

# ACLOUD Flight 2017 06 09 FRIDAY

**POLAR 5**

Crew: Mission PI      Christof Lüpkes  
         AWI                Christoph Petersen  
         SMART            Johannes Stapf  
         Eagle/Hawk        Elena Ruiz  
         MiRAC              Tobias Doktorowski  
         AMALi              Tobias Donth

**Est. Take Off: 10:00 LT**

**Est. Duration: 6 hr 6 min**

**Waypoints:**

<b>LYR:</b>	<b>78° 14.816' N</b>	<b>15° 27.545, E</b>
<b>C0:</b>	<b>78° 10.000' N</b>	<b>4° 00.000' E</b>
<b>C1:</b>	<b>79° 10.000' N</b>	<b>4° 00.000' E</b>

## Flight Plan

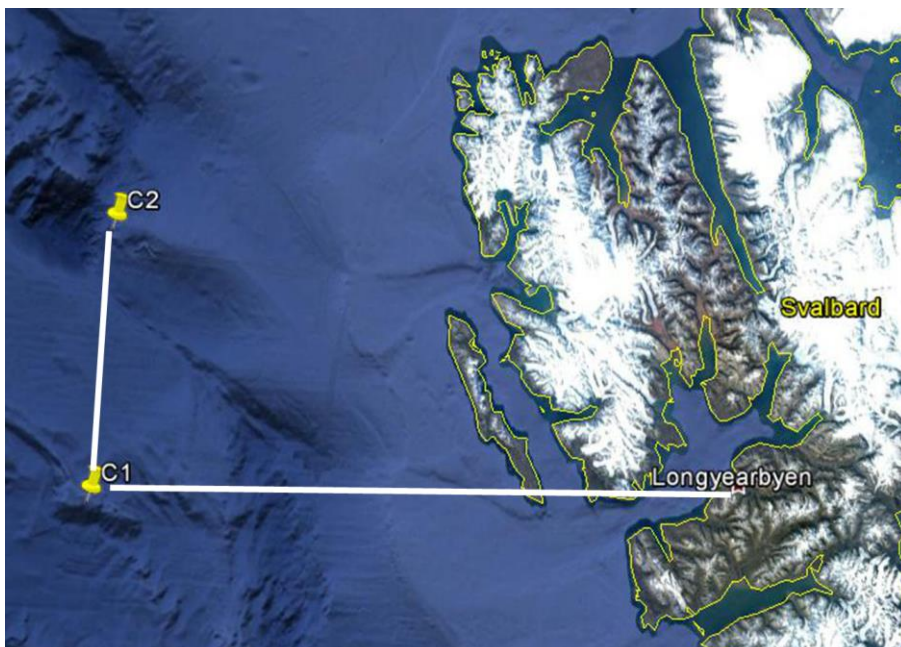
LYR → C0 climb and stay at 10,000 ft: **140 Nm , free speed** **60 min**  
Above section collocated with P6 (see Figure 1) at **120 kn**

**Calibration Square diff. Speed** **30 min**

**C1 – C2- C1**      **Polar 5 at 10 000 ft above clouds**      **60 NM at 140 kn**      **60 min**  
                         **Polar 6 at diff. Altitudes in cloud (collocated)**

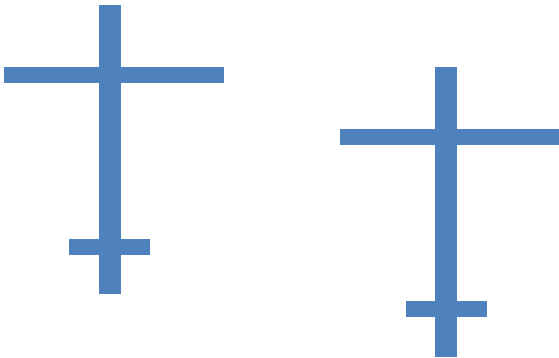
→ two drop sondes

**C1-LYR P5 / P6 collocated descend**      **140 NM, free speed**      **60 min**



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

**Horizontal view**



**Pattern 2**

**Side view**

