

ACLOUD Flight 2017 06 05, Monday

POLAR 5
Remote

Crew:	Mission PI	Manfred Wendisch		
	AWI	Christoph Petersen	Est. Take Off:	9:20 LT
	SMART	Michael Schäfer		
	Eagle/Hawk	Elena Ruiz	Est. Duration:	4 h 58 Min
	MiRAC	Tobias Doktorowski		
	AMALi	Mario Mech		

Waypoints:	LYR:	78° 14.816' N,	15° 27.545' E
	C1:	80° 48.900' N,	13° 20.202' E
	C2:	81° 18.072' N,	6° 7.032' E
	C3 (PS):	82° 0.000' N,	10° 30.000' E
	C2:	81° 18.072' N,	6° 7.032' E
	C1:	80° 48.900' N,	13° 20.202' E
	LYR:	78° 14.816' N,	15° 27.545' E

LYR – C1 climb and stay at 10,000 ft: **158 NM @ 140 kn** **68 min**

Waiting loop to start at C1 at 10:30 LT

C1 – C2 at 10,000 ft: **73 NM @ 140 kn** **31 min**

Release *dropsonde #1*; 5 min after C1

Release *dropsonde #2*; 5 min before C2

C2 – C3 (PS) at 10,000 ft: **56 NM @ 140 kn** **24 min**

Before reaching PS: Release *dropsonde #3*

C3 (PS) Three double-triangle pattern, 10,000 ft, 15 miles leg length, 120 kn
In coordination with P6 **75 min**

C3 (PS) – C2 descend from 10,000 ft to below the cloud:

75 NM @ 140 kn **32 min**

Release *dropsonde #4*; 5 min after PS

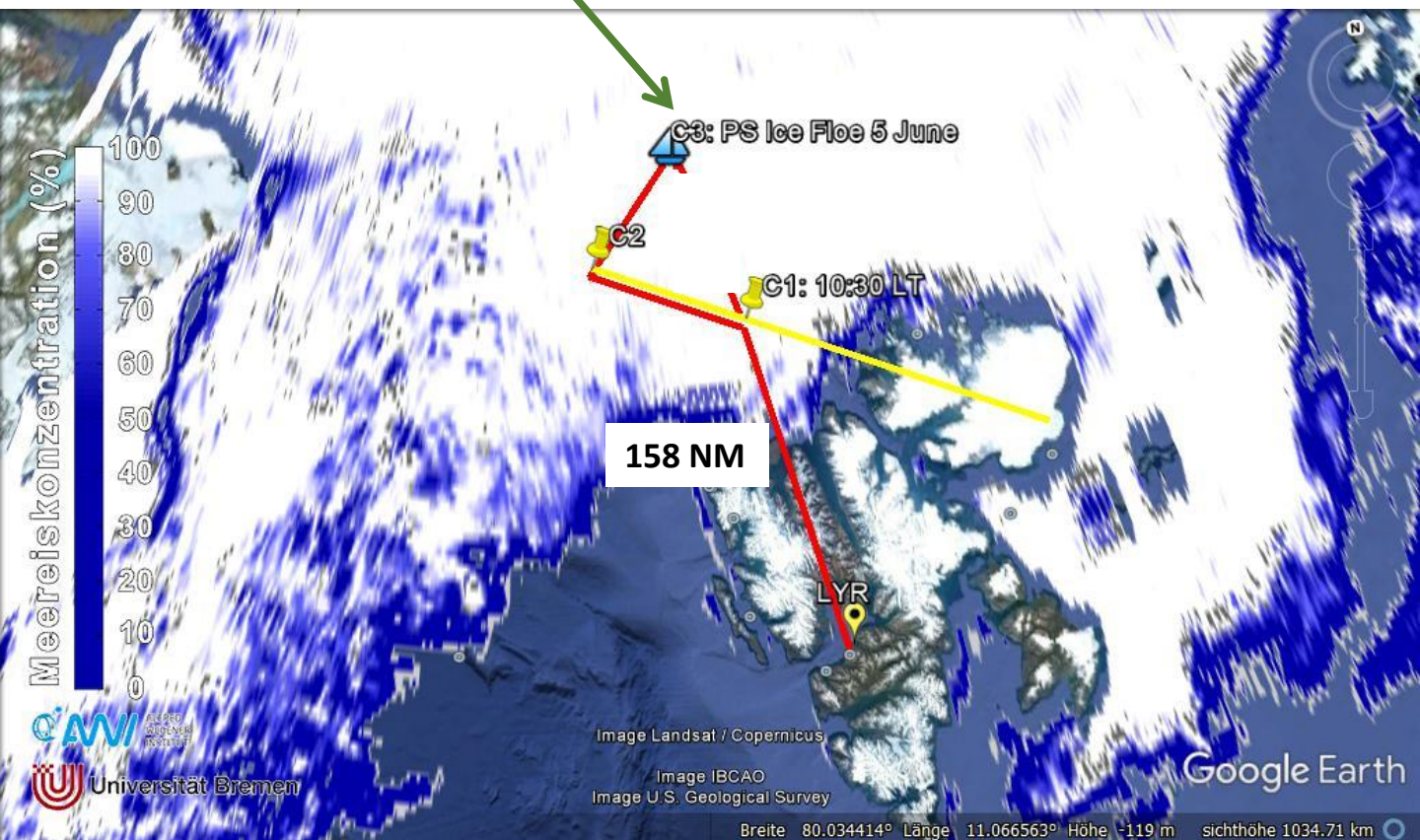
C2 – C1 below the cloud: **73 NM @ 140 kn** **31 min**

C1 – LYR descend from 10,000 ft: **158 NM @ 140 kn** **68 min**

Total: 655 NM 5 h 29 min

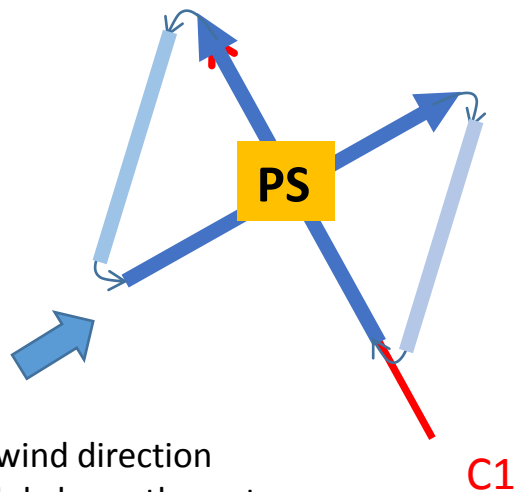
Double Triangle at 10,000 ft
above Polarstern, duration about
4 x 25 min

4 Dropsondes
Balloon! (stay 2 miles
away from 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

