ACLOUD Flight 2017 06 15

Crew:
Mission PI	André Ehrlich
AWI	Lukas Kandora
SMART	Tobias Donth
Eagle/Hawk	Elena Ruiz
MiRAC	Mario Mech
AMALi	Marek Jacob

Est. Take Off: 12:00 LT

Est. Duration: 4h 50 min

Waypoints:
C1: 80° 00.00' N, 13° 50.00' E
PS: 81° 48.000' N, 11° 12.000' E
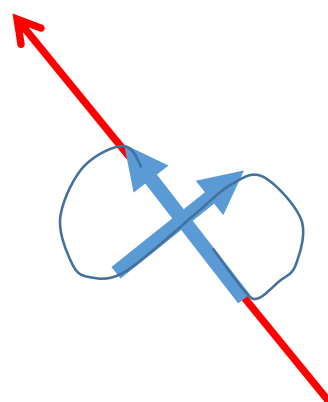**C2**: 79° 10.000' N, 9° 00.000' E
NyA: 78° 55.40' N, 11° 55.40' E

Flight Plan

LYR—C1 at 10 000 ft	**110 NM @free speed**	**45 min**
C1—PS at 10 000 ft **collocated with P6**	**110 NM @140 kn**	**50 min**

PS position   3 double-triangle pattern, 10,000 ft, 15 miles leg length,
In collocation with P6 **3x60 NM @ 140 kn** **75 min**

PS—C2 at 10 000 ft **collocated with P6**	**165 NM @140 kn**	**70 min**
C2—NyA at 10 000 ft	**35 NM @140 kn**	**15 min**
Cross at NyA		**10 min**
NyA—LYR at 10 000 ft	**60 NM @free speed**	**25 min**

Total: **4h 50 min**

Shortcut: PS-C1-LYR   4h 25 min

Drop sondes: 3x C1—PS + 3x PS—C2

Polarstern

C1

C2

Ny Alesund

Svalbard

Longyearbyen

Image U.S. Geological Survey
Image IBCAO
Image Landsat / Copernicus
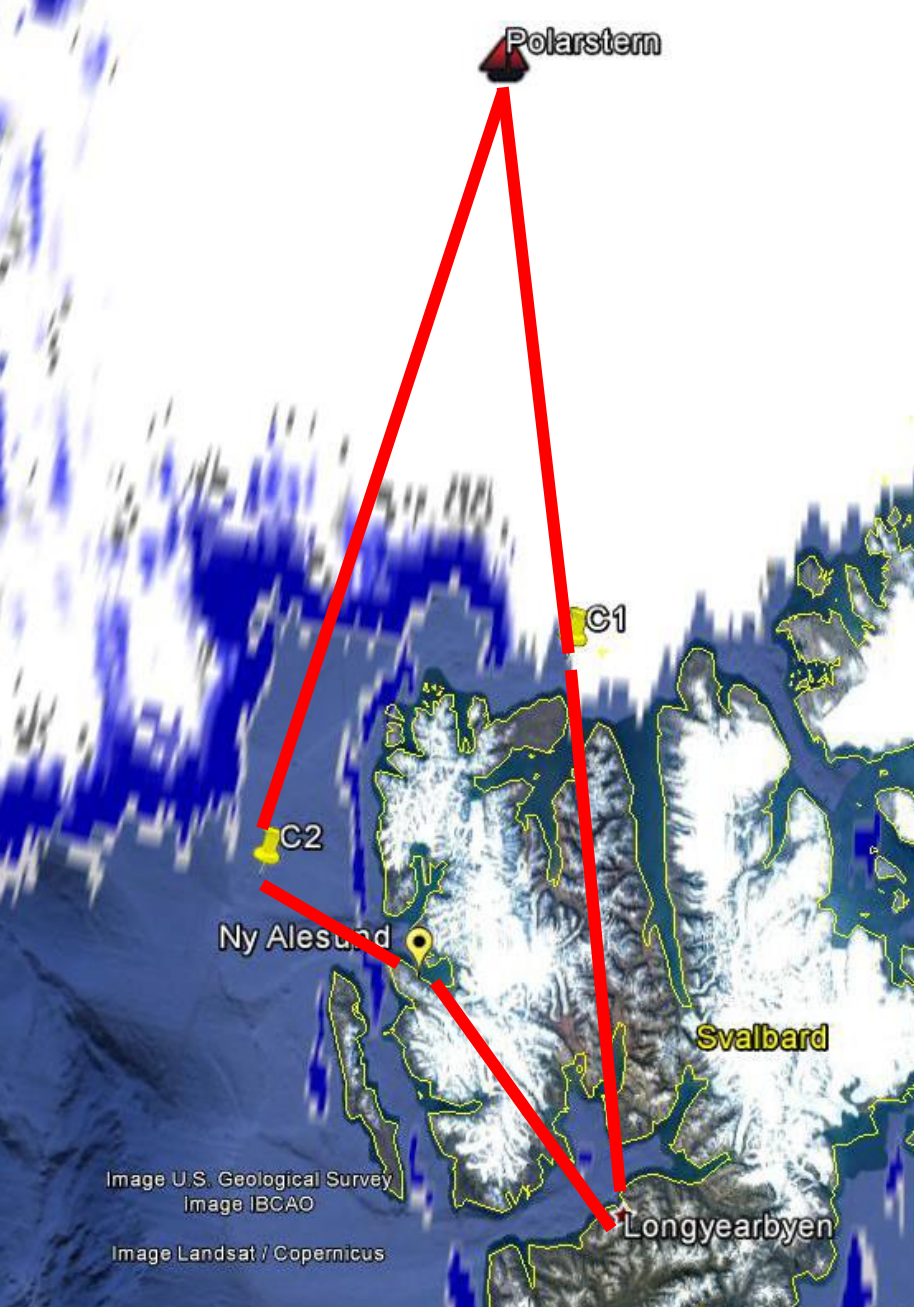
B. Double triangle-pattern

15 mile straight leg, parallel and perpendicular to the wind

PS

C1

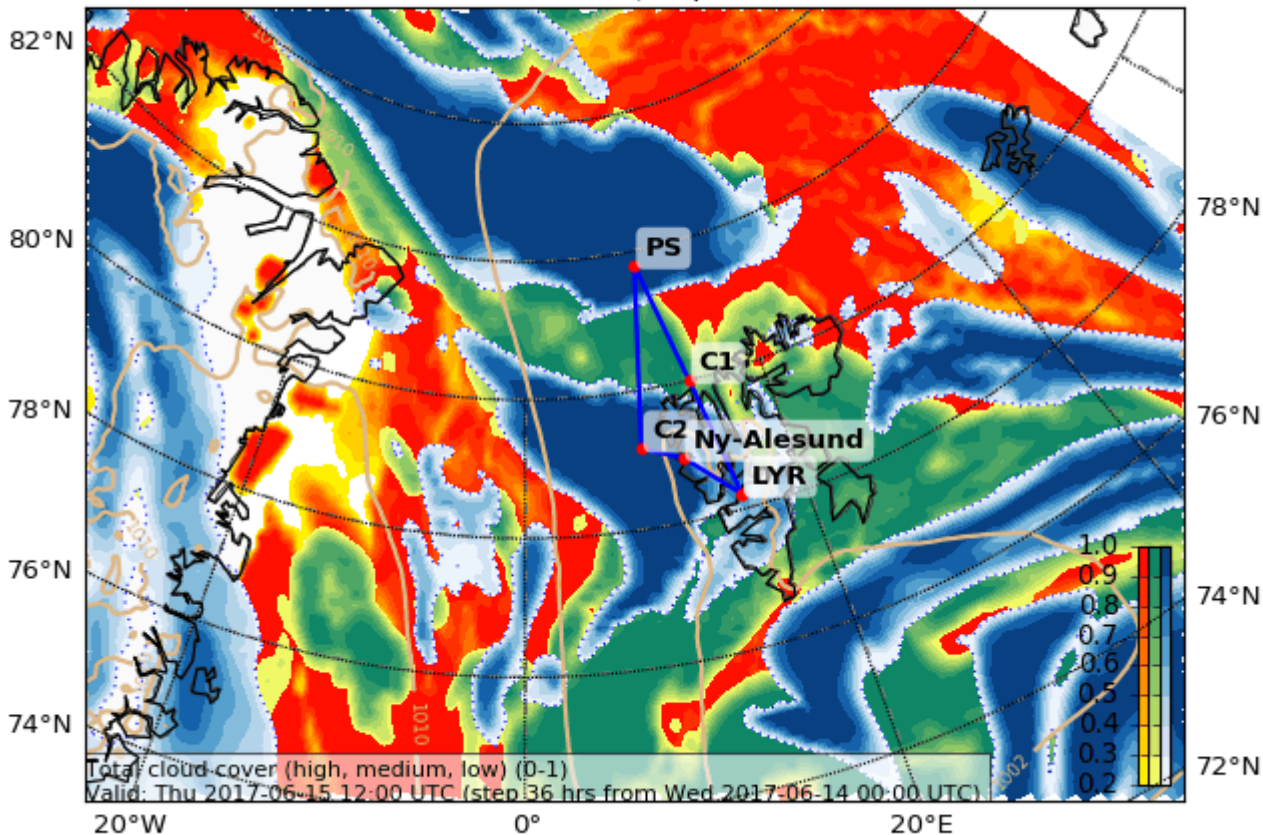wind direction likely north
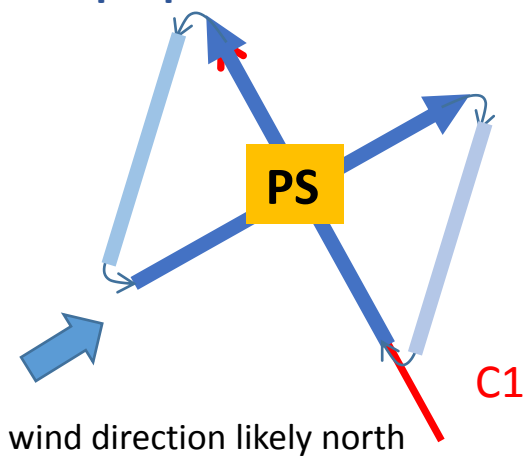
A. Loop-pattern at 10,000 ft

5 min straight leg

Cloud Cover (0-1) (Total Cloud Cover)
Valid: Thu 2017-06-15 12:00 UTC (step 36 hrs from Wed 2017-06-14 00:00 UTC)

Total cloud-cover (high, medium, low) (0-1)
Valid: Thu 2017-06-15 12:00 UTC (step 36 hrs from Wed 2017-06-14 00:00 UTC)
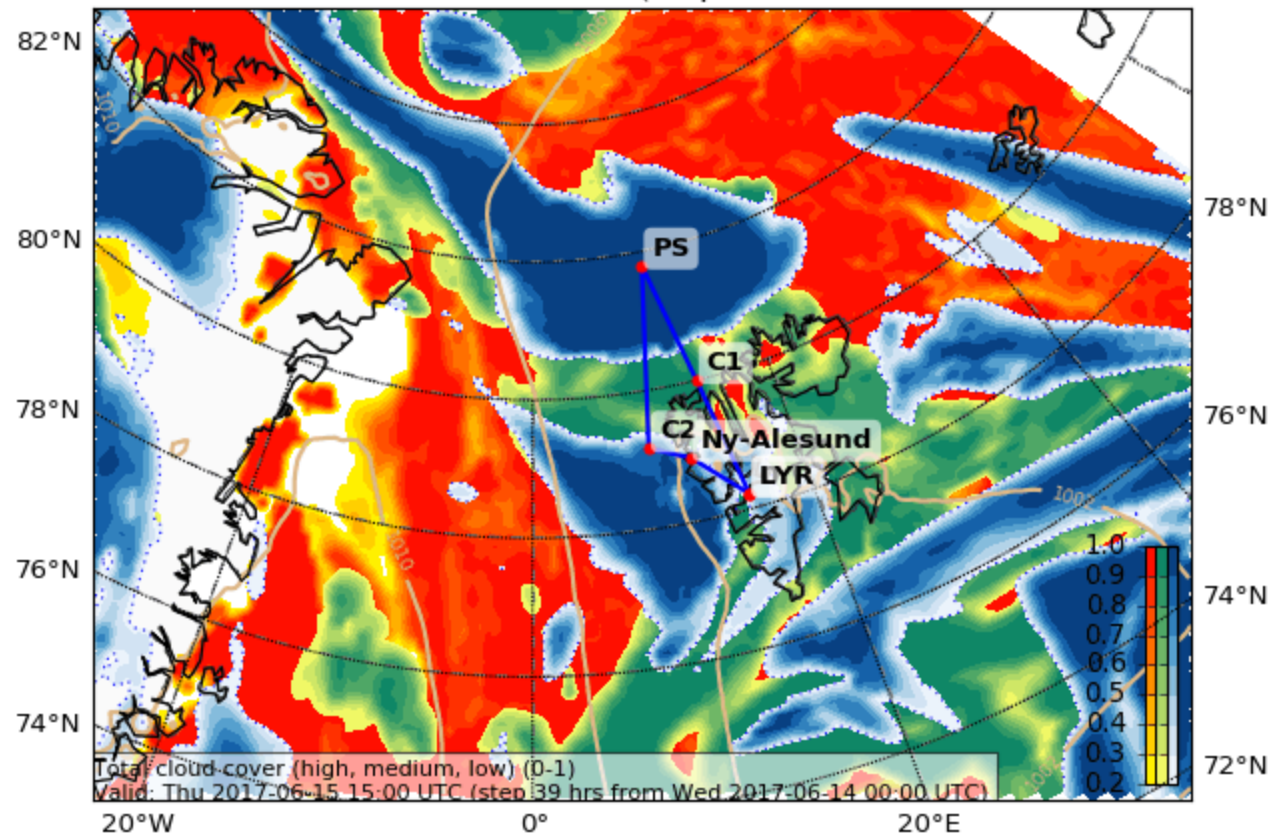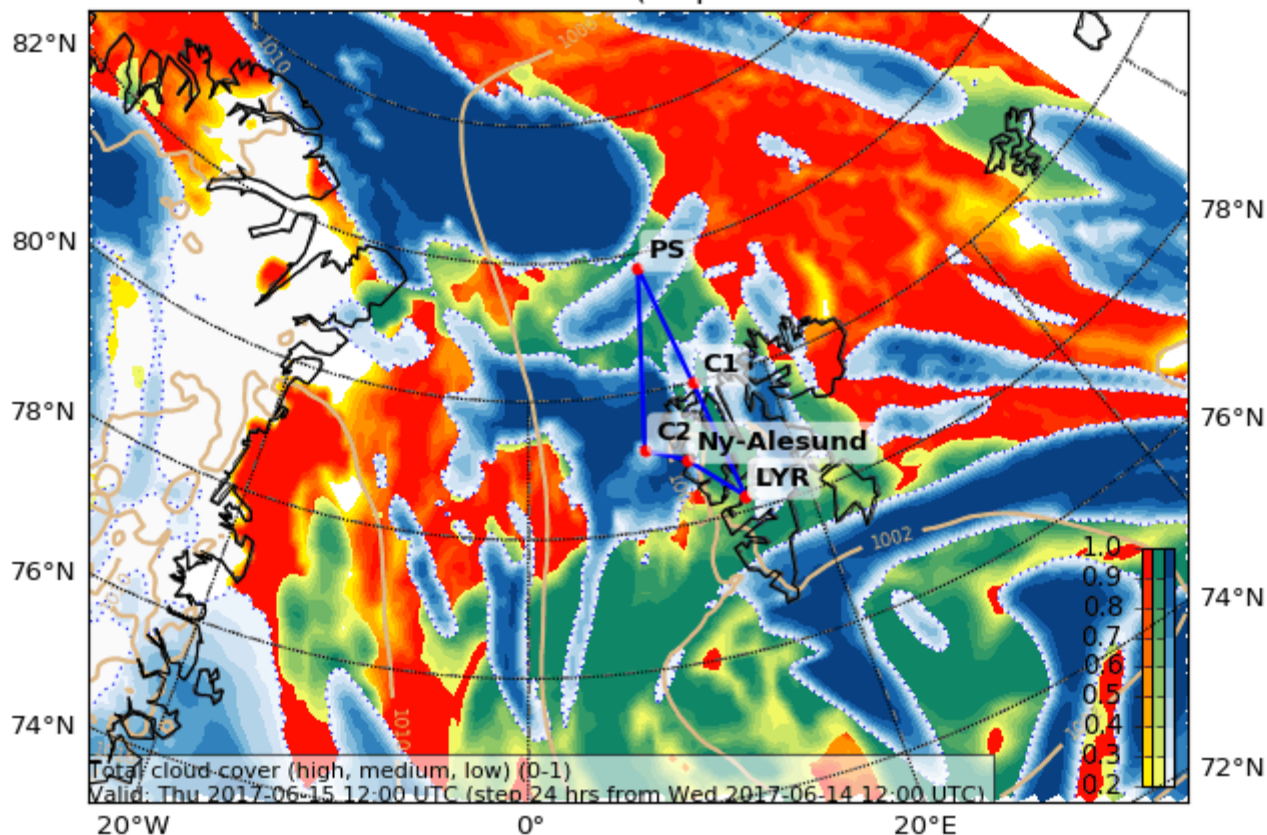
Cloud Cover (0-1) (Total Cloud Cover)
Valid: Thu 2017-06-15 15:00 UTC (step 39 hrs from Wed 2017-06-14 00:00 UTC)

Total cloud-cover (high, medium, low) (0-1)
Valid: Thu 2017-06-15 15:00 UTC (step 39 hrs from Wed 2017-06-14 00:00 UTC)

Cloud Cover (0-1) (Total Cloud Cover)
Valid: Thu 2017-06-15 12:00 UTC (step 24 hrs from Wed 2017-06-14 12:00 UTC)

Total cloud cover (high, medium, low) (0-1)
Valid: Thu 2017-06-15 12:00 UTC (step 24 hrs from Wed 2017-06-14 12:00 UTC)

Cloud Cover (0-1) (Total Cloud Cover)
Valid: Thu 2017-06-15 15:00 UTC (step 27 hrs from Wed 2017-06-14 12:00 UTC)
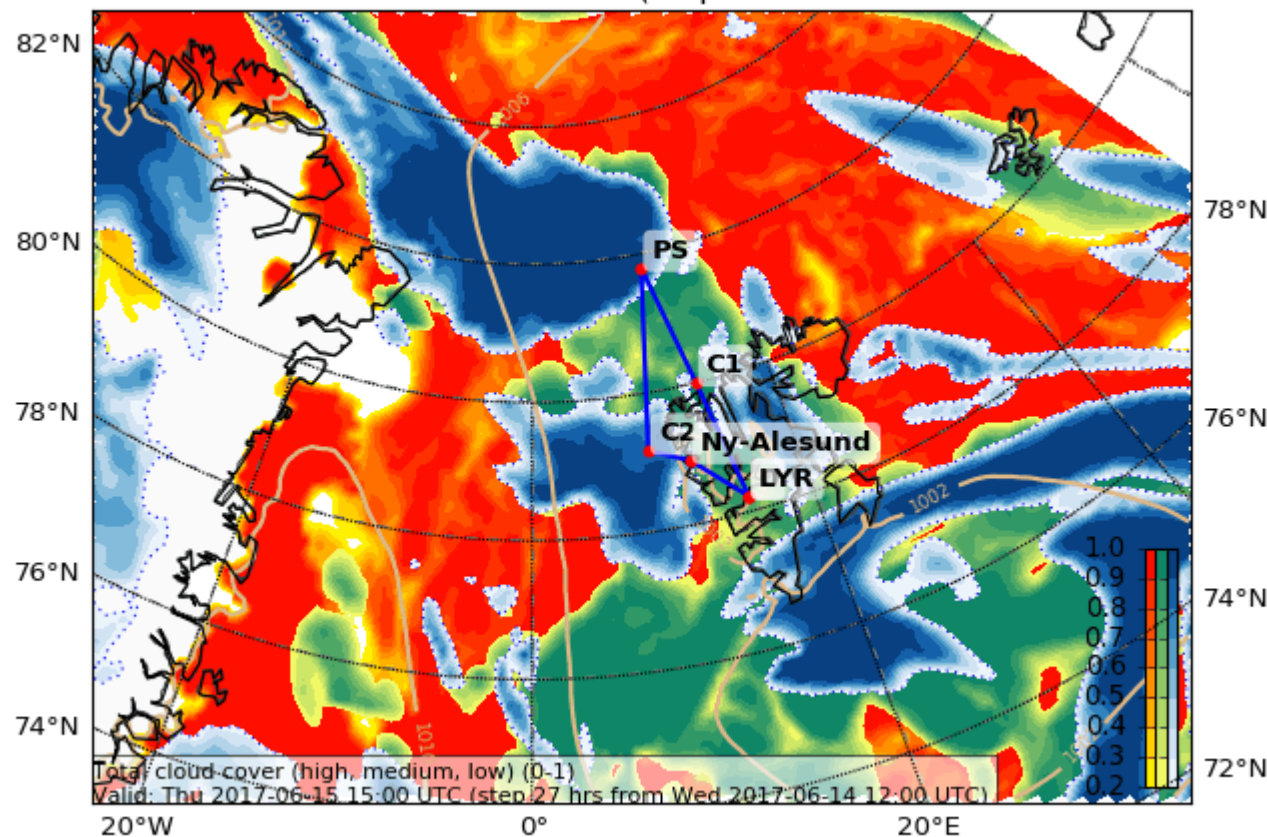

Total cloud cover (high, medium, low) (0-1)
Valid: Thu 2017-06-15 15:00 UTC (step 27 hrs from Wed 2017-06-14 12:00 UTC)

Cloud Cover (0-1) (Total Cloud Cover)
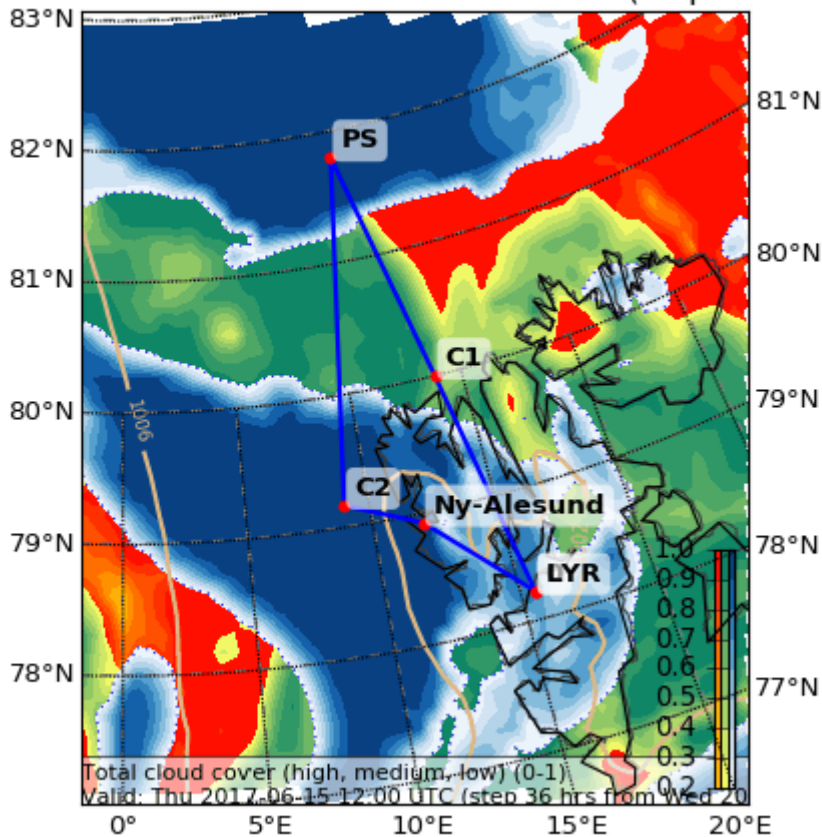Valid: Thu 2017-06-15 12:00 UTC (step 36 hrs from Wed 2017-06-14 00:00 UT

Old
12 UTC

Total cloud cover (high, medium, low) (0-1)
Valid: Thu 2017-06-15 12:00 UTC (step 36 hrs from Wed 20

Cloud Cover (0-1) (Total Cloud Cover)
Valid: Thu 2017-06-15 15:00 UTC (step 39 hrs from Wed 2017-06-14 00:00

Old
15 UTC

Total cloud cover (high, medium, low) (0-1)
Valid: Thu 2017-06-15 15:00 UTC (step 39 hrs from Wed 20

Cloud Cover (0-1) (Total Cloud Cover)
Valid: Thu 2017-06-15 12:00 UTC (step 24 hrs from Wed 2017-06-14 12:00 U
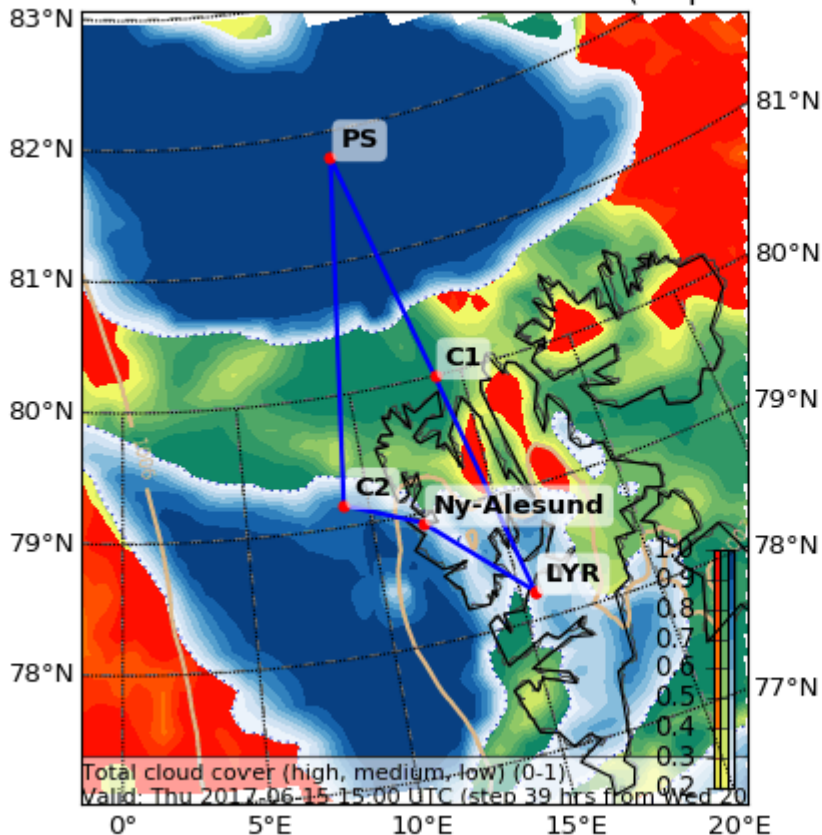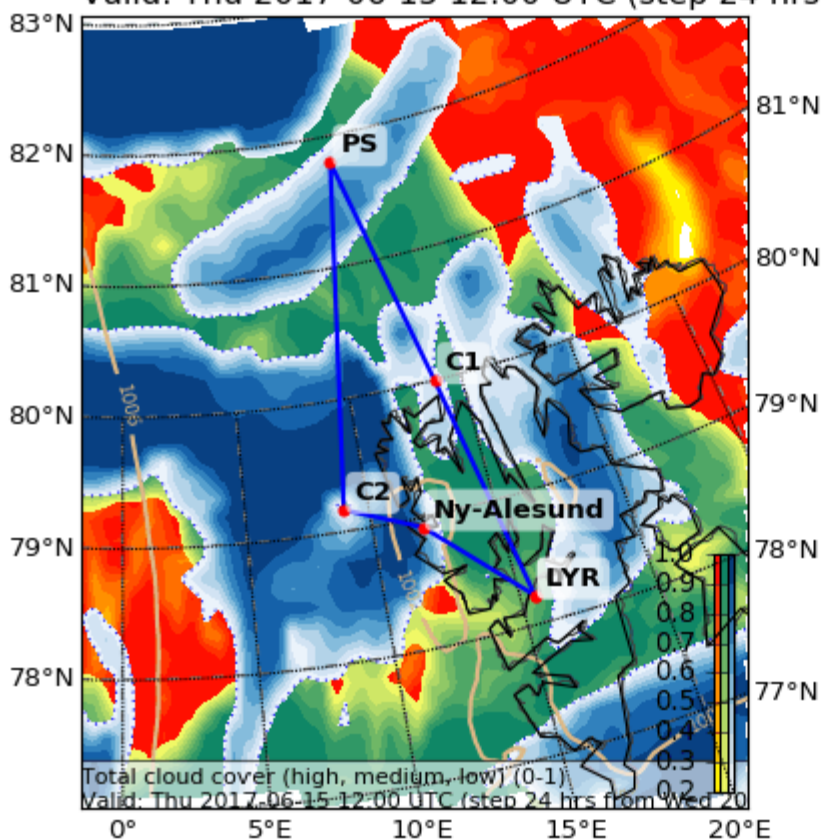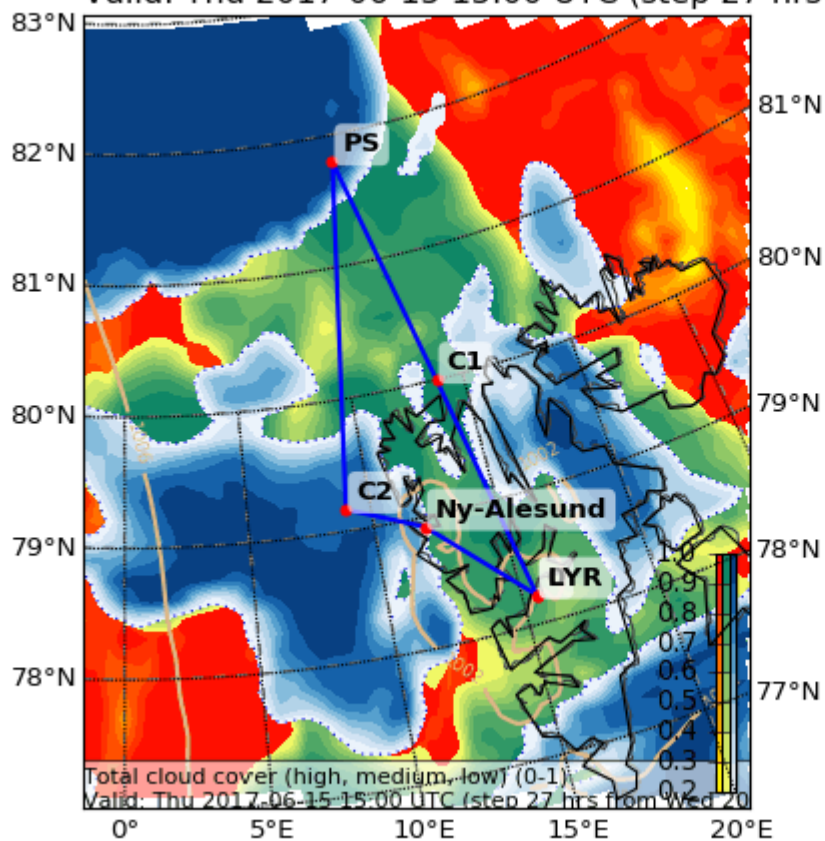
New
12 UTC

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Valid: Thu 2017-06-15 15:00 UTC (step 27 hrs from Wed 2017-06-14 12:00

New
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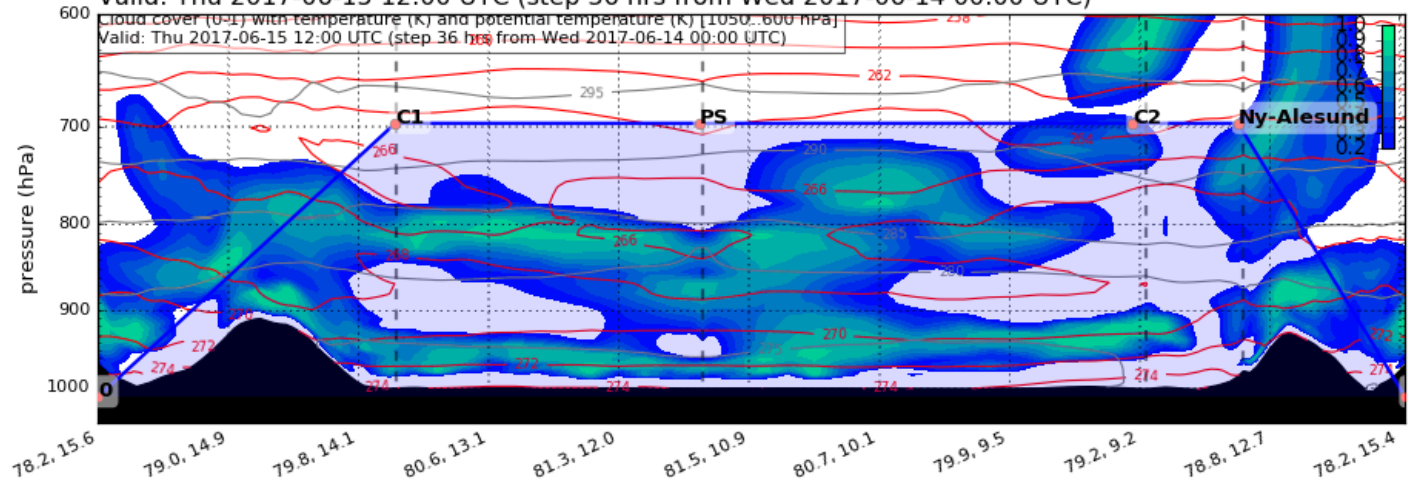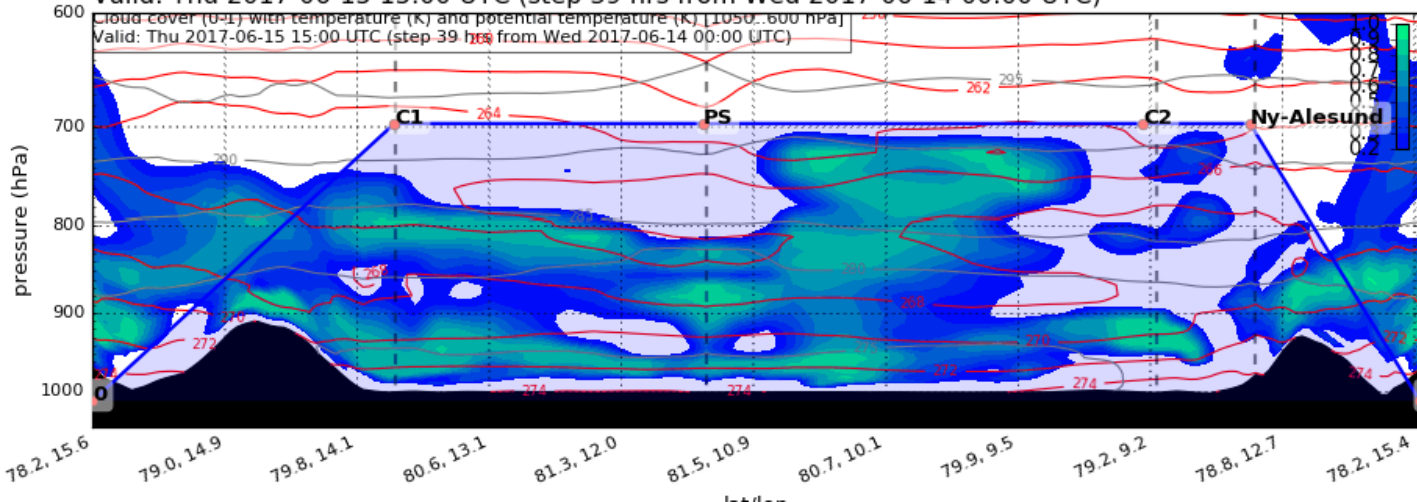
Old 12 UTC

Cloud Cover (0-1) Vertical Section
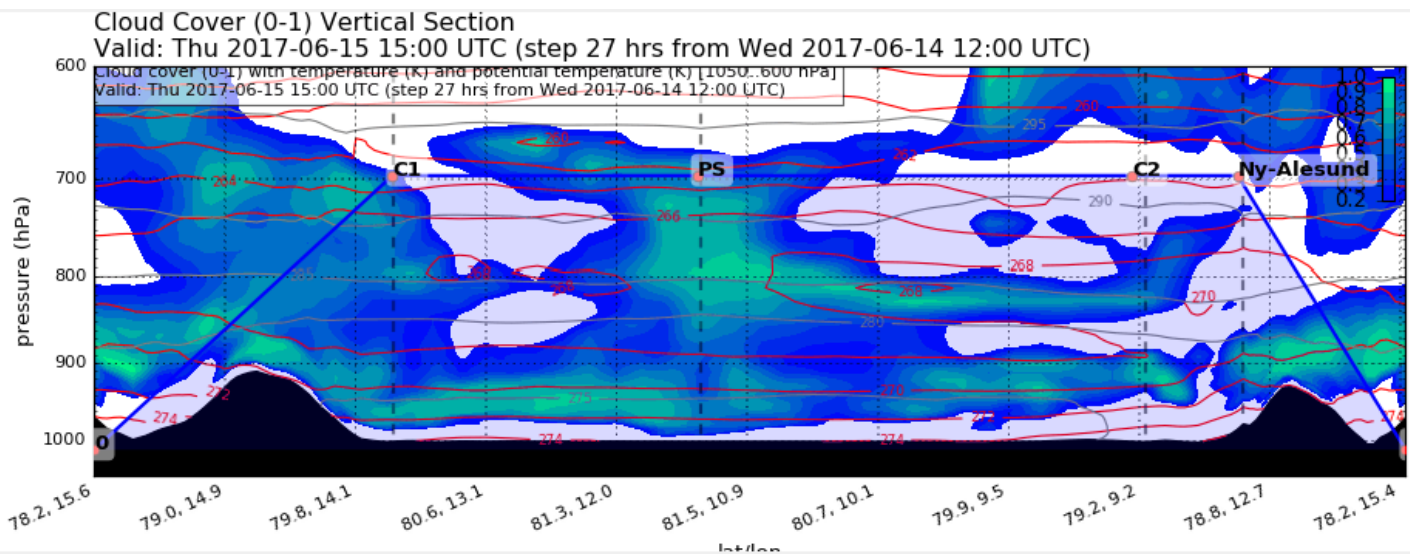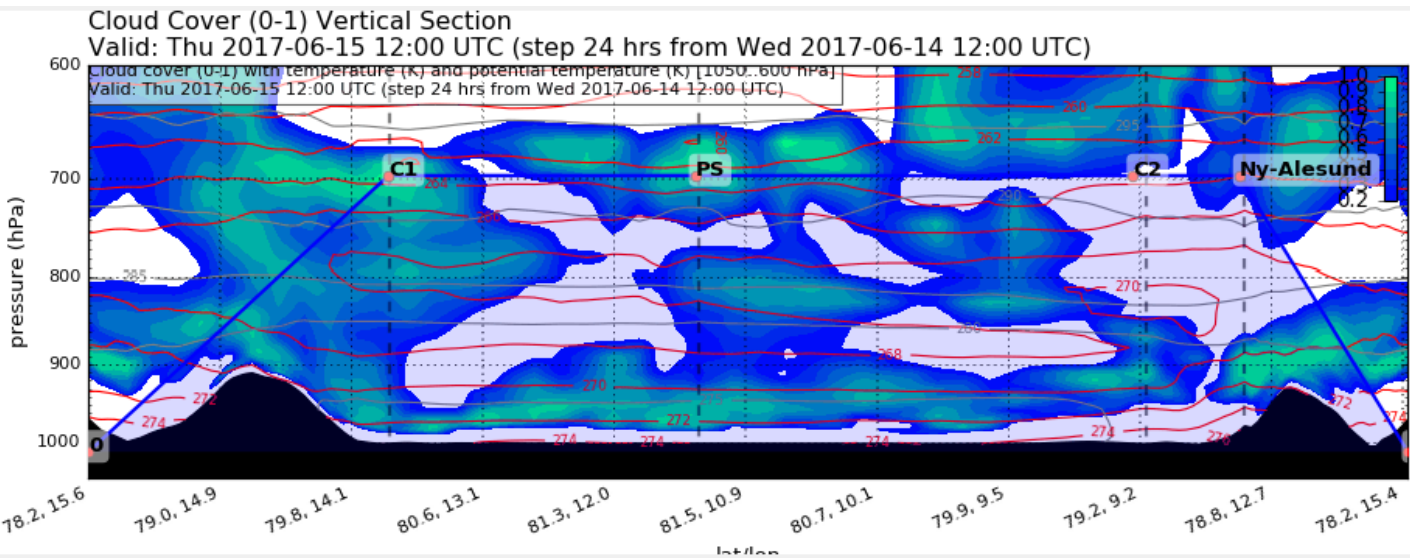Valid: Thu 2017-06-15 12:00 UTC (step 36 hrs from Wed 2017-06-14 00:00 UTC)

Cloud Cover (0-1) Vertical Section
Valid: Thu 2017-06-15 15:00 UTC (step 39 hrs from Wed 2017-06-14 00:00 UTC)

Old 15 UTC

New 12 UTC

Cloud Cover (0-1) Vertical Section
Valid: Thu 2017-06-15 12:00 UTC (step 24 hrs from Wed 2017-06-14 12:00 UTC)

Cloud cover (0-1) with temperature (K) and potential temperature (K) [1050..600 hPa]
Valid: Thu 2017-06-15 12:00 UTC (step 24 hrs from Wed 2017-06-14 12:00 UTC)

C1   PS   C2   Ny-Alesund

O

78.2, 15.6   79.0, 14.9   79.8, 14.1   80.6, 13.1   81.3, 12.0   81.5, 10.9   80.7, 10.1   79.9, 9.5   79.2, 9.2   78.8, 12.7   78.2, 15.4

lat/lon

Cloud Cover (0-1) Vertical Section
Valid: Thu 2017-06-15 15:00 UTC (step 27 hrs from Wed 2017-06-14 12:00 UTC)

Cloud cover (0-1) with temperature (K) and potential temperature (K) [1050..600 hPa]
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78.2, 15.6   79.0, 14.9   79.8, 14.1   80.6, 13.1   81.3, 12.0   81.5, 10.9   80.7, 10.1   79.9, 9.5   79.2, 9.2   78.8, 12.7   78.2, 15.4

lat/lon

New 15 UTC