

ABOVE Regional Weather Briefing

Based on the GMAO GEOS meteorology and aerosol forecast fields
Model Initialized 00z 07 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 08 July through 2359z 08 July***

As of Thursday evening, there were more than 80 fires burning between Fairbanks and Deadhorse. More than 50 fires are burning in YKT. There is a band of thin to occasionally thick aerosol optical thickness that runs from the Anchorage area east towards the Klondike region and northeast through the eastern edge of the Yukon Flats. A large area of moderate to heavy precipitation in the southeast is moving into the area from the south and spreading north and west. The clouds associated with this system cover most of the southern half of the state by the end of this period. The northern half of the state has some clouds to the north but they are optically thin clouds and the only precipitation in the northern third of the state is over Barrow early on. North Slope and PASC look fairly clear.

Day-2 Forecast***Valid 1500z 09 July through 2359z 09 July***

This period is forecast to see the highest aerosol optical thickness values we have seen over a fairly large area from just east of the Seward Peninsula and westward to the Canadian border from the southern Brooks Range south through Yukon Flats, Fort Yukon, Fairbanks through the northern slopes of the Alaska Range. A weak low pressure center forms over the Seward Peninsula and the band of clouds and rain stretch from there back east to clouds and rain associated with another low pressure system over southeast YKT drifting towards the Alaska state line. The northern 1/3 of the state may be the only partially clear area during this forecast period.

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

The aerosol values are lower this period thanks to the wind and rain washing and moving the aerosols. Yet there still exists an aerosol optical thickness area thin with occasional thick patches that stretches from near Whitehorse up along the North Slope through Deadhorse and west through Barrow. The area of low pressure over Seward peninsula has moved to the northwest and is now over open water. The area of low pressure near south YKT has deepened a bit and has begun to rotate in place spinning a comma shaped patch of clouds and

precipitation towards and eventually past the Alaska state line. Depending on the local Fairbanks conditions, it may be possible to head towards Nome, Galena, Yukon Delta or Denali. Also there may be a chance for some flights between PABR and PASC during this period.

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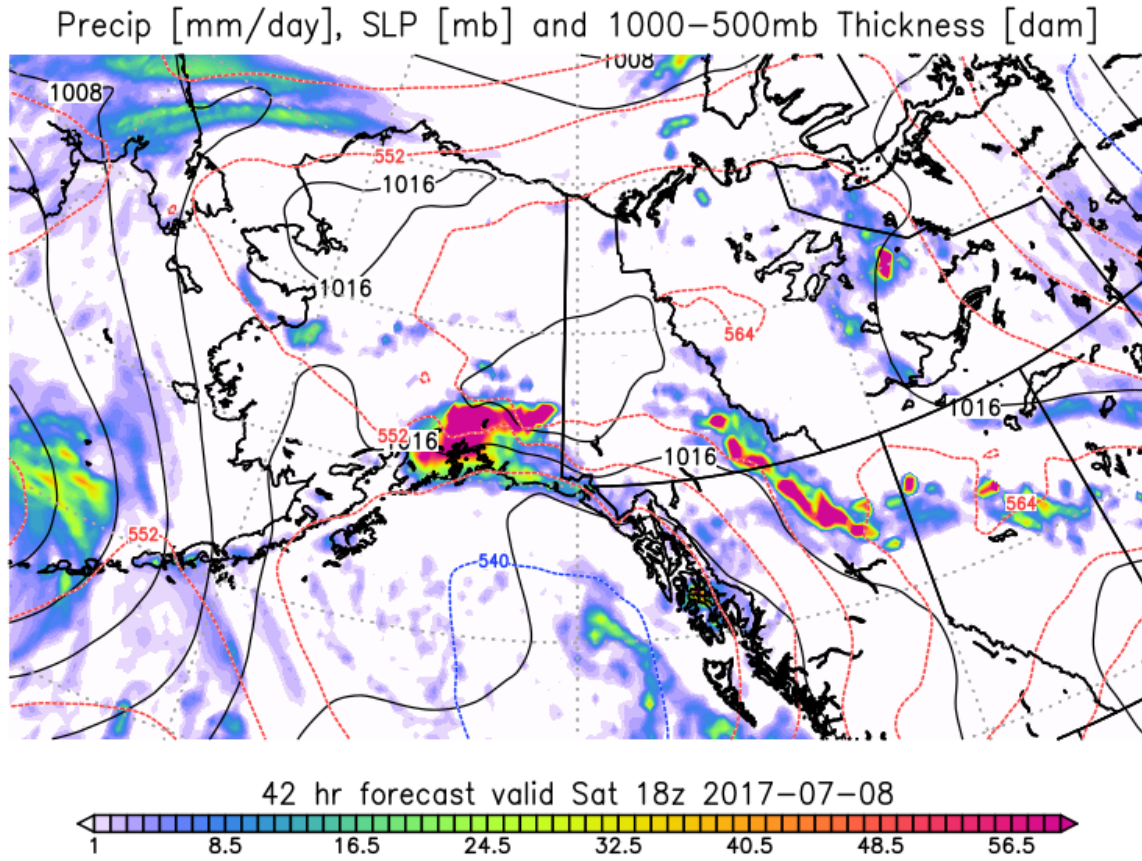
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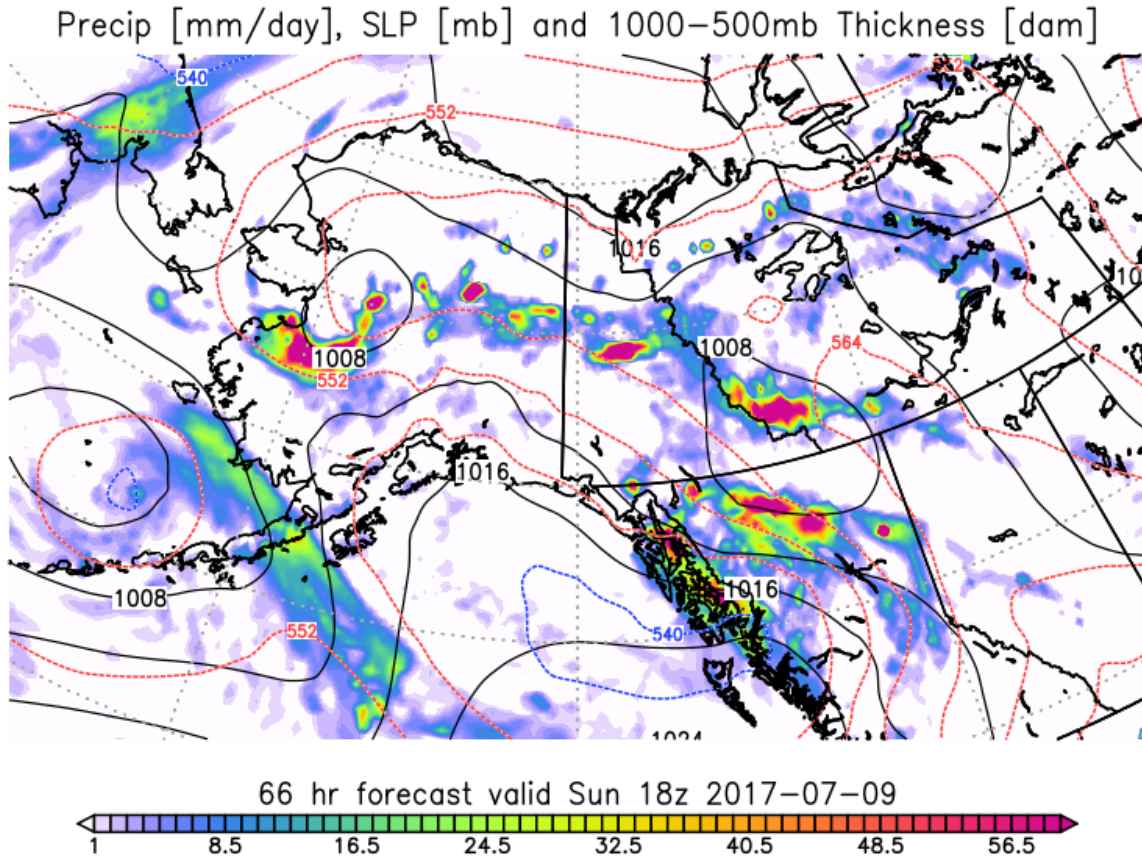
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NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-07-07



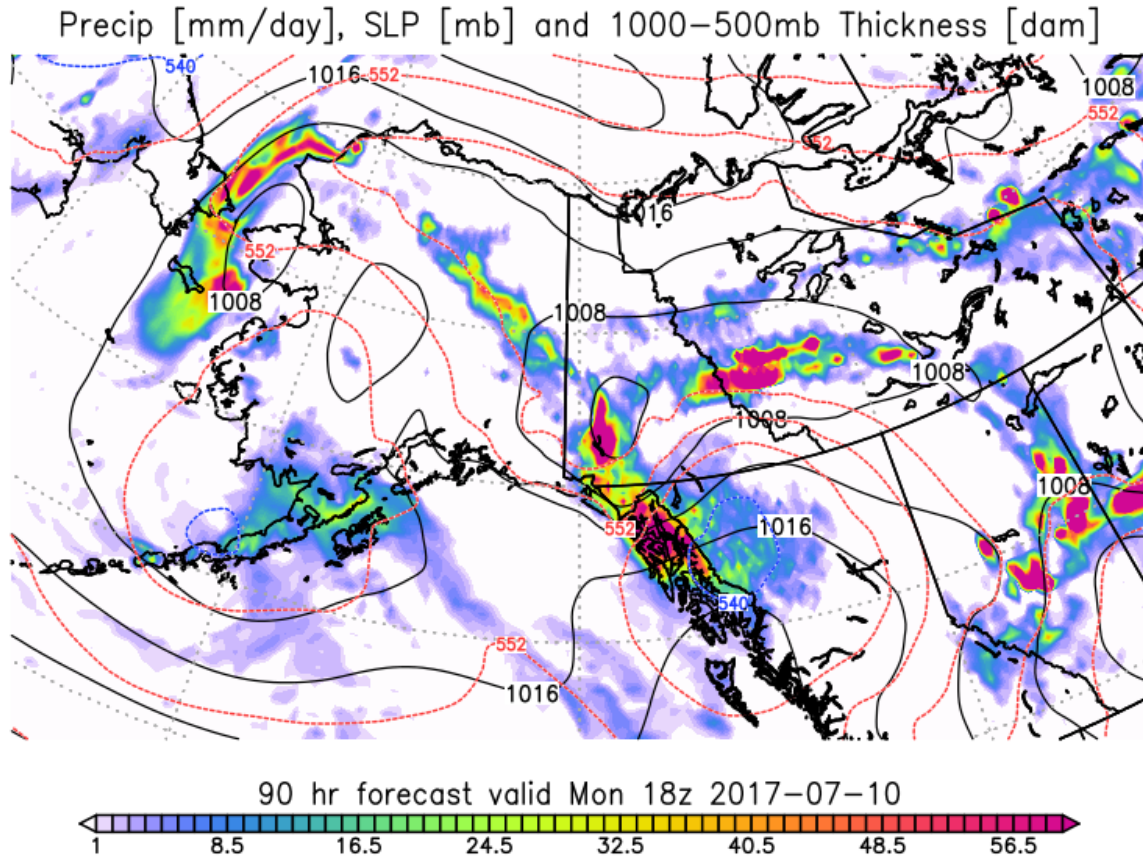
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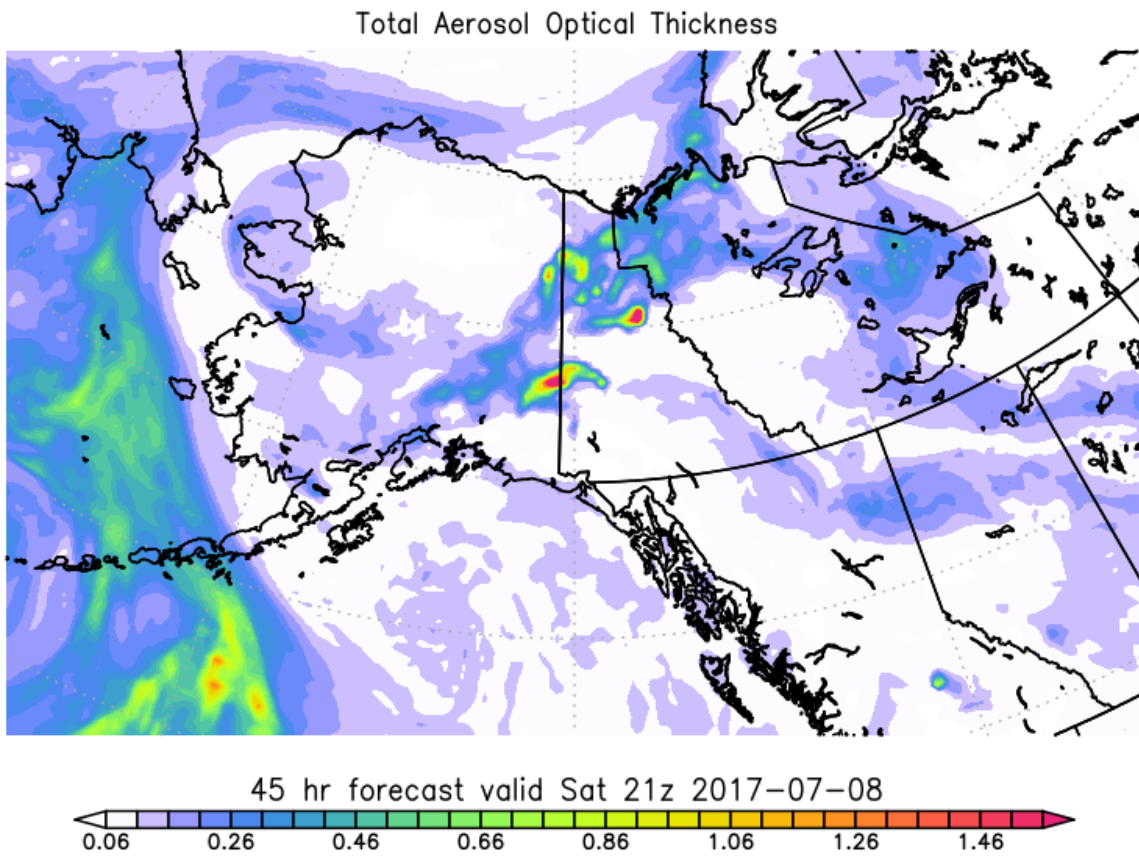
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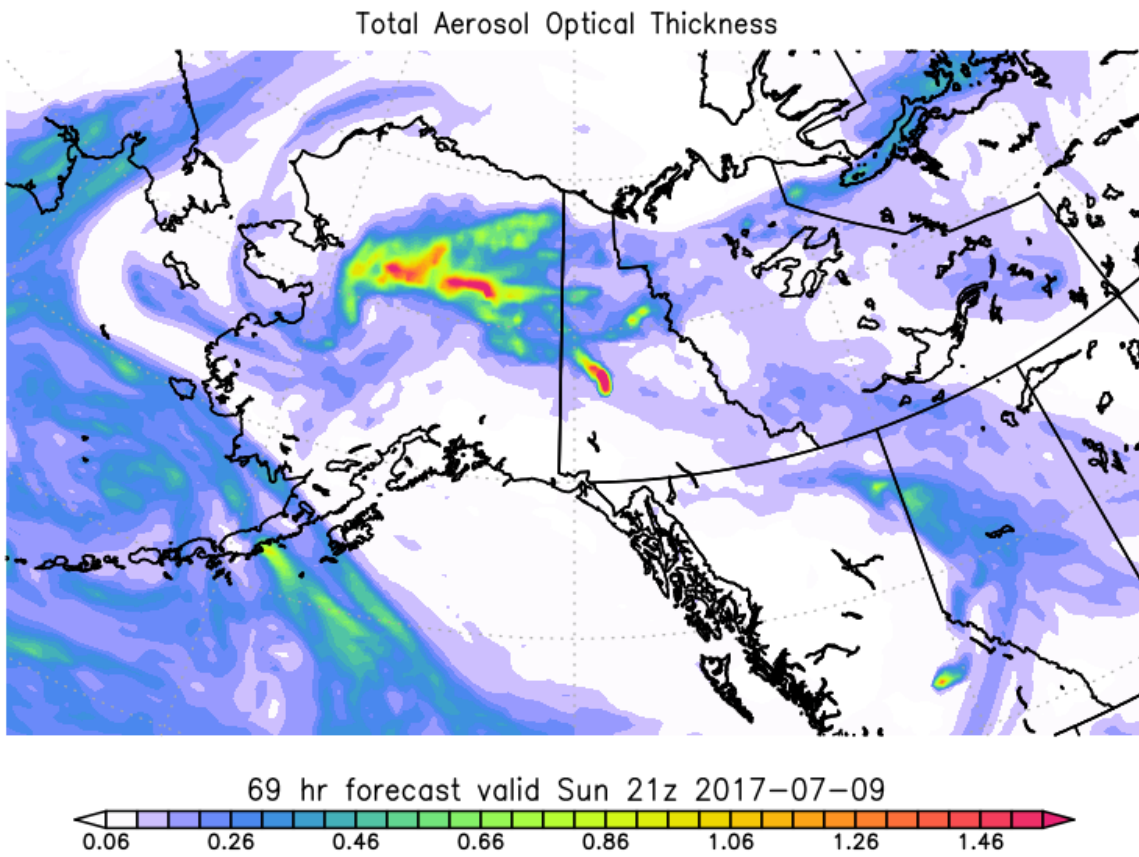
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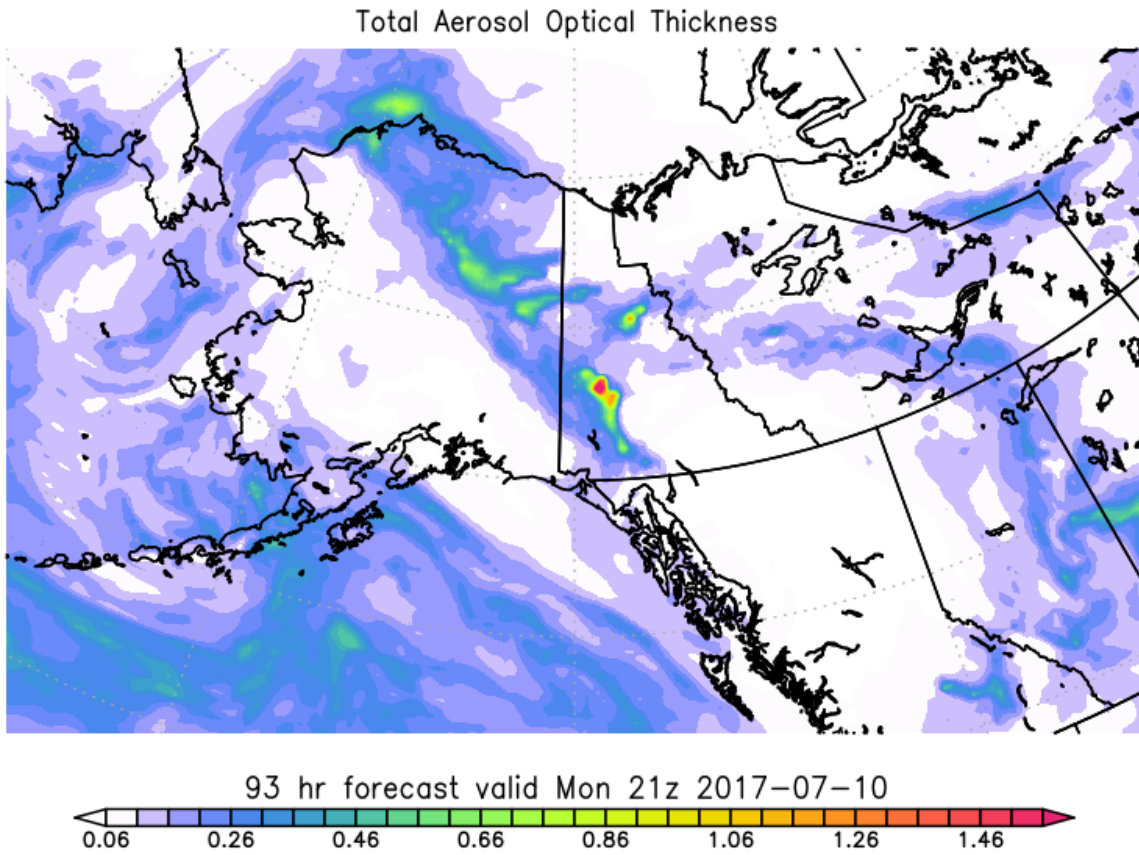
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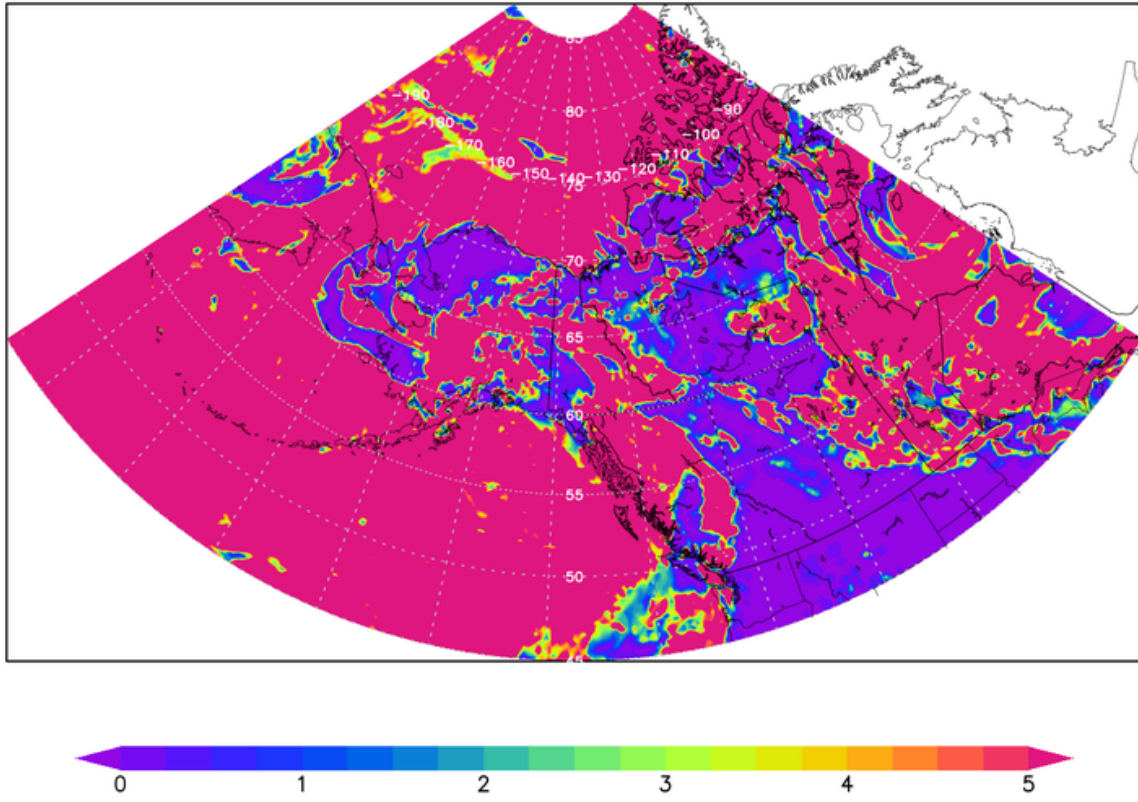
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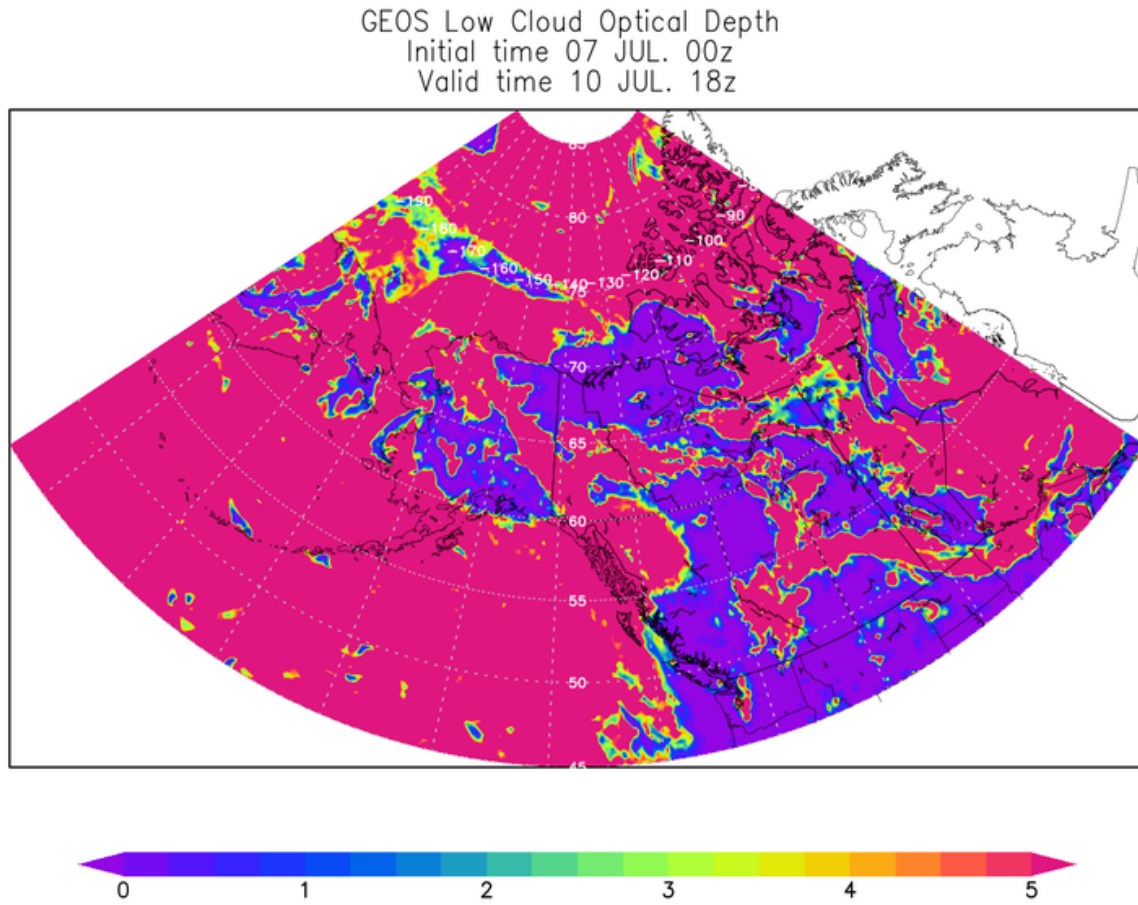


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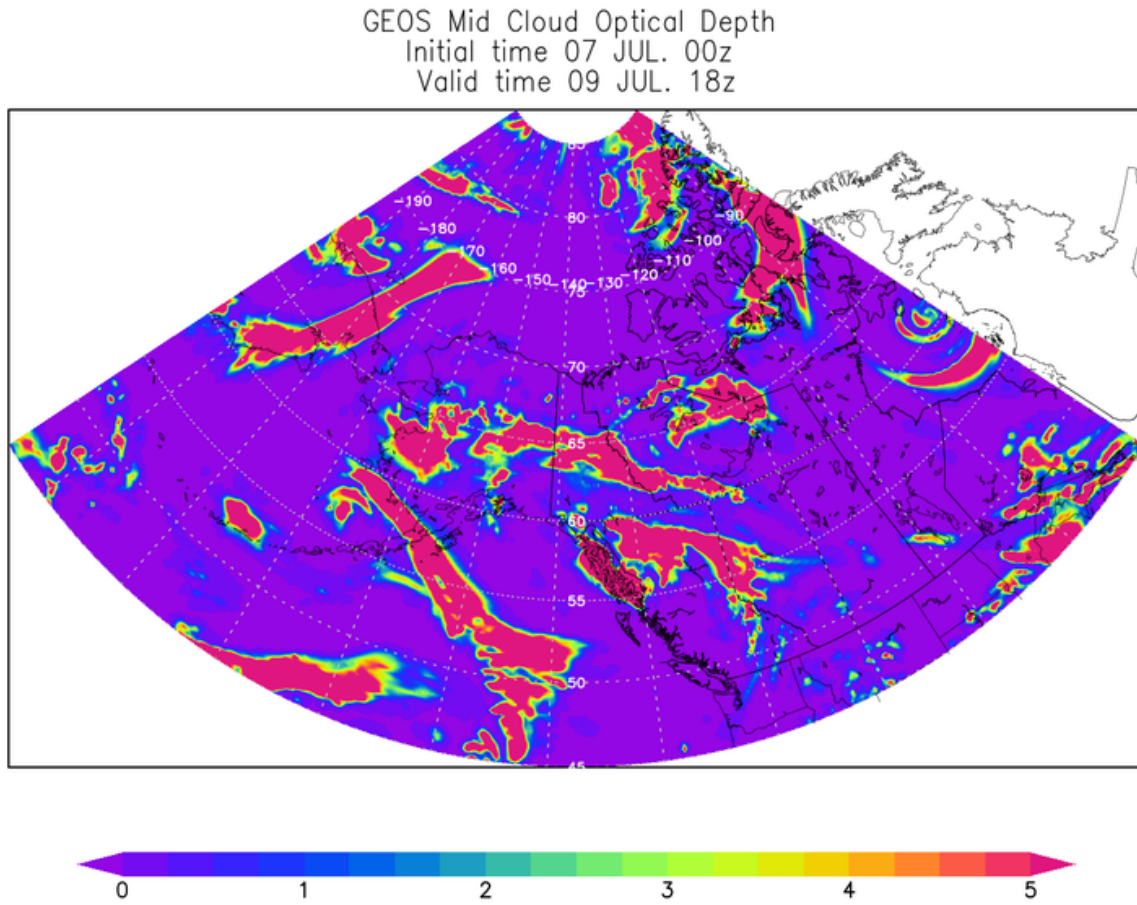
GEOS Low Cloud Optical Depth
Initial time 07 JUL. 00z
Valid time 09 JUL. 18z



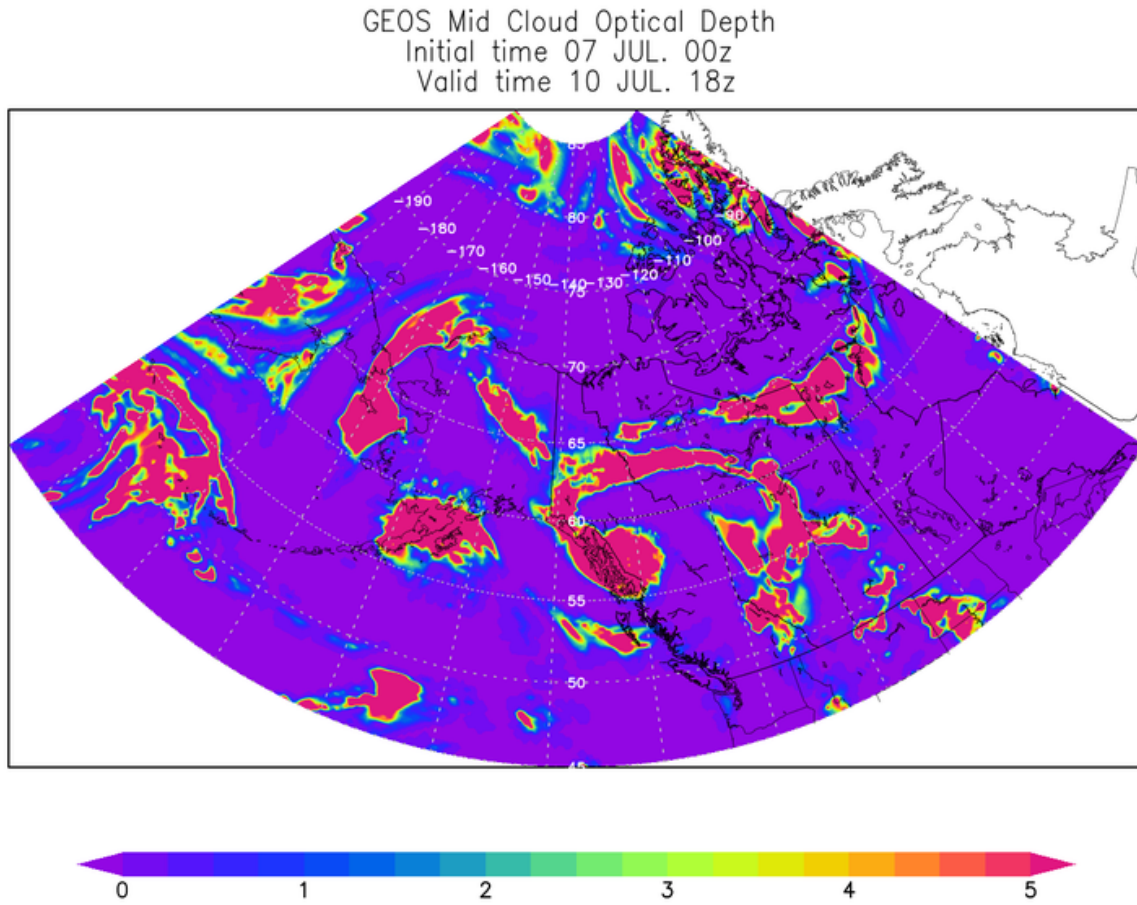
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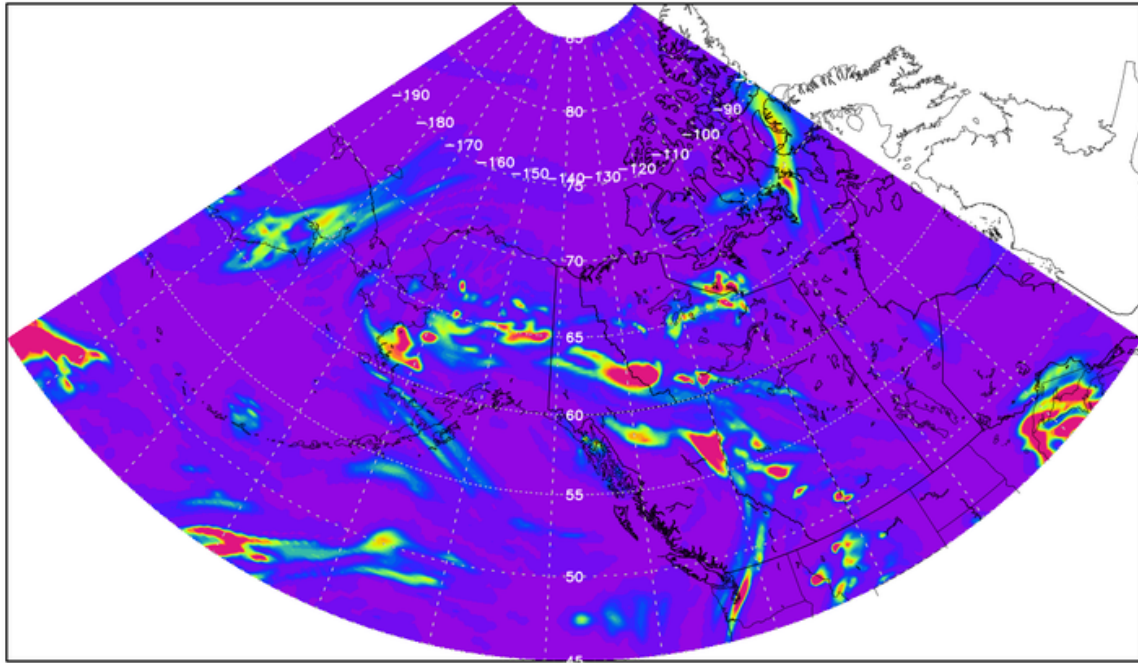


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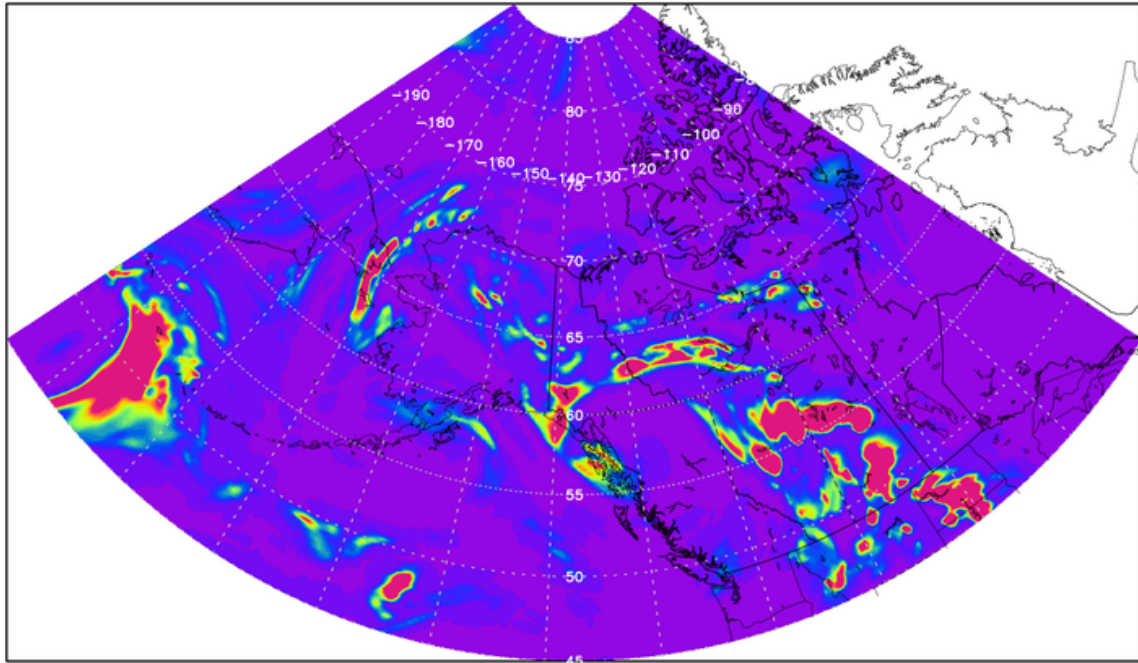
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GEOS High Cloud Optical Depth
Initial time 07 JUL. 00z
Valid time 09 JUL. 18z



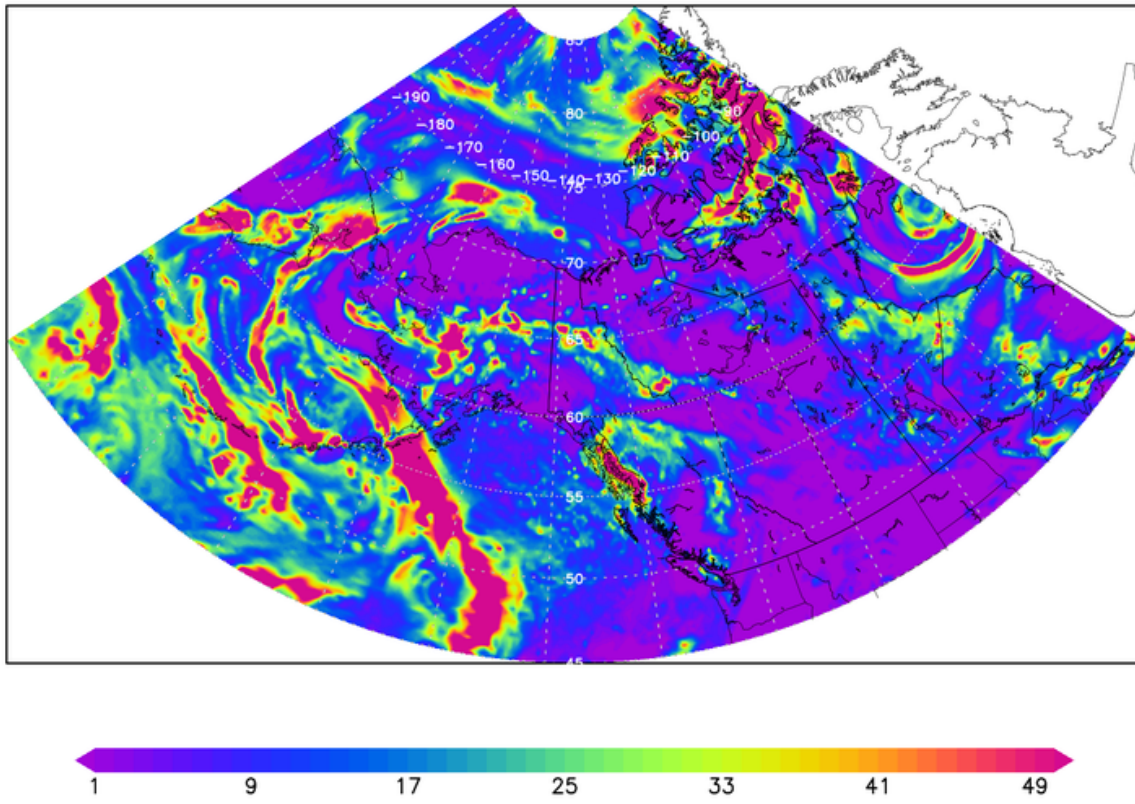
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GEOS High Cloud Optical Depth
Initial time 07 JUL. 00z
Valid time 10 JUL. 18z



ABOVE_Total_Cloud_IT_00z07JUL_VT_18z09JUL.png

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



ABOVE_Total_Cloud_IT_00z07JUL_VT_18z10JUL.png

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

