

# ACLOUD Flight 2017 06 23

## Column over Ny-Alesund

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

Est. Take Off: 12:25 LT

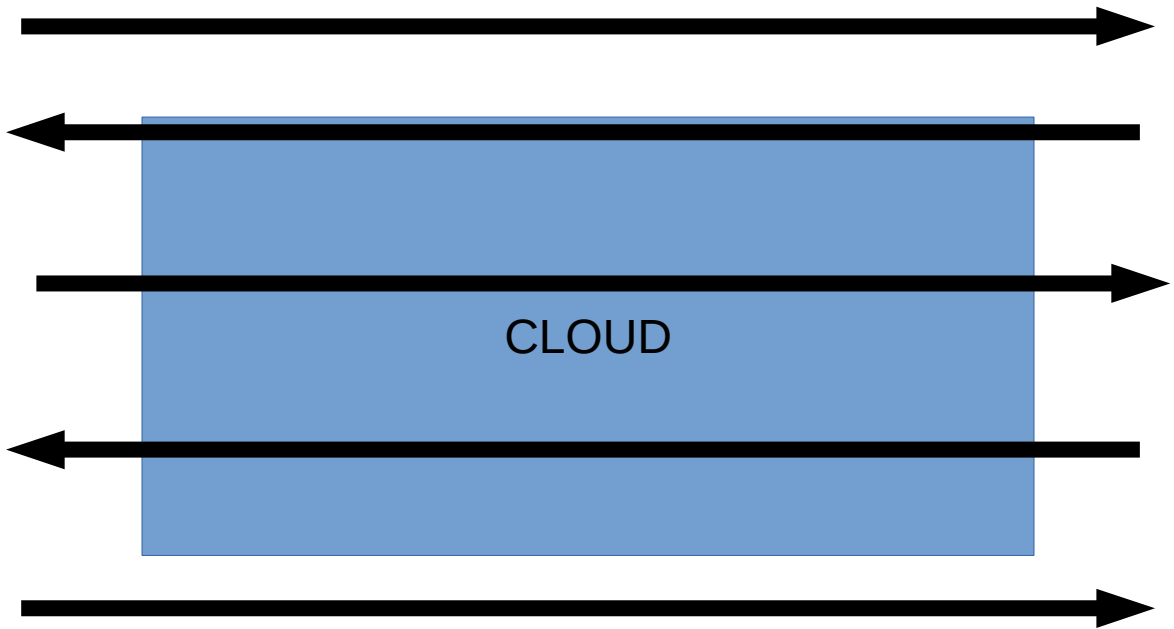
Crew: Mission PI Mario Mech  
AWI Cristina Sans i Coll  
Aerosol 1 Stephan Mertes  
Aerosol 2 Franziska Köllner  
Trace Gas Oliver Eppers  
PMS Guillaume Mioche

Est. Duration: 3 h 16 min

Waypoints: **C1:** 78° 51.463'N, 12° 29.979'E  
**NyA:** 78° 55.421'N, 11° 55.377'E  
**C2:** 78° 59.624'N, 11° 18.129'E

### Flight Plan

LYR—C1 (be at C1 at least at 12000 ft definitely above clouds)	<b>51 NM @FS</b>	<b>30 min</b>
C1-C2 in 12000 ft for trace gases	<b>16 NM</b>	<b>8 min</b>
<b>from here on everything with 120 kn</b>		
at C2 radiation square with 4 legs each		<b>3 min</b>
descend at C2 to be at cloud base		<b>12 min</b>
cloud slicing (TBD twice):		<b>10 min</b>
C2-C1 below cloud base	<b>16 NM</b>	<b>8 min</b>
at C1		<b>2 min</b>
C1-C2 lower part of cloud	<b>16 NM</b>	<b>8 min</b>
at C2		<b>2 min</b>
C2-C1 mid-level	<b>16 NM</b>	<b>8 min</b>
at C1		<b>2 min</b>
C1-C2 upper part	<b>16 NM</b>	<b>8 min</b>
at C2		<b>2 min</b>
C2-C1 above	<b>16 NM</b>	<b>8 min</b>
at C1		<b>2 min</b>
1st time descend to C2	<b>16 NM</b>	<b>8 min</b>
2nd time C1—LYR	<b>51 NM@fs</b>	<b>30 min</b>



C1