

# ACLOUD Flight 2017 06 05, Monday

**POLAR 6  
in situ**

Crew:	Mission PI	Johannes Schneider		
	AWI	Martin Gehrman	Est. Take Off:	9:20 LT
	Aerosol 1	Hans Clemen		
	Aerosol 2	Udo Kästner	Est. Duration:	4 h 58 Min
	Trace Gas	Heiko Bozem		
	PMS 1	Delphine Leroy		
	PMS 2	Martin Schnaiter		

Waypoints:	<b>LYR:</b>	78° 14.816' N,	15° 27.545' E
	<b>C1:</b>	80° 48.900' N,	13° 20.202' E
	<b>C2:</b>	81° 18.072' N,	6° 7.032' E
	<b>PS:</b>	<b>82° 0.000' N,</b>	<b>10° 30.000' E</b>
	<b>C1:</b>	80° 48.900' N,	13° 20.202' E
	<b>LYR:</b>	78° 14.816' N,	15° 27.545' E

LYR – C1 climb to 5000 ft, over water descend thru cloud: **158 NM @ 140 kn**  
**68 min**

Waiting loop (200 ft) to start at C1 at 10:30 LT

C1 – C2 saw tooth (100 ft /min) through clouds: **73 NM @ 140 kn**  
**31 min**

C2 – PS saw tooth (100 ft /min) through clouds: **56 NM @ 140 kn**  
**24 min**

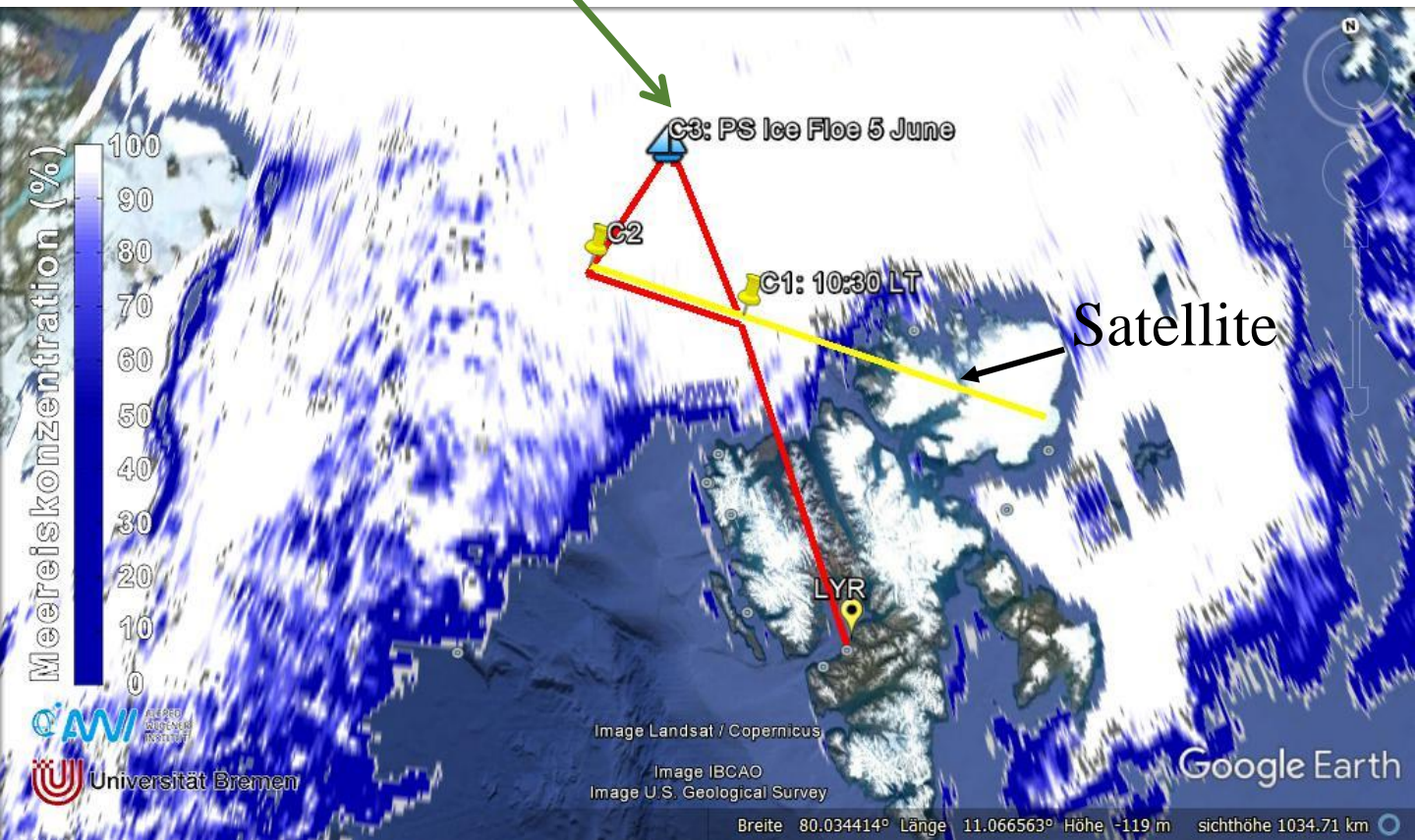
PS position Three double-triangle patterns, 15 miles leg length,  
2 legs below, 2 legs in, 2 above clouds **@ 120 kn**  
(in coordination with P5)  
**75 min**

PS – C1 saw tooth (100 ft /min) through clouds: **75 NM @ 140 kn**  
**32 min**

C1 – LYR climb to 12000 ft (with level at 6000),  
descend from 12,000 ft to LYB **158 NM @ 140 kn**  
**68 min**

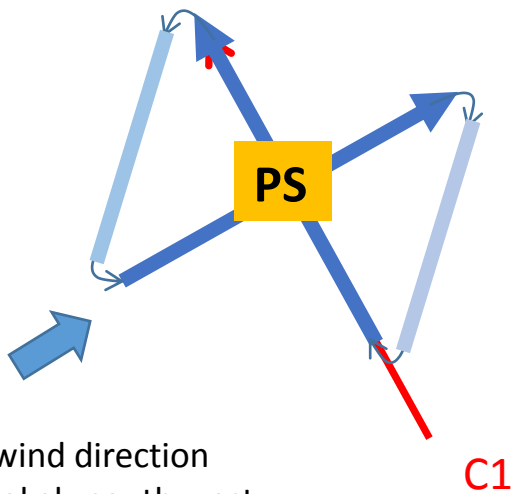
**Total:** 582 NM 4 h 58 min

Double Triangle below, in, and above cloud above Polarstern, duration about 3 x 25 min



### 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

