ACLOUD Flight 2017 06 04, Sunday

POLAR 6 In-situ

Crew:	Mission PI AWI PMS PMS Aerosol 1 Aerosol 2 Trace Gases	Da Ch Ma Ha Ste	nma Järvinen iniel Damaske ristophe Gourbeyre artin Schnaiter ins Clemen ephan Mertes eiko Bozem	Est. Take Off: Est. Duration:		
Waypoints: LYR:		LYR:	78° 14.816' N, 1	L5° 27.545' E		
,,		C1:	78° 46.464' N, 1			
		C2 :	80° 41.400' N <i>,</i>	0° 39.060' E		
		PS:	81° 57.180' N, 1	0° 19.920' E		
		C1:	78° 46.464' N, 1	L5° 54.654' E		
		LYR:	78° 14.816' N, 1	L5° 27.545' E		
<u>LYR – C1</u> climb and stay at 4,000 ft: 33 NM @ 140 kn					15 min	
Waiting loop to start at C1 at 10:38 LT						
<u>C1 – C2</u>			200 NM @ 140 kn		85 min	
	leave C1 at 10:38 LT on the satellite track					
Meeting with satellite: 11:3			11:38:00 LT at 80° 16	11:38:00 LT at 80° 16.236' N; 5° 14.406' E		
	Fly to coast at 4,000 ft					
	From coast saw tooth pattern in clouds					
<u>C2 – PS</u> saw tooth pattern		rn	115 NM @ 140 kn		50 min	
<u>PS positi</u>	<u>on</u>				75 min	
Three double-triangle pattern, each leg 100 ft apart starting underneath the cloud, 15 miles leg length, 120 kn, in coordination with P5						
<u>PS – C1</u>			200 NM @ 140 kn		85 min	
Aerosol profile (10,000			ft - 6,000 ft)			
Afterwards saw tooth						
<u>C1 – LYR</u> descend			33 NM @ 140 kn		15 min	
			<u>Total:</u>	582 NM	<u>5 h 25 min</u>	





