ABOVE Regional Weather Briefing Based on the GMAO GEOS meteorology and aerosol forecast fields Model Initialized 00z 04 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 05 July through 2359z 05 July

A ridge of high pressure is building in from south western Alaska and stretching eastward through the YKT. Meanwhile the weak low pressure system in the Gulf of Alaska continues to provide a source of clouds and precipitation pumping into southern and southeastern Alaska. A low pressure system on the Western edge of the Hudson Bay moves eastward while a trough of low pressure associated with it is the focus of a line of showers and thunderstorms along the southern borders of YKT and NWT and the northern regions of BC, AB and SK. Fires in northeast Alaska and fires in the northern half of YKT are providing thin to moderate smoke haze near these regions. Thin to moderate smoke haze from fires in eastern Russia enter the PABR area and are optically thin near PASC. Galena or Yukon flats remain possible targets.

Day-2 Forecast

Valid 1500z 06 July through 2359z 06 July

High pressure ridge persists with the ridge stretching from central AK through northern YKT, NWT and into southern SK. The persistent low pressure system in the Gulf of Alaska remains in place. The area of disturbed weather associated with a weakening trough produces a line of showers and thunderstorms from northern NWT south and through Yellowknife and from northwest SKT to southeast SKT. Galena or Yukon flats might make good targets if they can be flown before afternoon evening convective activity develops.

Day-3 Outlook

Valid 1500z 07 July through 2359z 07 July

The upper level and surface high pressure ridges are gradually weakening as they drift southeastward from the NWT/YKT border down into north central US. The low pressure system in the Gulf of Alaska continues to send bands of clouds and precipitation into southern and southeastern Alaska. A line of showers will approach the PAFA area from the south. If this area of clouds and precipitation can be avoided, excursions to PAGA, Nome and the North Slope may be possible. Note that clouds and rain will be impinging on the Seward peninsula from the west and on the Barrow peninsula from the North. An optically thin line of smoke haze from YKT and northeast Alaska wild fires will stretch from near Old Crow eastward through most of NWT.

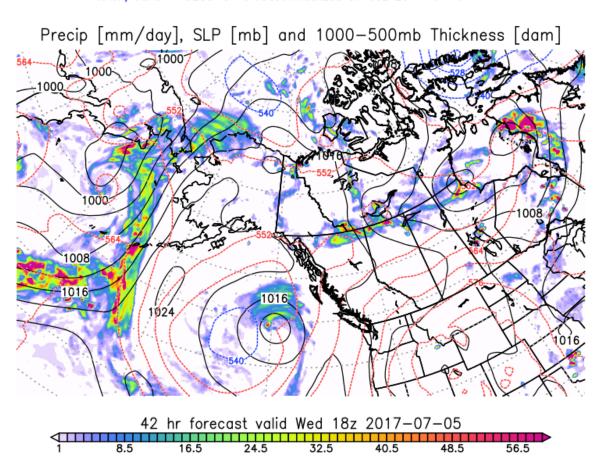
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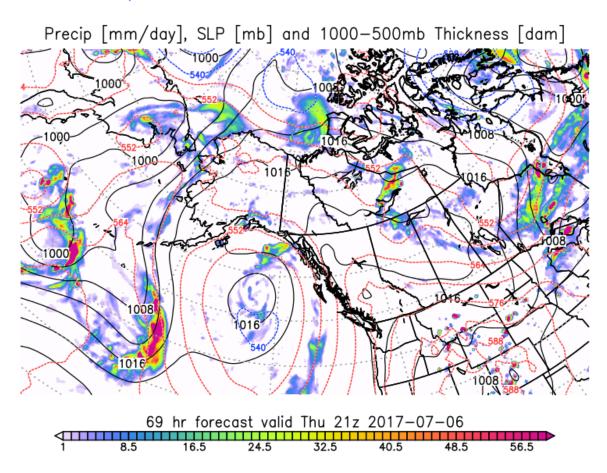
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NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-04



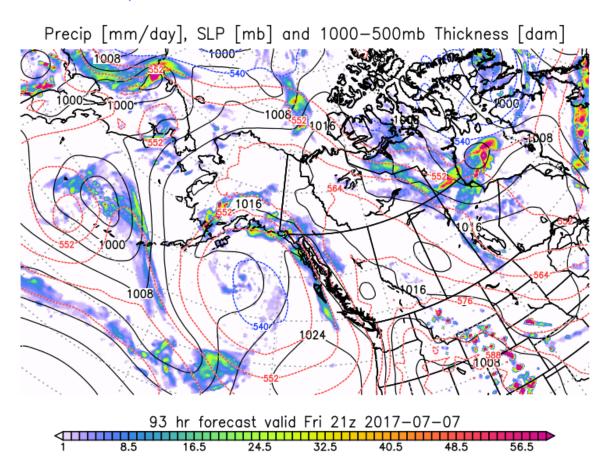
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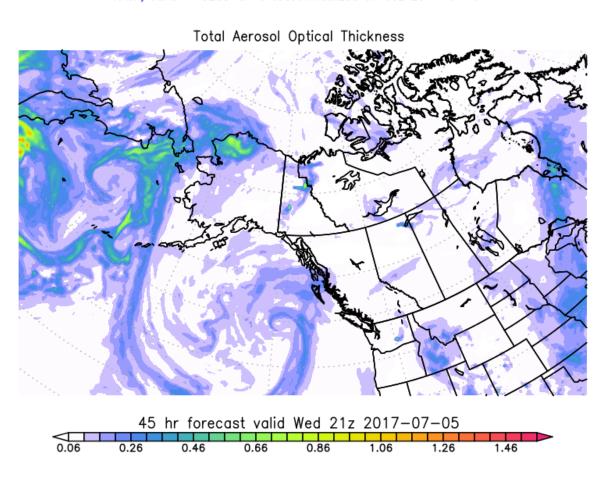
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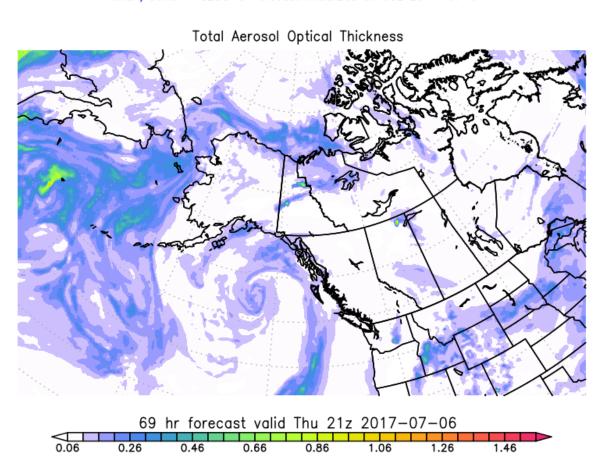
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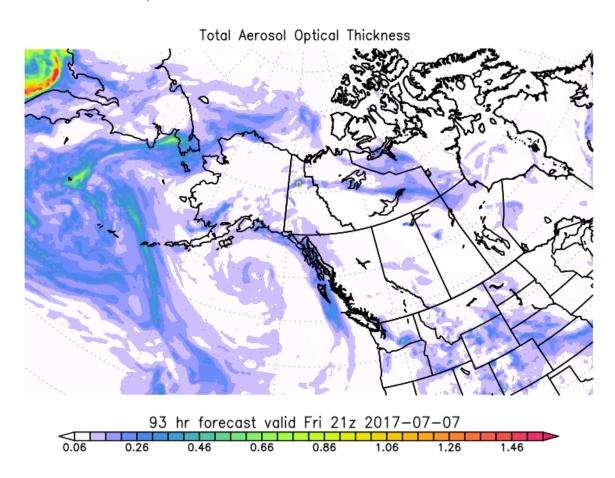
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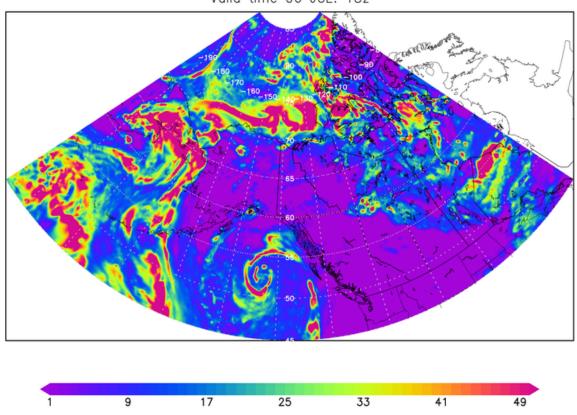
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NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-07-04



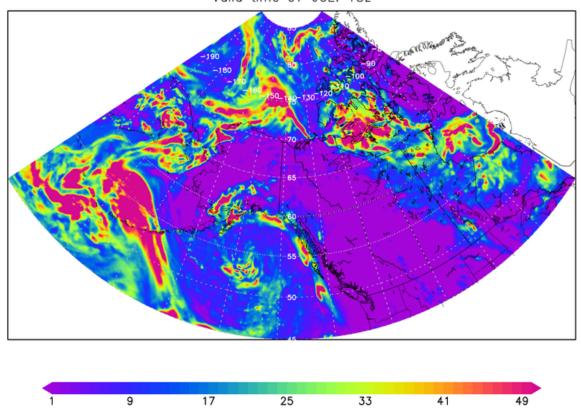
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GEOS Total Cloud Optical Depth Initial time 04 JUL. 00z Valid time 06 JUL. 18z



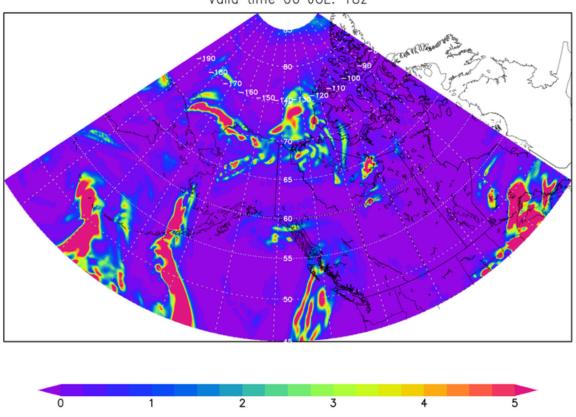
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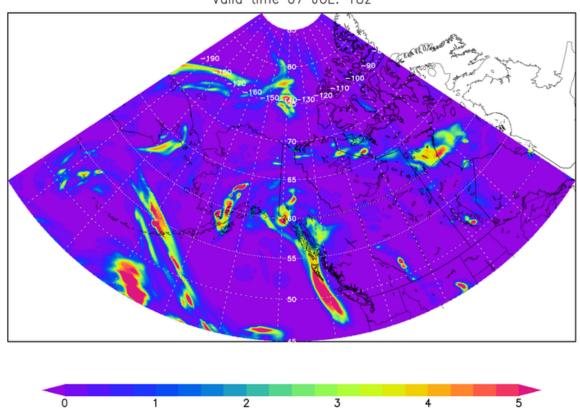
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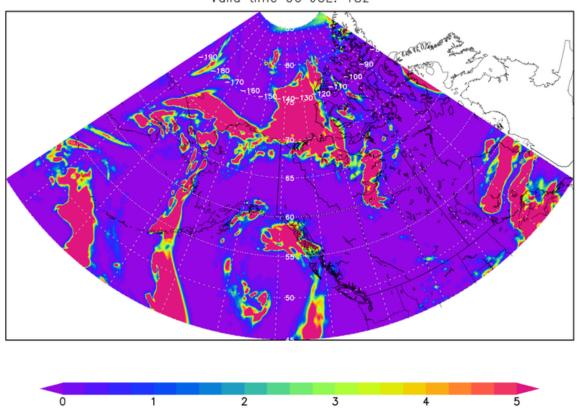
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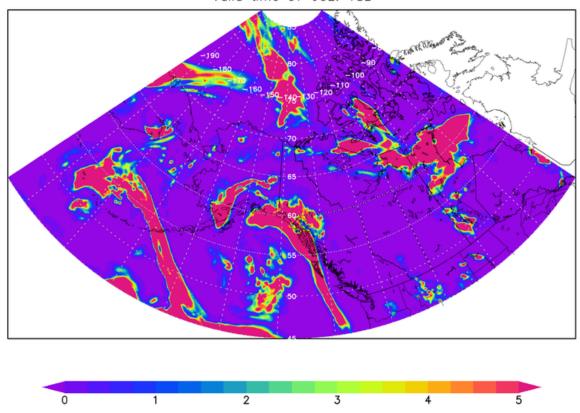
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GEOS Mid Cloud Optical Depth Initial time 04 JUL. 00z Valid time 06 JUL. 18z



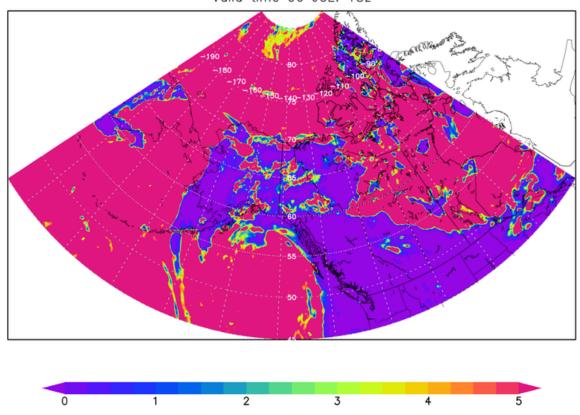
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