

**ABOVE Regional Weather Briefing**

Based on the GMAO GEOS meteorology and aerosol forecast fields  
Model Initialized 00z 01 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 02 July through 2359z 02 July**

A broad trough of low pressure will be centered from interior east Alaska all the way east into central and southern NWT. In this weather pattern expect widespread to numerous showers and thunderstorms in this region with the heating of the day. A second area of low pressure will be located coming ashore northwest BC from the Gulf of Alaska on Sunday. The Yellowknife will be subject for multiple cloud layers and precipitation through most of Sunday, as well as most of the North Slope of Alaska.

The only clear target regions we are seeing for Sunday is a small notch of the Arctic including Inuvik and west over the northern YKT tip. By the time you get west to PASC, there should already be broken to overcast clouds there. There will be clear scenes on Sunday for most of southern and central AB and southern BC. Please also note areas of light to moderate smoke haze centered near Fort Yukon on a line from there to PABR. Rest of region clear of aerosol haze.

**Day-2 Forecast****Valid 1500z 03 July through 2359z 03 July**

Low pressure over the Yukon drifts eastward and becomes centered over the central NWT (including Yellowknife). Poor weather is expected for most of the NWT through the day again on Monday. A trough of low pressure then extends across southern Alaska and the southern YKT with multi-layer clouds and precipitation through most of the day. A cold front will be located down the border between AB and SK with scattered showers and thunderstorms.

No coherent areas of clear sky for any appreciable time is expected on Monday, unfortunately. A period of scattered to broken clouds may exist over the northern YKT (Old Crow). Clear skies will be seen again over the southern parts of BC and AB if any flights need to go that way. The North Slope, PABR, PASC, all look solidly socked in. For Monday, even early in the daylight hours isn't looking more favorable up north despite predictions of early sunshine over Yellowknife by Environment Canada. We do not see much of a break there Monday.

In addition, substantial smoke will be located between Rampart House...Fort Yukon...and Eagle Village, AK. Light smoke haze will be seen along the Arctic shore of Alaska.

**Day-3 Outlook****Valid 1500z 04 July through 2359z 04 July**

Low Pressure continues to drift slowly east across the NWT.

The NWT appears to be soaked in with clouds/precipitation.

Some clearing is possible from the latitude of Fairbanks north to the North Slope, except right long the Arctic shore. That clearing may stretch west from the Seward Peninsula all the way to the Canadian border. Any flights in AB or SK look to be mainly clear.

If there is any flying on Tuesday, be advised of some moderate smoke haze over interior east Alaska.

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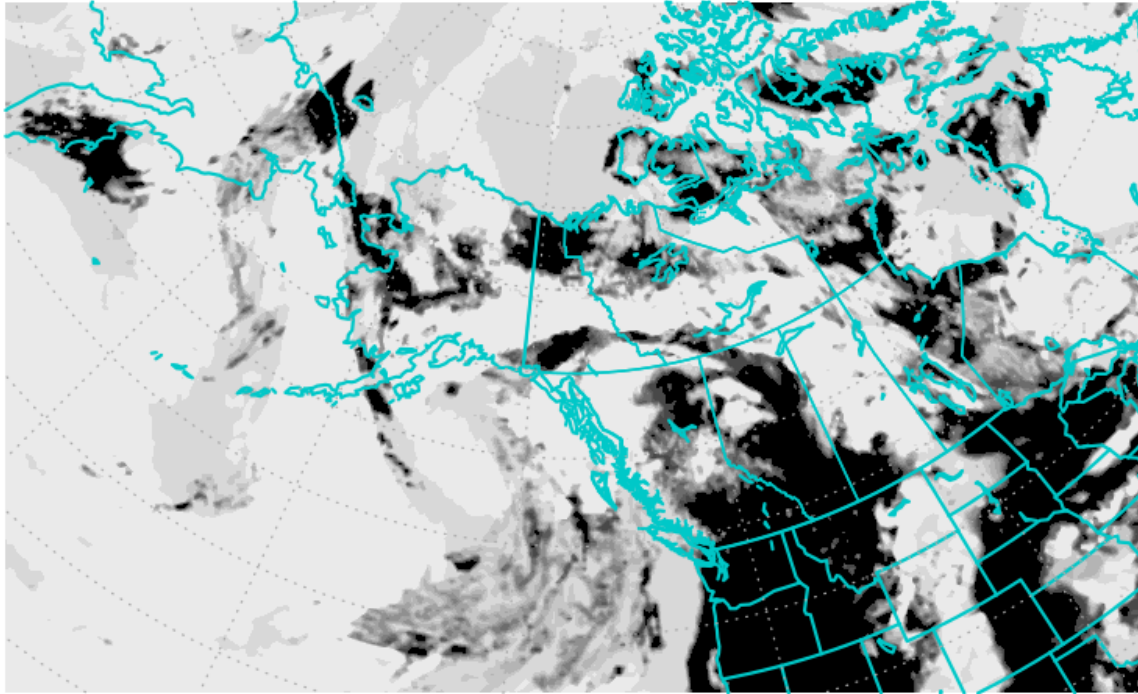
Gary Partyka

Global Modeling and Assimilation Office - GSFC

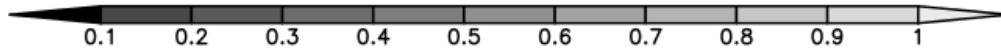
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NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-07-01

Total Cloud Fraction



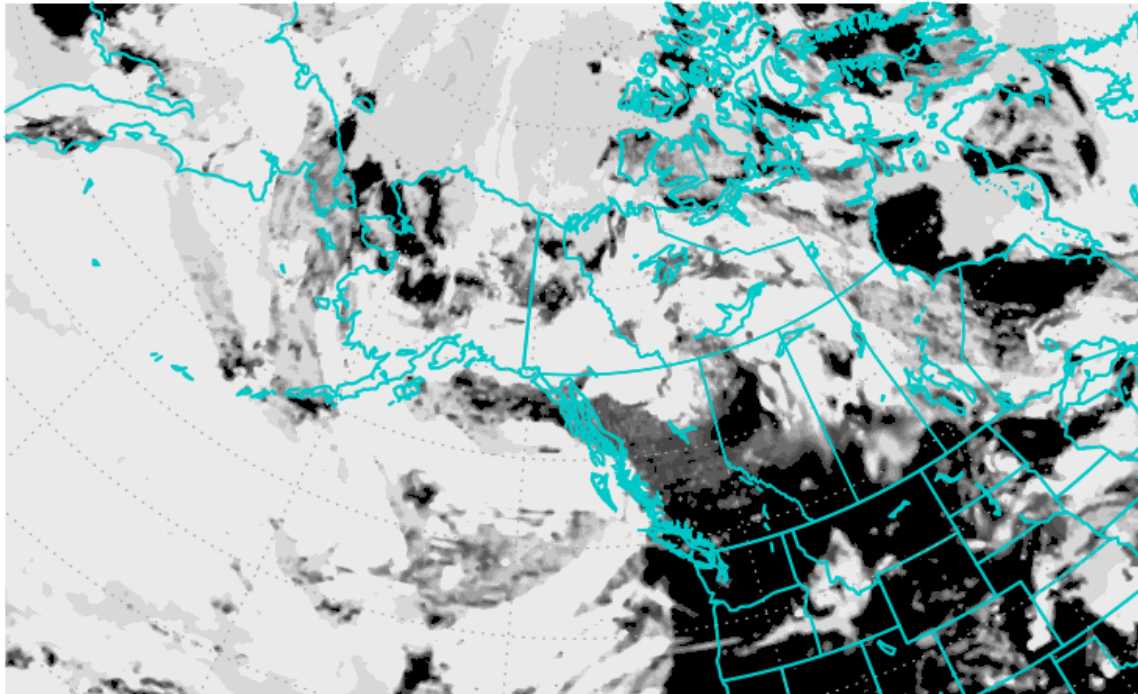
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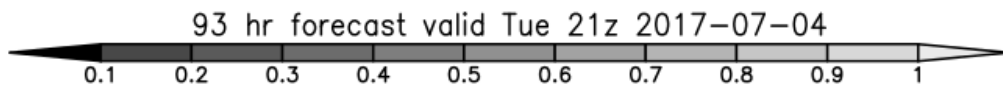
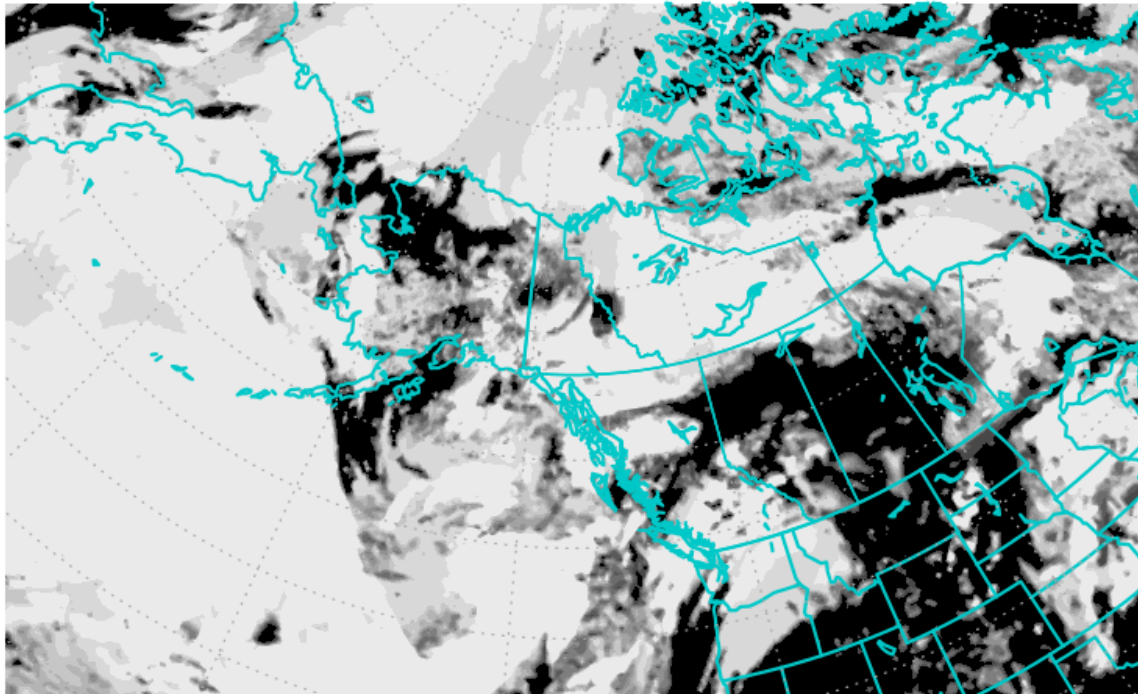
69 hr forecast valid Mon 21z 2017-07-03



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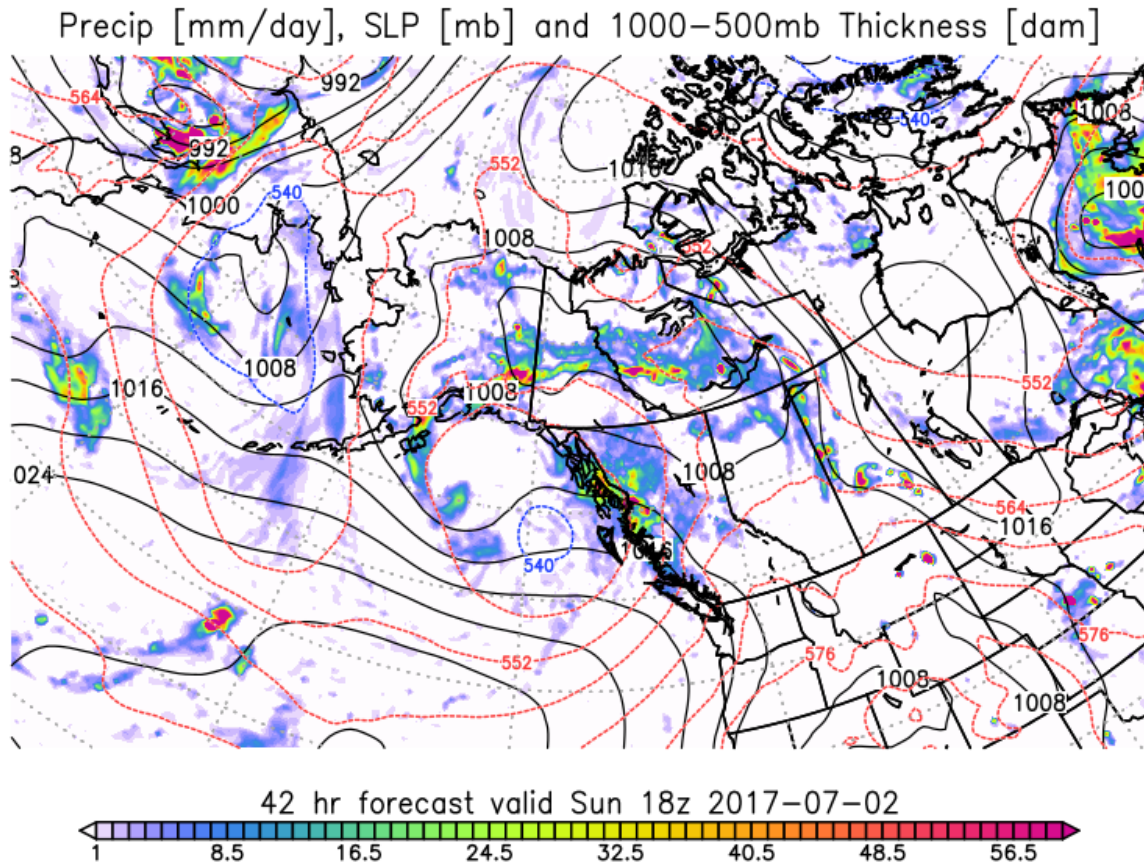
NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-01

Total Cloud Fraction



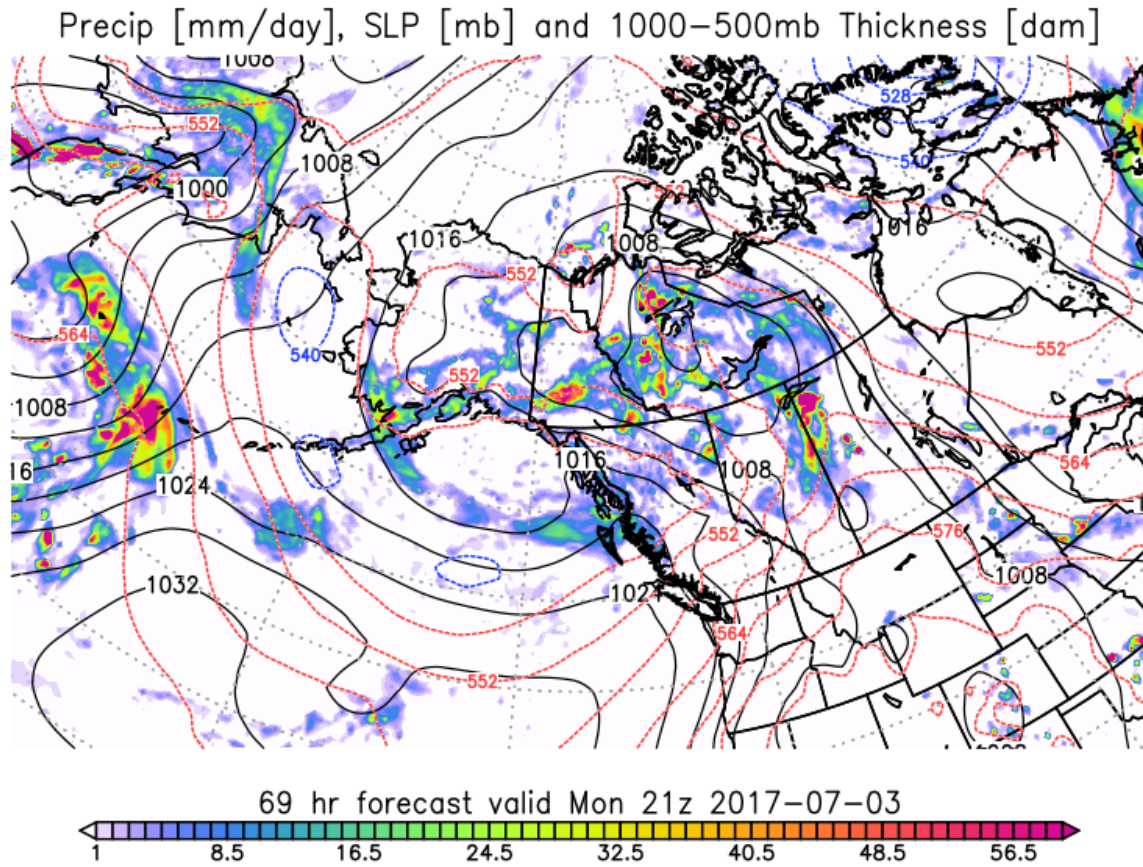
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NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-07-01



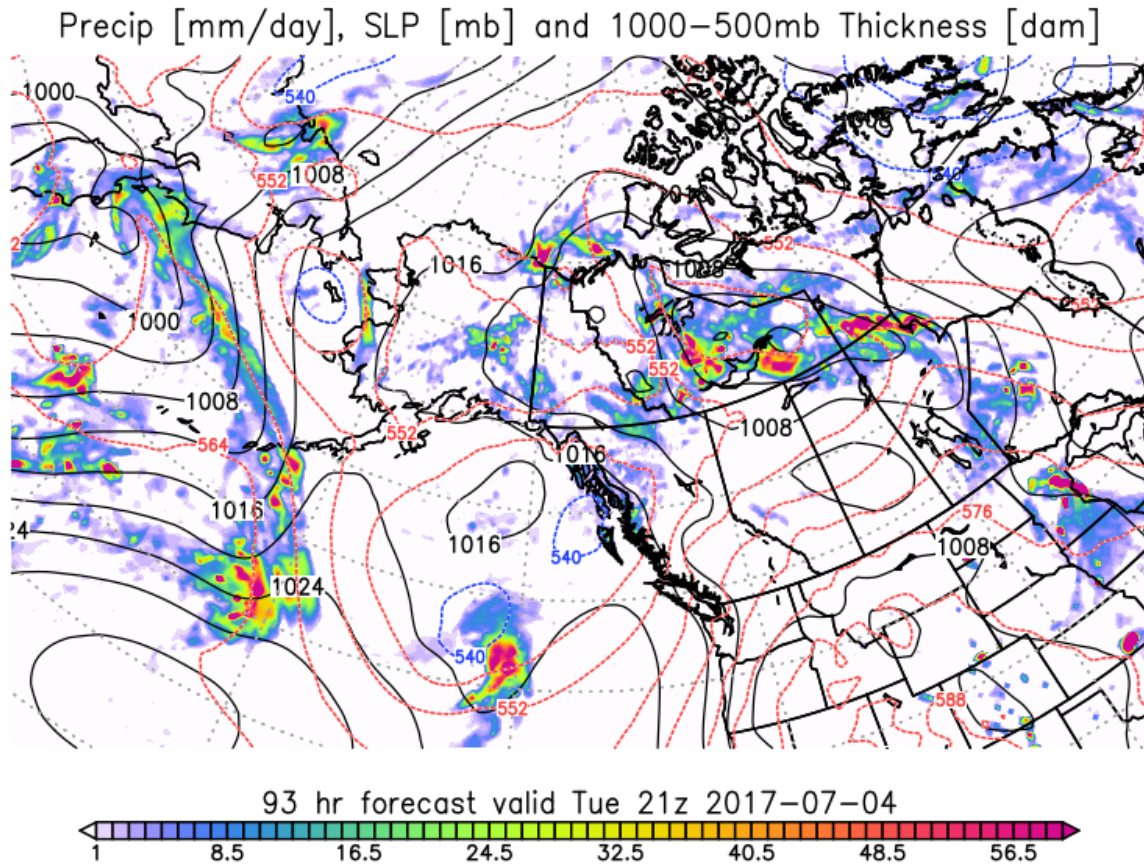
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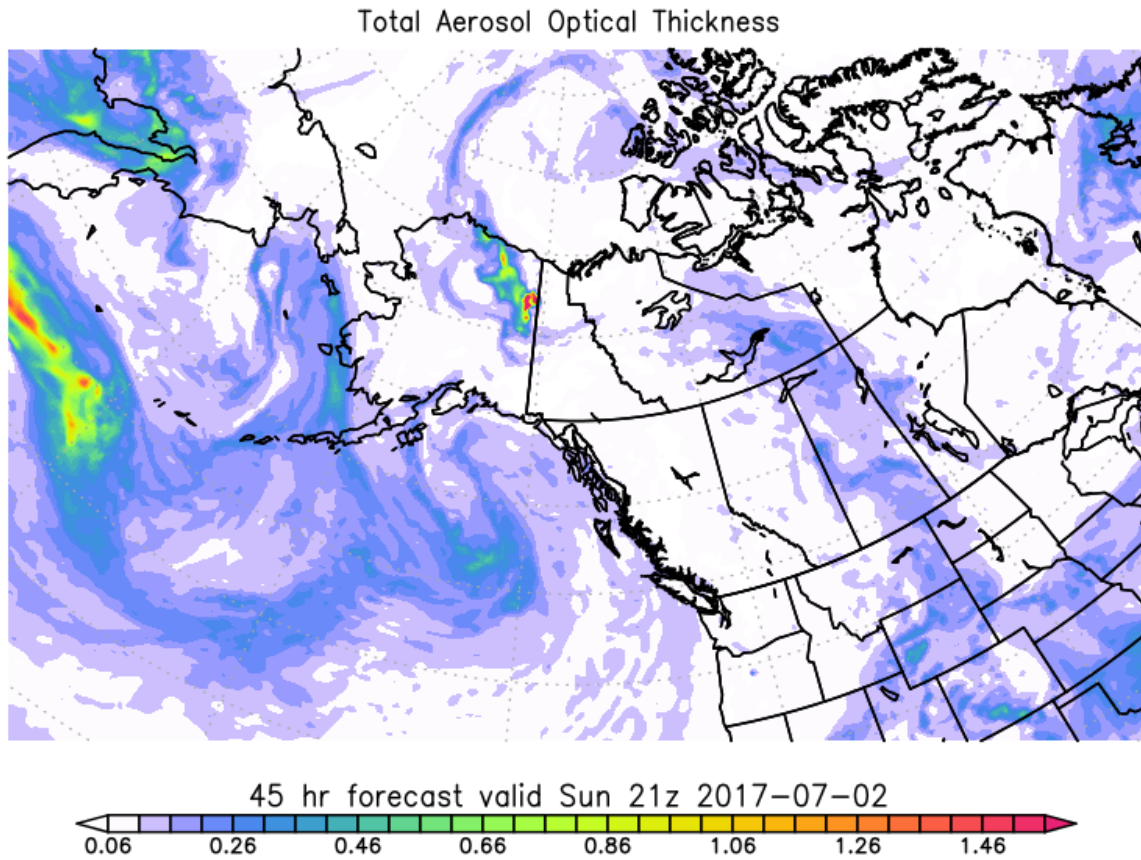
NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-07-01





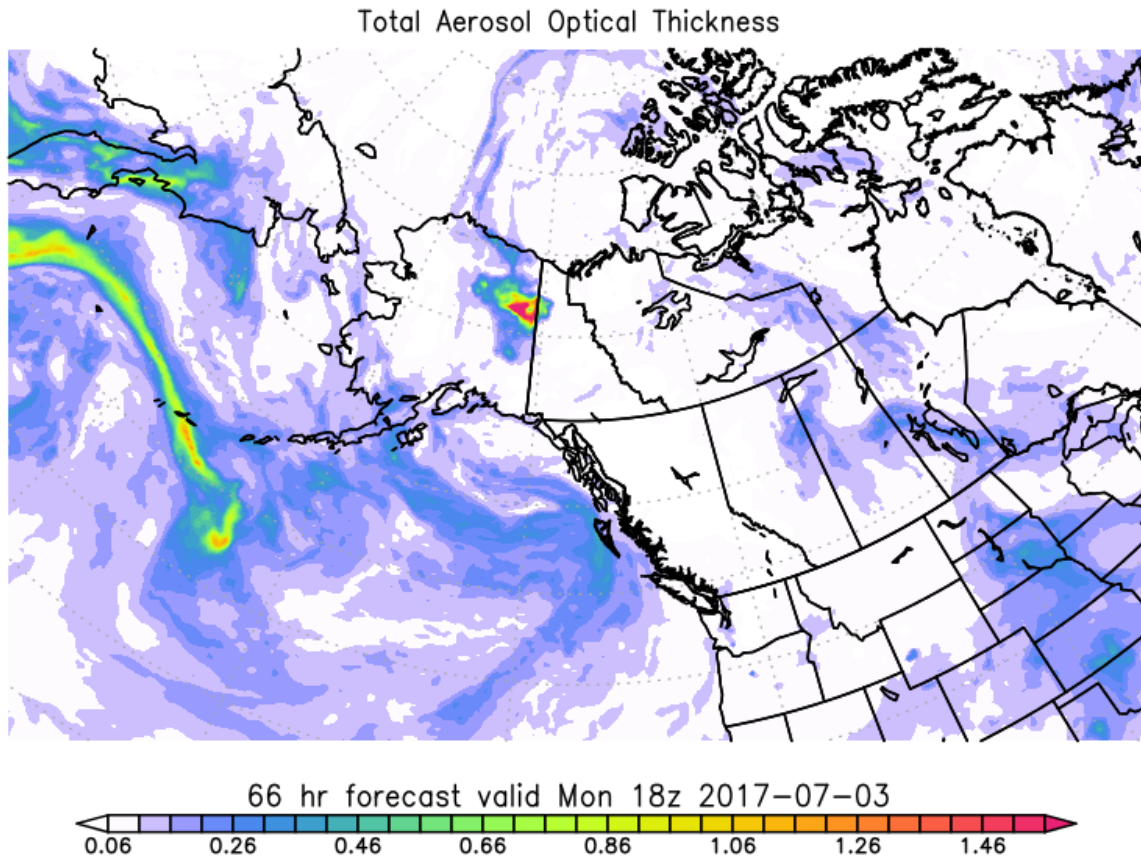
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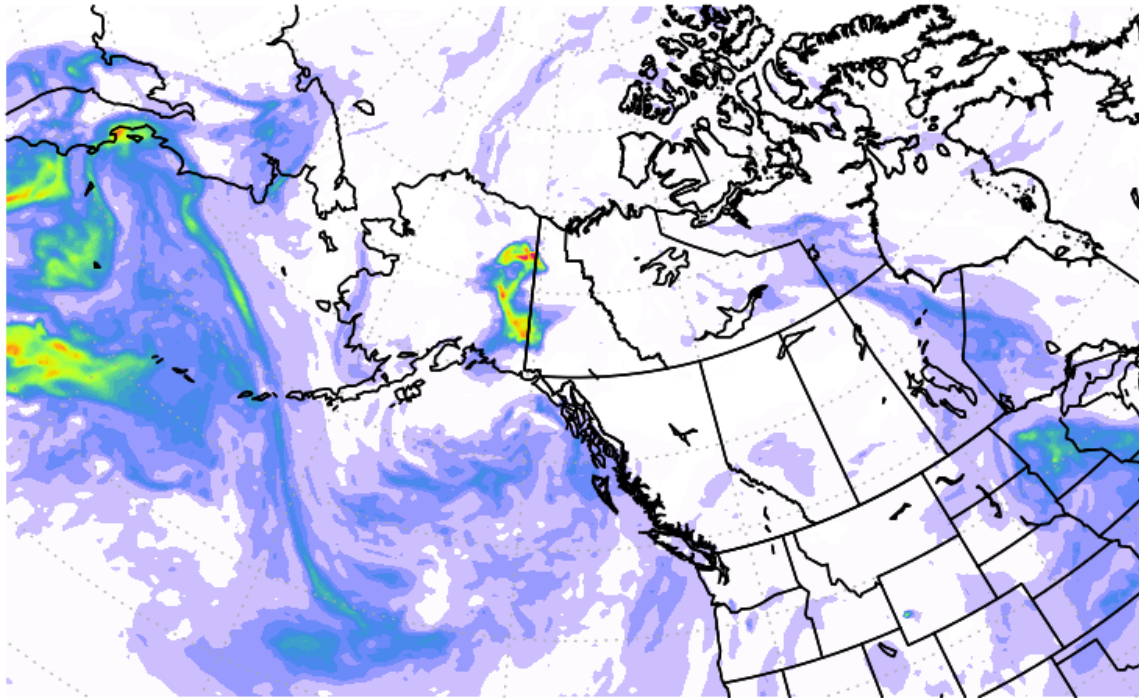
NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-01



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NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-07-01

Total Aerosol Optical Thickness



90 hr forecast valid Tue 18z 2017-07-04

