

ACLOUD Flight 2017 06 02, Friday

POLAR 5
Remote

Crew:	Mission PI	Susanne Crewell	
	AWI	Christoph Petersen	Est. Take Off: 10:30 LT
	SMART	Johannes Stapf	
	Eagle/Hawk	Elena Ruiz	Est. Duration: 4 h 20 Min
	MiRAC	Mario Mech	
	AMALI	Friedhelm Jansen	

Waypoints:	LYR:	78° 14.816' N,	15° 27.545' E
	NyA:	78° 55.421' N,	11° 55.377' E
	C1 (Sat):	79° 27.732' N,	8° 34.356' E
	C2 (PS):	80° 24.000, N,	7° 12.000, E

Flight Plan

LYR – NyA climb and stay at 10,000 ft:	60 NM @ 140kn	25 min
→ over glacier at 1000 ft climb when needed to be at 10.000ft begin of the fjord		
Loop-pattern at 10,000 ft		20 min
NyA – C1 at 10,000 ft:	50 NM @ 120kn	20 min
leave Ny Alesund at 11:39 to be on satellite track		
Release dropsonde #1 just before C1		
C1 – C2(PS) at 10,000 ft:	58 NM @ 120kn	25 min
Before reaching PS: Release dropsonde #2		
Four double-triangle pattern, 10,000 ft, 15 miles leg length, 120 kn		100 min
In coordination with P6		
After double-triangle pattern: Release dropsonde #3		
After passing C1: Release dropsonde #4		
C2 at 10,000 ft:	50 NM @ 140kn	20 min
Loop pattern at 10,000 ft:	58 NM @ 140kn	20 min
C1 – NyA at 10,000 ft:	50 NM @ 140kn	20 min
NyA – LYR descent from 10,000 ft:	60 NM @ 140kn	25 min

Total: ??? NM 4 h 40 min

Loop-pattern at 10,000 ft 20 min

B. Double Triangle at 10,000 ft above Polarstern, duration about 25 min

4x

A. Loop-pattern at 10,000 ft in Ny Alesund, duration about 20 min

2x

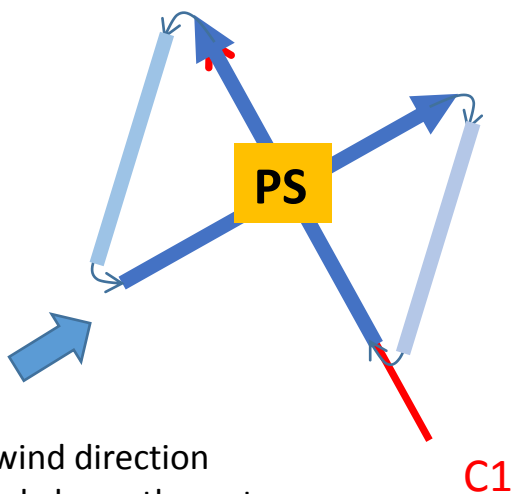


4 Dropsondes

- D1, D4 at satellite overpass
- D2 when reaching PS
- D3 when leaving PS

B. Double triangle-pattern

15 mile straight leg, parallel and perpendicular to the wind



A. Loop-pattern at 10,000 ft 5 min straight leg

