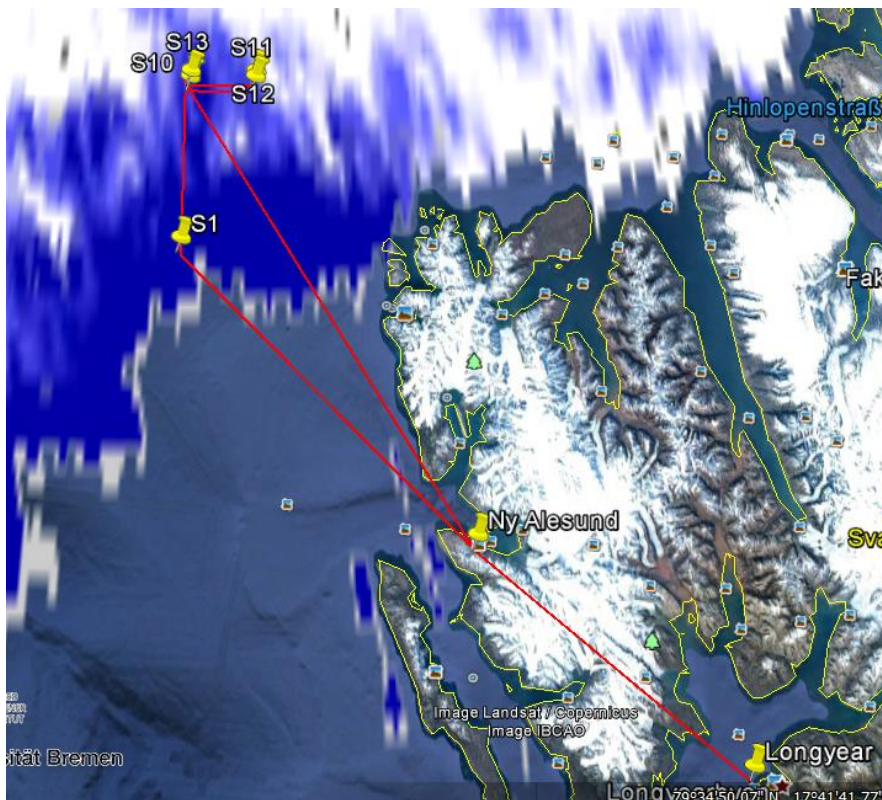


Flight plan, 29.5.2017

Polar 6

Mission PI: Johannes Schneider
Crew:
ALABAMA: Hans-Christian Clemen
CVI: Stephan Mertes
Trace gas/AWI Aerosol: Heiko Bozem
AWI data acquisition: Daniel Damaske
PMS: Delphine Leroy

T/O 7:00 LT, 6:30 doors closed, start at airport 5:00.



Waypoints:

LYR	78°14.71' N, 15°14.71' E
Ny Alesund	78°55.00' N, 11°50.00' E
S1	79°45.212' N, 7°28.937' E
S10	80°13.00' N, 7°30.512' E
S11	80°13.00' N, 8°35.271' E
S12	80°13.947' N, 8°35.702' E
S13	80°13.947' N, 7°30.512' E

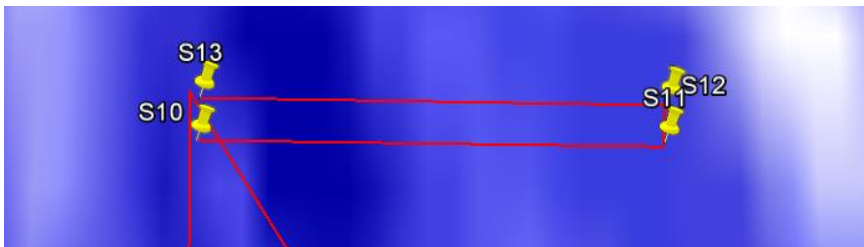
Track: LYB – Ny Alesund – S1 – S10 – S11 – S12 – S13 – Ny Alesund - LYB

Details:

LYB – Ny Alesund: 1500 ft (if terrain permits). Fly over Ny Alesund fjord at 1500 ft.

After **Ny Alesund over S1 to S10:** alternate between **200 ft** (5 min) and **1500 ft** (5 min)

S10 – S11 – S12 – S13: Rectangle ("**Racetrack**") at **120 knots:** start below clouds (200 ft), **S10-S11: 11 miles**, at S11 180° turn and climb 200 ft (S12), next leg **1 mile parallel** to first leg, at S13 turn 180° and, climb 200 ft (S10), repeat...(Levels: **200, 400, 600, 800, 1000, 1200, 1400, 1600 ft**). 8 x 10 min = 80 minutes



Return:

On the way from **S13 – Ny Alesund:** climb to **10000 ft**,

Noseboom calibration pattern:

Square with 3 miles each side, 4 speeds: 100, 120, 150, 100 knots. First leg into direction of sun.

Then climb to **12000 ft**, before Ny Alesund descend to **5000 ft**, then descend to LYB

All climbs and descents 500 ft/min

Total time approx. 4:30