



# Flight Plan for: 25 Mar 2021

**POLAR 5**

Take Off: 06:50 UTC  
Duration: 5.17 Hours

Pilots: Bill  
Ben

## Crew:

Mission PI	S. Schnitt
AWI	C. Pettersen
MiRAC	M. Mech
AMALi	B. Kulla
EAGLE/HAWKH.	Müller
Dropsonde	N. Maherndl
Scientist	M. Maahn

## Waypoints:

LYR 78°14'	15°28'
(LYB)	
W1 78° 00'	27° 30'
W2 78° 00'	30° 00'
W3 78° 30'	30° 00'
W4 78° 30'	27° 30'
LYR 78°14'	15°28' (LYB)
DS1 78° 00'	27° 30'
DS2 78° 00'	30° 00'
DS3 78° 00'	27° 30'
DS4 78° 00'	30° 00'
DS5 78° 30'	30° 00'
DS6 78° 30'	27° 30'
DS7 78° 30'	30° 00'
DS8 78° 30'	27° 30'



## Overview Map:





## Flight Plan:

<b>LYR - W1</b>	ascend FL 120: 149 NM @140 kn	<b>64 min</b>
<b>W1 - W2</b>	5 legs at FL120 31NM @ 140kn	<b>87 min</b>
<b>W2 - W3</b>	30 NM @140 kn	<b>18 min</b>
<b>W3 - W4</b>	5 legs at FL120 31NM @ 140kn	<b>85 min</b>
<b>W4 - LYR</b>	at FL120 145NM @ 140 kn	<b>63 min</b>

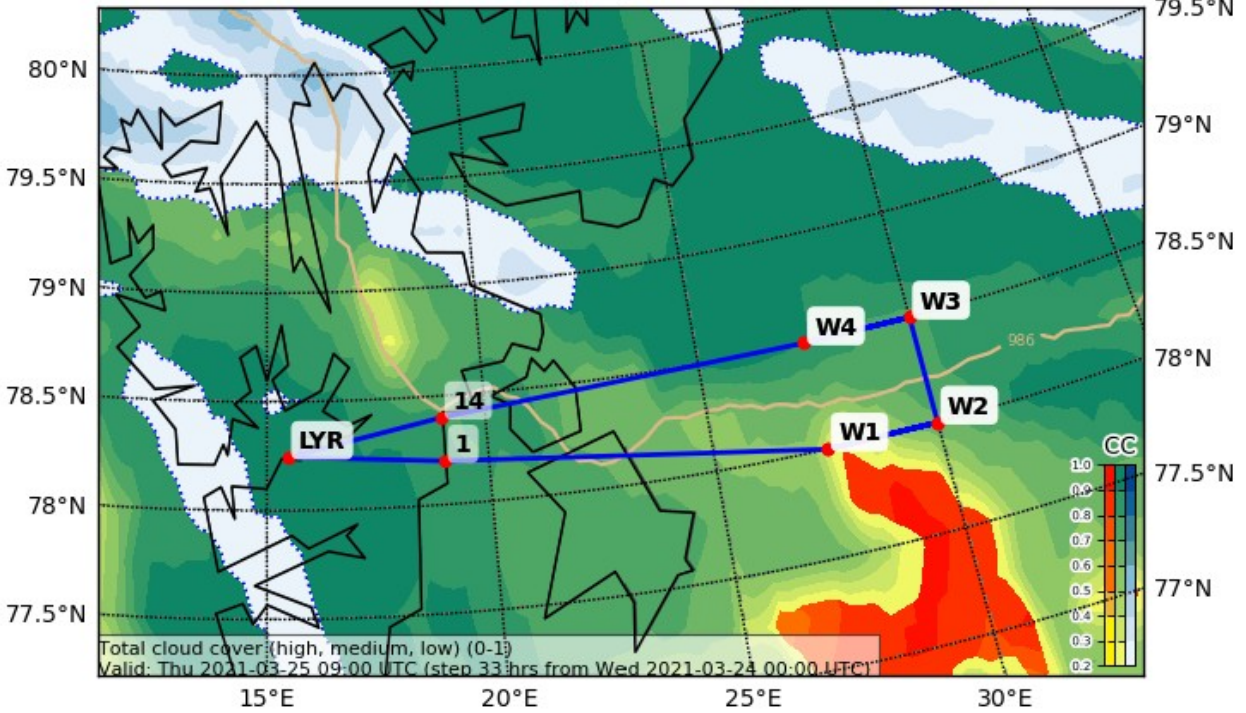
**Total: 5 hr 17 min**



## Additional Maps:

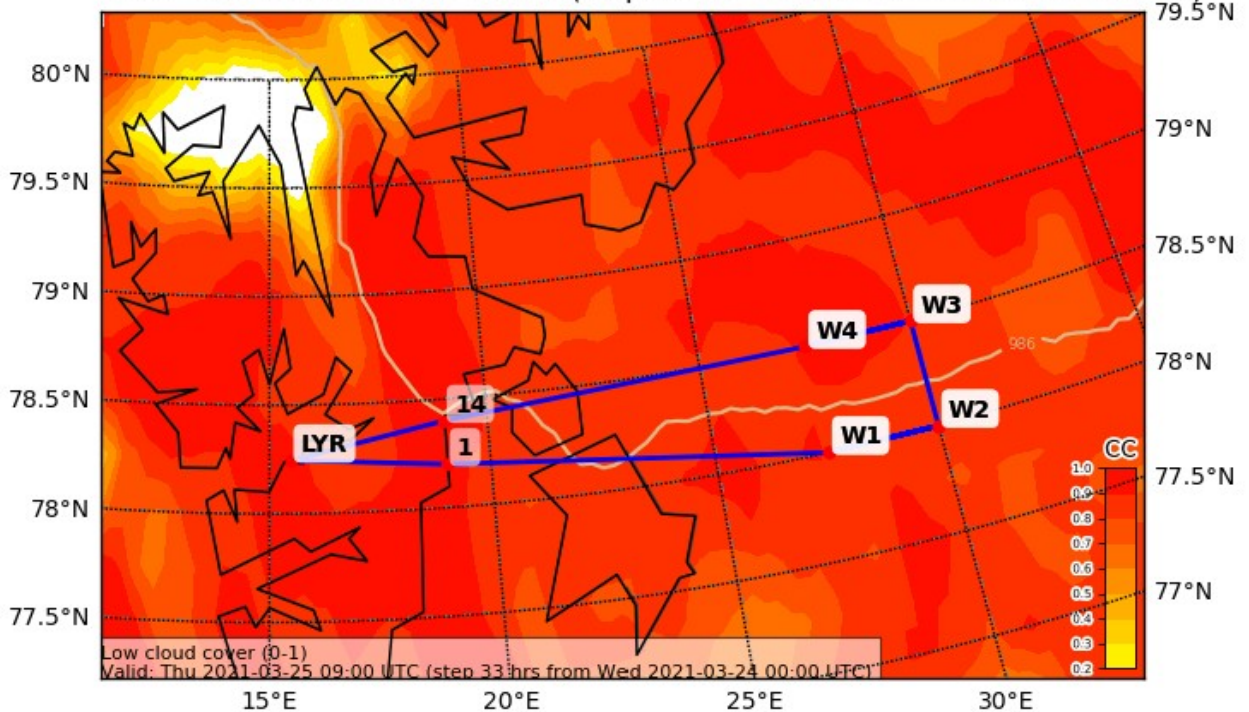
Cloud Cover (0-1) (Total Cloud Cover)

Valid: Do 2021-03-25 09:00 UTC (step 33 hrs from Mi 2021-03-24 00:00 UTC)



Cloud Cover (0-1) (Low Cloud Cover)

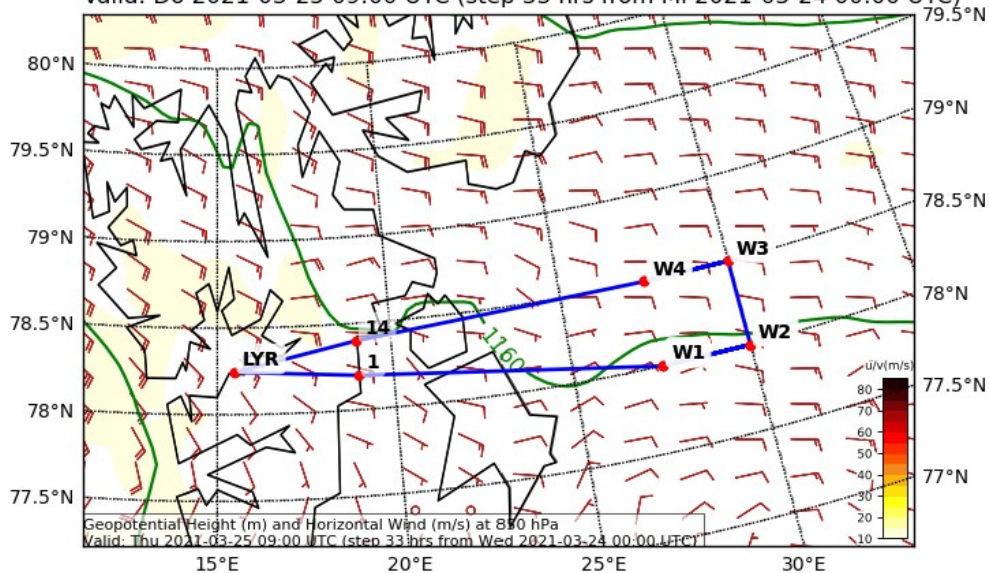
Valid: Do 2021-03-25 09:00 UTC (step 33 hrs from Mi 2021-03-24 00:00 UTC)





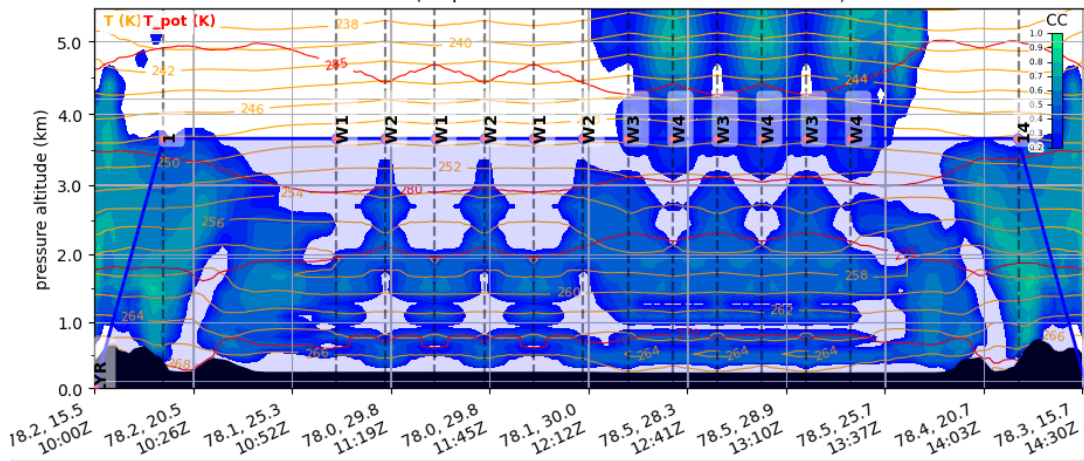


Geopotential Height (m) and Horizontal Wind (m/s) (Wind Speed 10-85 m/s) at 850.0 (Pa)  
Valid: Do 2021-03-25 09:00 UTC (step 33 hrs from Mi 2021-03-24 00:00 UTC)



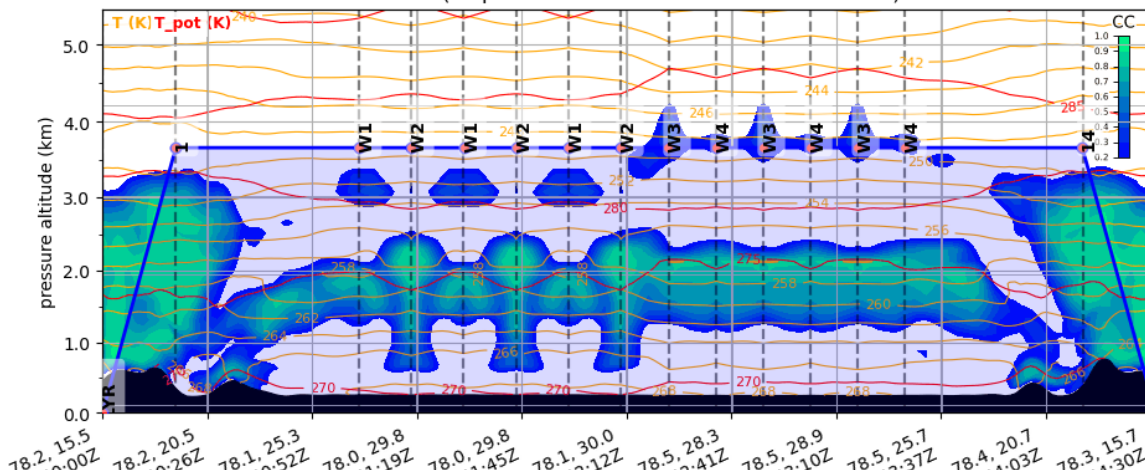
## ICON

Cloud Cover (0-1) Vertical Section  
Valid: Do 2021-03-25 09:00 UTC (step 33 hrs from Mi 2021-03-24 00:00 UTC)



## ECMWF

Cloud Cover (0-1) Vertical Section  
Valid: Do 2021-03-25 09:00 UTC (step 33 hrs from Mi 2021-03-24 00:00 UTC)





## Objectives of the Flight:

Vertical profiling and remote sensing of persistent low level clouds over sea ice

---

## General Weather Situation: