

ACLOUD Flight 2017 06 08, Thursday

**POLAR 5
Remote**

Crew:	Mission PI	Mario Mech	
	AWI	Christoph Petersen	Est. Take Off: 9:40 LT
	SMART	Johannes Stapf	
	Eagle/Hawk	Elena Ruiz	Est. Duration: 5 h 41 Min
	MiRAC	Friedhelm Jansen	
	AMALi	Roland Neuber	

Waypoints:	LYR:	78° 14.816' N,	15° 27.545' E
	NyA:	78° 55.421'N	11° 55.377'E
	C1:	79° 31.206'N,	8° 41.792'E
	C2:	80° 27.234'N,	9° 38.604'E
	C3:	81° 1.164'N,	2° 54.426'E
	C4 (PS):	81° 45.000'N,	10° 12.000'E
	C1:	79° 31.206'N,	8° 41.792'E
	LYR:	78° 14.816'N,	15° 27.545'E

LYR – C1 Glacier then climb and stay at 10,000 ft: **110 NM @ 140 kn** **47 min**

C1 – C2 at 10,000 ft: **55 NM @ 140 kn** **24 min**

At C2: 10:58:00 LT (Satellite)

C2 – C3 at 10,000 ft: **72 NM @ 140 kn** **31 min**

C3 – C4(PS) at 10,000 ft: **81 NM @ 140 kn** **35 min**

One cross pattern 10,000 ft, 14 miles leg length (15 min),

descend to below cloud (20 min),

2 legs below cloud, 1 leg close to cloud top within, 1 just above (40 min),

120 kn **75 min**

C4 (PS) – C1 ascend to 10,000 ft **144 NM @ 140 kn** **62 min**

C1 – NYA descend from 10,000 ft to below the cloud: **22 min**

Loop pattern over Ny Alesund **20 min**

NYA – LYR descend from 10,000 ft to below the cloud:

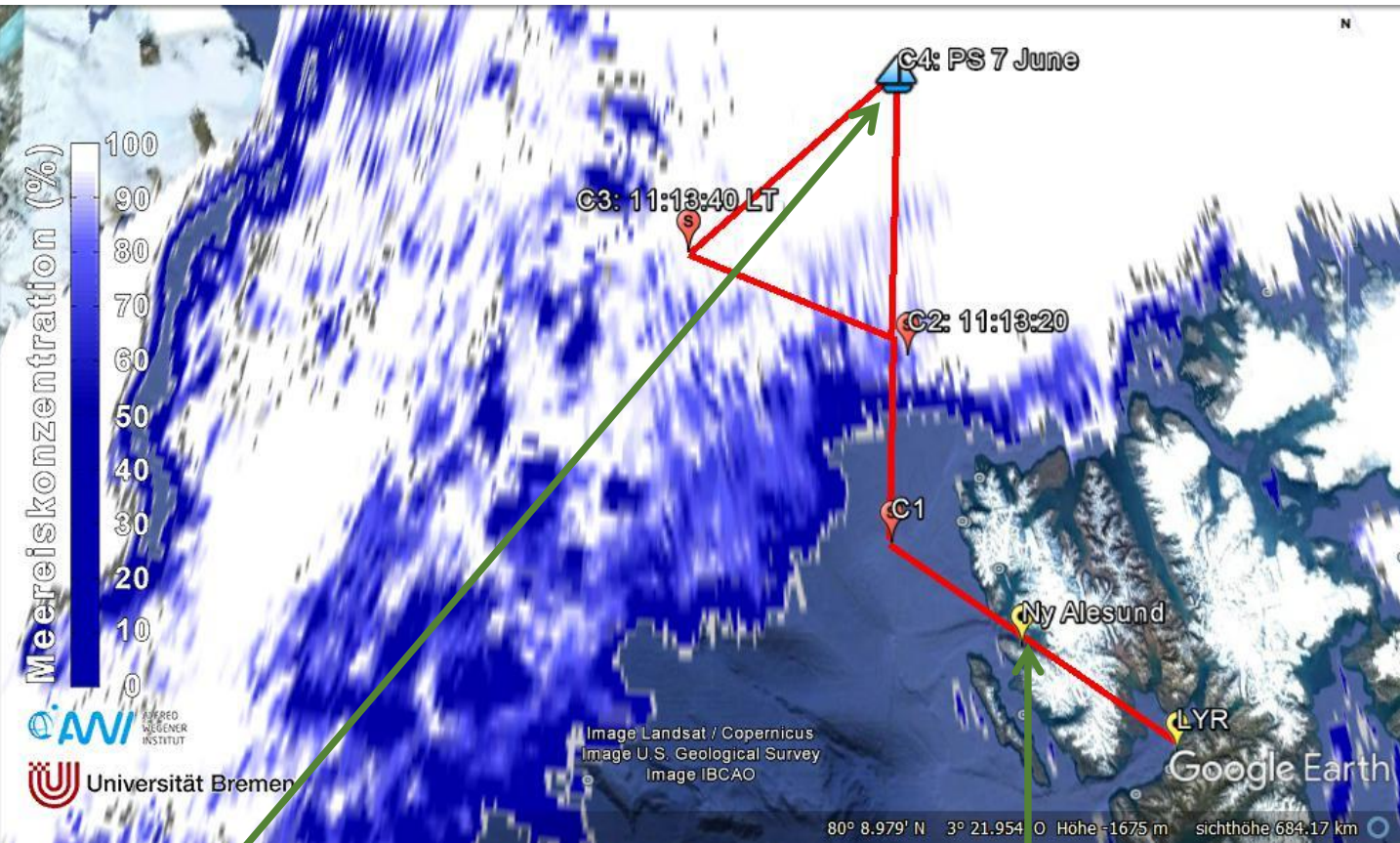
60 NM @ 140 kn **25 min**

Total: 636 NM 5 h 41 min

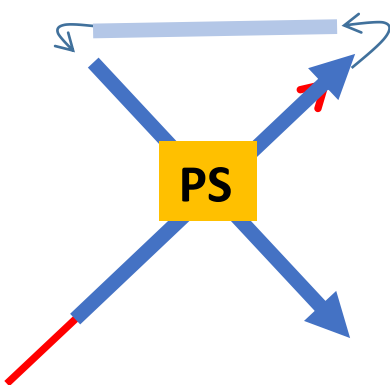
7 Dropsondes: C1, C2, C2–C3, C3, (PS), C2, C1

Double Triangle at 10,000 ft
above Polarstern, duration about
4 x 25 min

7 Dropsondes
Balloon! (stay 2 miles
away from PS)

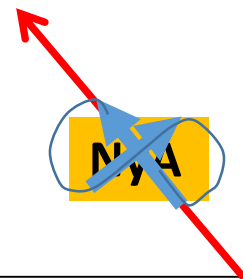


B. cross-pattern at 10,000 ft
15 miles each leg; legs
perpendicular (close to
Polarstern)



Very low winds expected
no orientation with respect to wind

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



C. Legs at variable altitudes
4 x 8 min straight leg

