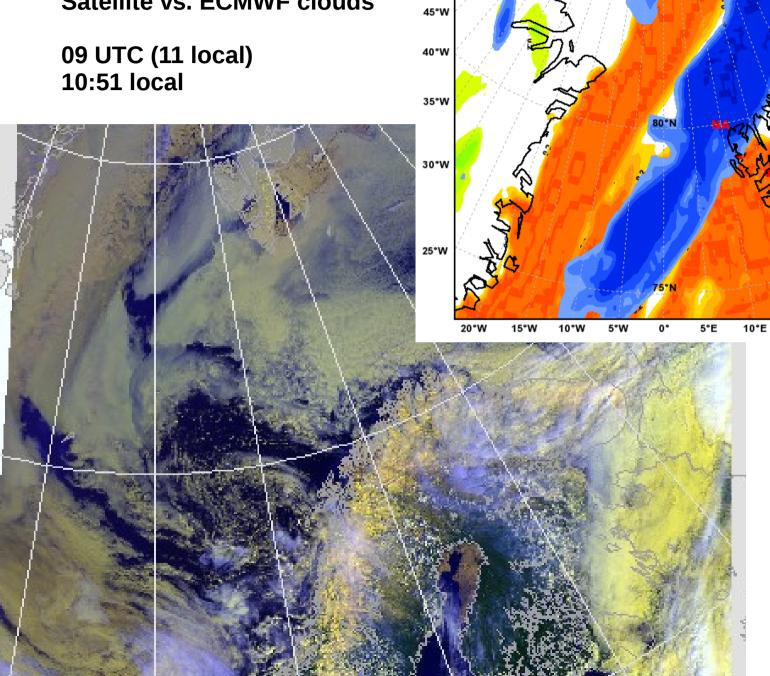


Weather Forecast Wednesday May 05, 2010

Marc Rautenhaus, DLR/IPA



Satellite vs. ECMWF clouds



Total Cloud Cover
5valid: Wed, 05 May 2010, 09 UTC (init: 20100505 00 UTC +009 h)

55°W

45°W

40°W

30°W

40°E

40°A

40°E

40°A

40°E

40°A

40°B

15°E

20°E

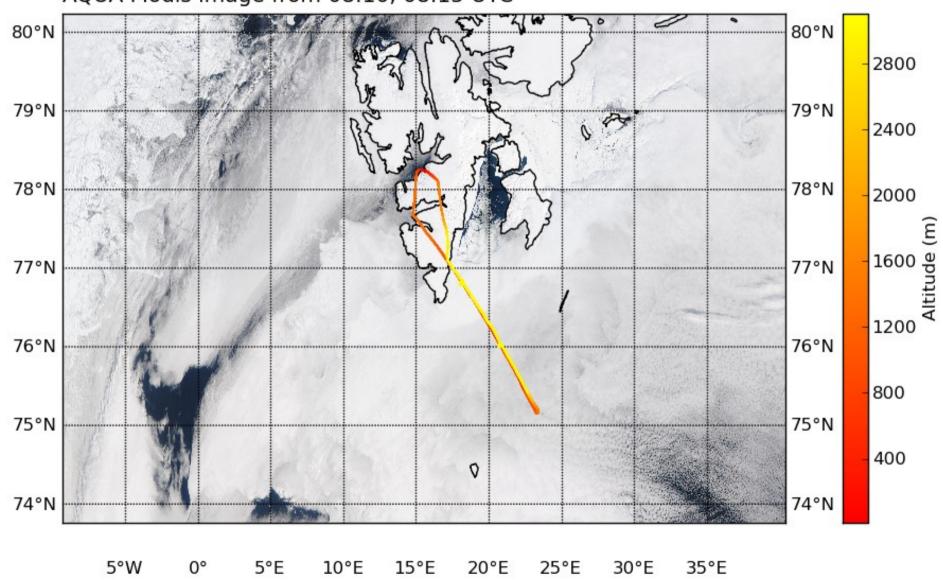
25°E

35°E

30°E

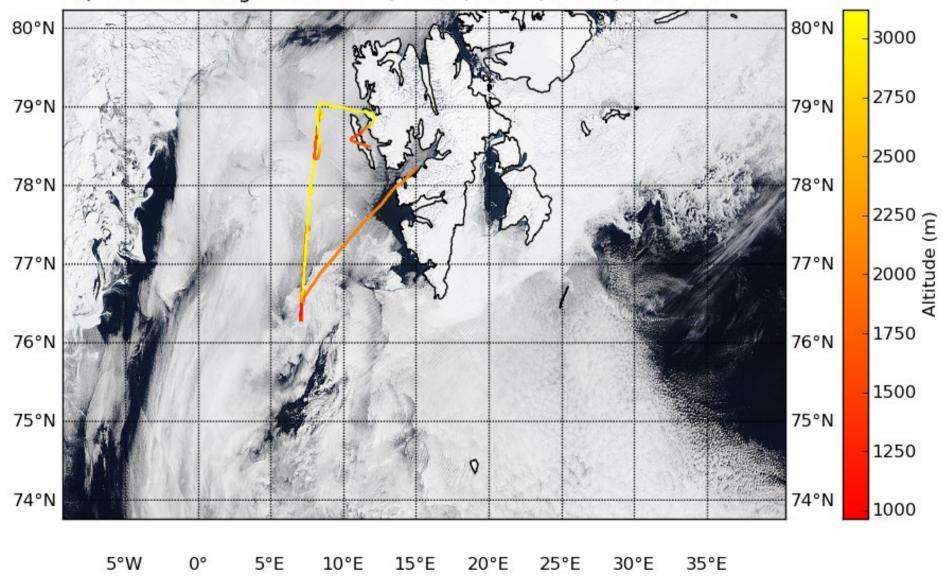
Flight track Wednesday, May 05.

POLAR 5 flight from 2010/05/05, 07:35 UTC to 10:49 UTC AQUA Modis image from 08:10, 08:15 UTC



Flight track Tuesday, May 04.

POLAR 5 flight from 2010/05/04, 08:20 UTC to 13:33 UTC AQUA Modis image from 09:05, 09:10, 10:45, 10:50, 12:25 UTC





Thursday to Sunday



High pressure system pushed southeastward by approaching cyclone.

Mean Sea Level Pressure

30°W

25°W

80°W

75°W

70°W

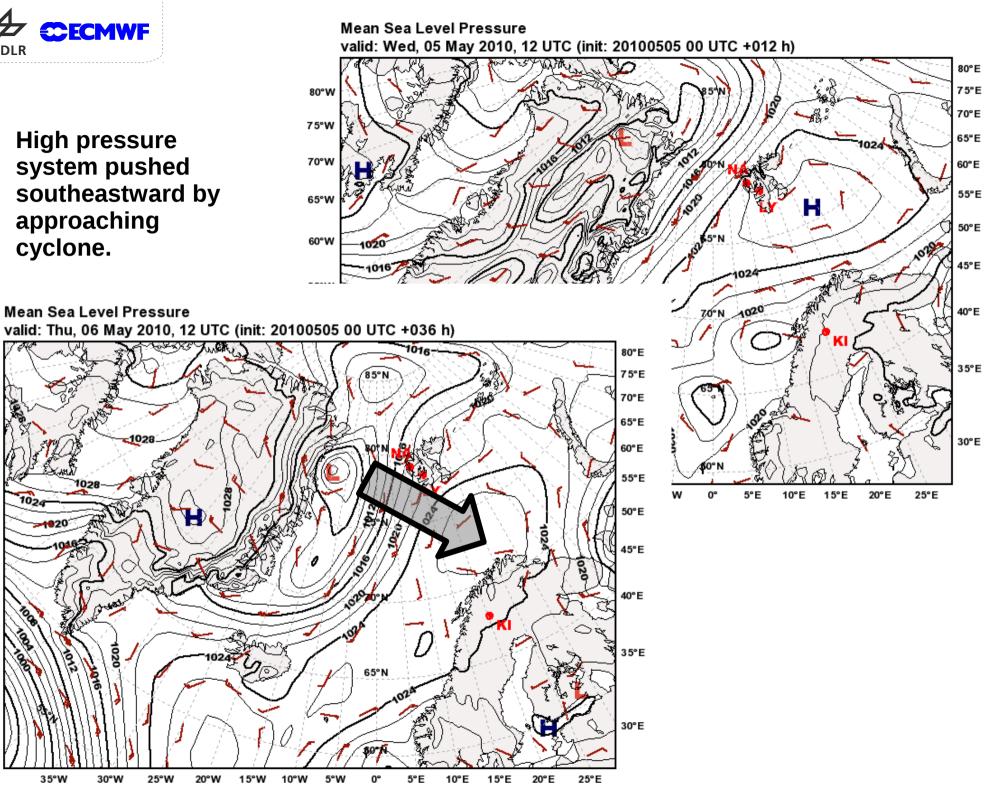
65°W

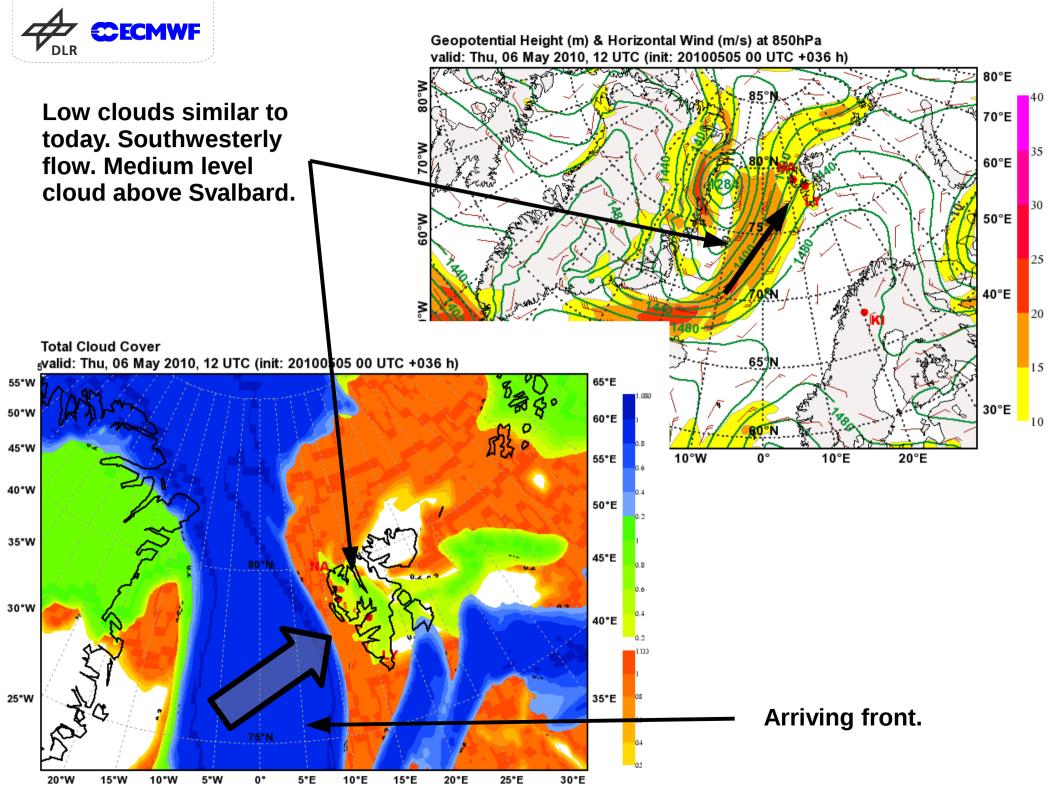
60°W

55°W

50°W

45°W







80°W

75°W

65°W

60°W

55°W

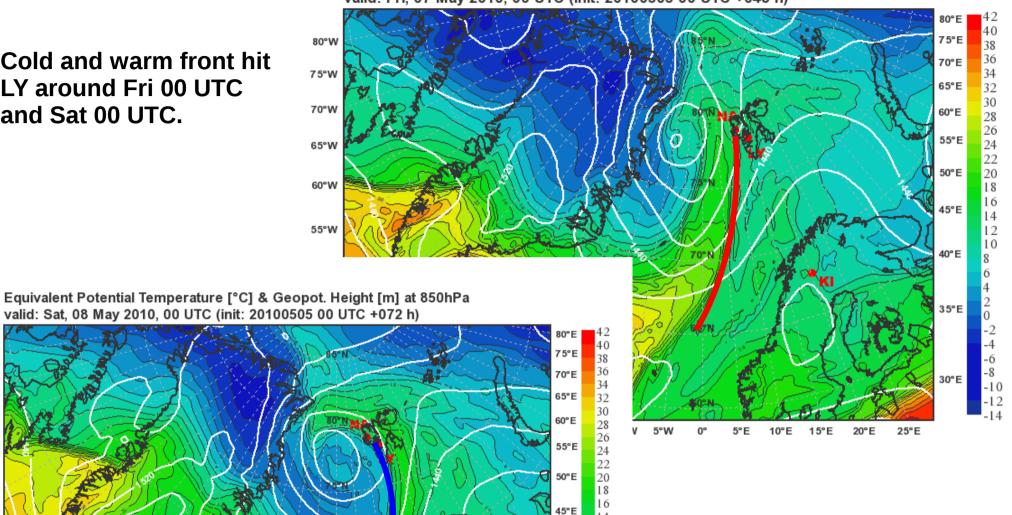
50°W

45°W

30°W

Cold and warm front hit LY around Fri 00 UTC and Sat 00 UTC.

Equivalent Potential Temperature [°C] & Geopot. Height [m] at 850hPa valid: Fri, 07 May 2010, 00 UTC (init: 20100505 00 UTC +048 h)



40°E

35°E

30°E



Total Precipitation [mm]

15°W

10°W

55°W

50°W

45°W

40°W

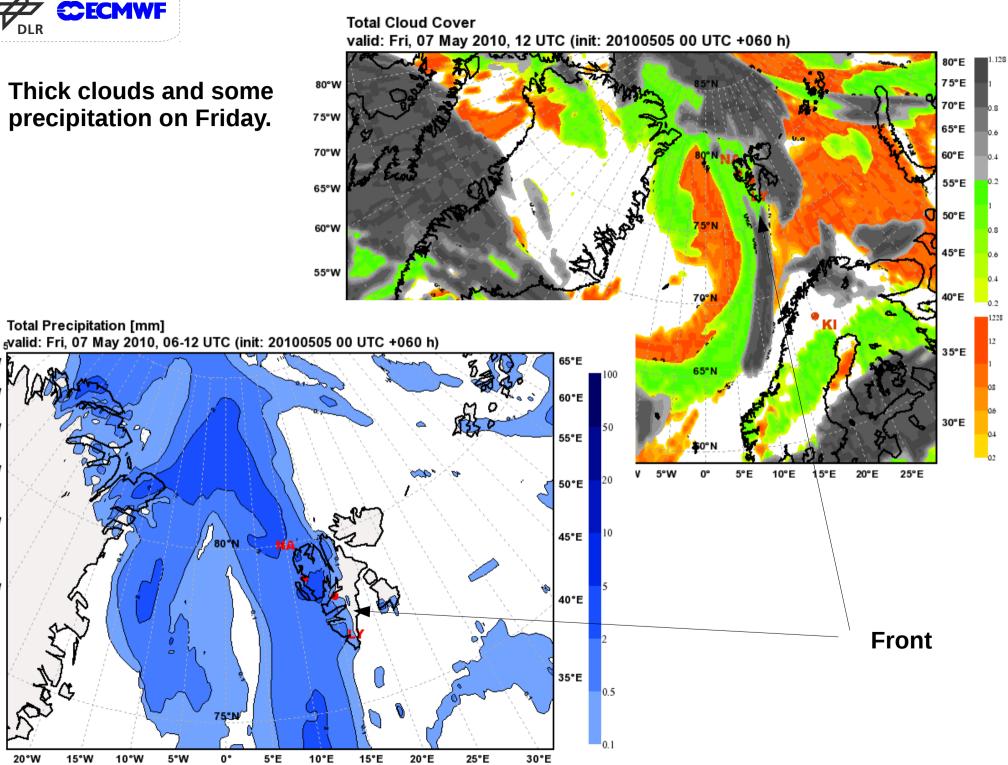
35°W

30°W

25°W

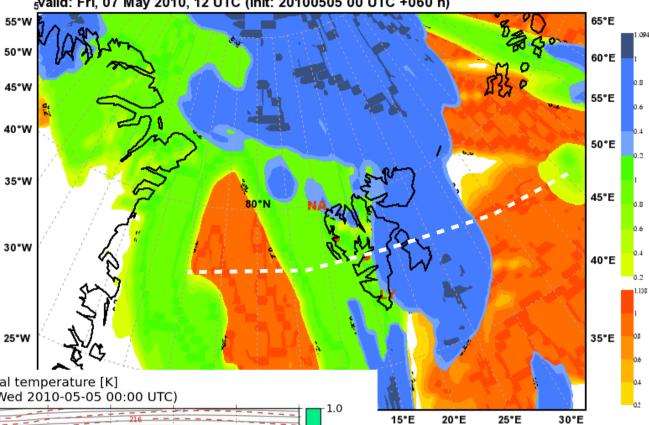
Thick clouds and some precipitation on Friday.

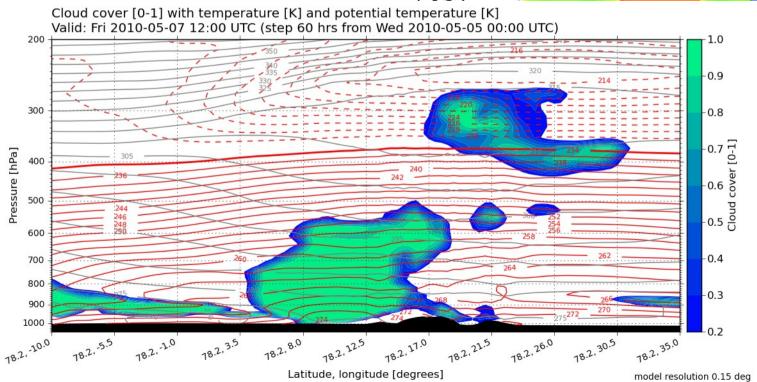
75°N













Saturday: Cyclone transported southeastward by upper level flow.

Mean Sea Level Pressure

30°W

80°W

75°W

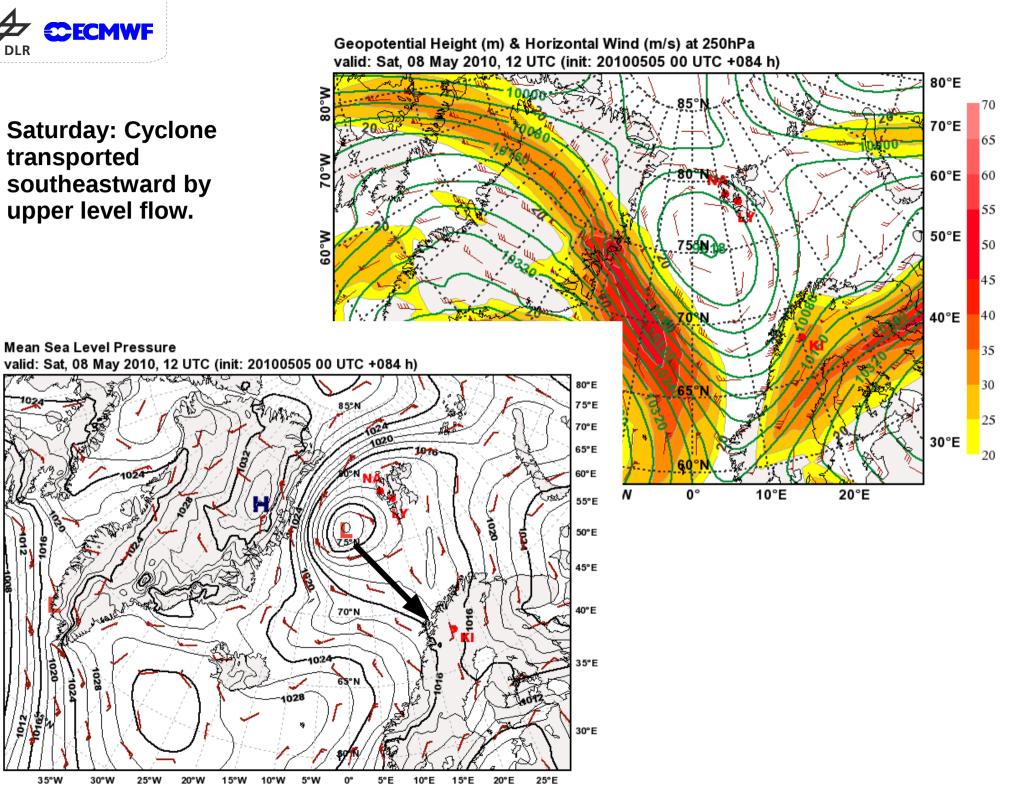
70°W

65°W

60°W

55°W

45°W





Sunday: Merges with another cyclone over Scandinavia, moves northeastward.

Mean Sea Level Pressure

30°W

75°W

70°W

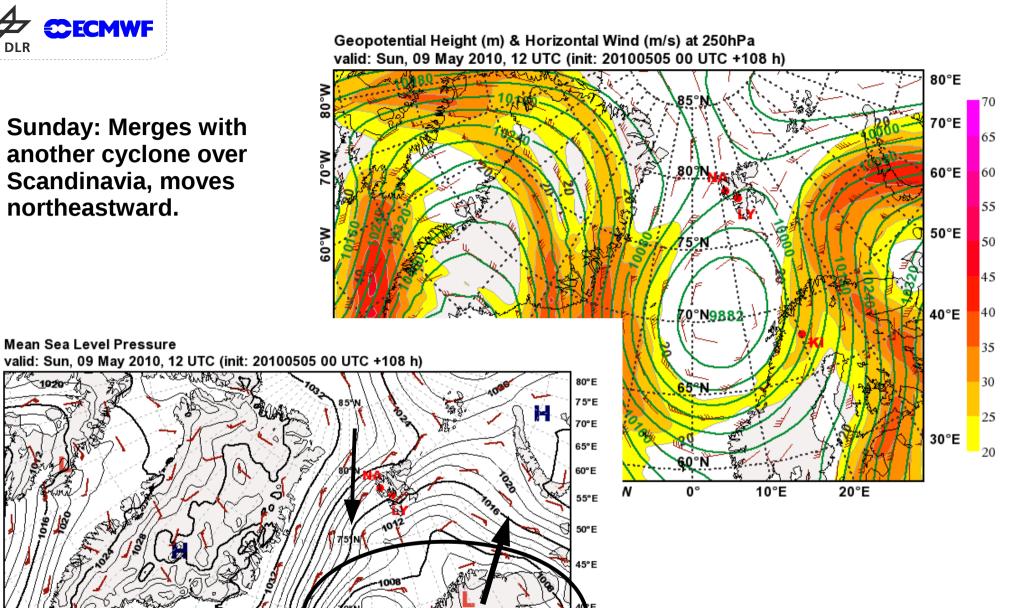
65°W

60°W

55°W

50°W

45°W



Northerly winds west of Svalbard.



Mean Sea Level Pressure

75°W

65°W

60°W

55°W

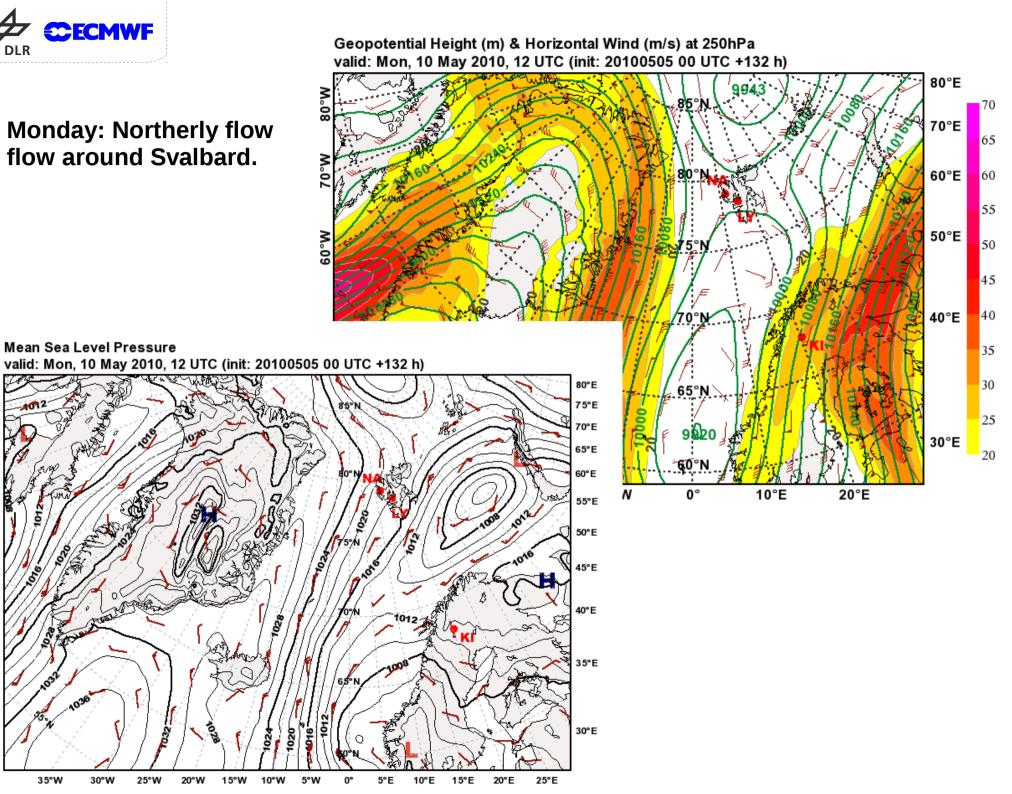
45°W

35°W

30°W

25°W

Monday: Northerly flow flow around Svalbard.





Saturday/Sunday: Still very humid, many clouds.

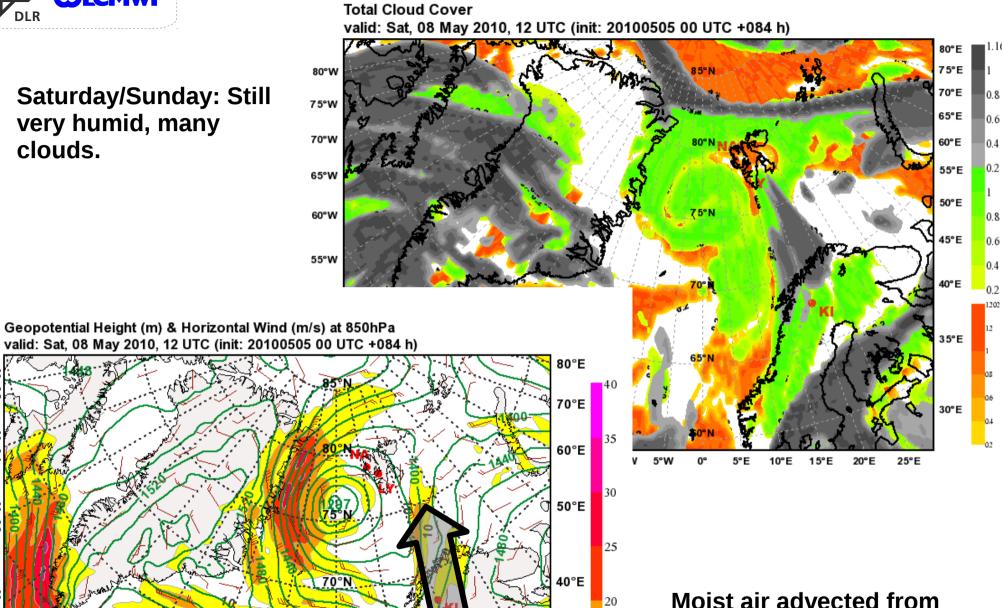
30°W

20°W

10°W

10°E

20°E



15

30°E

Moist air advected from the south.



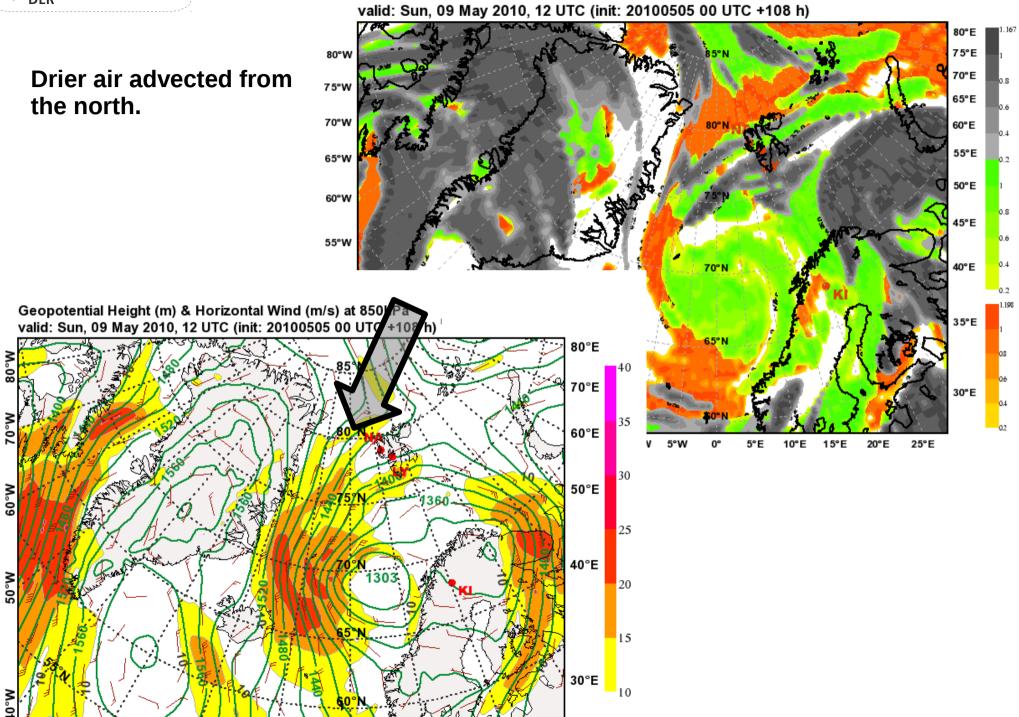
30°W

20°W

10°W

10°E

20°E



Total Cloud Cover



30°W

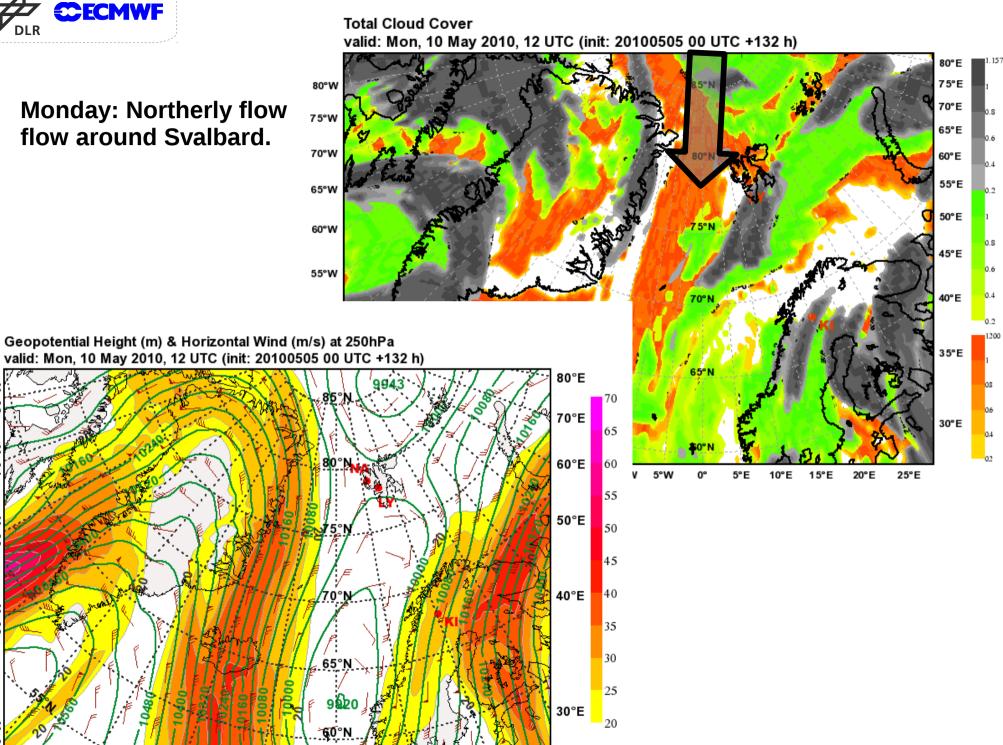
20°W

10°W

10°E

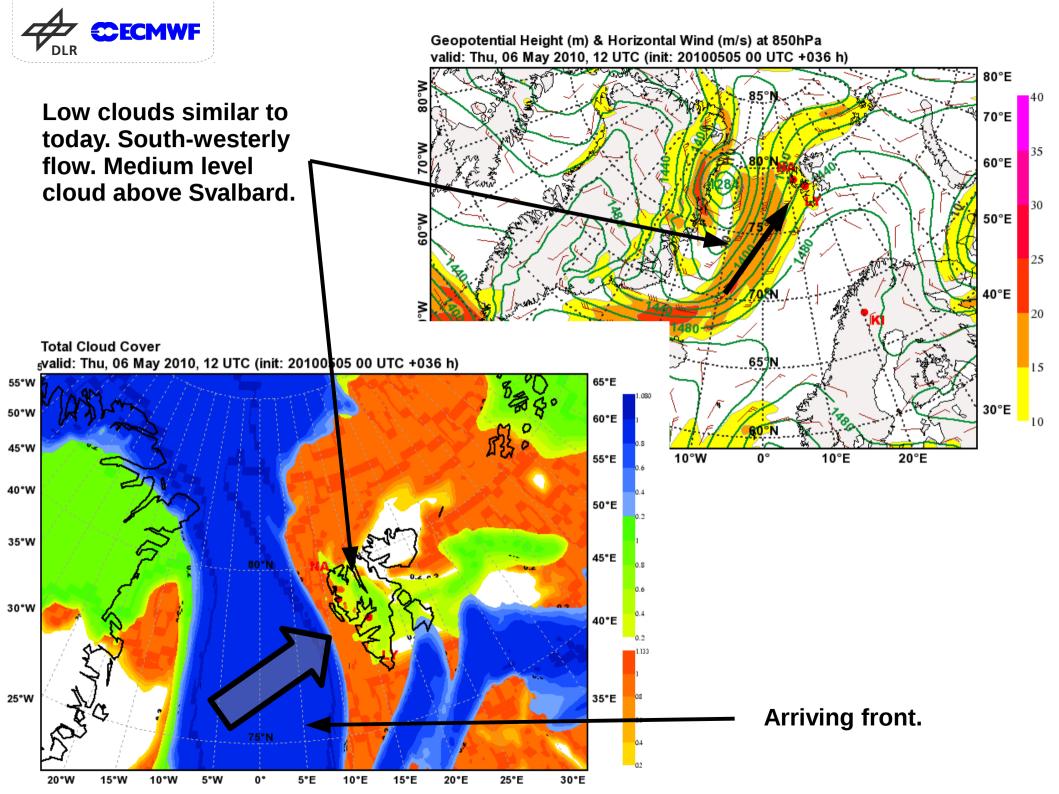
20°E

Monday: Northerly flow flow around Svalbard.





Thursday.





55°W

50°W

45°W

40°W

35°W

30°W

25°W

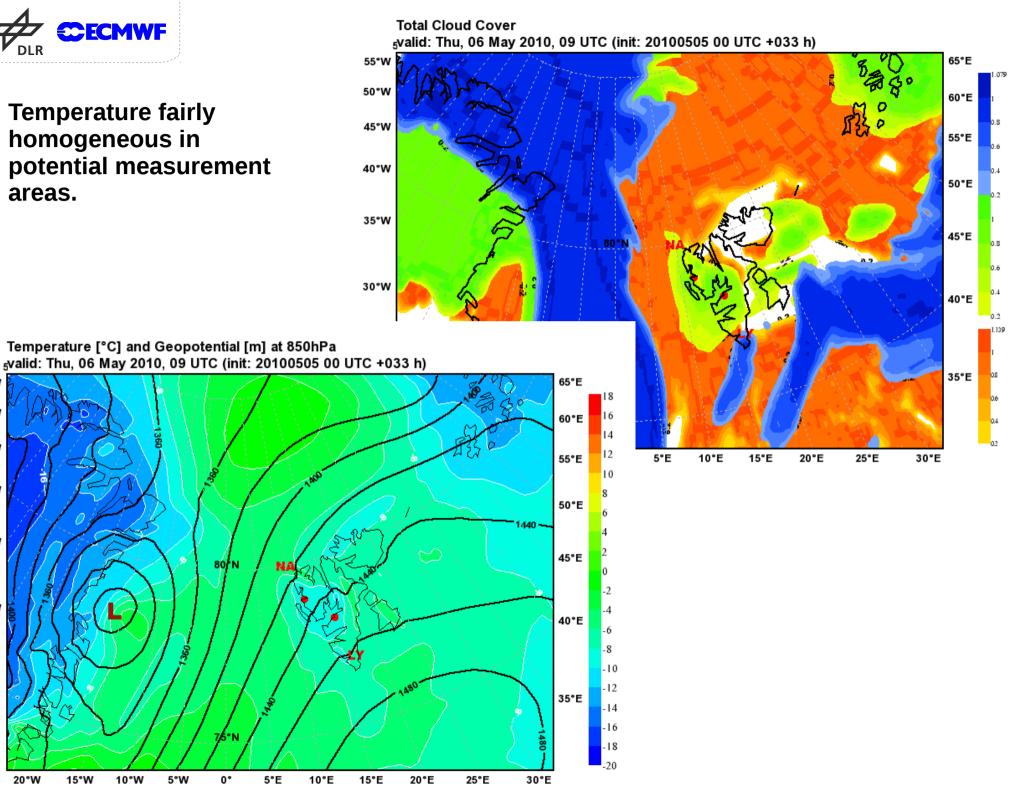
15°W

10°W

5°W

5°E

Temperature fairly homogeneous in potential measurement areas.





Total Precipitation [mm]

15°W

10°W

5°W

55°W

50°W

45°W

40°W

35°W

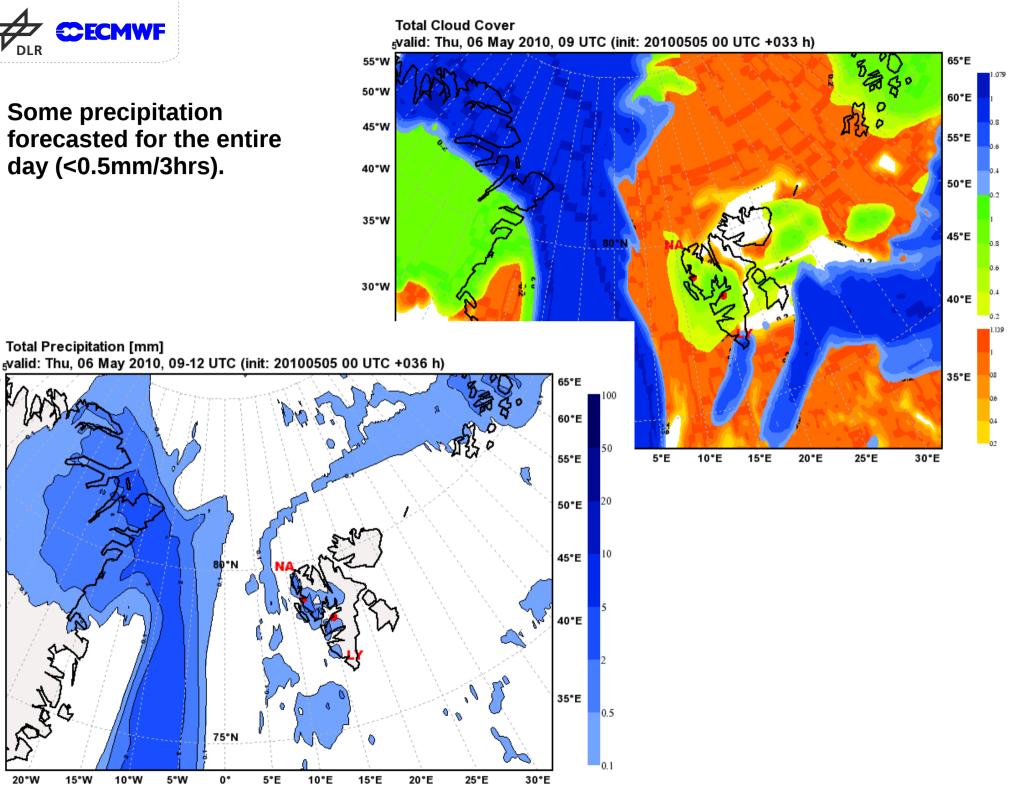
30°W

25°W

Some precipitation forecasted for the entire day (<0.5mm/3hrs).

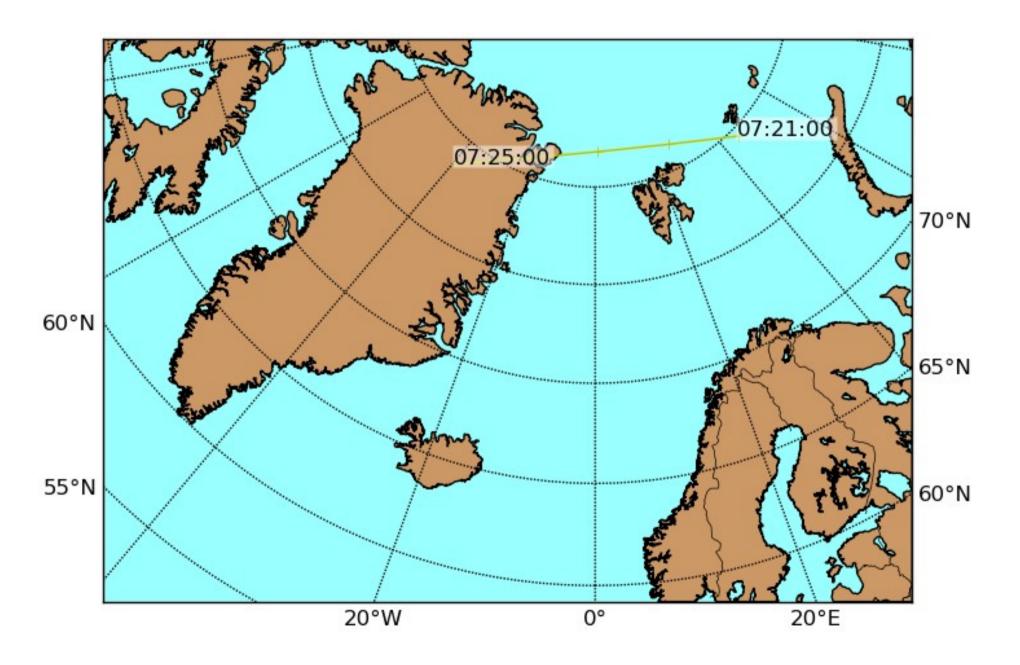
75°N

5°E



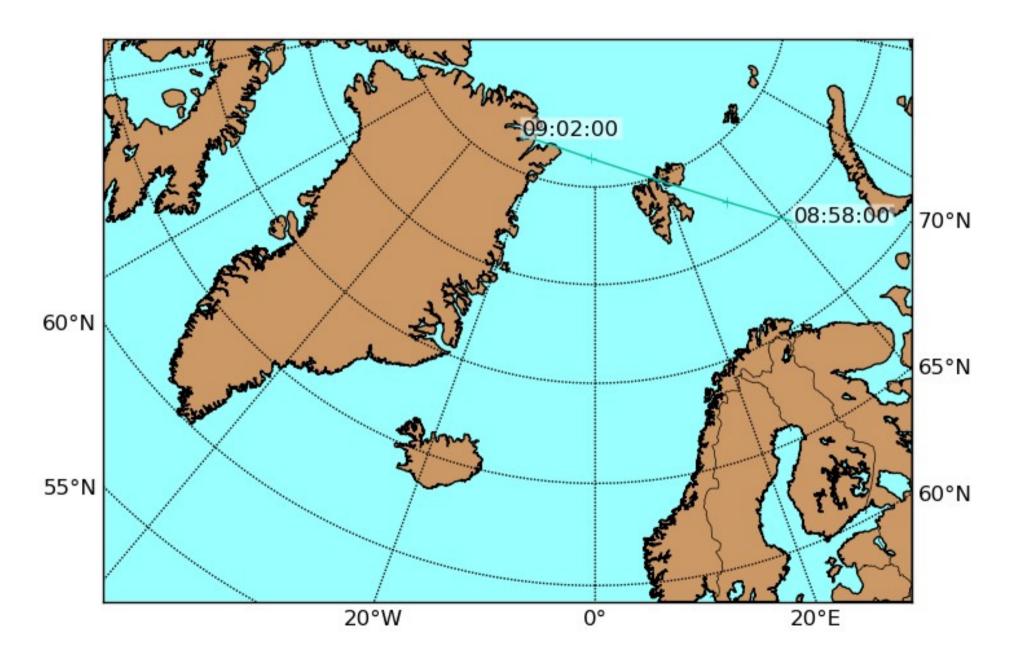


CLOUDSAT overpass at 07:22 UTC



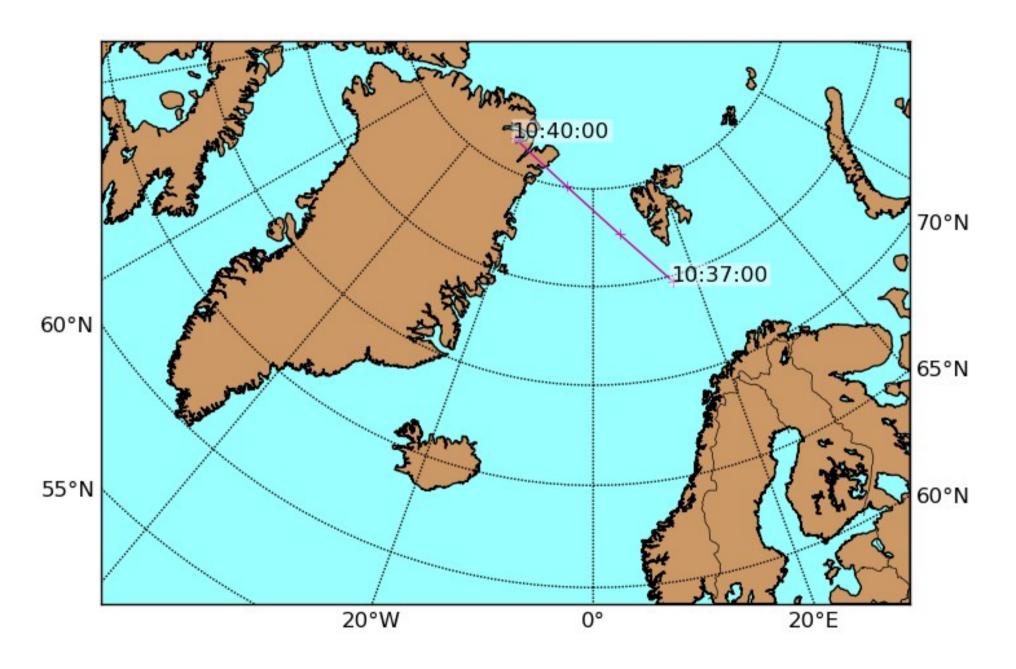


CLOUDSAT overpass at 09:00 UTC



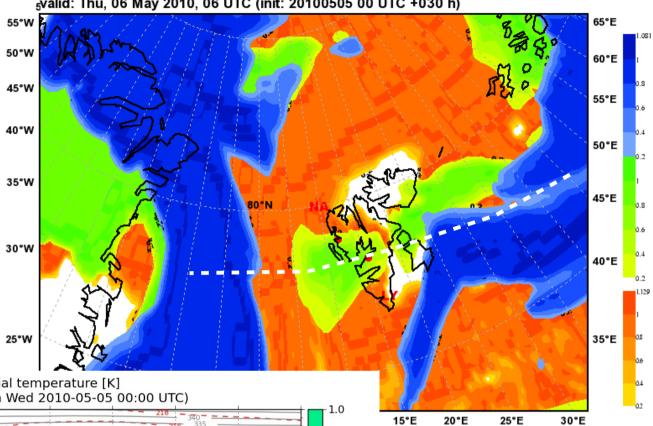


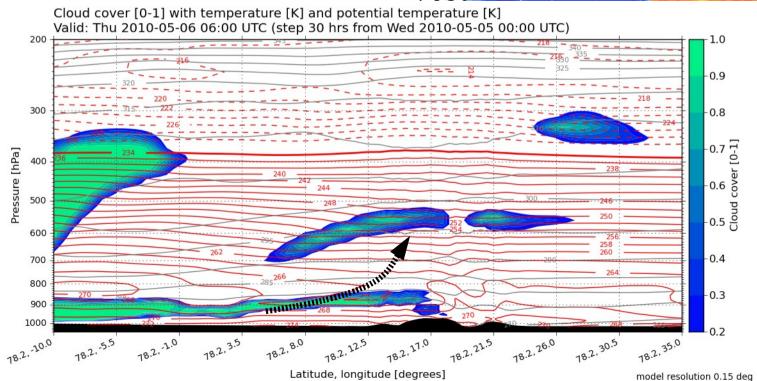
CLOUDSAT overpass at 10:38 UTC





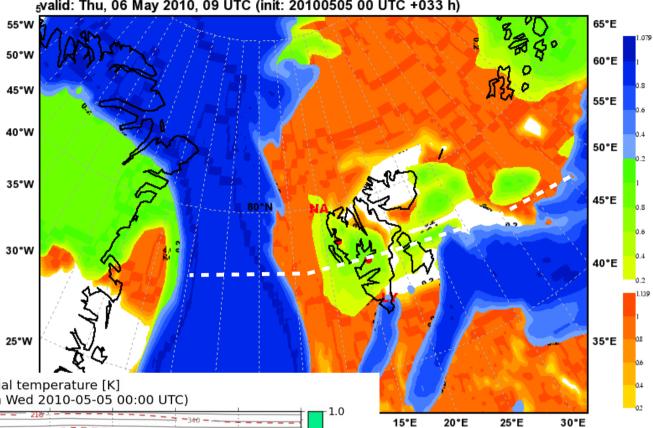




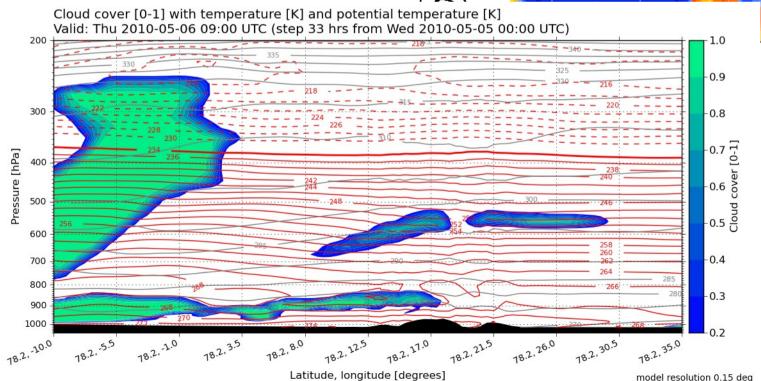






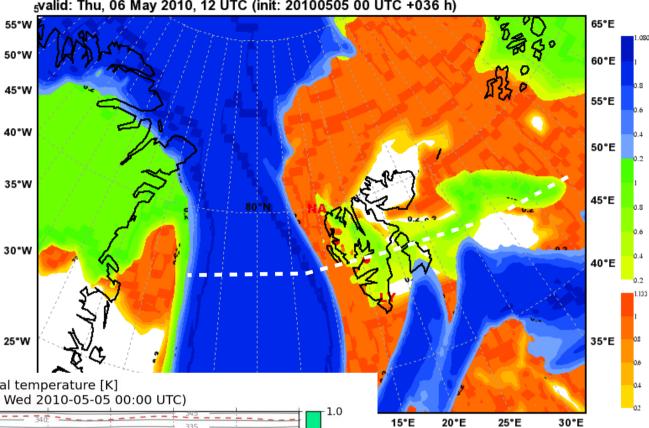


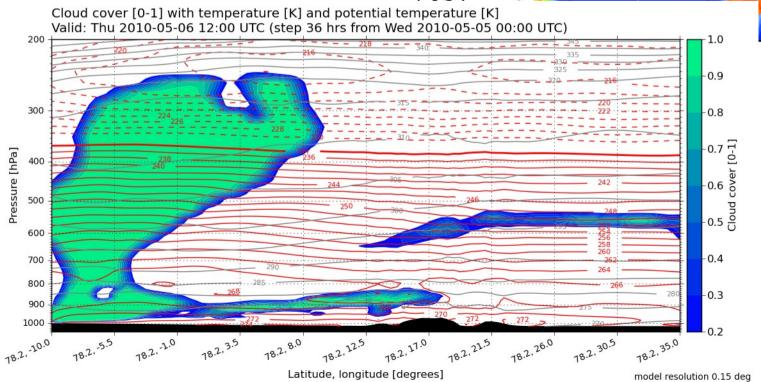
model resolution 0.15 deg





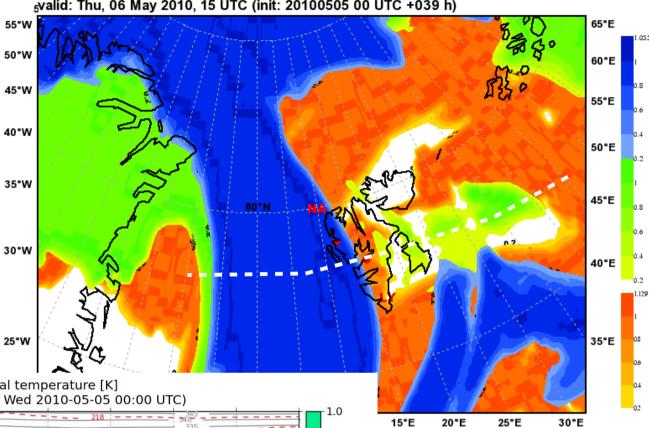




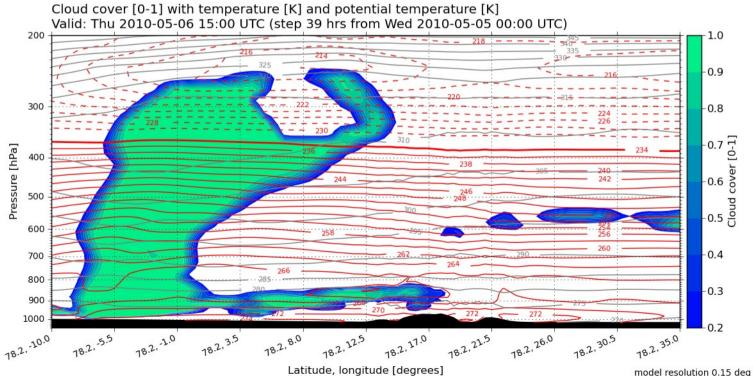






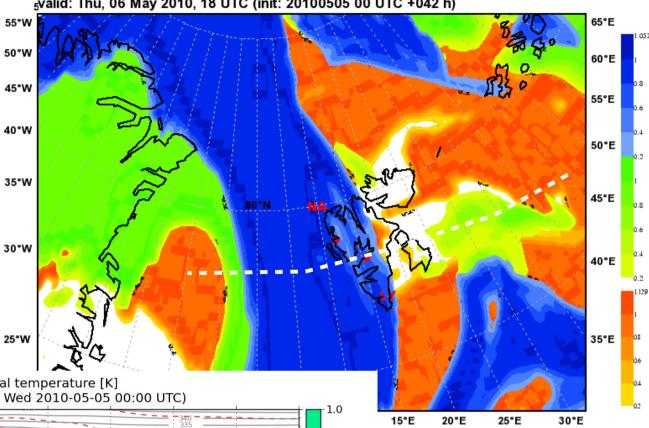


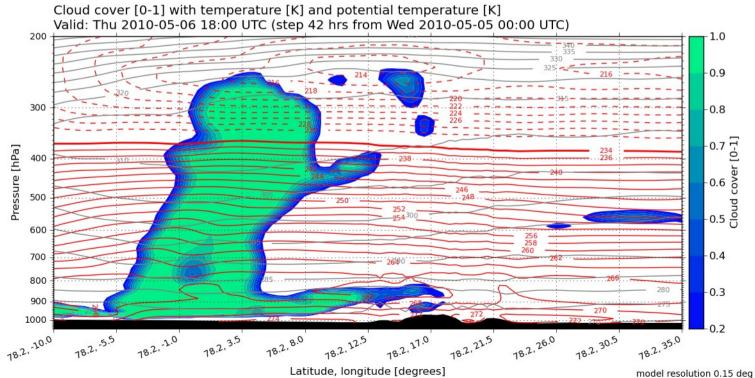
model resolution 0.15 deg





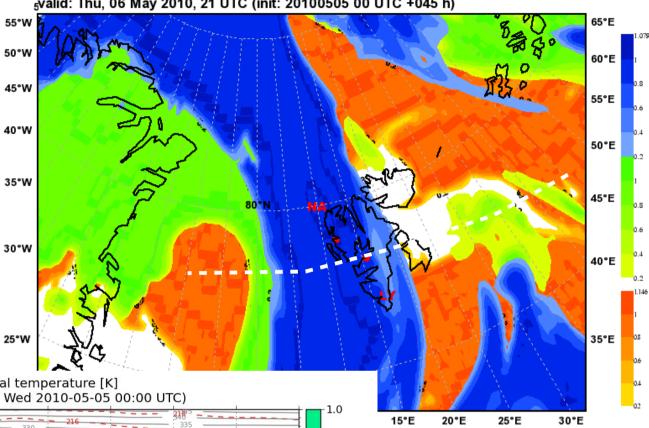




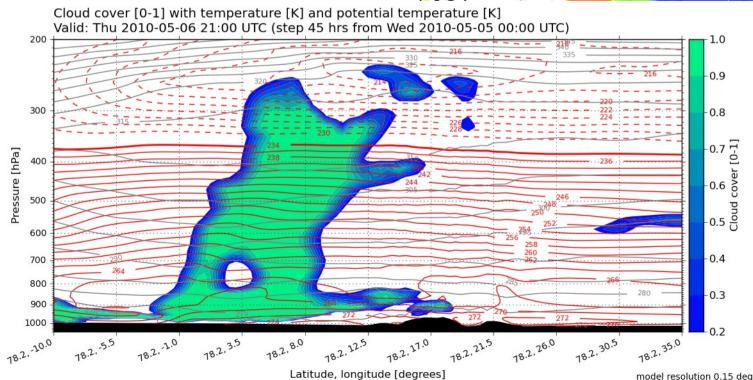






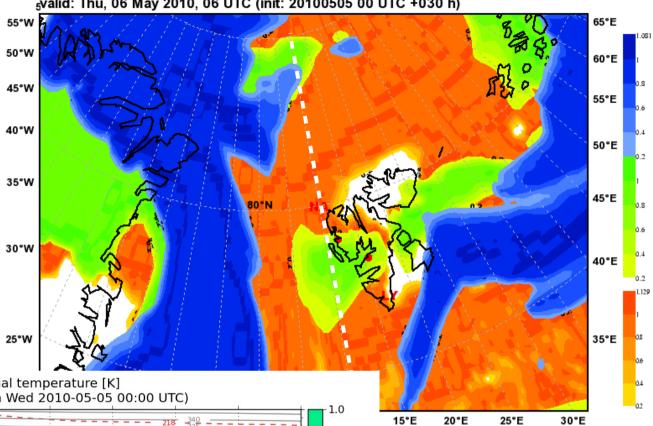


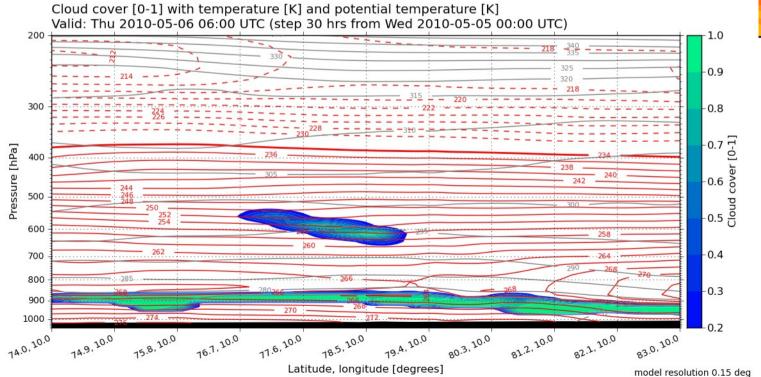
model resolution 0.15 deg





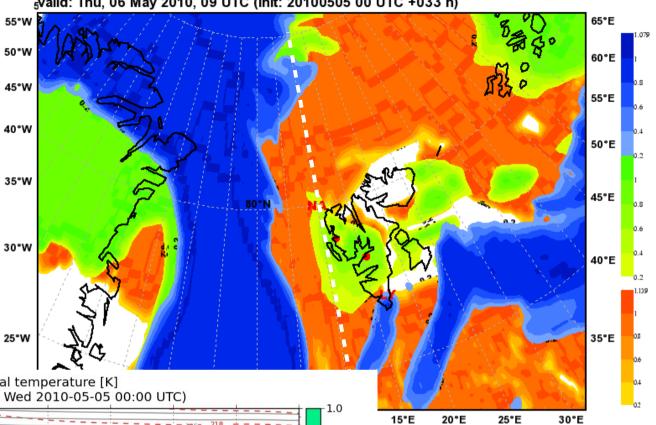




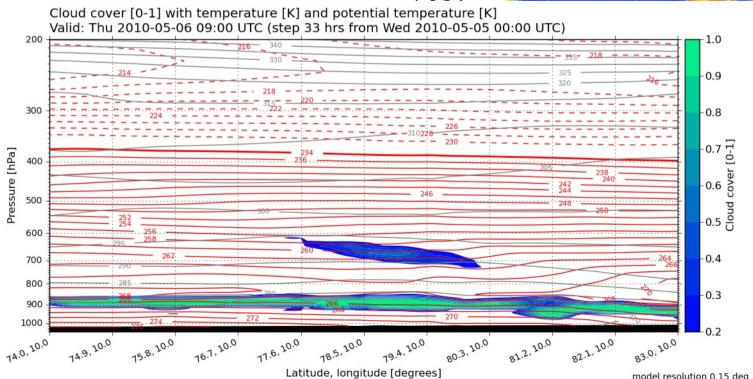






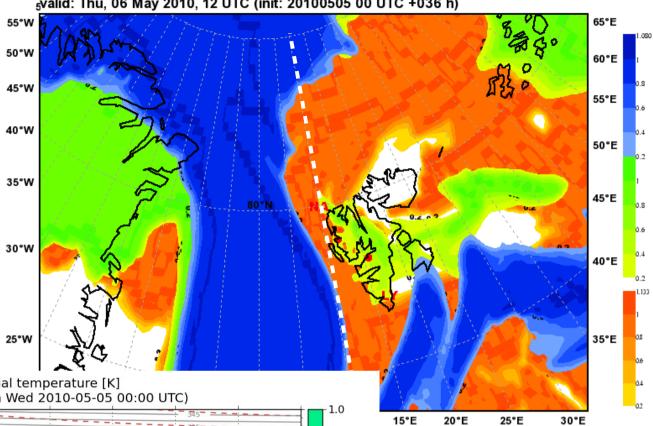


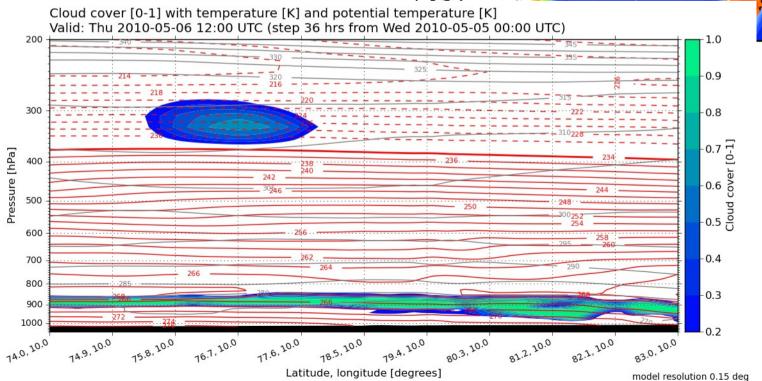
model resolution 0.15 deg





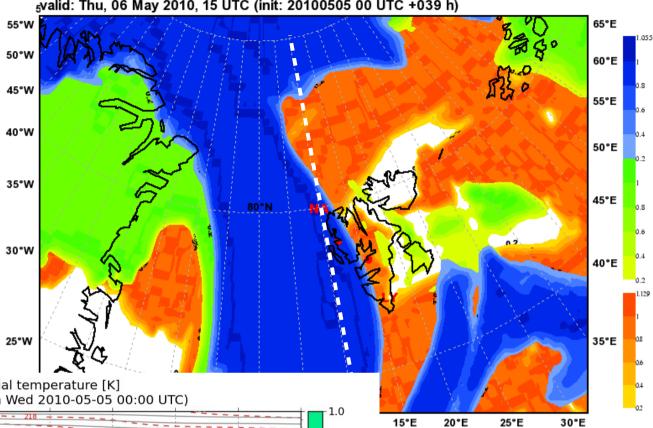


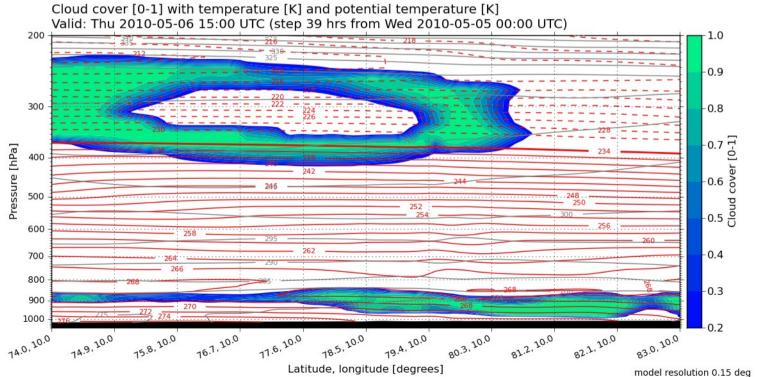






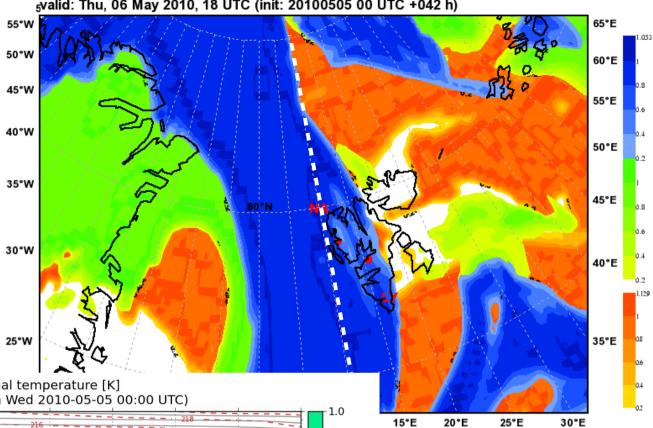


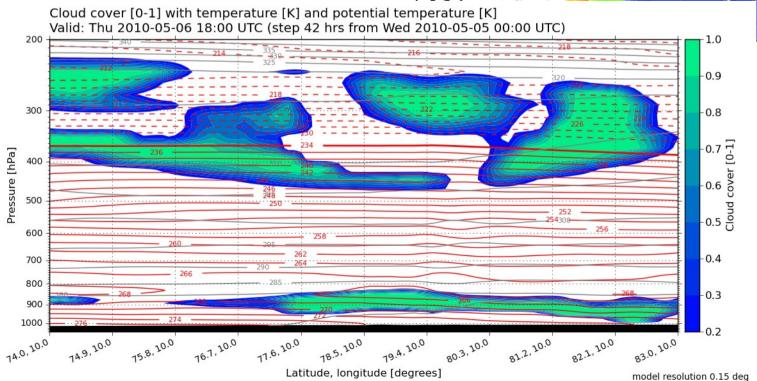






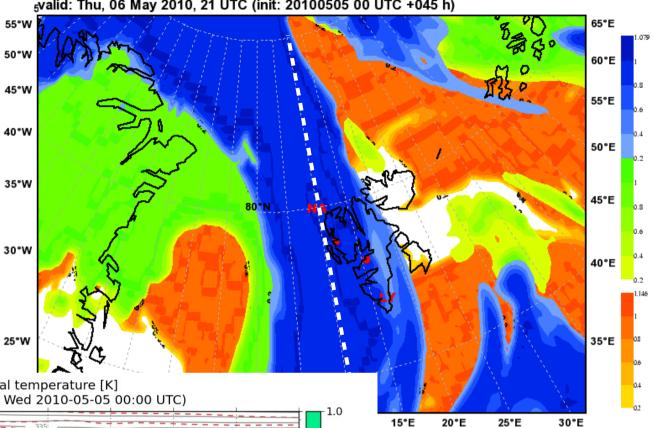


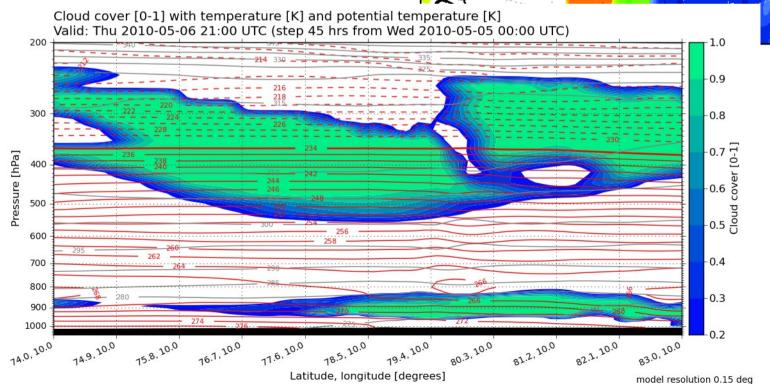






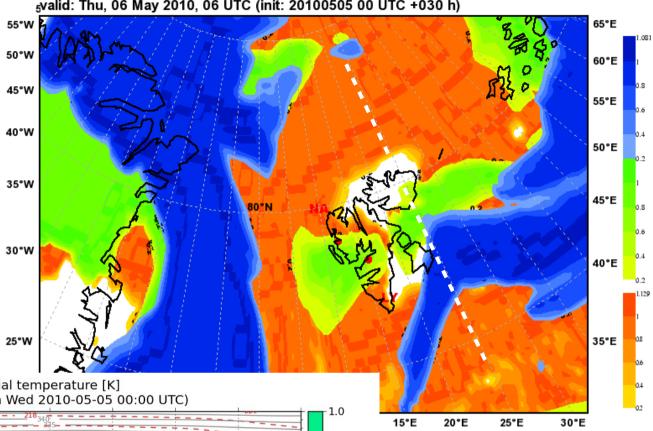


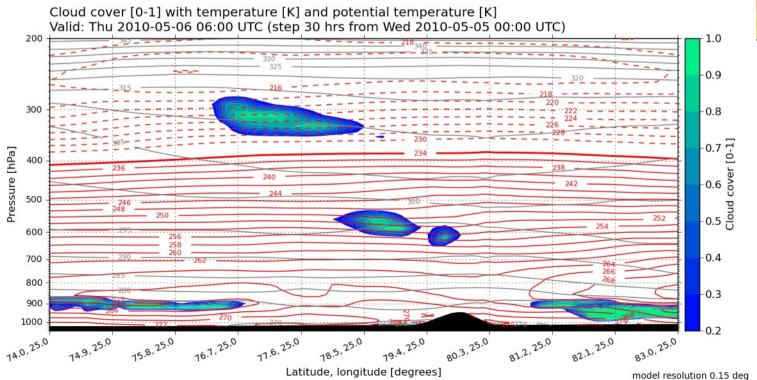




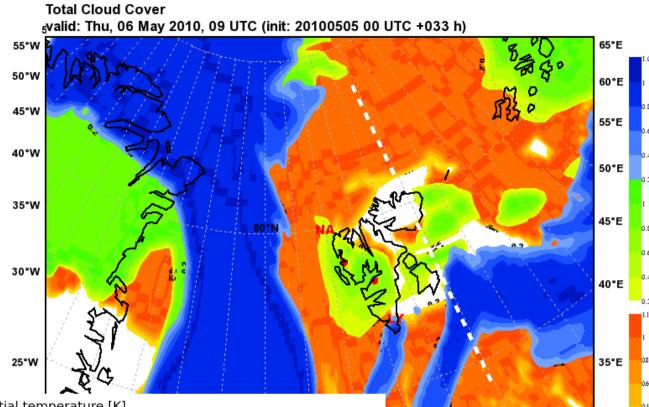










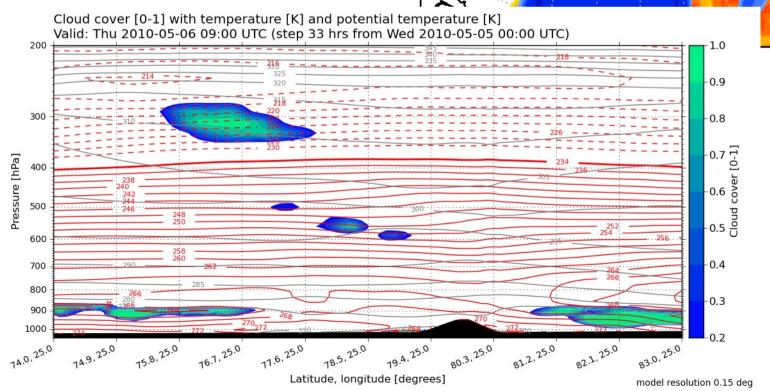


15°E

20°E

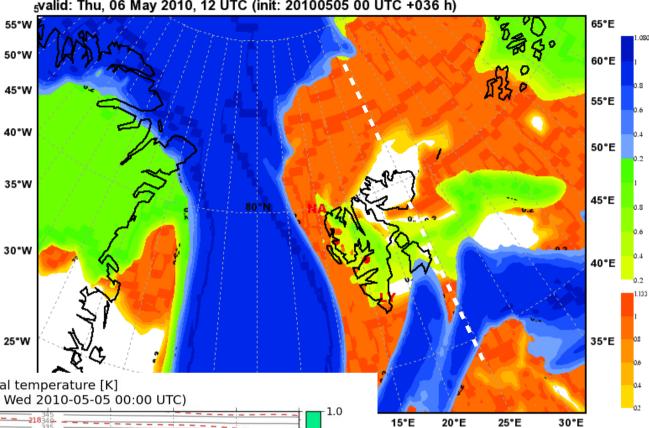
25°E

30°E

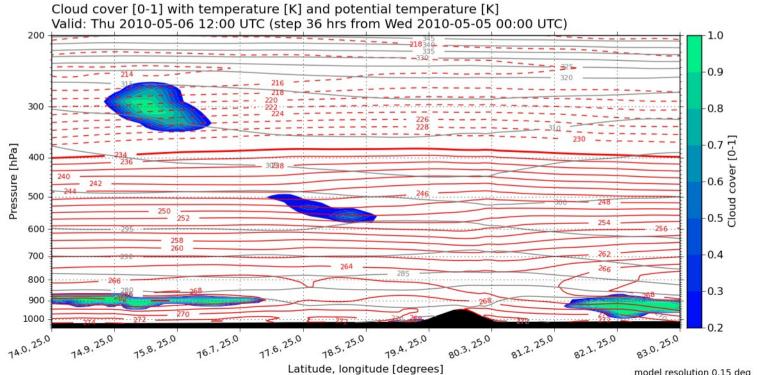






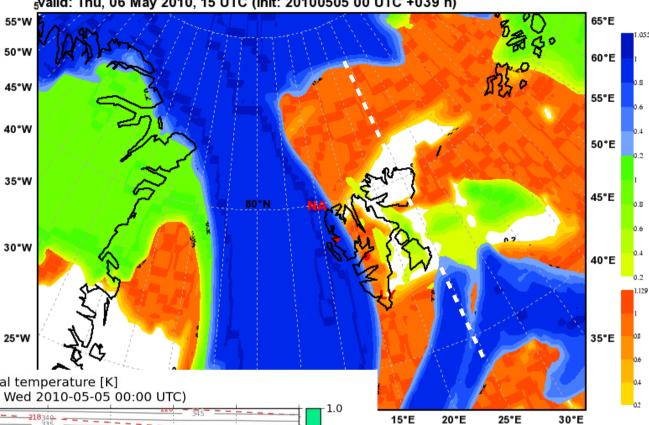


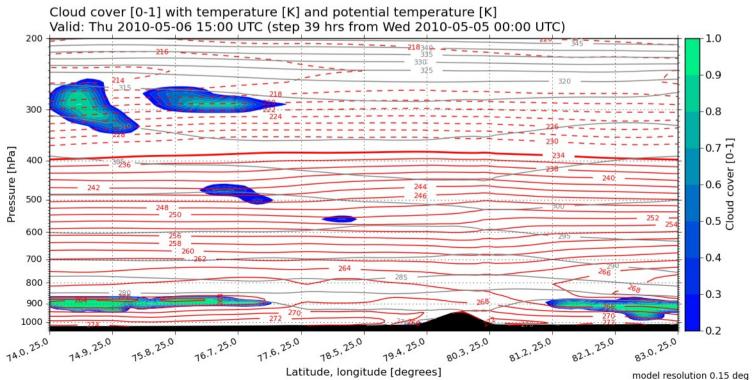
model resolution 0.15 deg



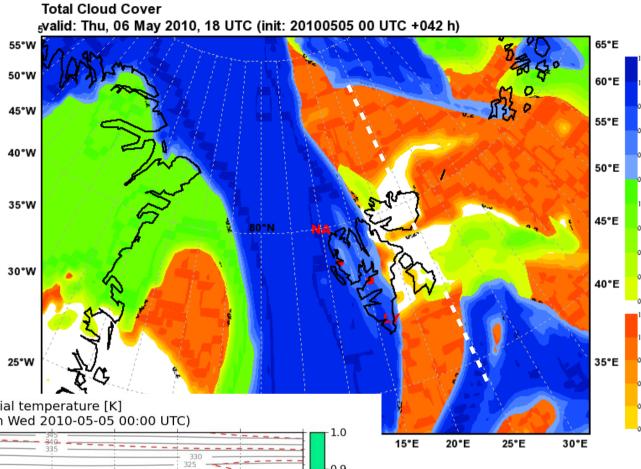


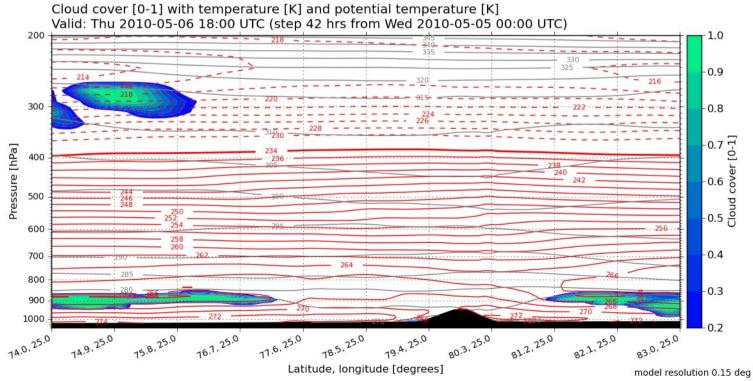






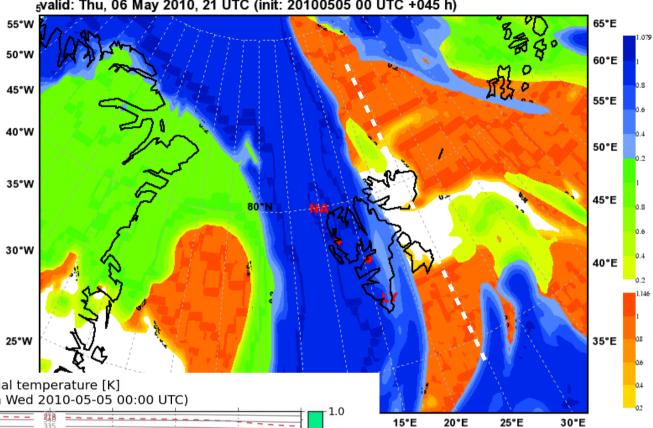












model resolution 0.15 deg

