

**ABOVE Regional Weather Briefing**

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

*Active fire count is near 70 for Alaska and near 50 for YKT. A weak low pressure center near McGrath is working it's way west across interior Alaska to southeast of the Seward Peninsula. A large area of dense clouds and heavy precip in southwestern AK will move slowly to the northwest as part of this weak cyclone frontal system. To the north of this frontal system that stretches across the state is a band of optically thick smoke haze that stretches from the center of the state to the east covering much of the northeast corner of the state. As the frontal system moves the clouds and rain to the west, the thick band of smoke and haze also moves north and west as the haze and smoke is pulled into the low pressure system. By the end of the period much of the northern third of the state will see thick smoke haze. Looks like a tricky flying day with perhaps short flights local to Fairbanks if the low clouds nearby permit it.*

***Day-2 Forecast******Valid 1500z 10 July through 2359z 10 July***

There will be a fairly large area of mostly clear skies that carves out a rectangle that stretches from near Point Hope in the northwest down through the Alaska Range and to the southeast of the state. The question is will the clouds, rain and smoke haze remain clear of the PAFA area long enough to take advantage of this mostly clear slot of air? At this time North Slope, PABR and PASC all look socked in at some point during this period. Bethel and Nome also look like a no go. In and around Fairbanks, Galena and near Point Hope look possible. Keep in mind though, the leading edge of the rain and clouds and smoke will be moving towards PAFA during the period.

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

The smoke haze, the clouds and the rain are forecast to be in and around PAFA during this period. While there are a few clear spots here and there, at this time it's hard to find an open clear area. Even along the north coast PABA and PASC look like they might be cloud and rain free but the smoke haze is forecast to be present through most of the period. Perhaps the next forecast cycle will give a more favorable result but at this time it does not look like a good day

for flying for the optical instruments.

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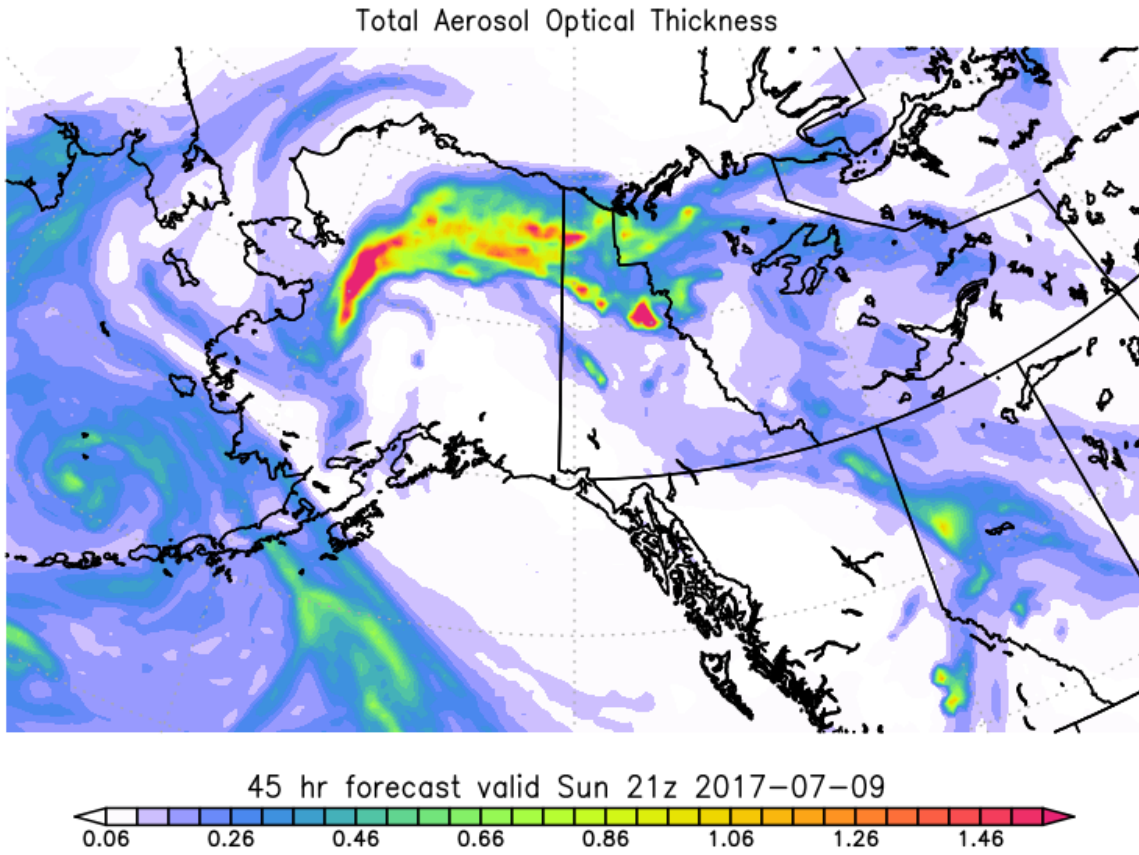
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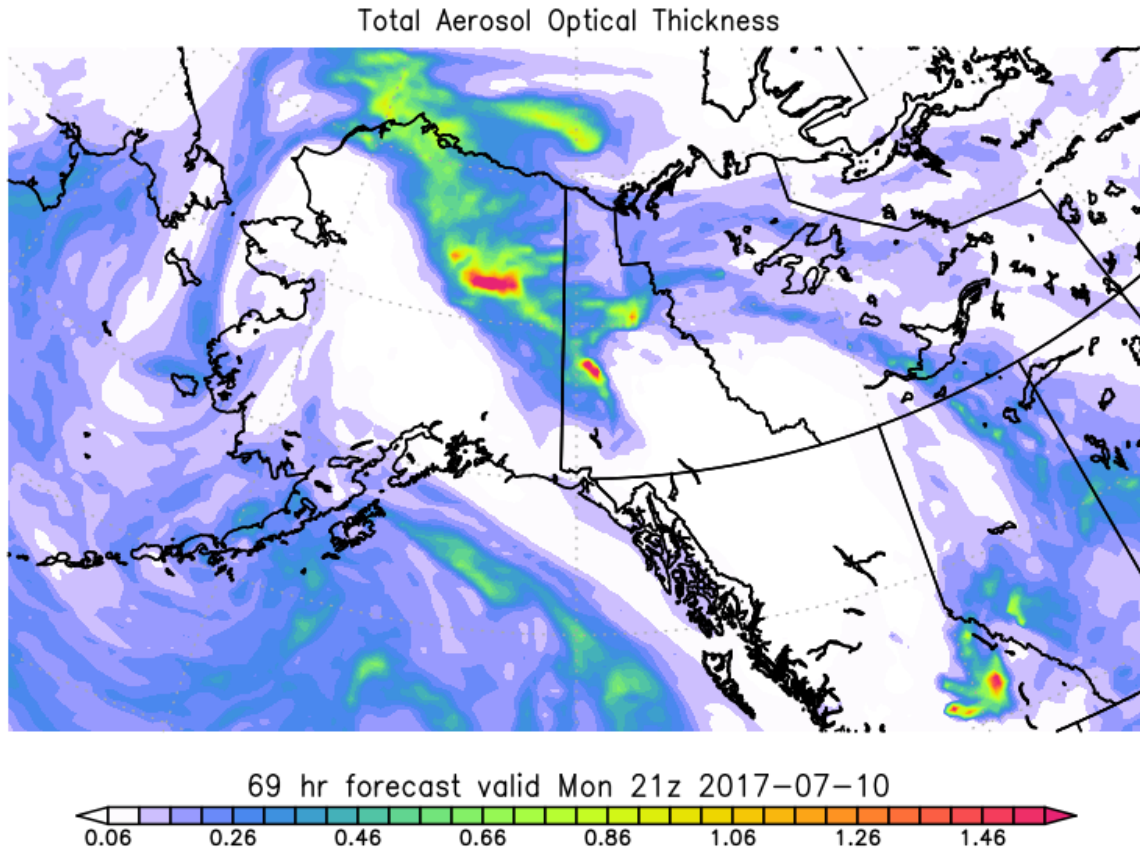
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NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-08



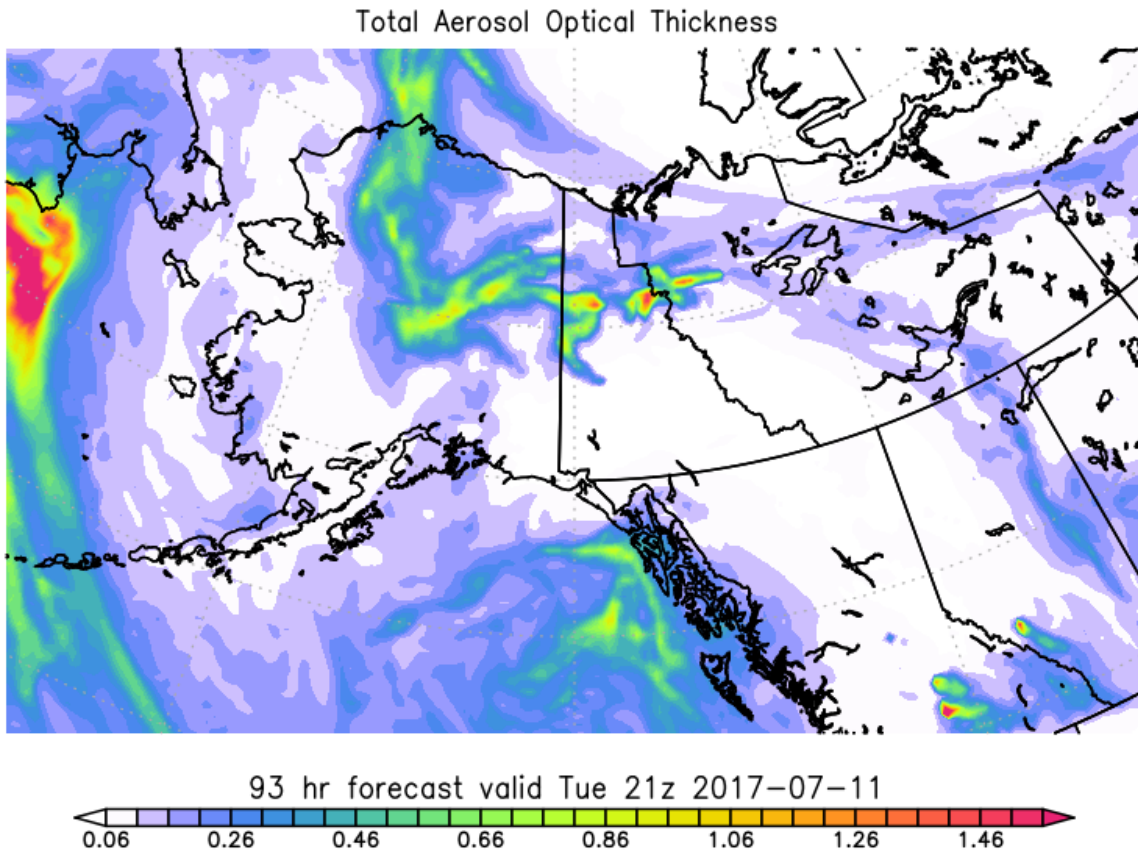
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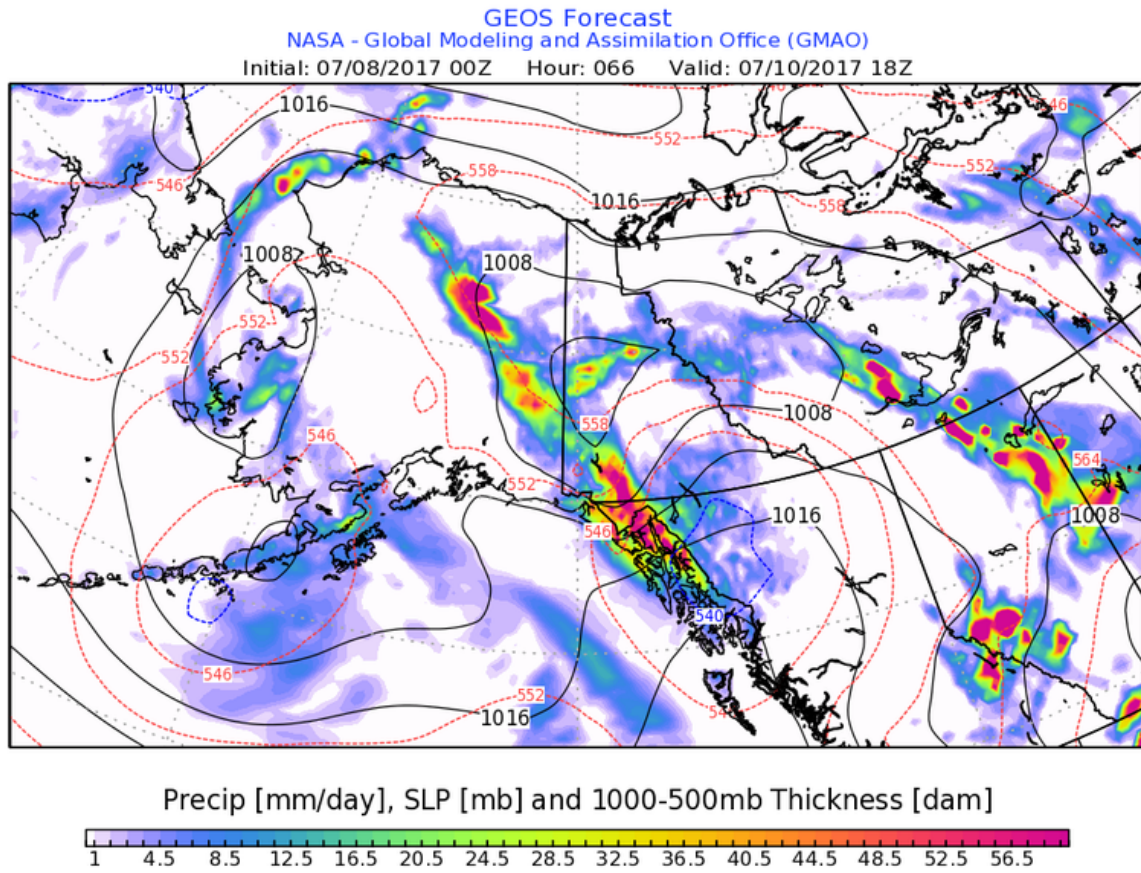


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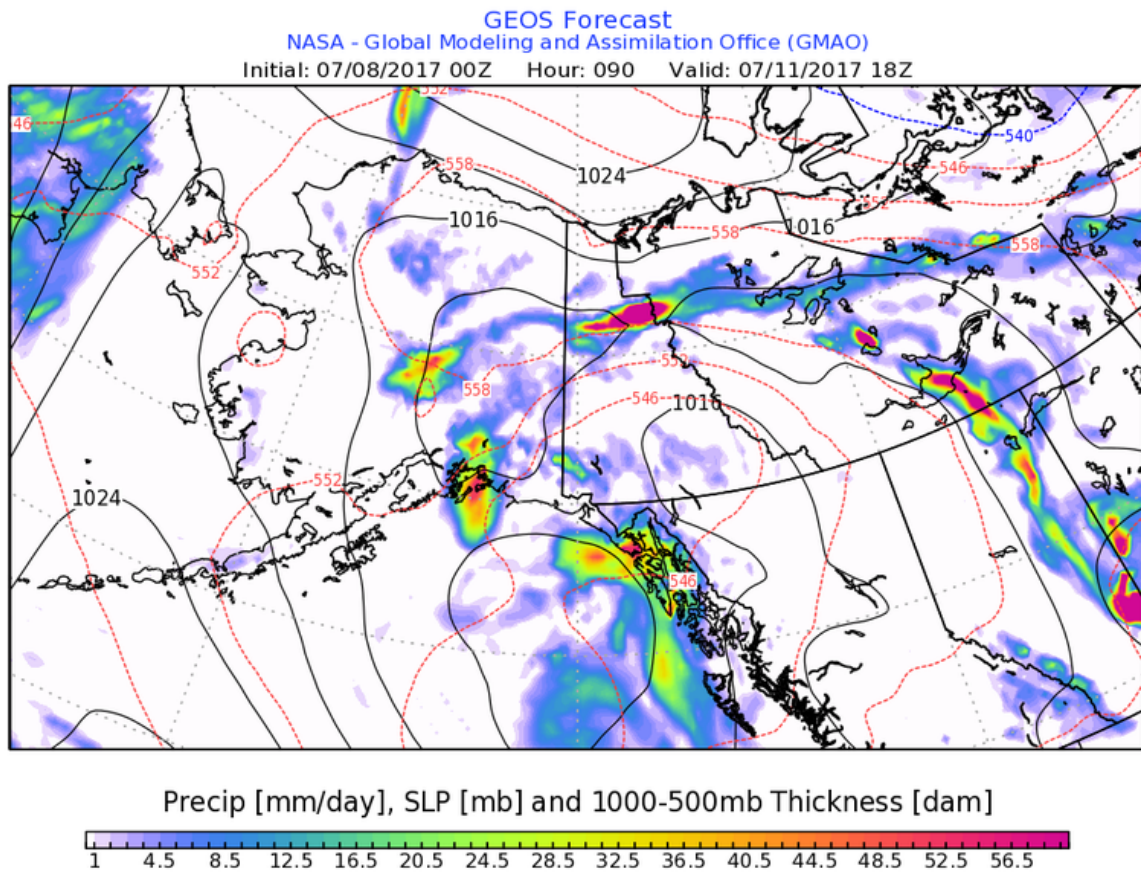
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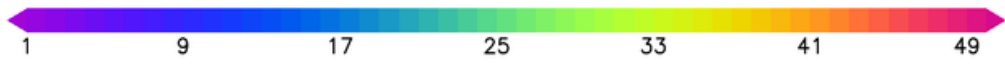
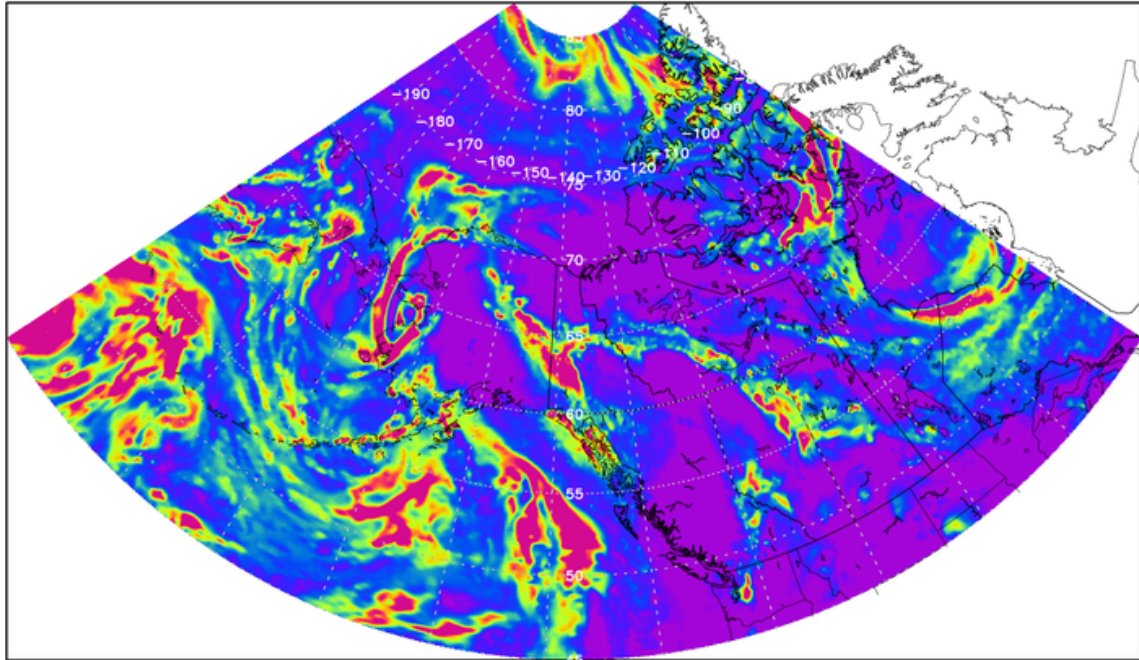


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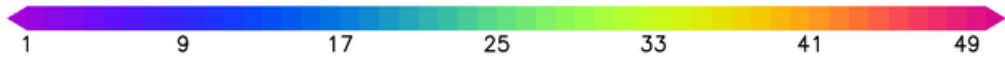
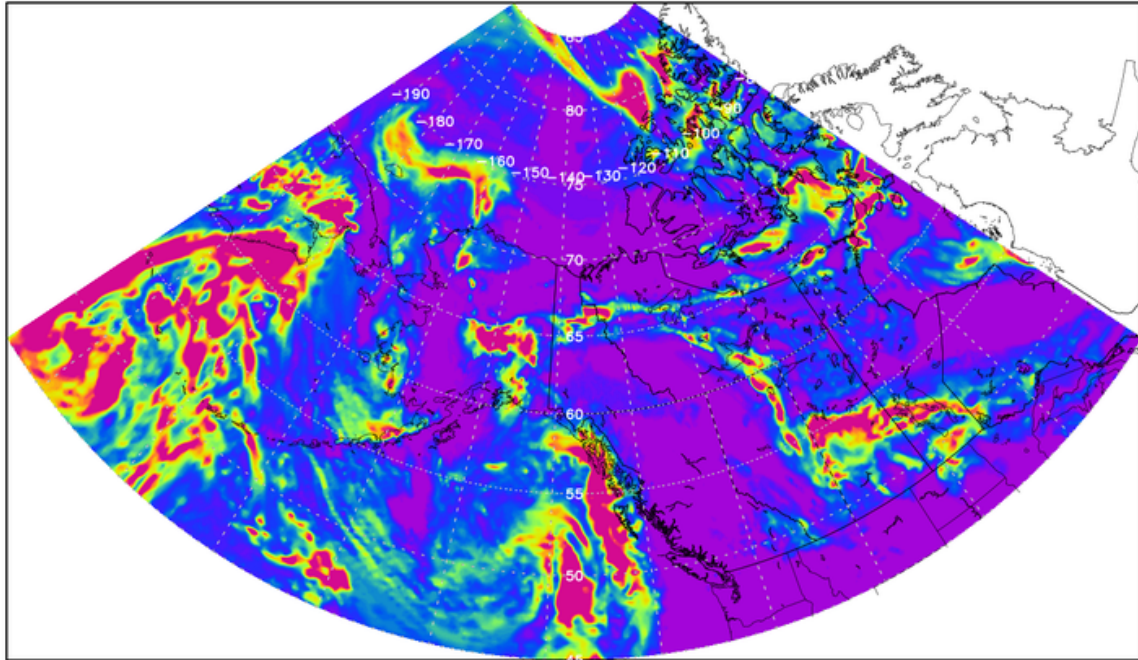
GEOS Total Cloud Optical Depth  
Initial time 08 JUL. 00z  
Valid time 10 JUL. 18z





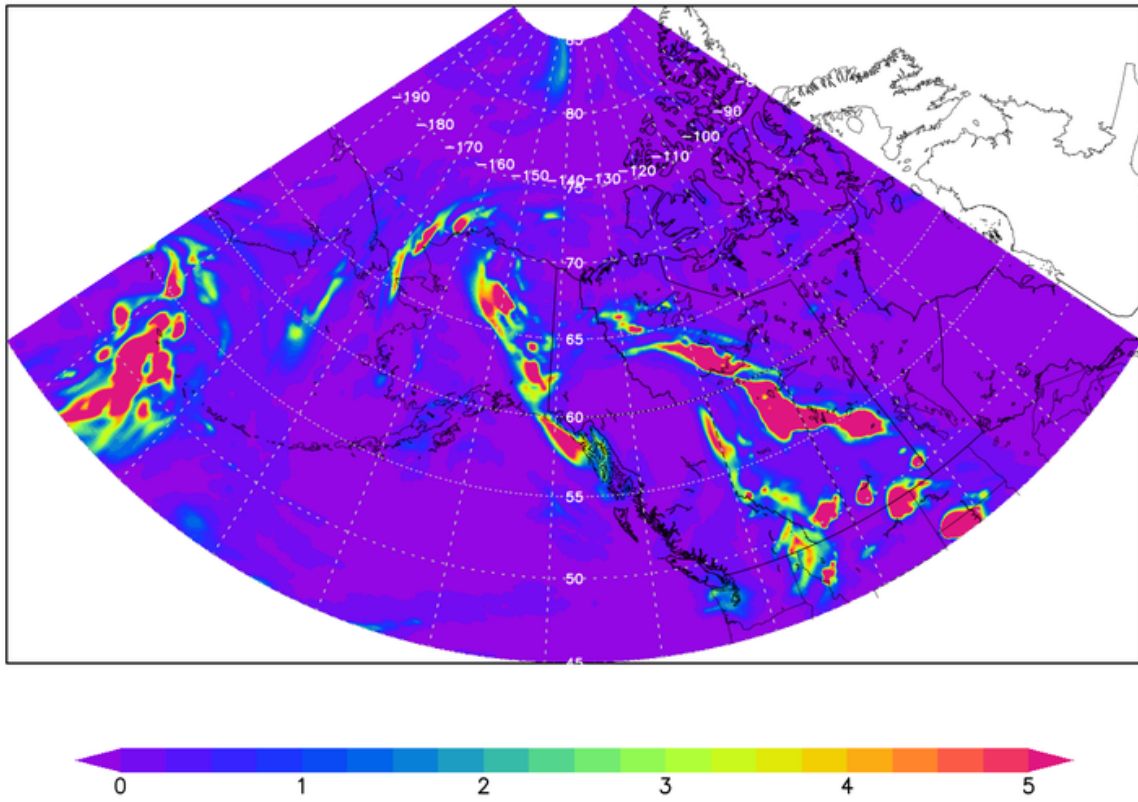
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GEOS Total Cloud Optical Depth  
Initial time 08 JUL. 00z  
Valid time 11 JUL. 18z



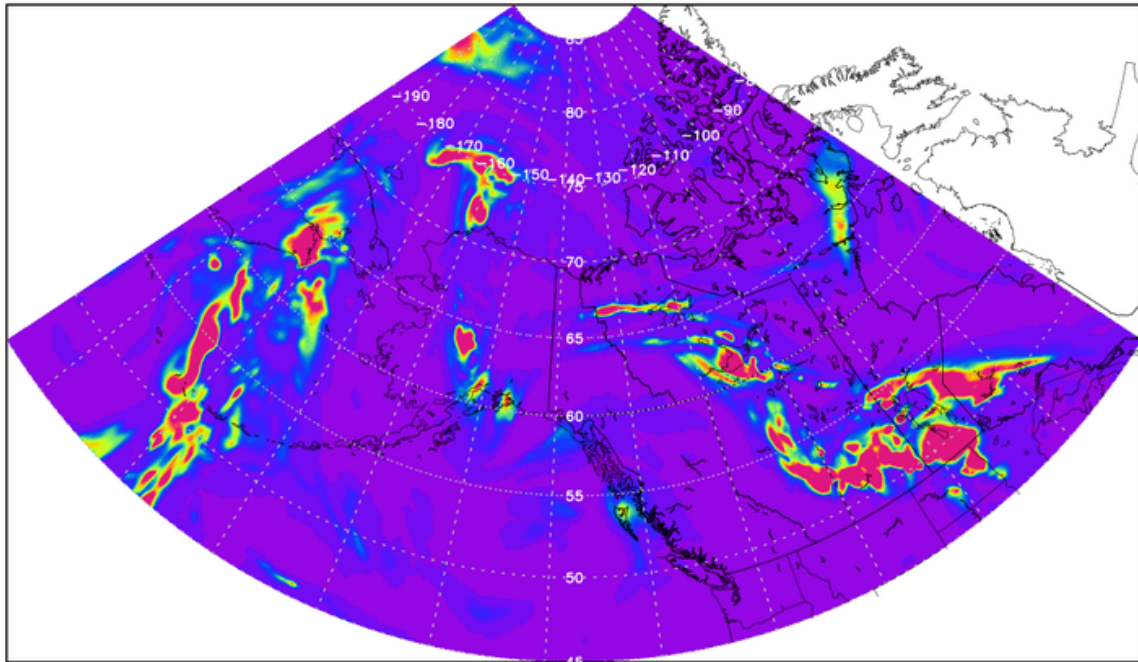
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GEOS High Cloud Optical Depth  
Initial time 08 JUL. 00z  
Valid time 10 JUL. 18z



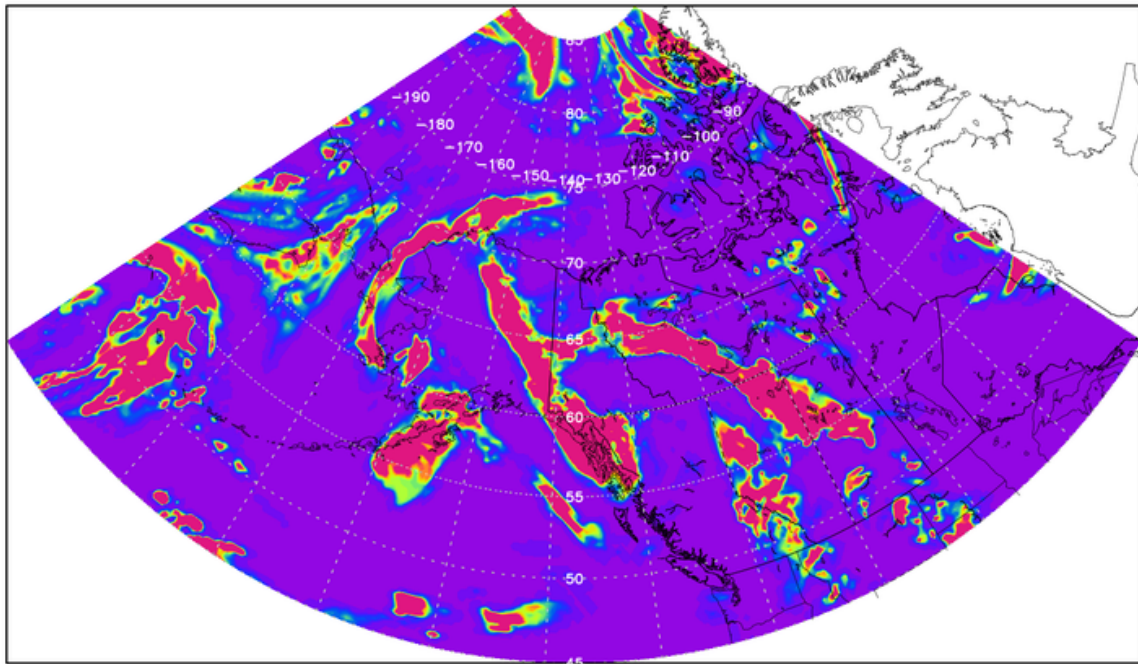
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GEOS High Cloud Optical Depth  
Initial time 08 JUL. 00z  
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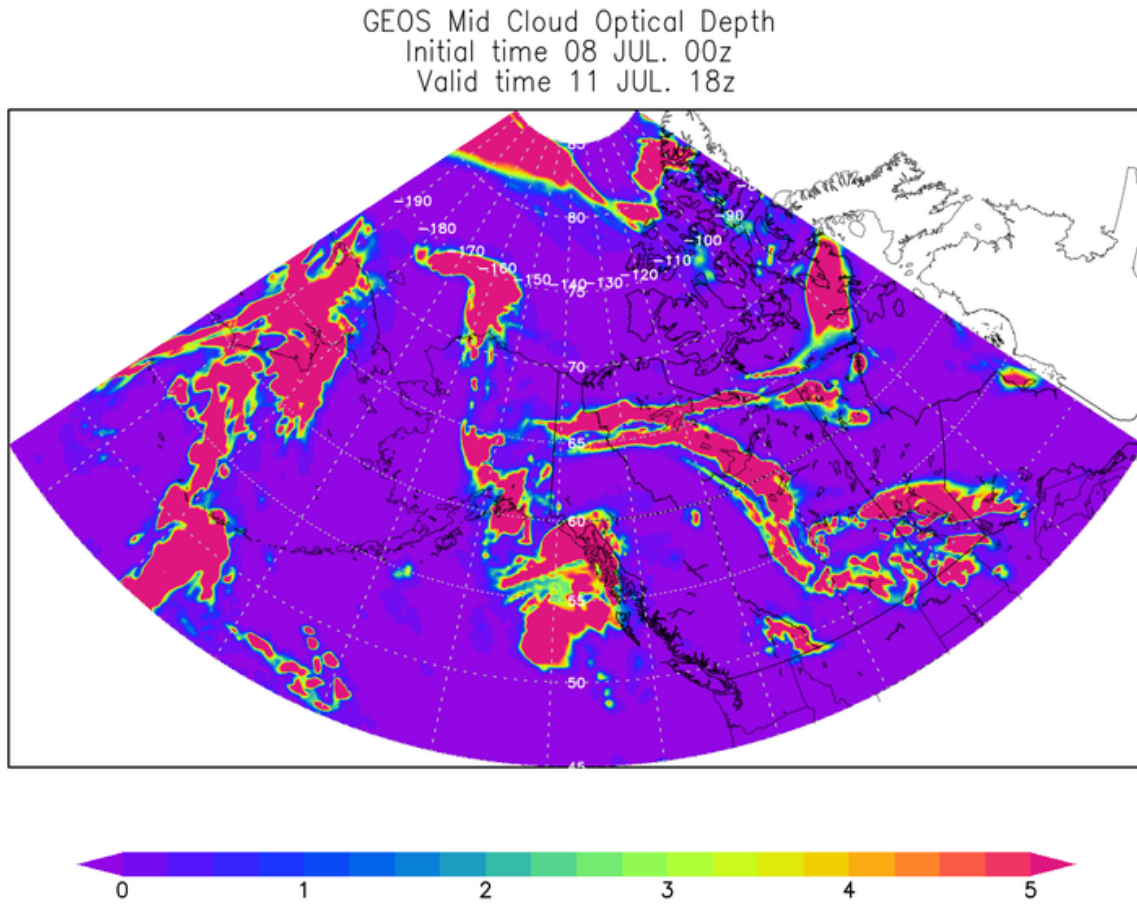


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GEOS Mid Cloud Optical Depth  
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Valid time 10 JUL. 18z

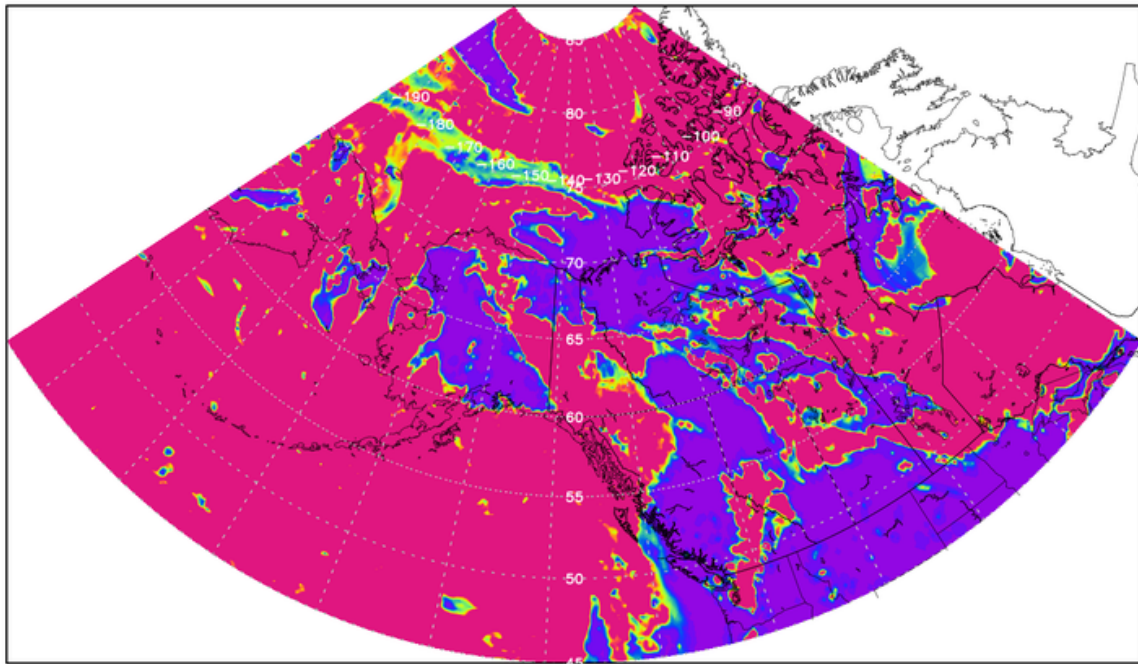


ABOVE\_Mid\_Cloud\_Optical\_Depth\_IT\_00z08JUL\_VT\_18z11JUL.png



ABOVE\_Low\_Cloud\_Optical\_Depth\_IT\_00z08JUL\_VT\_18z10JUL.png

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



ABOVE\_Low\_Cloud\_Optical\_Depth\_IT\_00z08JUL\_VT\_18z11JUL.png

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

