

ACLOUD Flight 2017 06 09 FRIDAY

POLAR 6

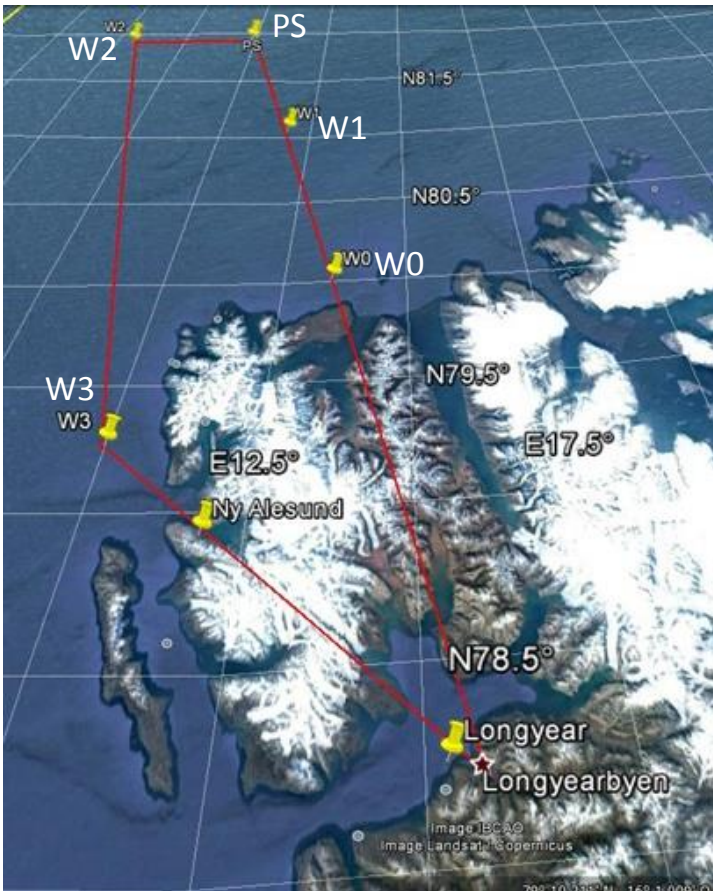
Crew: Mission PI Johannes Schneider
AWI Daniel Damaske
Aerosol 1 Hans Clemen
Aerosol 2 Stephan Mertes
Trace Gases Heiko Bozem
PMS Delphine Leroy

Est. Take Off: 10:00 LT

Est. Duration: 5 hr 30 min

Flight Plan

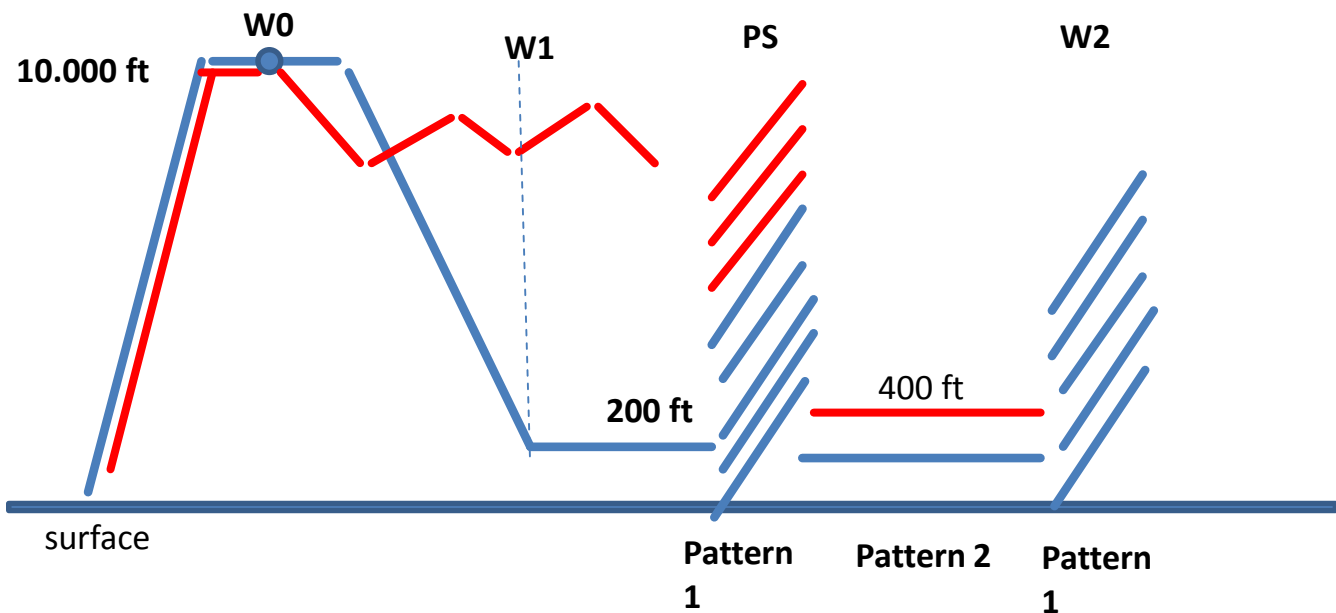
LYR → W0 climb and stay at 10,000 ft: Above section collocated with P5 (see Figure 1)	71 Nm , 160 kn	47 min
W0 → W1 sample clouds in different altitudes (saw tooth) P5 goes down to 200 ft at 120 kn	71 Nm , 160 kn	27 min
W1 → PS same as W0-W1 end at 10000 ft	60 Nm, 120 kn	30 min
At PS: 5 staggered legs (8 min length) in different heights, e.g. cloud top, center, bottom, 2500 ft (Highest P5 legs below 1500 ft)	120 kn	50 min
PS → W2 500 ft Collocated with P5, which flies in 200 ft or as close as possible	40 Nm, 120 kn	20 min
W2 – W3- LY, in cloud legs and above in diff. altitudes		70 min+35 min



Waypoints:

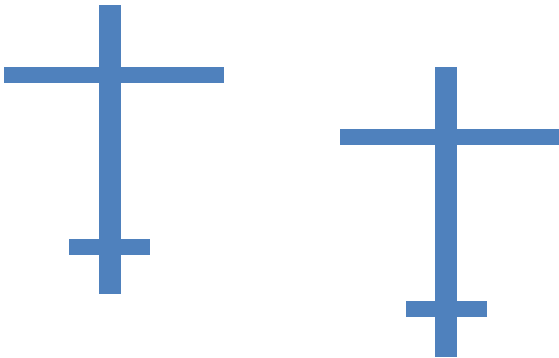
LYR:	78° 14.816' N	15° 27.545, E
W0:	80° 0.242' N	13° 27.144' E
W1:	81° 1.056' N	11° 53.172' E
PS:	81° 54.000' N	9° 54.000' E
W2:	81° 52.451' N	5° 44.294' E
W3:	79° 14.892' N	9° 59.793' E

- Polar 5
- Polar 6



Pattern 1
Right after take-off
already during ascend,
closely collocated to NA
Same height

Horizontal view



Pattern 2

Side view

