

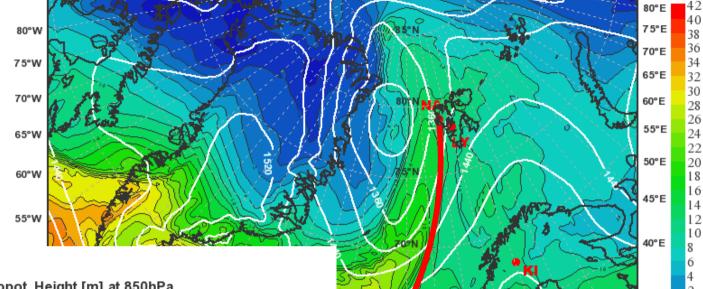
Weather Forecast

Wednesday May 06, 2010

Marc Rautenhaus, DLR/IPA



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: 20100506 00 UTC +024 h)



5°W

0°

5°E

10°E

35°E

30°E

25°E

15°E

20°E

0 -2

-4

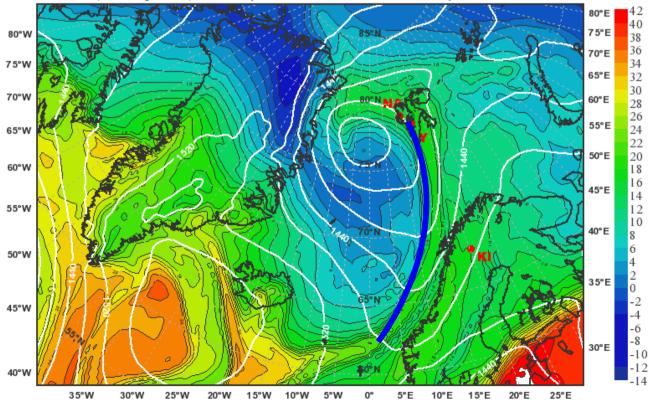
-6 -8

-10

-12

-14

Equivalent Potential Temperature [°C] & Geopot. Height [m] at 850hPa valid: Sat, 08 May 2010, 00 UTC (init: 20100506 00 UTC +048 h)





75°W

70°W

65°W

60°W

55°W

50°W

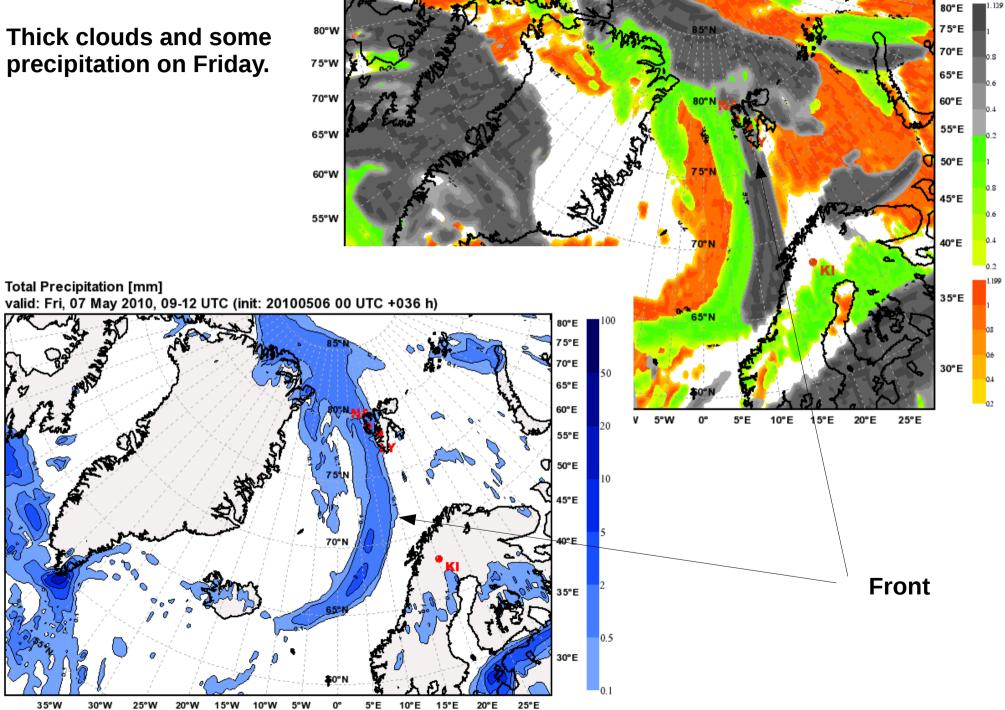
45°W

40°W

35°W

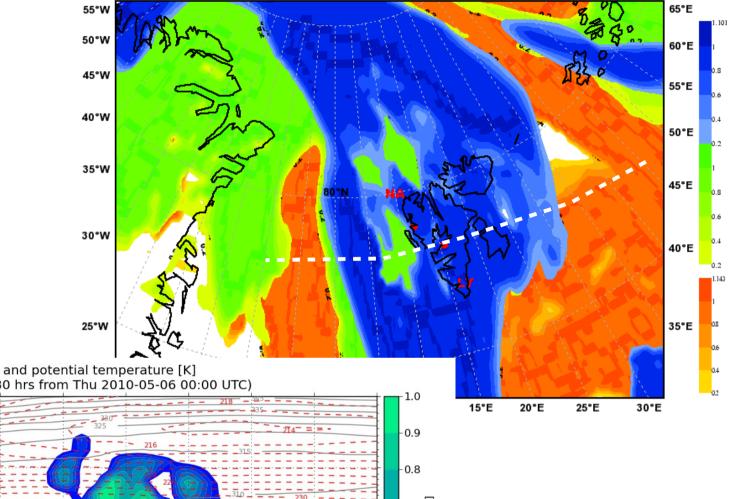
Thick clouds and some precipitation on Friday.

Total Cloud Cover valid: Fri, 07 May 2010, 12 UTC (init: 20100506 00 UTC +036 h)

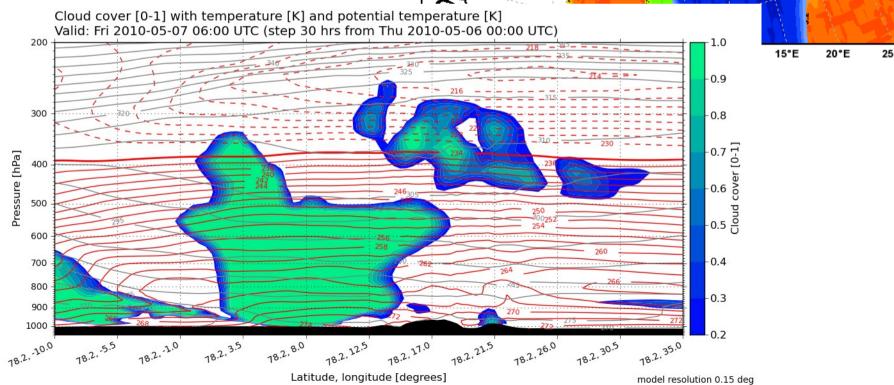








E-W along 78N





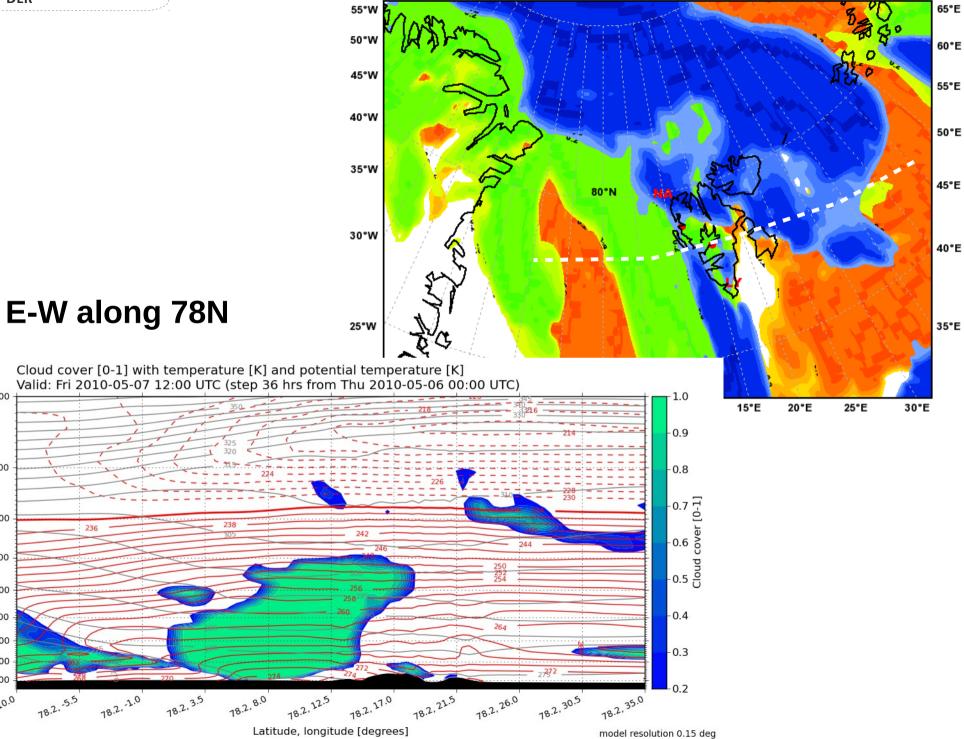
18.2.-20.0

Pressure [hPa]

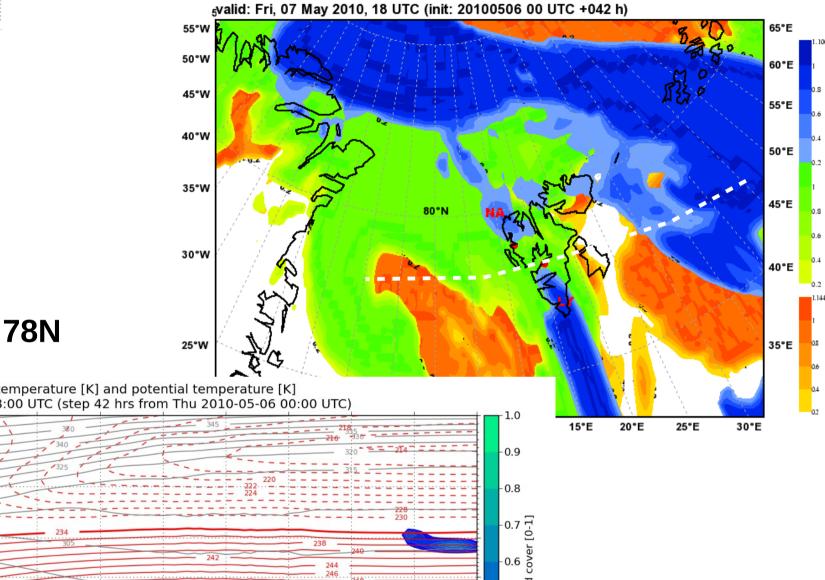


0.8 0.6

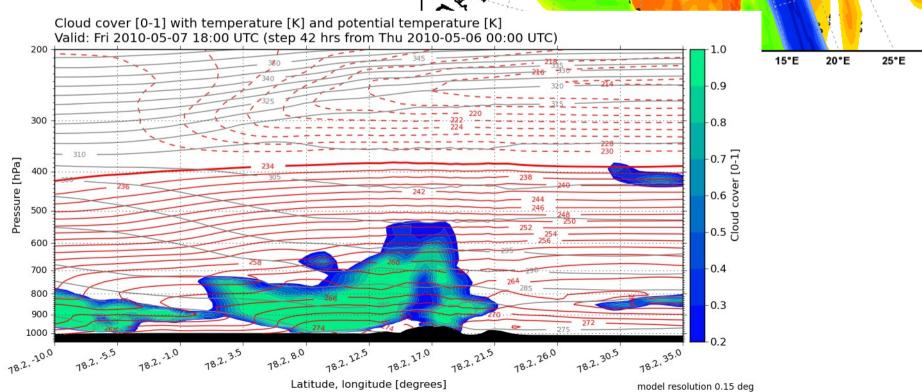
0.2







E-W along 78N



Total Cloud Cover



75°W

70°W

65°W

60°W

55°W

50°W

45°W

40°W

35°W

15°W

Saturday: Cyclone transported southeastward by upper level flow.

Geopotential Height (m) & Horizontal Wind (m/s) at 250hPa valid: Sat, 08 May 2010, 12 UTC (init: 20100506 00 UTC +060 h)

70

65

60

55

50

45

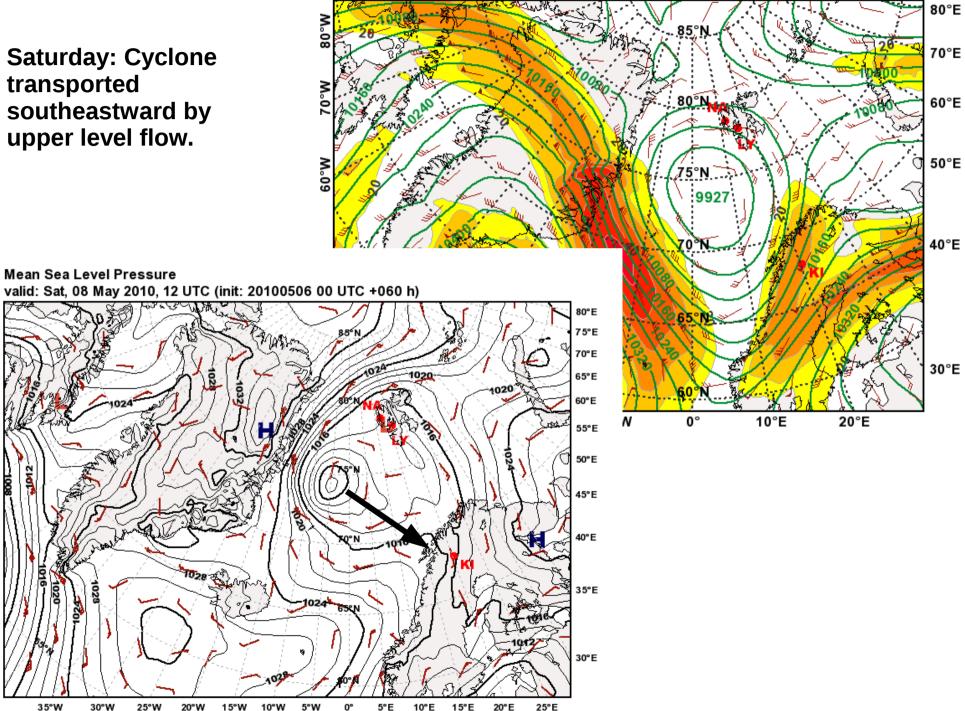
40

35

30

25

20





0°07

0°W

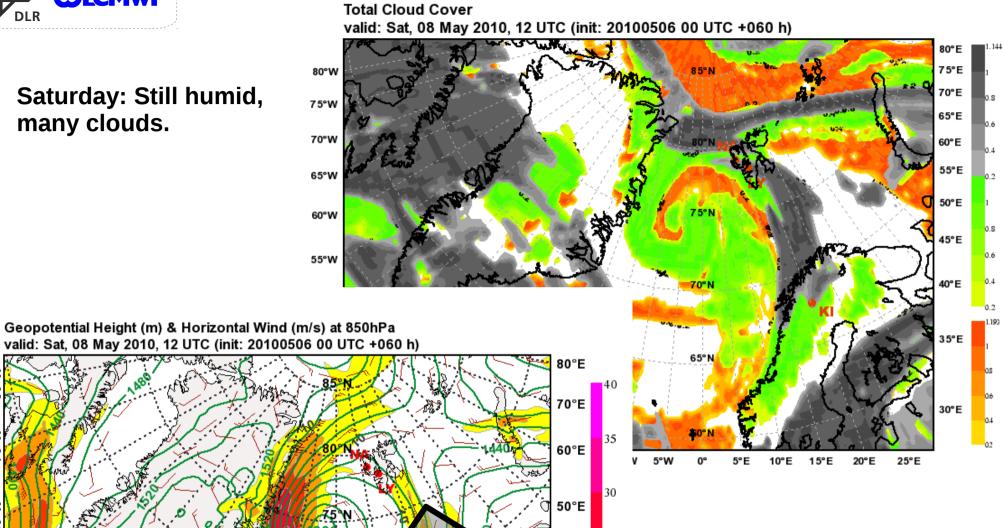
50°W

30°W

20°W

10°W

Saturday: Still humid, many clouds.



25

20

15

10

40°E

30°E

65°

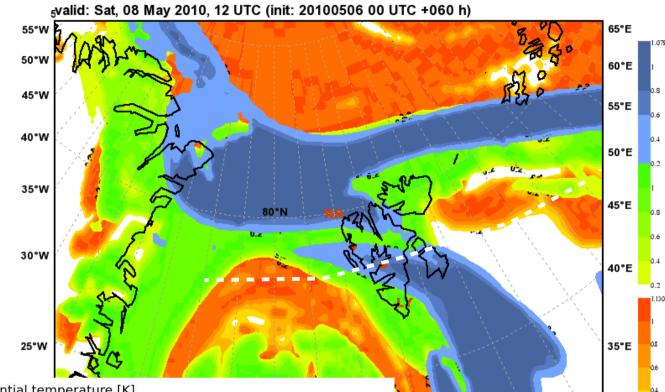
0°

10°E

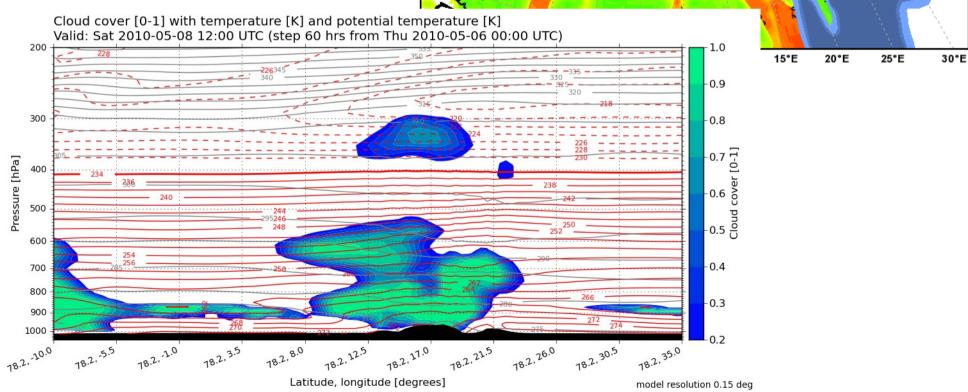
20°E

Moist and warm air advected from the south.



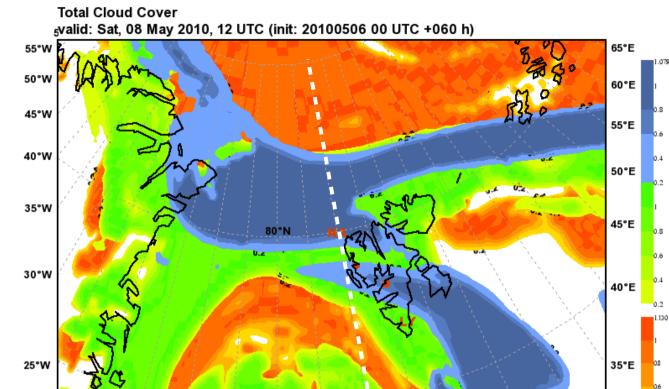


E-W along 78N



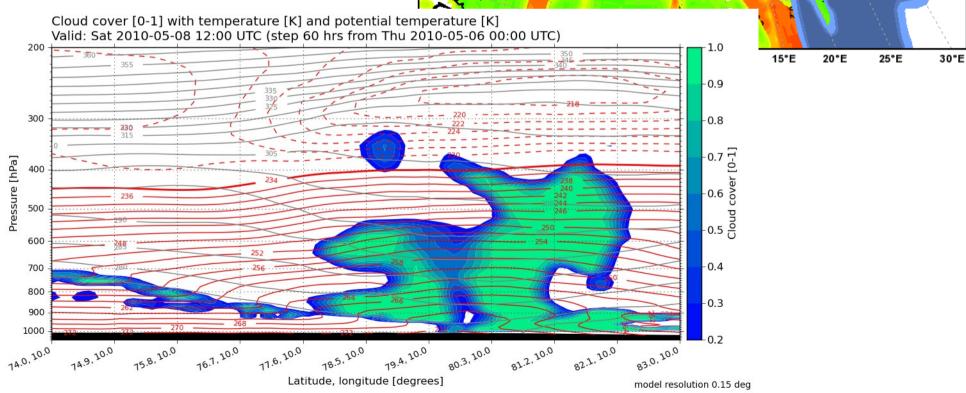
Total Cloud Cover





0.4

N-S along 10E





75°W

70°W

65°W

60°W

55°W

50°W

45°W

40°W

35°W

30°W

25°W

20°W

10°W

15°W

5°W

0°

5°E

10°E

15°E

Sunday: Merges with another low pressure region over Scandinavia, moves northeastward.

Geopotential Height (m) & Horizontal Wind (m/s) at 250hPa valid: Sun, 09 May 2010, 12 UTC (init: 20100506 00 UTC +084 h)

70

65

60

55

50

45

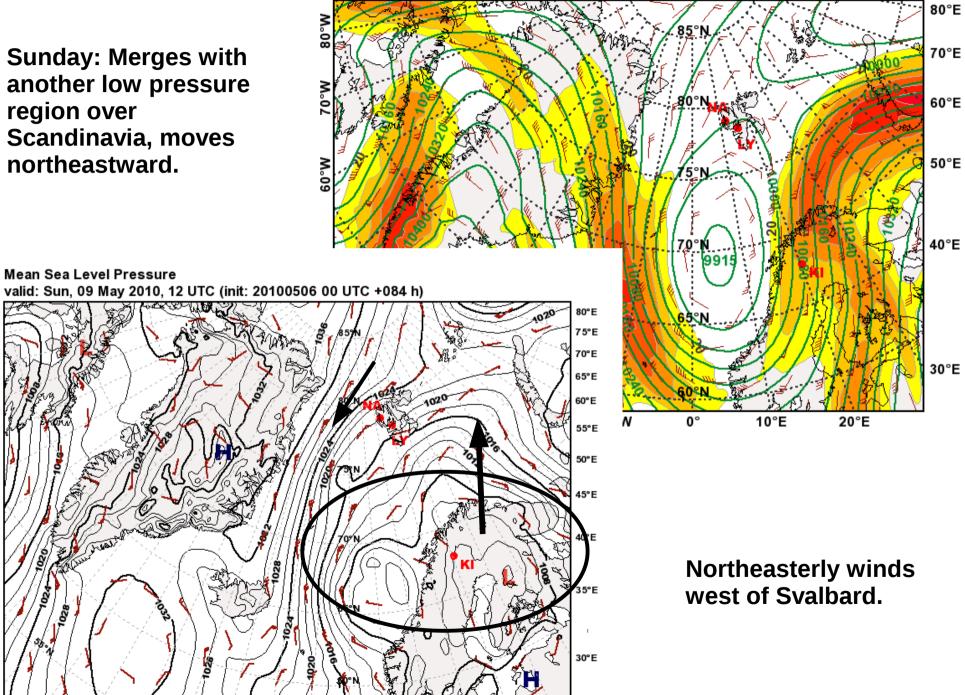
40

35

30

25

20

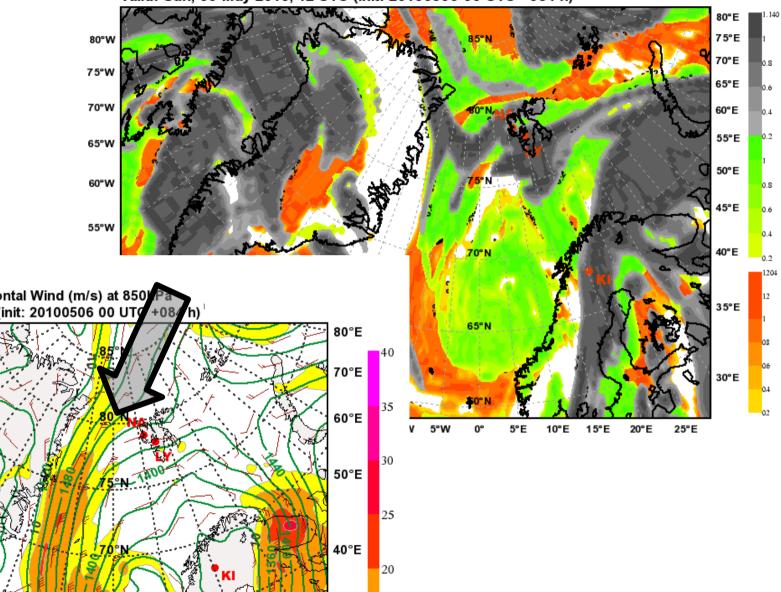


20° E

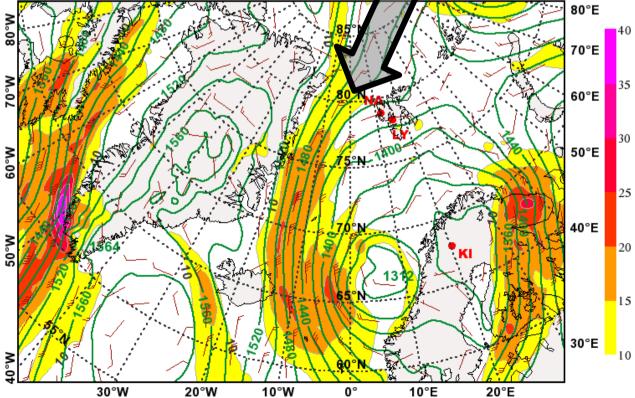
25°E



Total Cloud Cover valid: Sun, 09 May 2010, 12 UTC (init: 20100506 00 UTC +084 h)



Geopotential Height (m) & Horizontal Wind (m/s) at 850/Pa valid: Sun, 09 May 2010, 12 UTC (init: 20100506 00 UTC +08/ h)





75°W

70°W

65°W

60°W

55°W

50°W

45°W

40°W

Monday: Northerly flow flow around Svalbard.

Geopotential Height (m) & Horizontal Wind (m/s) at 250hPa valid: Mon, 10 May 2010, 12 UTC (init: 20100506 00 UTC +108 h)

70

65

60

55

50

45

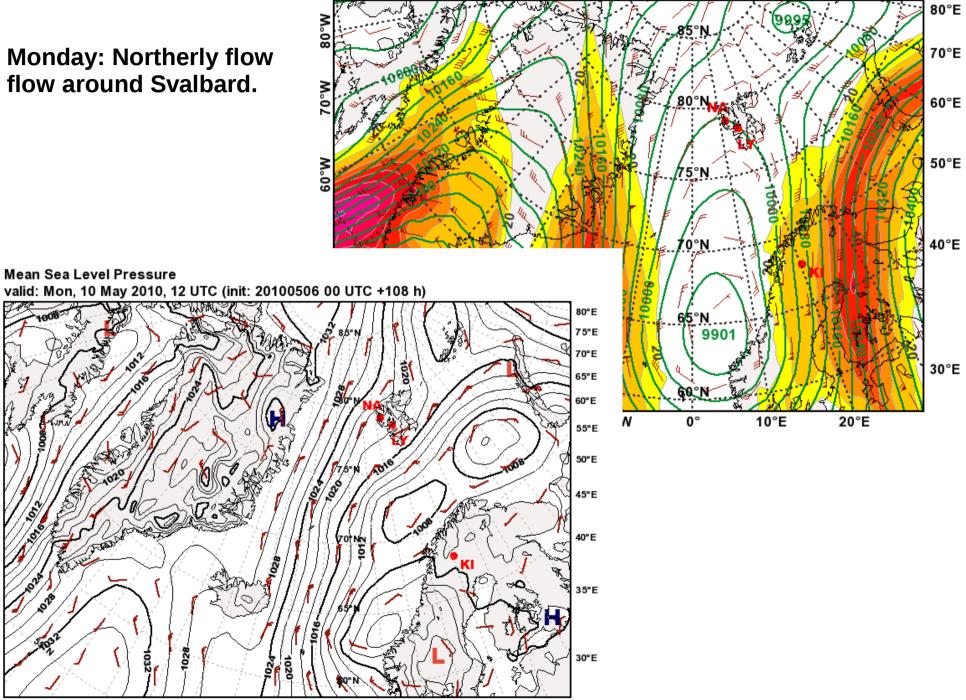
40

35

30

25

20



25°E

35°W 30°W 25°W 10°W 5°W 5°E 15°E 20°E 20°W 15°W 0° 10°E



80°V

V°07

00°W

50°W

30°W

Monday: Northerly flow at 850hPa around Svalbard. Could be good for measurements if not too many upper level clouds are forming.



80°E

75°E

70°E

65°E

60° E

55°E

50°E

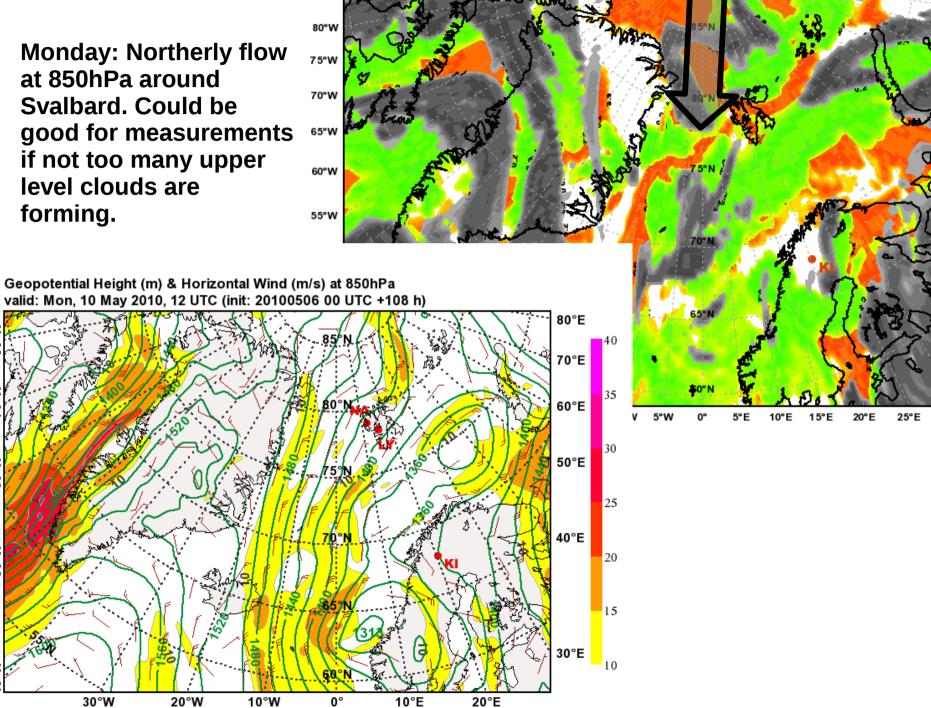
45°E

40° E

35°E

30°E

0.4





75°W

70°W

65°W

60°W

55°W

50°W

45°W

40°W

35°W

25°W

20°W

15°W

0°

10°E

Tuesday: Weak high pressure influence.

Geopotential Height (m) & Horizontal Wind (m/s) at 250hPa valid: Tue, 11 May 2010, 12 UTC (init: 20100506 00 UTC +132 h)

80°E

70°E

60°E

50°E

40°E

30°E

70

65

60

55

50

45

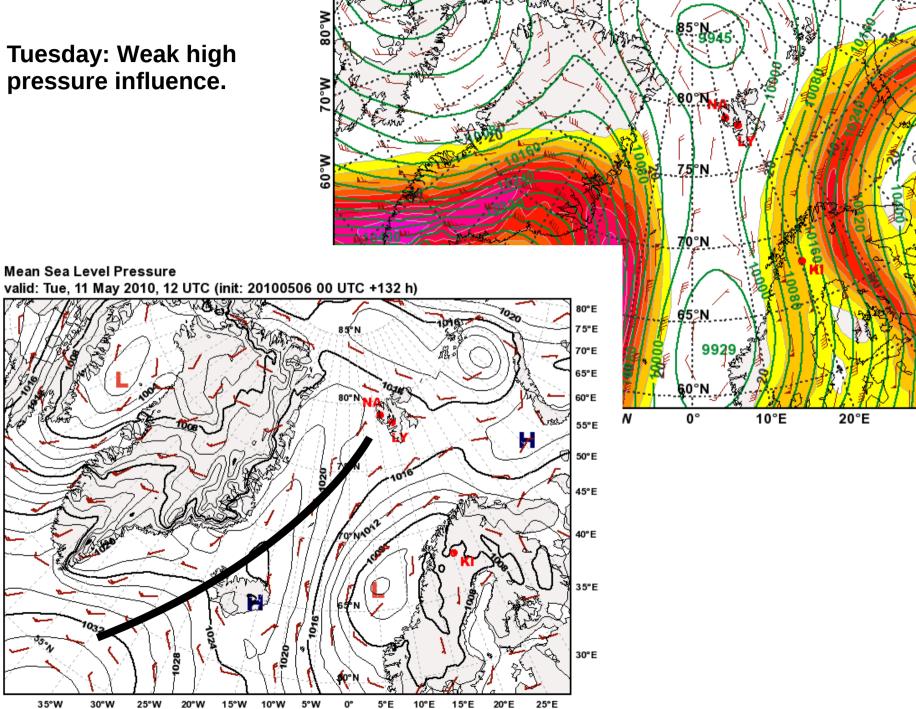
40

35

30

25

20





M°07

0°W

50°W

40°W

60010



1.153

hs.

0.2

0.8

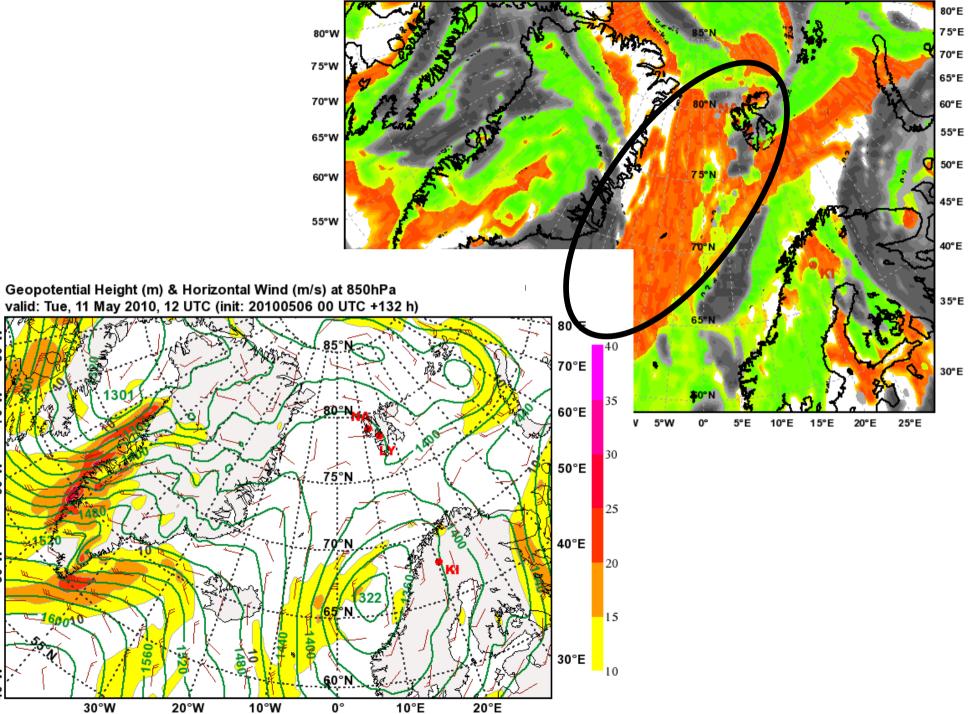
0.6

0.4

0.2 1222

12

0.4





75°W

70°W

65°W

60°W

55°W

50°W

45°W

40°W

35°W

30°W

25°W

20°W

15°W

10°W

5°W

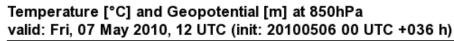
5°E

0°

10°E

15°E

Warm air advection towards Svalbard.



18

16

14

12

10

8

6

-2

-4

-6

-8

-10

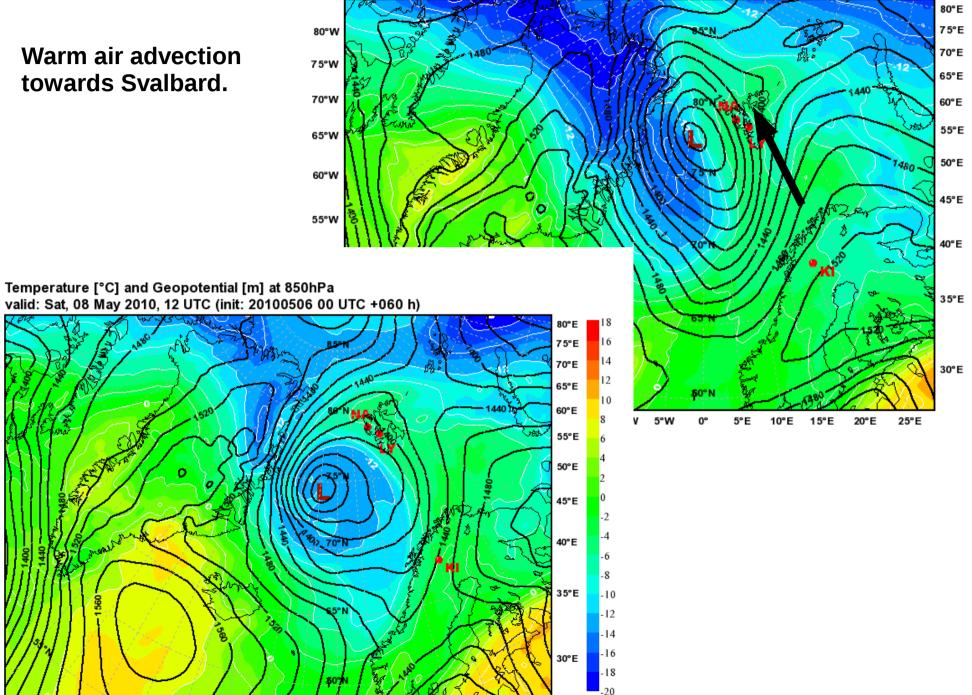
-12

-14

-16

-18

-20



20°E

25°E



Slightly colder transported south by northerly flow at the beginning of next week.

