

# ACLOUD Flight 2017 06 12

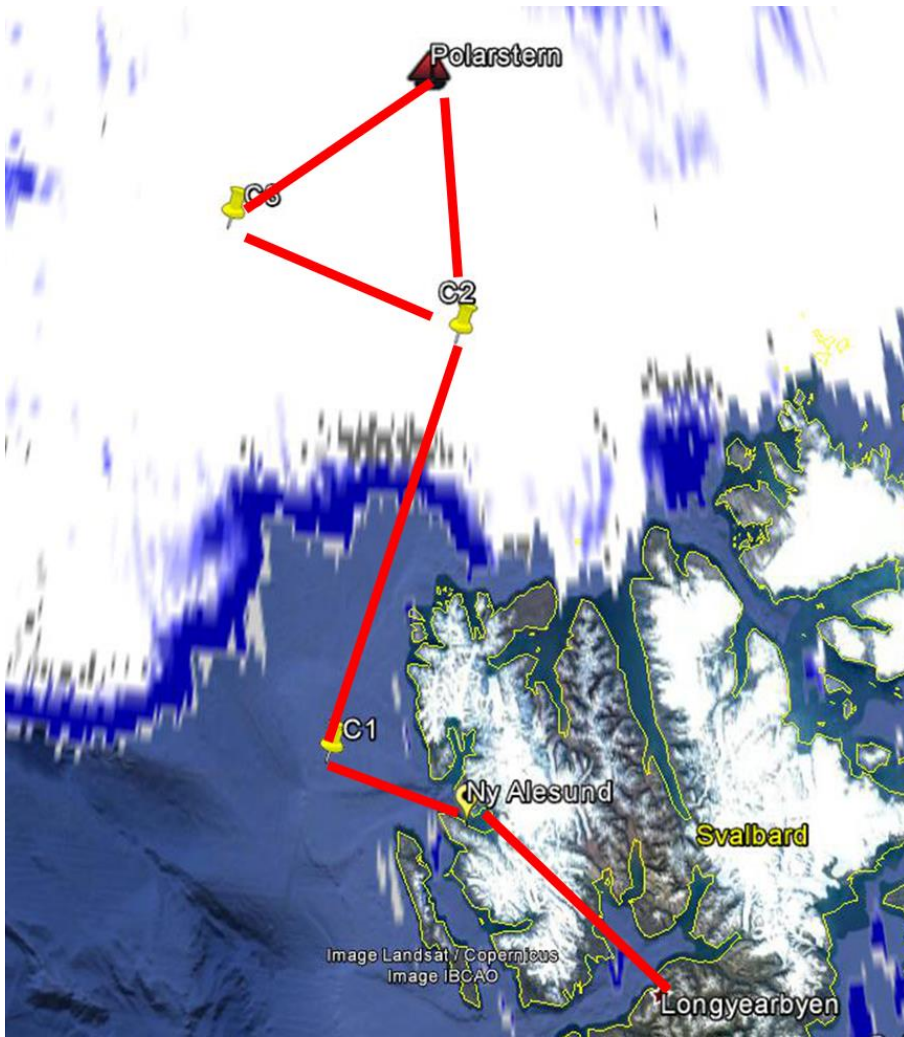
**POLAR 6**  
**In Situ**

Crew:	Mission PI	Manfred Wendisch	
	AWI	Cristina Sans i Coll	Est. Take Off: 09:00 LT
	Aerosol 1	Udo Kästner	
	Aerosol 2	Franziska Köllner	Est. Duration: 5 h 15 min
	Trace Gas	Oliver Eppers	
	PMS 1	Delphine Leroy	

Waypoints: **NyA:** 78° 55.400' N, 11° 55.400' E  
**C1:** 79° 10.000' N, 9° 00.000' E  
**C2:** 80° 49.200' N, 11° 45.000' E  
**C3:** 81° 14.000' N, 5° 43.000' E  
**PS:** 81° 48.000' N, 11° 06.000' E

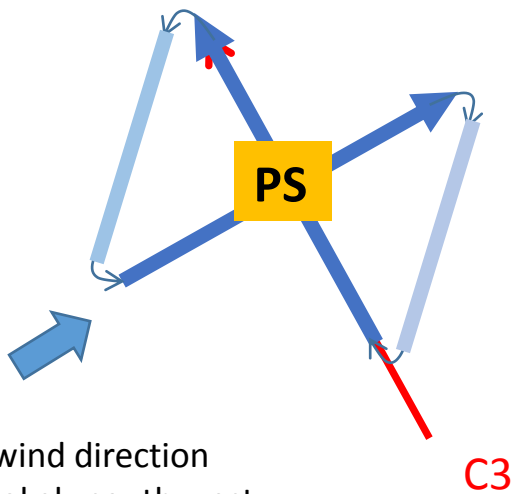
<u>LYR – NyA</u>	Climb to 1500 ft	<b>60 NM @ 140kn</b>	<b>30 min</b>
<u>NyA – C1</u>	Pass NyA at 1500 ft (if wolo) Saw tooth (150 ft /min) through clouds	<b>40 NM @ 140kn</b>	<b>15 min</b>
<u>C1 – C2</u>	Saw tooth (150 ft /min) through clouds <i>collocated with P5</i>	<b>105 NM @ 140kn</b>	<b>45 min</b>
<u>C2 – C3</u>	Saw tooth (150 ft /min) through clouds <b>Start from C2 at 10:33 LT, collocated with P5</b>	<b>60 NM @ 140kn</b>	<b>25 min</b>
<u>C3 – PS</u>	Saw tooth (150 ft /min) through clouds <i>collocated with P5</i>	<b>60 NM @ 140kn</b>	<b>25 min</b>
<u>PS position</u>	3 double-triangle pattern, 6 altitudes, 15 miles leg length, 120 kn First double triangle collocated with P5 Racetrack (1 min legs) to 12,000 ft	<b>60 NM @ 140 kn</b>	<b>75 min</b>
<u>PS – C2 – C1</u>	Staircase patterns through cloud 5 altitudes, 5 min leg length	<b>160 NM @140kn</b>	<b>70 min</b>
<u>C1 – NyA</u>	Pentrate cloud from below		
<u>NyA-LYR</u>		<b>60 NM @140kn</b>	<b>30 min</b>

Total: **5 h 15 min**

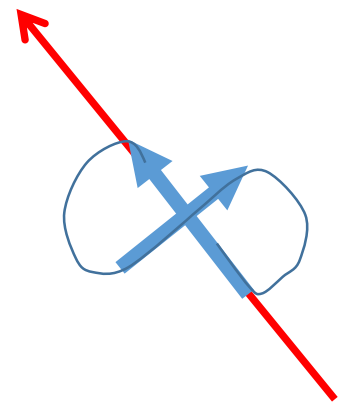


### B. Double triangle-pattern

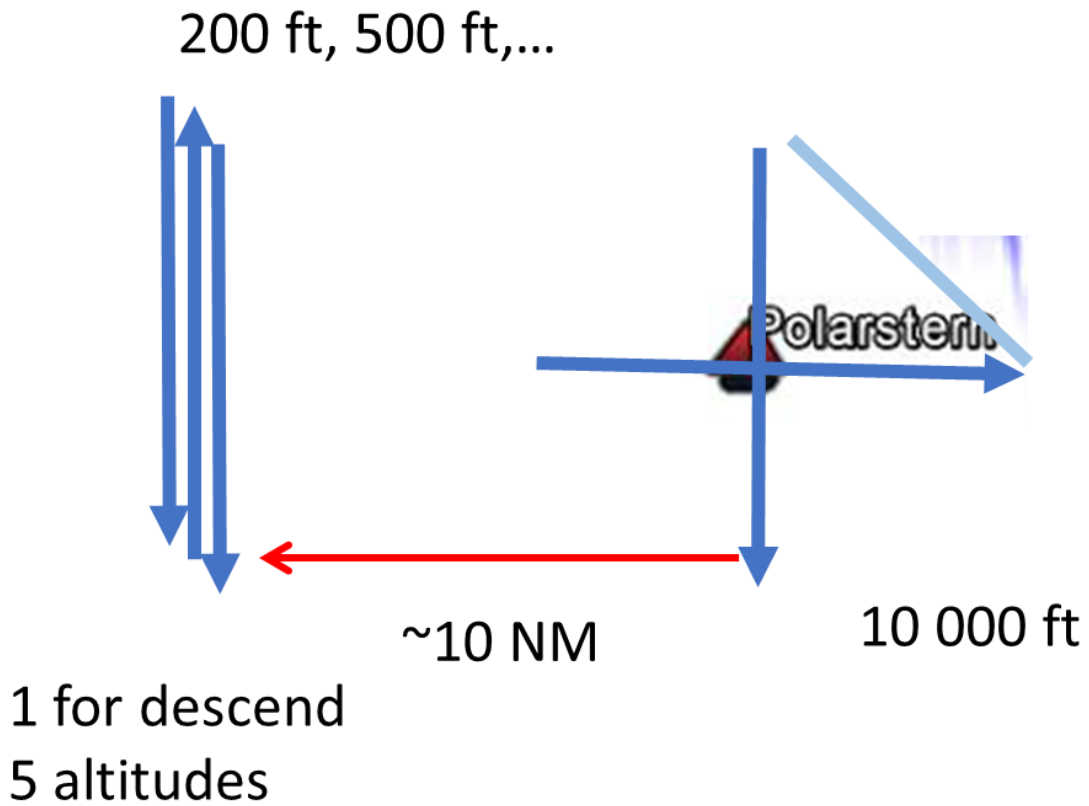
15 mile straight leg, parallel and perpendicular to the wind



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



## POLAR 5



## POLAR 6

