

ACLOUD Flight #25 - Polar 6 - 20170626

Mission PI P6: Mario Mech

Objectives: The main goal of the flight was a study of the boundary layer structure and energy fluxes north from Svalbard during warm air advection. The focus was on the profiles of vertical fluxes of heat, humidity, momentum.

Crew:

Polar 6	
PI	Mario Mech
Basis Data Acq.	Martin Gehrman
ALABAMA	Franziska Köllner
A + TG	Oliver Eppers
CVI	Stephan Mertes
PMS	Dmitry Chechin

Flight times:

Polar 6	
Take off	12:32 UTC
Touch down	14:48 UTC

Important remarks:

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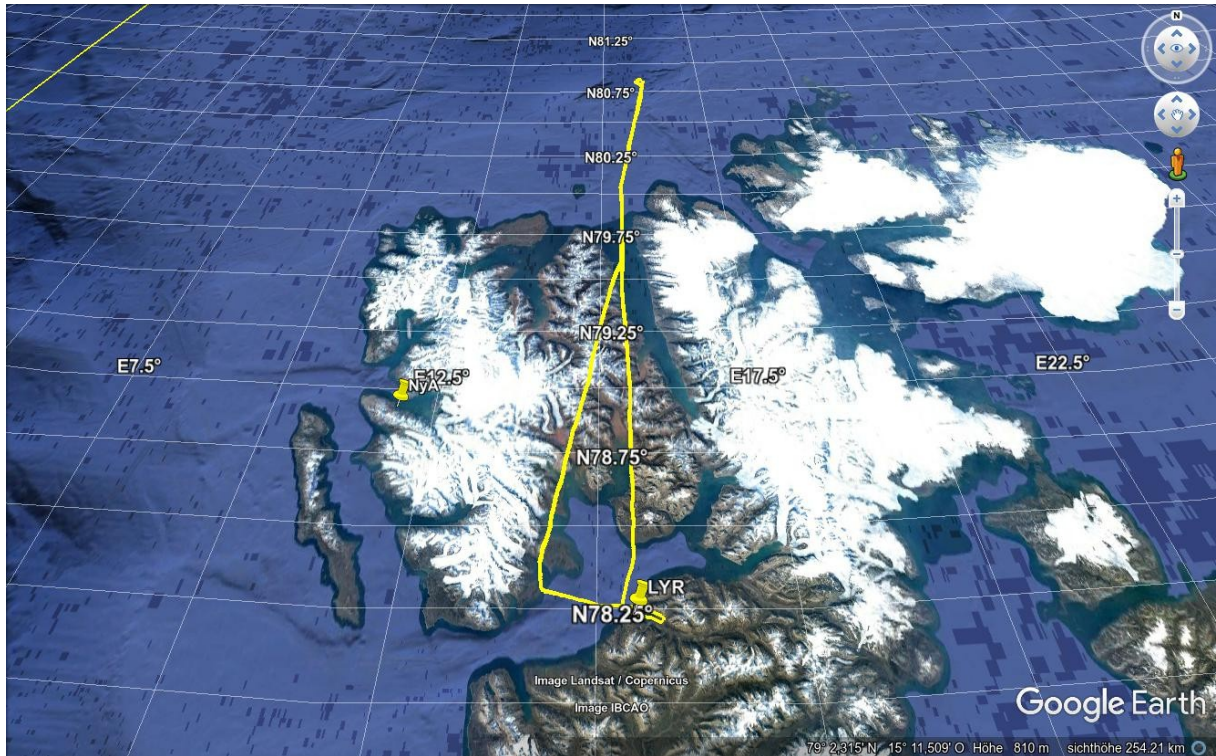
Weather situation as observed during the flight (compare to forecast):

See report of Polar 5.

Overview:

See report of Polar 5.

Flight track and pattern:



Left: Pictures from cloud or ice

Instrument Status:

Polar 6	
Basis data acquisition	
Nose Boom	
PHIPS	
SID-3	
CIP	
PIP	
ALABAMA	
CVI	
CVI UHSAS	
CVI ???	
AWI SP2	
AWI UHSAS	
CO/CO2/O3	

Problem with CVI inlet: CVI inlet heating is not working. When the inlet freezes it does not operate at its full functionality.

Detailed Flight Logs (Name of author... more than one is possible):

Mario Mech (times UTC)

12:32 take off

12:35 scattered clouds
 12:38 cloud top at 4800 ft
 12:41 cloud at 7700 ft
 12:42 at 10000 ft
 12:58 change of heights for the pattern as proposed by Christof P6 200 and 300 ft
 12:58 started descent with 700 ft/min
 13:03 5800 ft clouds for the next 600 ft
 13:07 no low level clouds present
 13:09 1500 ft turbulence present
 13:11 200 ft - BL at 600 ft
 13:13 climb to 300 ft - quite some turbulence
 13:24 clouds closed above
 13:27 climb to 3000 ft
 13:30 3000 ft
 13:34 500 ft leg C2 to C1
 13:58 heading home
 14:08 above clouds at 6000 ft
 14:48 touch down

Quicklooks:

