



Flight Plan for: 30 March 2021

POLAR 6

Take Off: 10:00 UTC
Duration: 04:47 Hours

Pilots: Alan Gilbertson
Aaron Westerbeek

Crew:

Mission PI	Manuel Moser
AWI	Dennis Ludwig (?)
CVI	Philipp Joppe
ALABAMA /Trace gas	Hans-Christian Clemen
PMS	Elena De La Torre Castro
Aerosol/HERA	Sarah Grawe

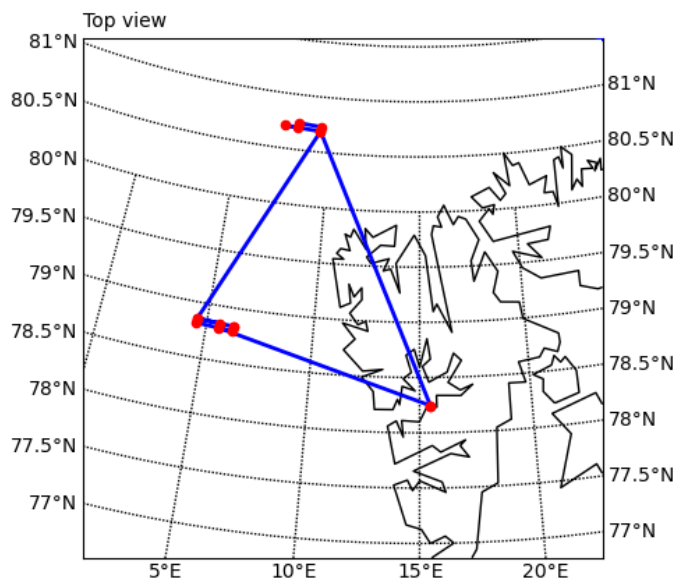
Ground PI:

Johanna Mayer

Waypoints:

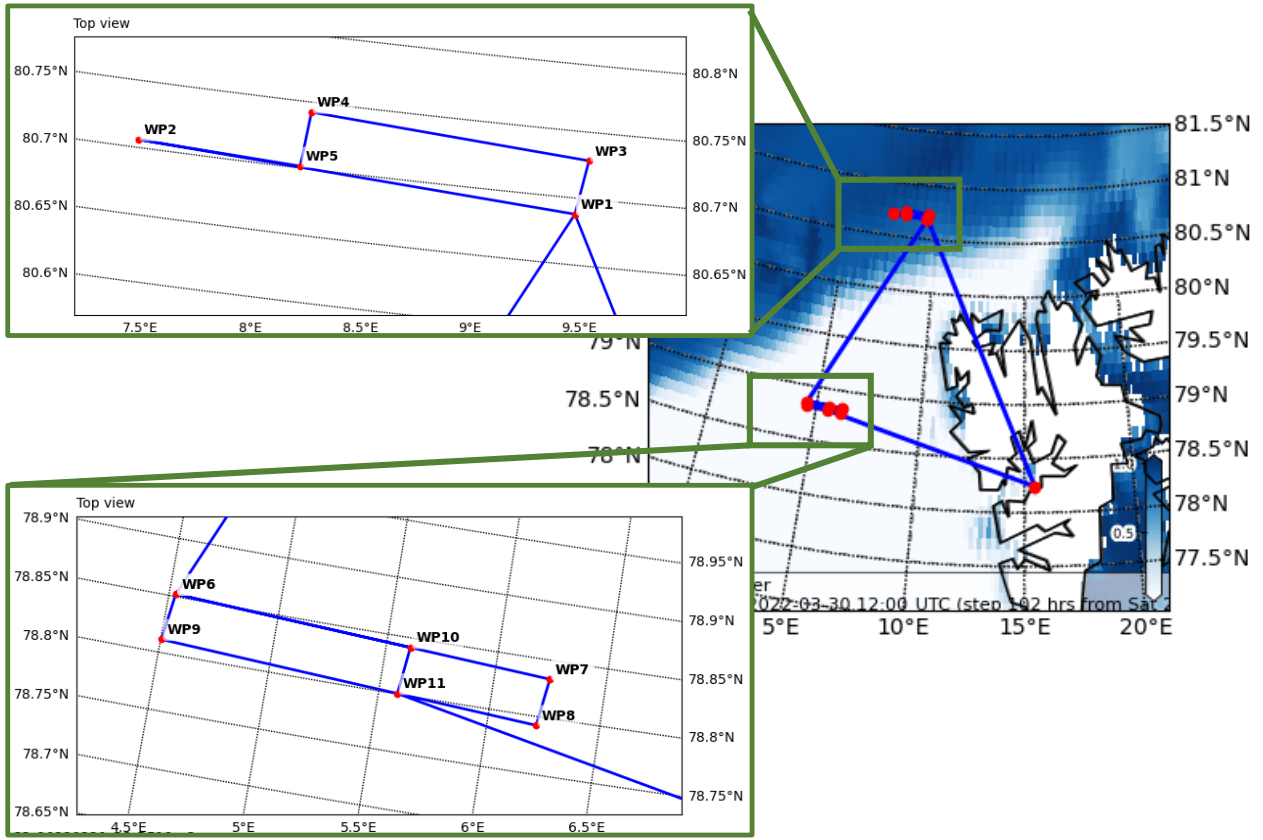
WP1	80.69 9.44	80° 41.280' N 009° 26.280' E
WP2	80.71 7.39	80° 42.360' N 007° 23.160' E
WP3	80.73 9.48	80° 43.740' N 009° 28.740' E
WP4	80.74 8.17	80° 44.520' N 008° 10.140' E
WP5	80.70 8.15	80° 42.060' N 008° 08.760' E
WP6	78.85 4.53	78° 51.120' N 004° 31.800' E
WP7	78.83 6.25	78° 50.040' N 006° 14.880' E
WP8	78.79 6.22	78° 47.520' N 006° 13.080' E
WP9	78.81 4.50	78° 48.660' N 004° 30.180' E
WP10	78.84 5.61	78° 50.520' N 005° 36.480' E
WP11	78.80 5.58	78° 48.060' N 005° 35.040' E

Overview Map:





Detailed Map:



Flight Plan:

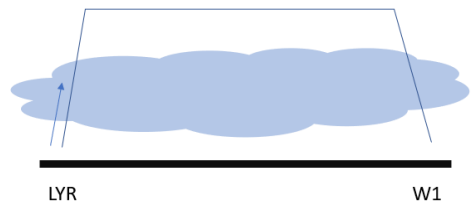
- LYR – W1** at cruise altitude **@160kn; 161NM** **60 min**
 Science Track over sea ice: (2 below clouds, 3 inside clouds, 1 above clouds)
W1>W2>W1>W3>W4>W5>W1>W3>W4>W5>W1
@120kn; 20NM/10NM **59min**
- W1 - W6** Sawtooth pattern **@120kn; 122NM** **61min**
 Science track over ocean:(2 below clouds, 4 inside clouds, 1 above clouds)
W6>W7>W8>W9>W6>W10>W11>W9>W6>W10>W11>W9>W6>W10
@120kn; 20NM/10NM **62min**
- W10 – LYR** at FL120 (5min); FL100 (5min); cruise **@160kn; 123NM** **45min**

Total: 4 hr 47min

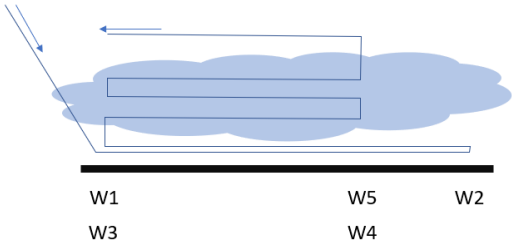


Additional Maps:

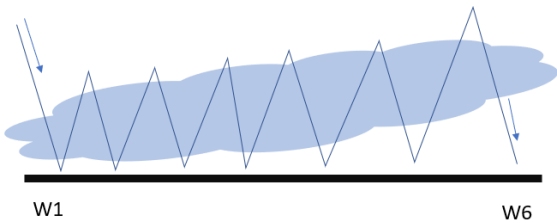
LYR → W1 (@160kn; 161NM; 60min)



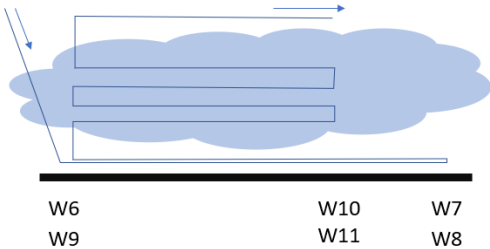
W1 ↔ W2/W5 (12NM; 6min) / (20NM; 10min) **Total: 57 min**



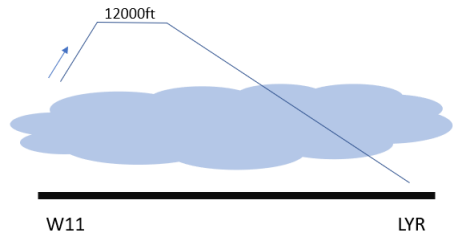
W1 → W6 (122NM; 61min)



W6 ↔ W7/W10 (12NM; 6min) / (20NM; 10min) **Total: 62 min**



W4 → LYR (@160kn; 123NM; 44min)



Cloud Cover (0-1) Vertical Section

Valid: 2022-03-30T14:00:00Z (initialisation: 2022-03-29T00:00:00Z)

