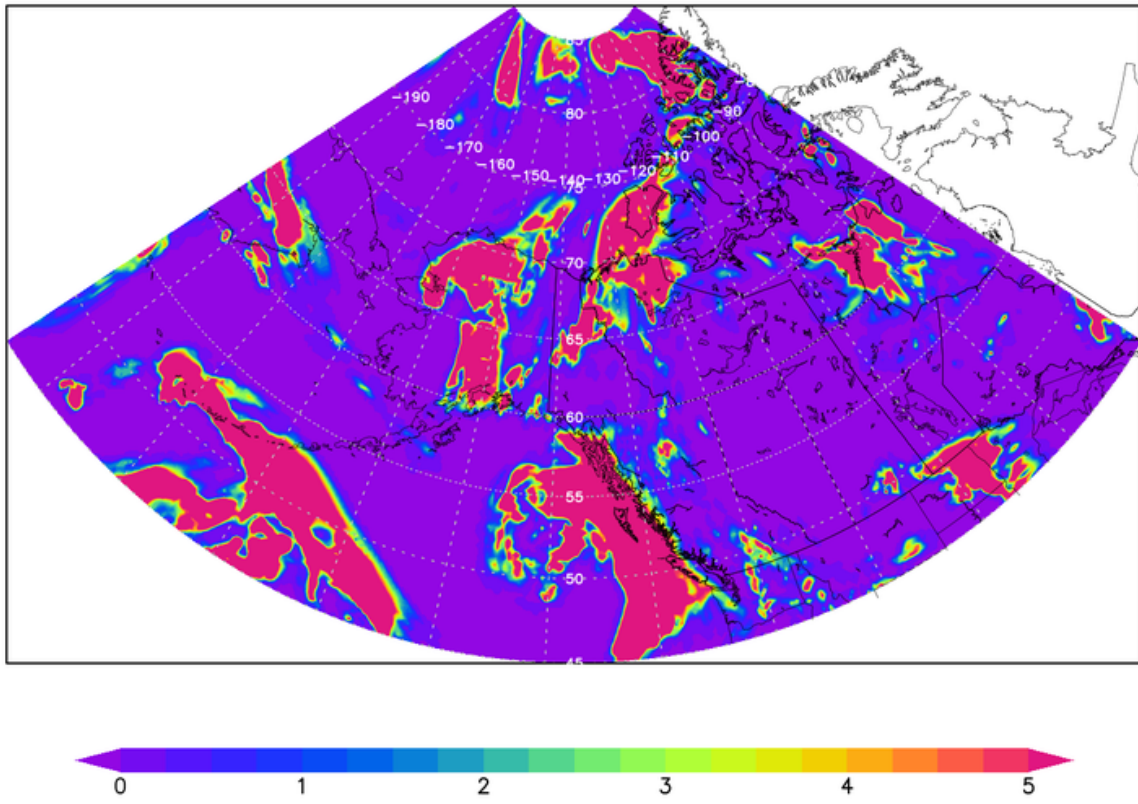
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GEOS Low Cloud Optical Depth
Initial time 09 AUG. 00z
Valid time 12 AUG. 18z



ABOVE_Mid_Cloud_Optical_Depth_IT_00z09AUG_VT_18z12AUG.png

GEOS Mid Cloud Optical Depth
Initial time 09 AUG. 00z
Valid time 12 AUG. 18z



ABOVE_High_Cloud_Optical_Depth_IT_00z09AUG_VT_18z12AUG.png

GEOS High Cloud Optical Depth
Initial time 09 AUG. 00z
Valid time 12 AUG. 18z

