

**ABOVE Regional Weather Briefing**

Based on the GMAO GEOS meteorology and aerosol forecast fields

Model Initialized 00z 21 June 2017

*Note: Saskatchewan Province (SP), Alberta Province (AP), Manitoba Province (MP), Northwest Territory (NWT), Yukon Territory (YKT), Alaska (AK)*

**Day-1 Forecast****Valid 1500z 22 June through 2359z 22 June**

A 994hPa low pressure system will be located over central MP, while another upper low pressure system is seen over northern SP. This will generally spell poor weather conditions over much of these two provinces during the day Thursday. Further west of longitude 110W and up into the YKT and NWT, weak high pressure and fairer weather conditions will prevail. Scattered showers and thunderstorms are possible in the southeast quadrant of the YKT associated with a weak surface trough.

Multi-layer clouds and precipitation are assured near Saskatoon station. Almost all of SP will see broken to overcast skies. Potential clear to mainly clear areas will be confined to AB and NWT west of about 112W. A small square of clear sky conditions may be possible during this time from the US border with MP up to about 50N. Sky conditions are forecast to be mainly clear near Yellowknife station.

Smoke/aerosol: Optically thin areas over and northeast of Reindeer Lake. Multiple fires interior YKT.

**Day-2 Forecast****Valid 1500z 23 June through 2359z 23 June**

On Friday, low pressure is located over east-central SP into west-central MP. Widespread heavier showers and thunderstorms are forecast to the north and northwest of Lake Winnipeg. Further west and north in Canada will be under the influence of a more tranquil weather pattern. Widely scattered showers and thunderstorms may form along the border between the NWT and the YKT. The GEOS model also predicts an area of precipitation in the southeast quadrant of the NWT.

Clear sky targets are possible generally south of Saskatoon, down to the US border. Another regional mainly clear area may be bound by 55-58N and 122-120W. Further north towards Yellowknife, transient hours of partly cloudy conditions will prevail to the north and west of Great Slave Lake. The route along Yellowknife to Inuvik will have some segments being mainly clear, but more clouds between Bear Lake and Inuvik.

Smoke/aerosol: None except interior YKT/far west NWT

**Day-3 Outlook****Valid 1500z 24 June through 2359z 24 June**

On Saturday no organized weather systems of note in the mission region. Precipitation will be generally light and scattered with the greatest chances over central SP, northwest of Bear Lake and along the NWT/YKT border. Clearest skies southern SP, AP...and again west of Yellowknife. Although west of Yellowknife on Saturday, there could be some smoke coming in from NWT fires.

---

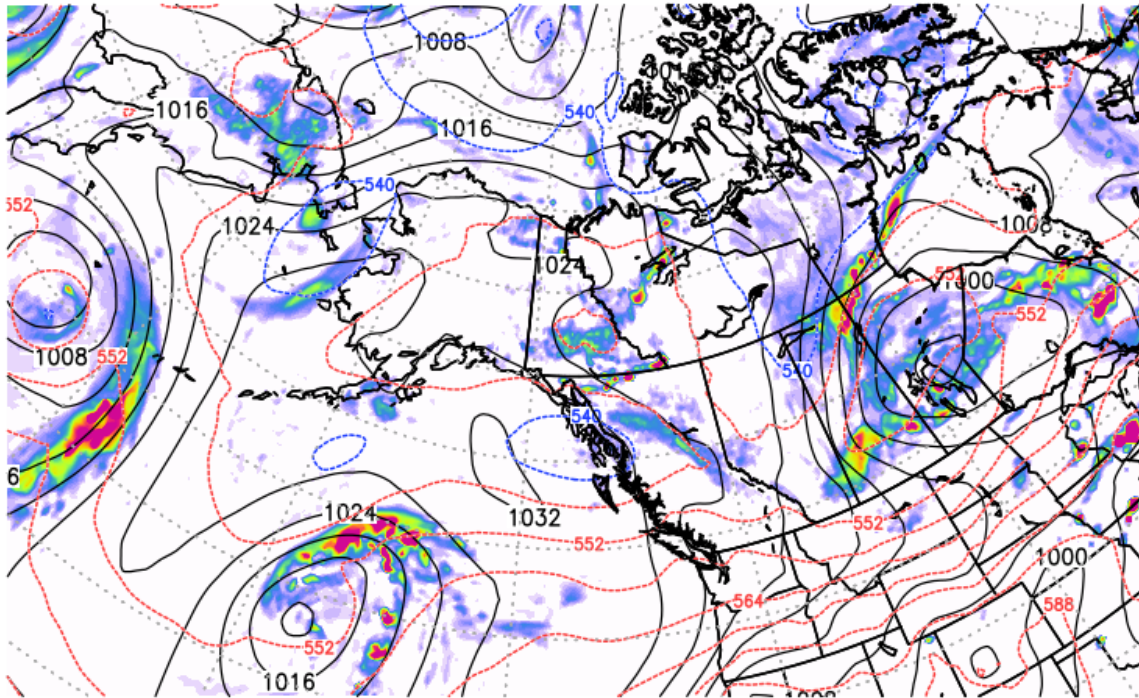
Gary Partyka

Global Modeling and Assimilation Office – GSFC

fp.8precis.sfc.042.above\_lg.png

NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-06-21

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

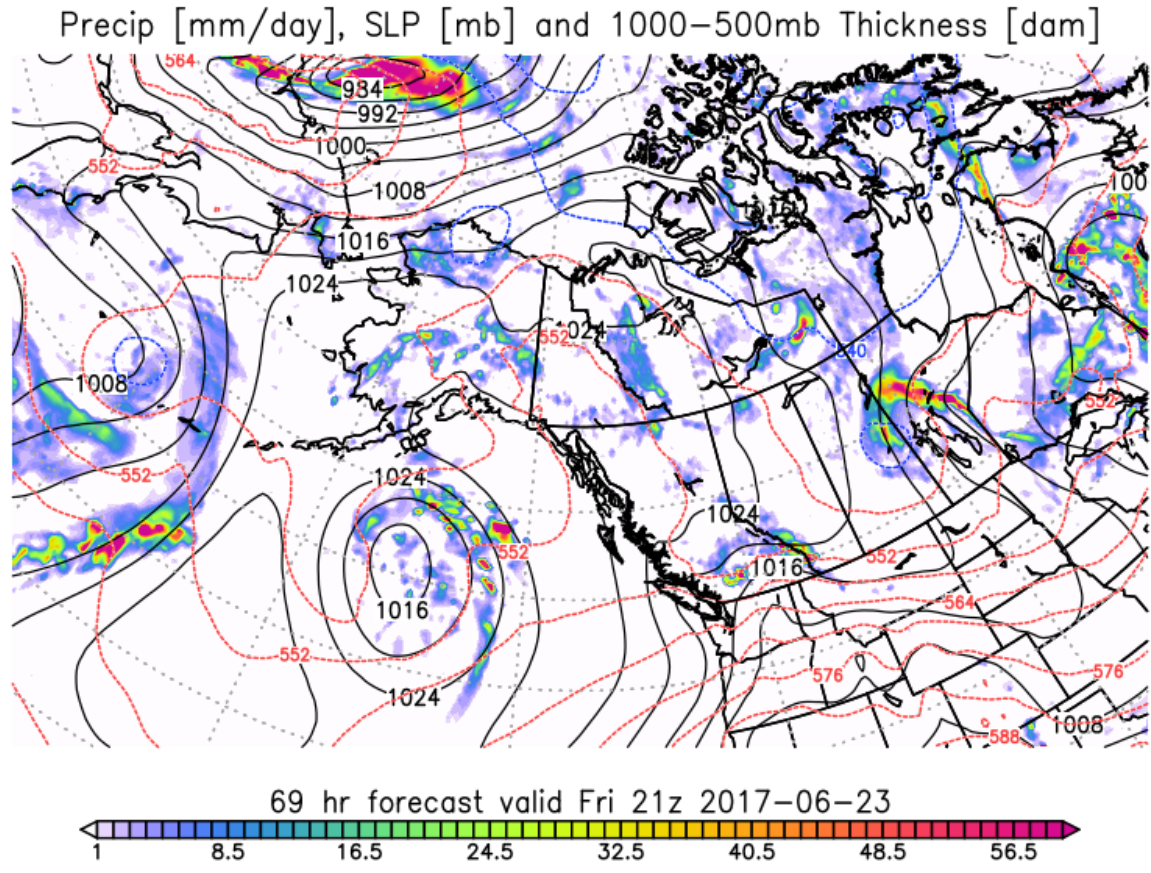


42 hr forecast valid Thu 18z 2017-06-22



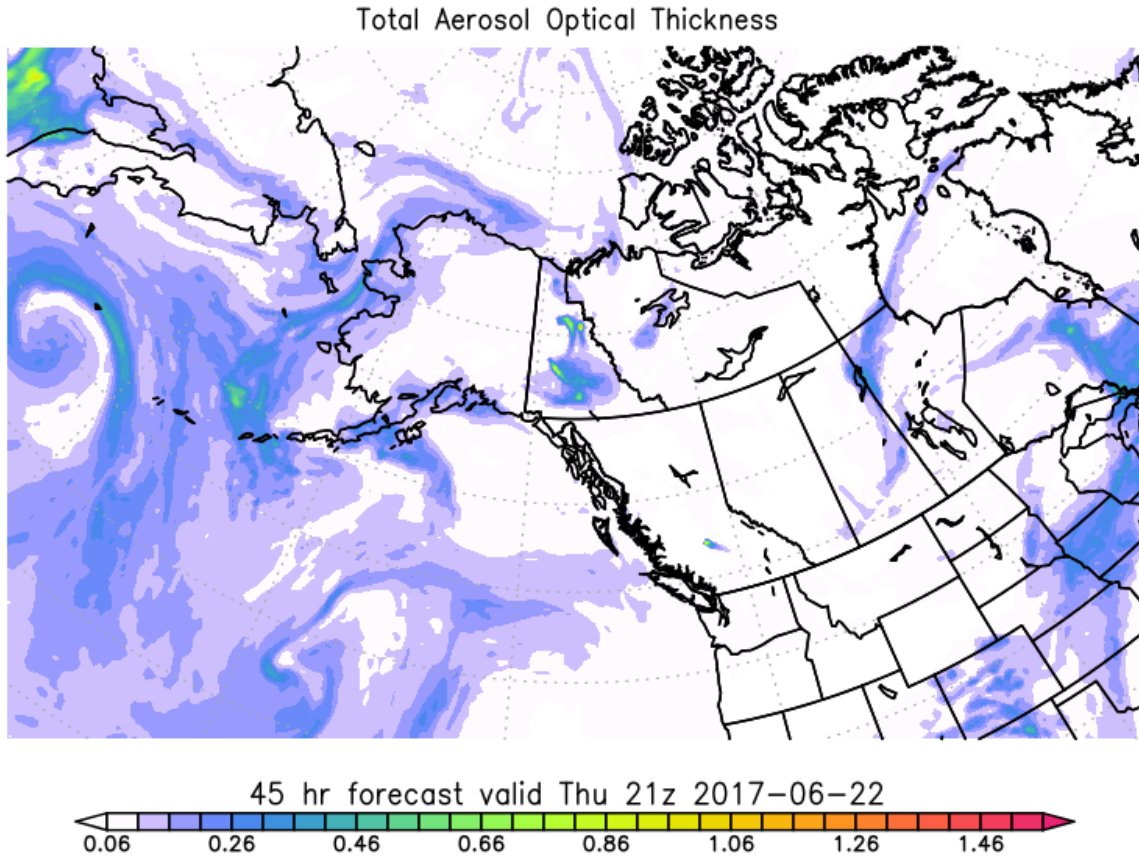
fp.8prec.sfc.069.above\_lg.png

NASA/GMAO – GEOS-5 Forecast Initialized on 00z 2017-06-21



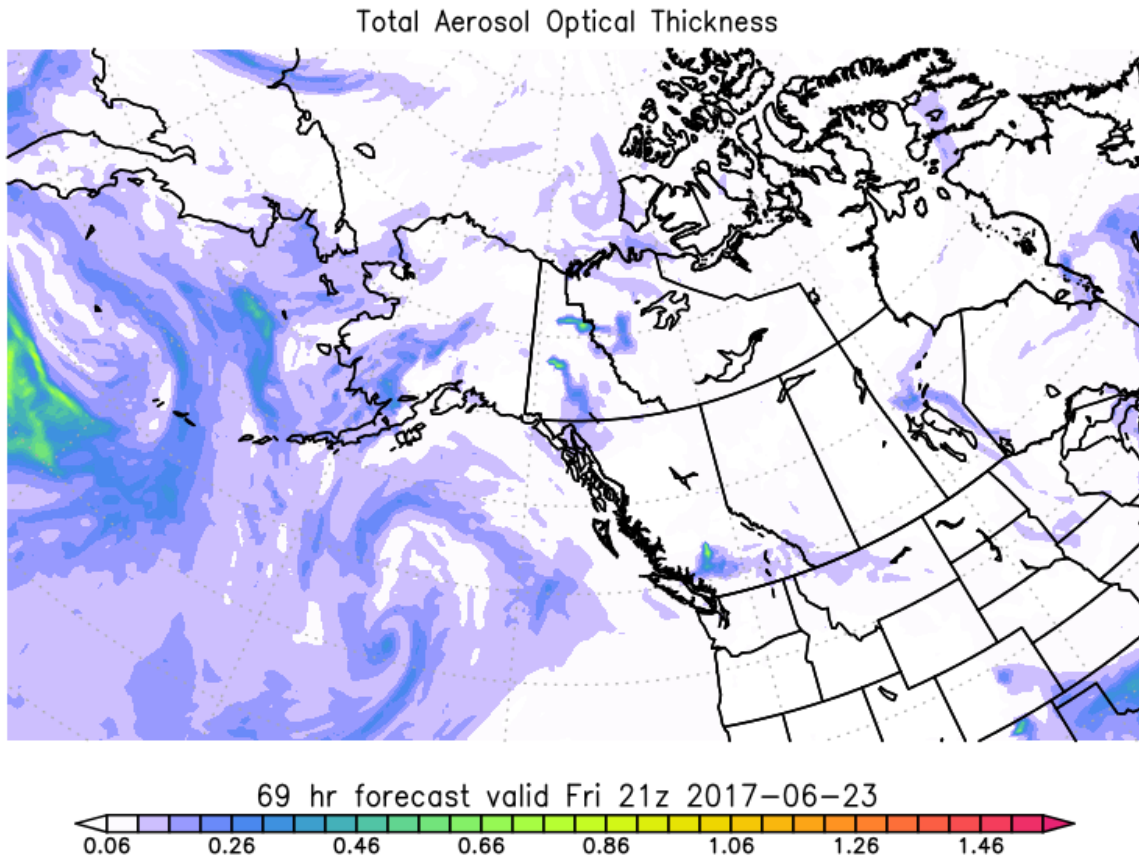
f516\_fp.7totaot.045.above\_lg.png

NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-06-21

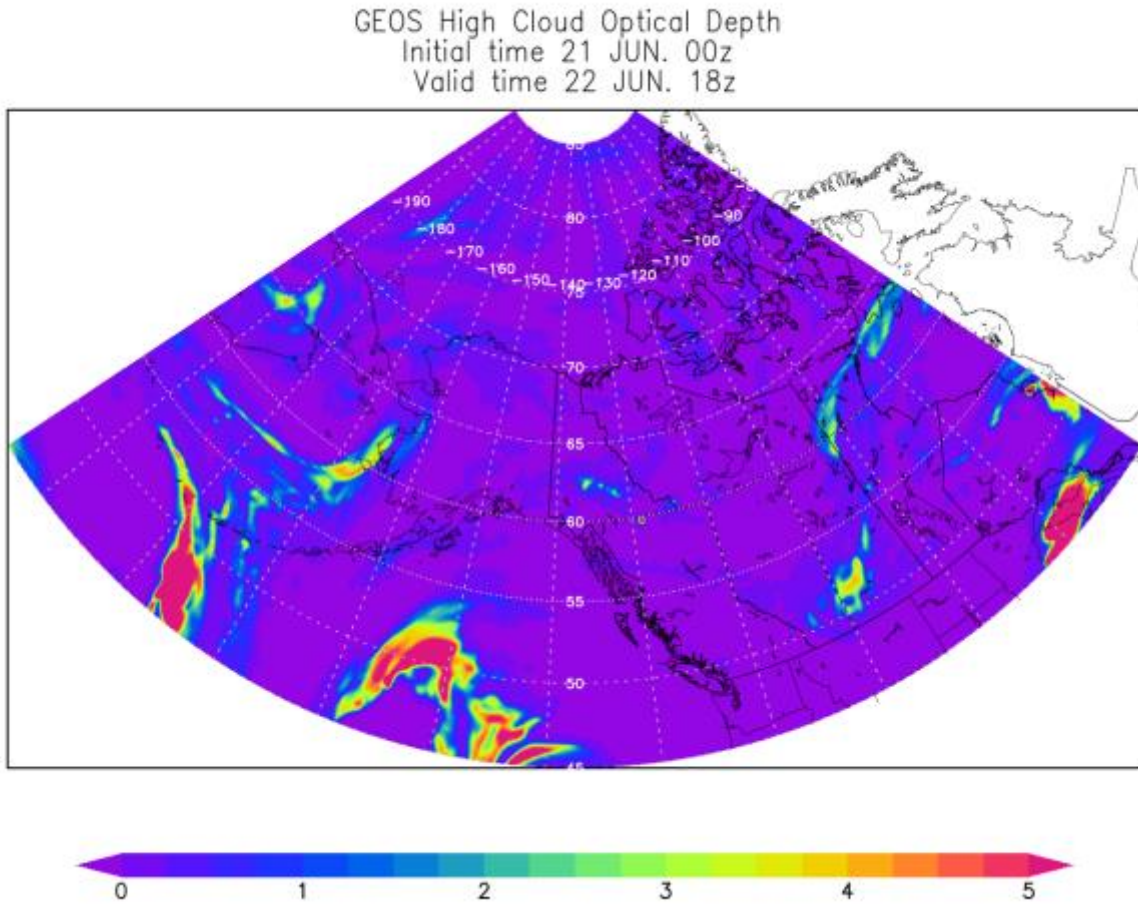


f516\_fp.7totaot.069.above\_lg.png

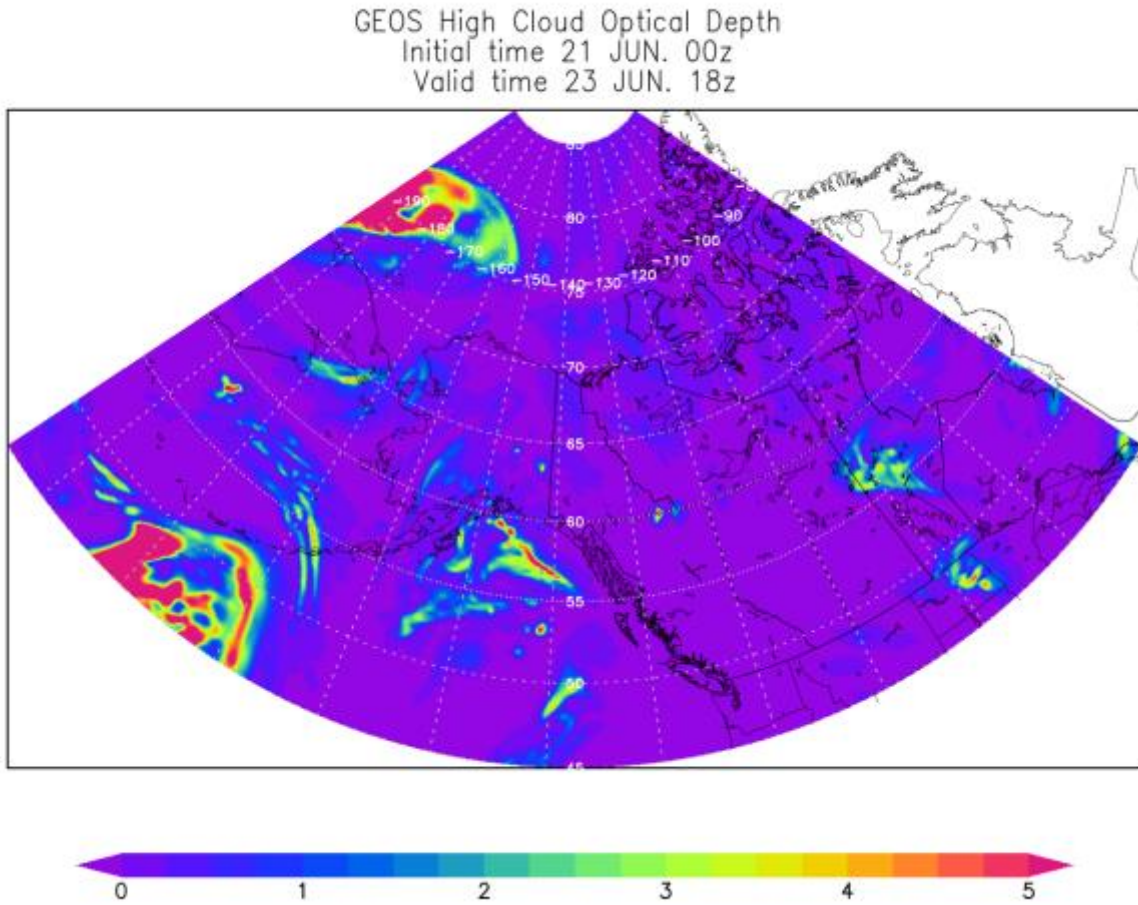
NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2017-06-21



ABOVE\_High\_Cloud\_Optical\_Depth\_IT\_00z21JUN\_VT\_18z22JUN.png

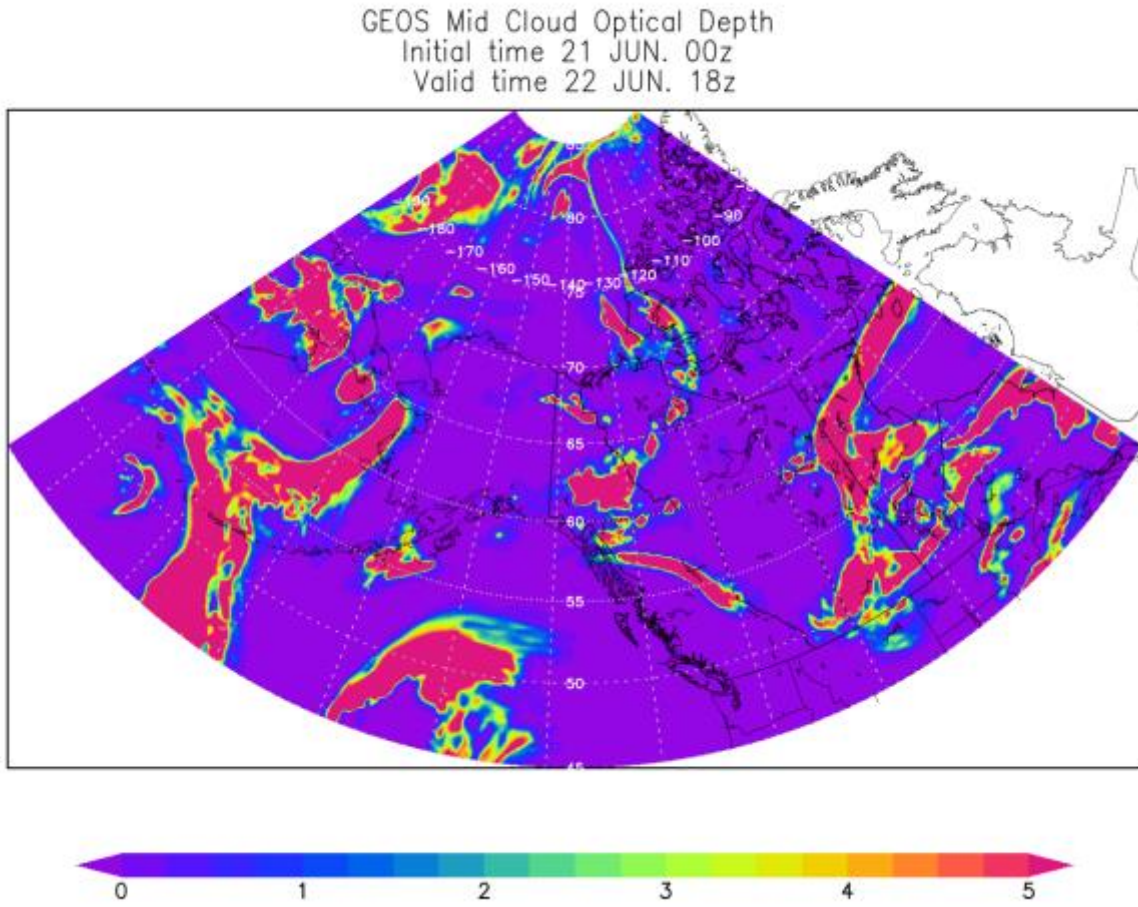


ABOVE\_High\_Cloud\_Optical\_Depth\_IT\_00z21JUN\_VT\_18z23JUN.png

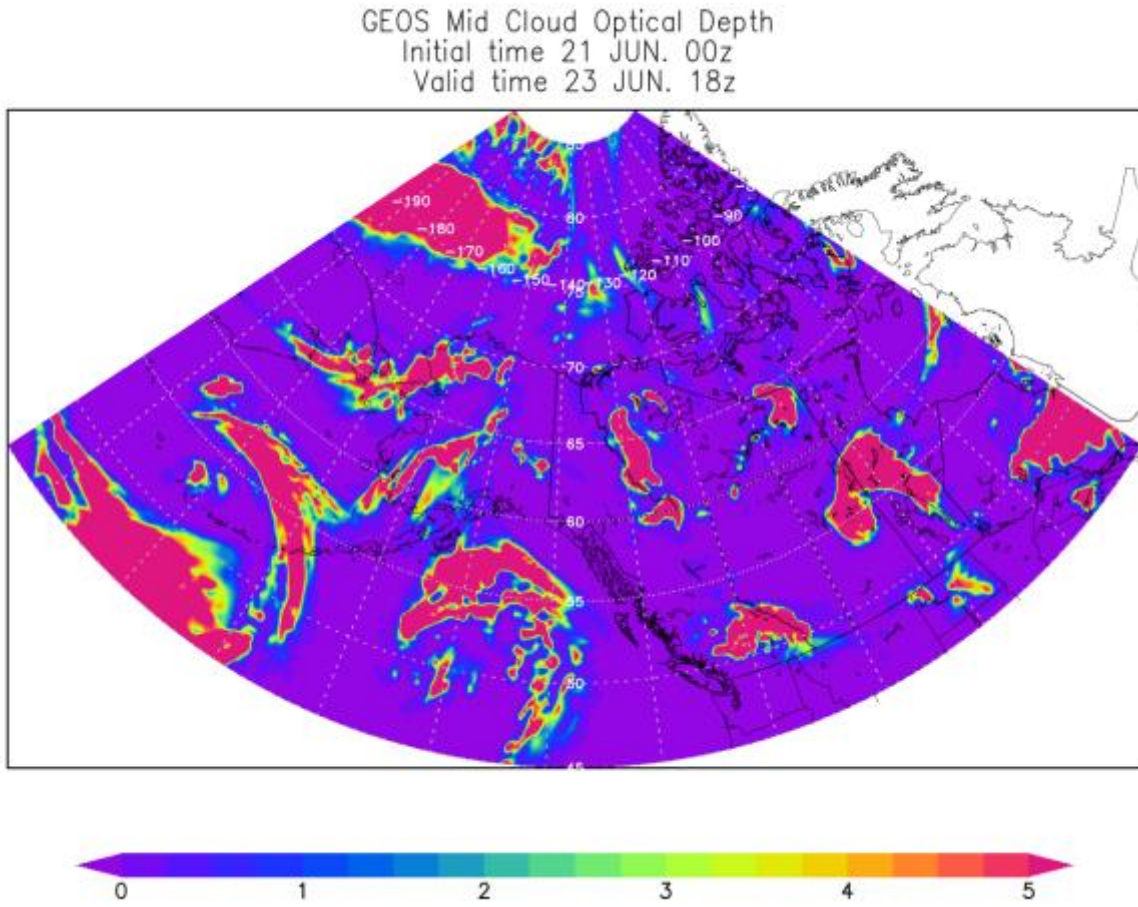




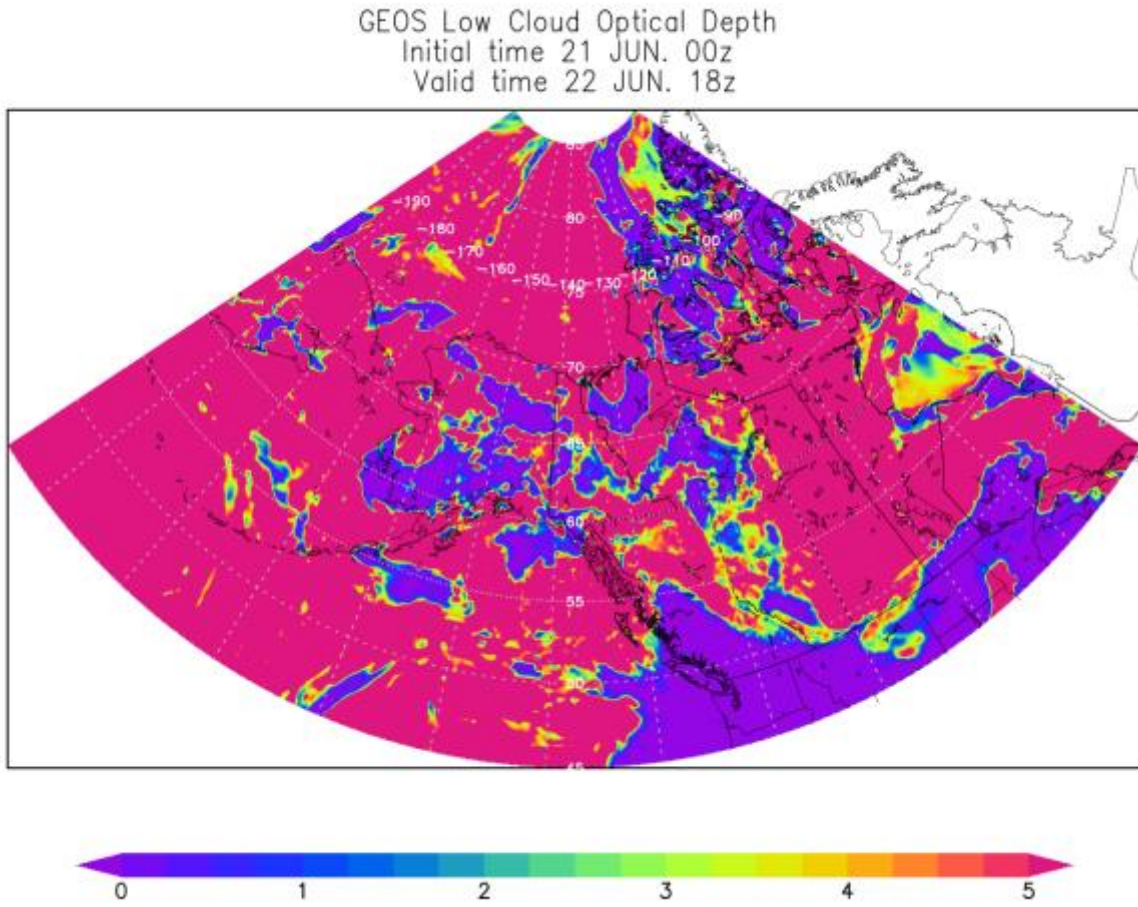
ABOVE\_Mid\_Cloud\_Optical\_Depth\_IT\_00z21JUN\_VT\_18z22JUN.png



ABOVE\_Mid\_Cloud\_Optical\_Depth\_IT\_00z21JUN\_VT\_18z23JUN.png



ABOVE\_Low\_Cloud\_Optical\_Depth\_IT\_00z21JUN\_VT\_18z22JUN.png



ABOVE\_Low\_Cloud\_Optical\_Depth\_IT\_00z21JUN\_VT\_18z23JUN.png

