

Thursday September 25 weather briefing for ARISE, Fairbanks Alaska mission region

** target area of the day: satellite underpass tracks in the area of 72-76N and 125-150W **

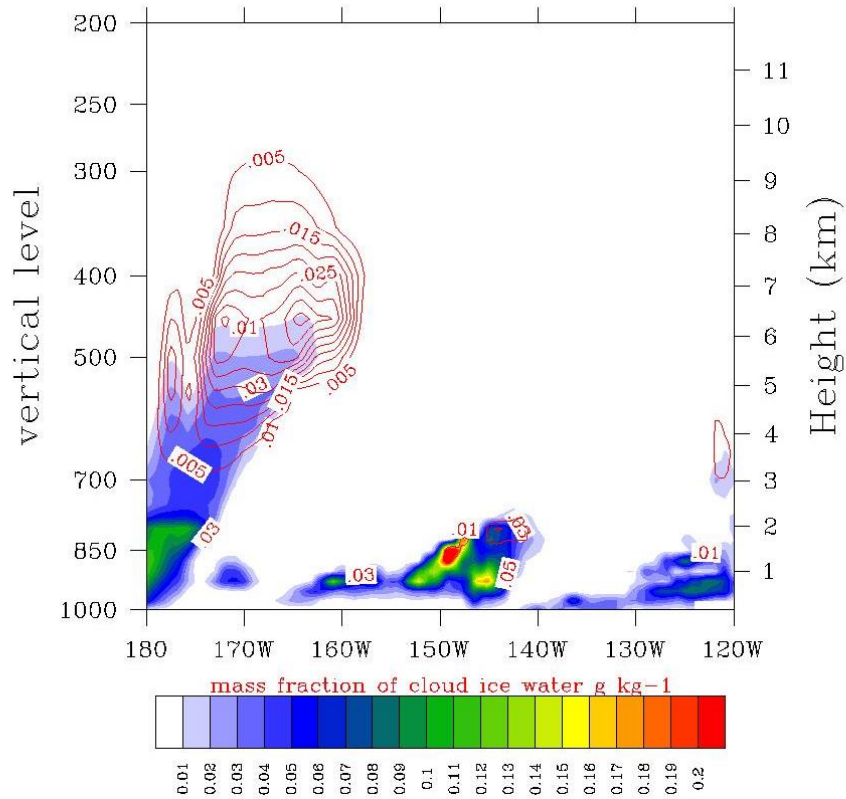
Current synoptic overview and short range forecast for the next flight day, Friday Sept. 26:

The upper level flow continues to be mostly westerly in the northern part of the state but a combination of short wave features moving through and the advance of a frontal system over the Alaska peninsula is causing southerly flow and warm air advection in the south eastern region. Occasional cloudiness at the mid level and significant high clouds are forecast for the northern half of the state. North of Barrow and through to Banks Island is relatively cloud free at the high levels. At the surface a ridge of high pressure is squeezed and stretches from west to east with the 1032 hPA center over the Beaufort Sea north of Barter Island. Meanwhile a frontal system over the Alaska peninsula and Gulf of Alaska advances.

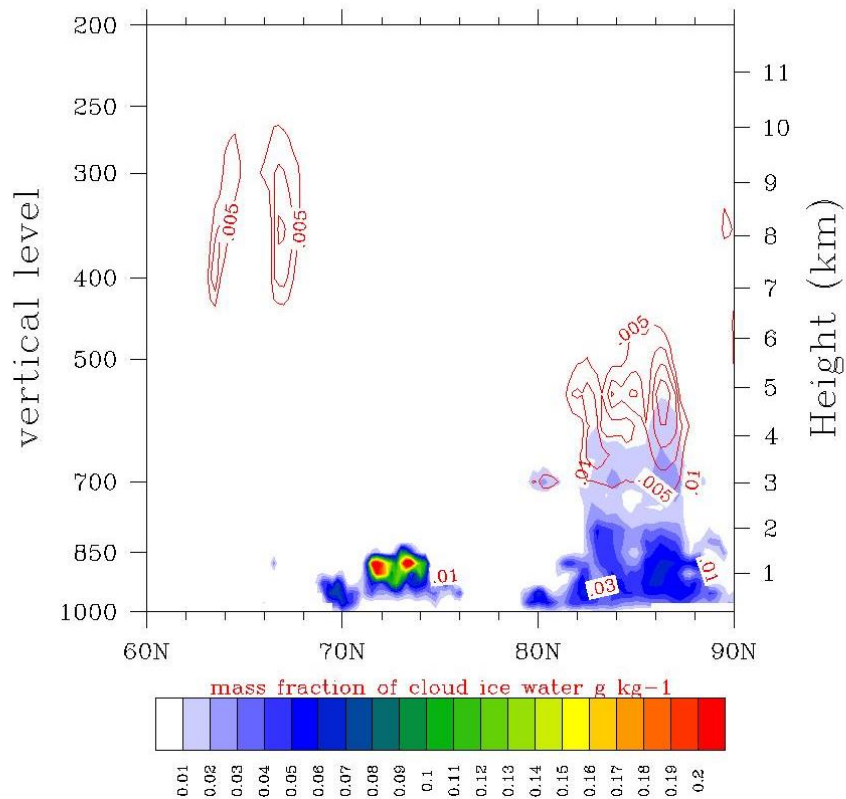
Outlook for succeeding flight day, Saturday Sept. 27:

The dominant features in the Saturday forecast are an approaching low pressure system now in the Chukchi Sea, High pressure centered over Banks Island moving eastward, and the low and frontal system in the Gulf of Alaska near Kodiak Island. Although the forecast calls for significant high clouds, there is a dry slot between the frontal band from the southern system and the frontal band from the northern system. The mid level clouds are present in interior Alaska near Fairbanks and southward but there is a large area between Fairbanks and Banks Island that is relatively free of mid level clouds.

Init-20140925 00Z Valid-20140926 1800Z



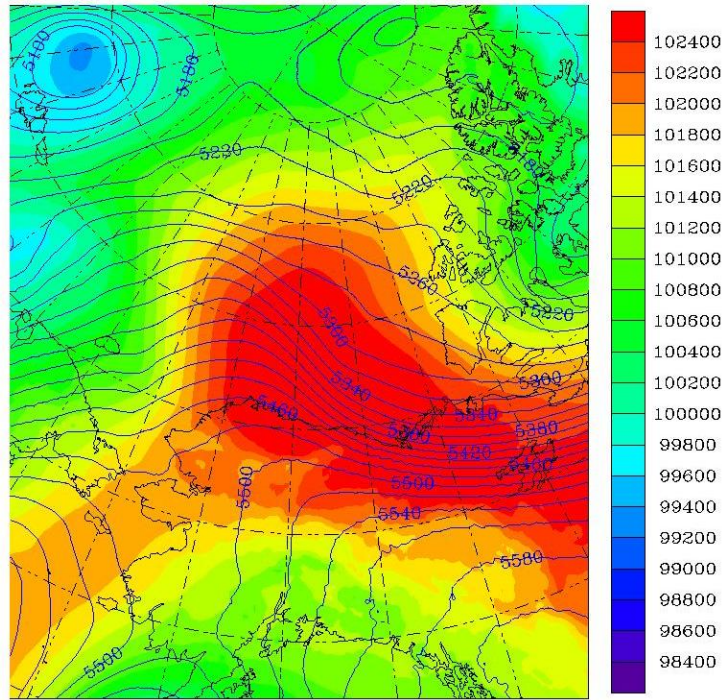
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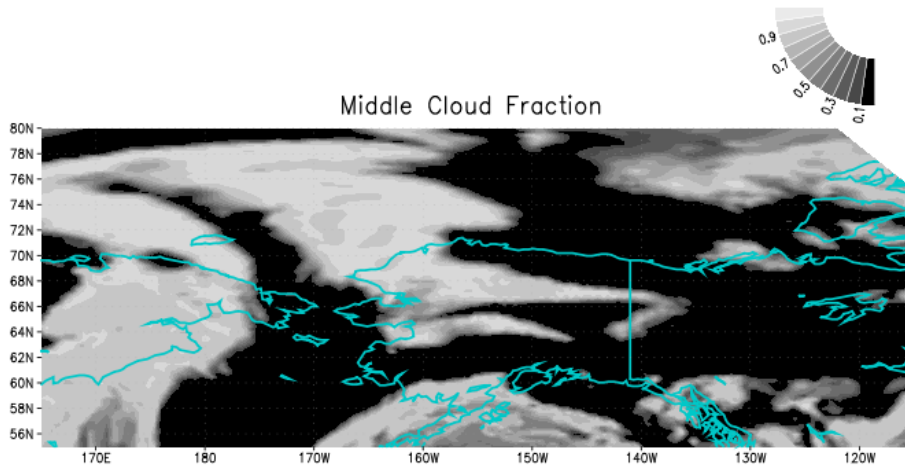
sea level pressure

Pa

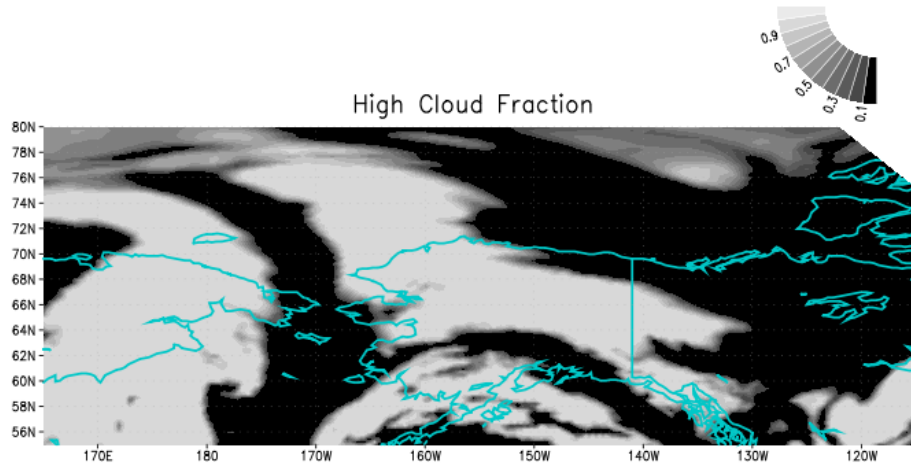


height at 500 hPa m

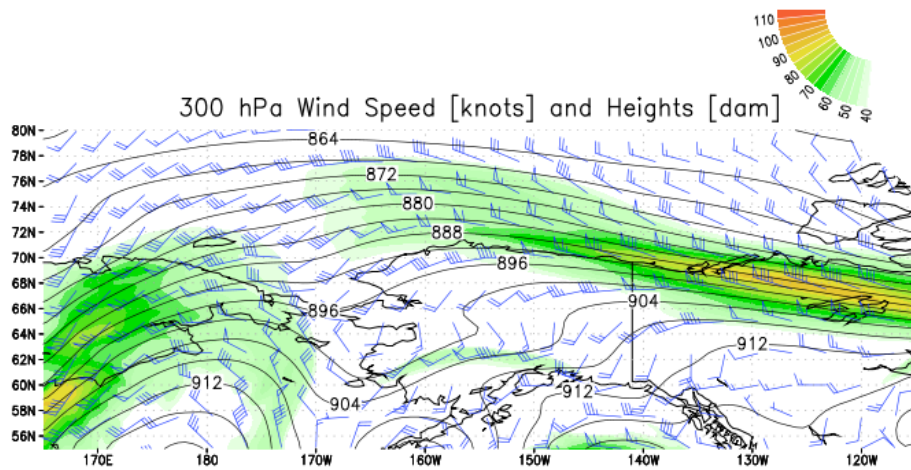
NASA/GMAO - GEOS-5 Forecast Initialized on 00z 2014-09-25



45 hr forecast valid Fri 21z 2014-09-26



45 hr forecast valid Fri 21z 2014-09-26



45 hr forecast valid Fri 21z 2014-09-26

