

POLAR 5

Crew: Mission PI Christof Lüpkes
AWI Lukas Kandora
SMART Johannes Stapf
Eagle/Hawk Elena Ruiz
MiRAC Tobias Doktorowski
AMALi Tobias Donth

Est. Take Off: 10:30 LT

Est. Duration: 6 hr 6 min

POLAR 6

Crew: Mission PI Heiko Bozem
AWI Cristina Sans Coll
CVI Udo Kästner
Aerosol I Franziska Köllner
Aerosol II Oliver Eppers
PMS Delphine Leroy

Est. Take Off: 10:30 LT

Est. Duration: 5 hr 30 min

Alternative B

POLAR 6

Flight Plan (Alternative B, if only low clouds, estimates of duration only for P5)

LYR → W0	10,000 ft:	1 Nm , 160 kn	47 min
W0 → W1	P5 arrives at W1 in 200 ft, descend at 1000 ft/min P6 arrives at W1 in cloud layer	71 Nm , 160 kn	27 min
at W1, 5 legs (8 min length), lowest in 200 ft			50 min
W1 → W3	free height		
at W3, 5 legs (8 min length), lowest in 200 ft			50 min
W3 → W4 → LY			
If time available fly 4 squares with 1 min edge length, 100, 120, 145 kn, 100 kn			
→ Home to Longyear 10.000 ft, free speed			



Waypoints:

LYR:	78° 14.816' N	15° 27.545, E
W0:	80° 0.242' N	13° 27.144' E
W1:	81° 1.056' N	11° 53.172' E
PS:	81° 54.000N	9° 54.000' E
W2:	81° 52.451'N	5° 44.294' E
W3:	81° 00.000'N	7° 26.198' E
W4:	79° 14.892' N	9° 59.793' E

Dropsondes at W0 W1 W2 W3 W4
PS

ACLOUD Flight 2017 06 11 Sunday

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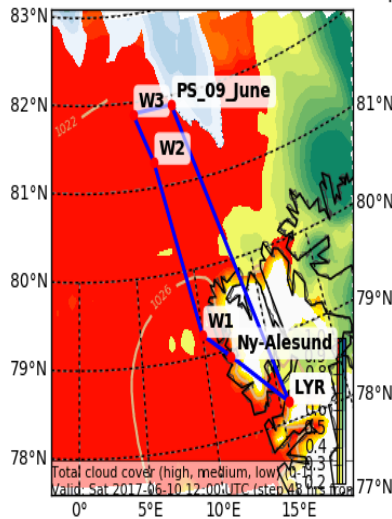
Flight Plan (Alternative A, if middle clouds are present)

LJR → W0	10,000 ft:	1 Nm , 160 kn	47 min
W0 → W1	P5 arrives at W1 in 200 ft, descent at 1000 ft/min P6 arrives at W1 in cloud layer	71 Nm , 160 kn	27 min
W1 → PS	P5: 200 ft P6: in cloud layer	60 Nm, 120 kn	30 min
At PS:	5 staggered legs (8 min length) in different heights, e.g. 200 ft, 400 ft, 600 ft, 1000 ft, 1500 ft, P6 staggered legs in clouds Lowest P6 leg in 2500 ft	120 kn	50 min
PS → W2	200 ft Collocated with P6, which flies in 500 ft or as close as possible	40 Nm, 120 kn	20 min
At W2:	5 staggered legs (8 min) in different heights P6, staggered legs in clouds	120 kn	50 min
W2 – W4	climb to 8.000 ft, at 8000 ft 4 squares of 1 min edge length with 100 kn, 120 kn, 140 kn, 100 kn	70 min+35 min	
→ Home to Longyear	10.000 ft, free speed		38 min

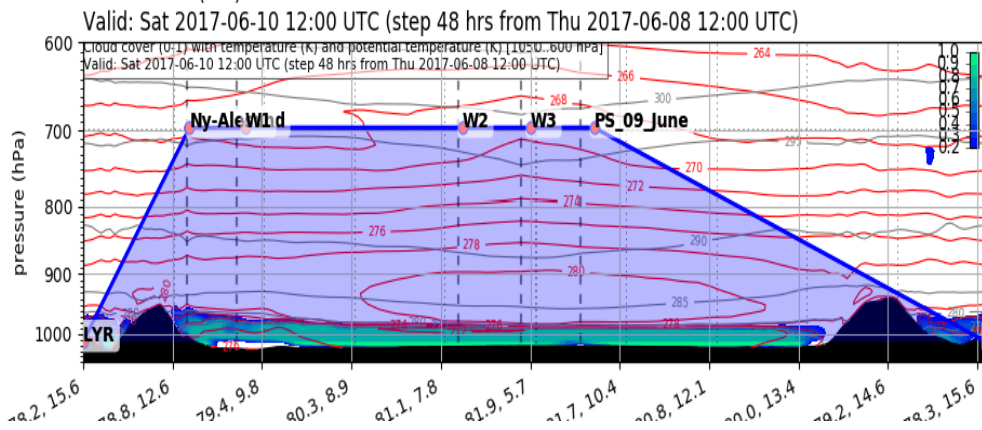
Forecast Saturday 12 UTC

Cloud Cover (0-1) (Total Cloud Cover)

Valid: Sat 2017-06-10 12:00 UTC (step 48 hrs from Thu 2017-06-08 12:00 UTC)



EPSG:77790000



P5 Plan

