ACLOUD Flight 2017 06 09 FRIDAY

POLAR 5

Crew: Mission PI Christof Lüpkes

AWI Christoph Petersen Est. Take Off: 10:00 LT

SMART Johannes Stapf

Eagle/Hawk Elena Ruiz Est. Duration: 6 hr 6 min

MiRAC Tobias Doktorowski

AMALi Tobias Donth

Flight Plan

LYR -> W0 climb and stay at 10,000 ft: **71 Nm , 160 kn 47 min**

Above section collocated with P6 (see Figure 1)

W0 – >W1 arrive at W1 in 200ft, descend with 1000 ft/min **71 Nm , 160 kn 27 min**

P6 goes down into clouds

W1 -> PS 200 ft **60 Nm, 120 kn 30 min**

At PS: 5 staggered legs (8 min length) in different heights, 120 kn 50 min

e.g. 200 ft, 400 ft, 600 ft, 1000 ft, 1500 ft, P6 staggered legs in clouds

(Lowest P6 legs above 2500 ft)

PS -> W2 200 ft 40 Nm, 120 kn 20 min

Collocated with P6, which flies in 500 ft or as close as possible

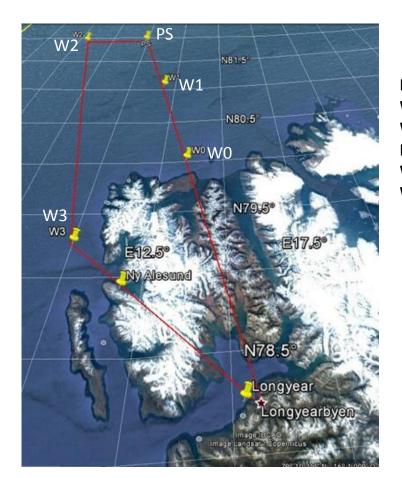
At W2: 5 staggered legs (8 min) in different heights 120 kn 50 min

P6, staggered legs in clouds

W2 – W3- LY, climb to 8.000 ft, at 8000 ft 4 squares of 1 min edge length **70 min+35 min**

with 100 kn, 120 kn, 140 kn, 100 kn

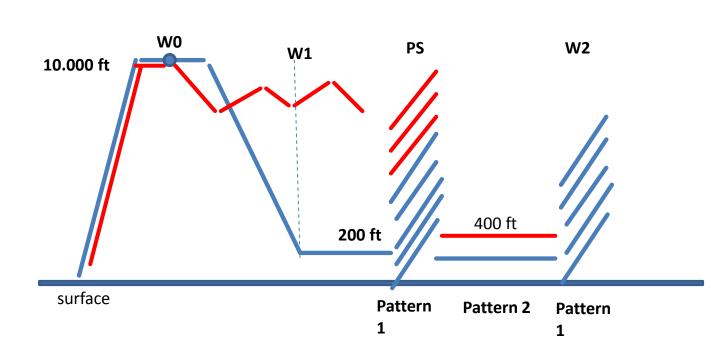
→ Home to Longyear 10.000 ft, free speed 38 min



Waypoints:

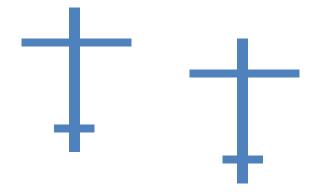
LYR: 78° 14.816' N 15° 27.545, E W0: 80° 0.242' N 13° 27.144' E W1: 81° 1.056' N 11° 53.172' E PS: 81° 54.000N 9° 54.000' E W2: 81° 52.451'N 5° 44.294' E W3: 79° 14.892' N 9°59.793' E

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

