



Flight Plan for: 24 March 2022

POLAR 5

Take Off: 10:10 UTC (11:10 LT)
Duration: 04h 55min

Pilots: James Steward
Noah Hladiak

Crew:

Mission PI	Max Maahn
AWI	Cristina Sans Coll ?
AWI	Maximilian Stöhr ?
Eagle/Hawk	Hanno Müller
MiRAC	Nina Maherndl
Dropsondes	Pavel Krobot

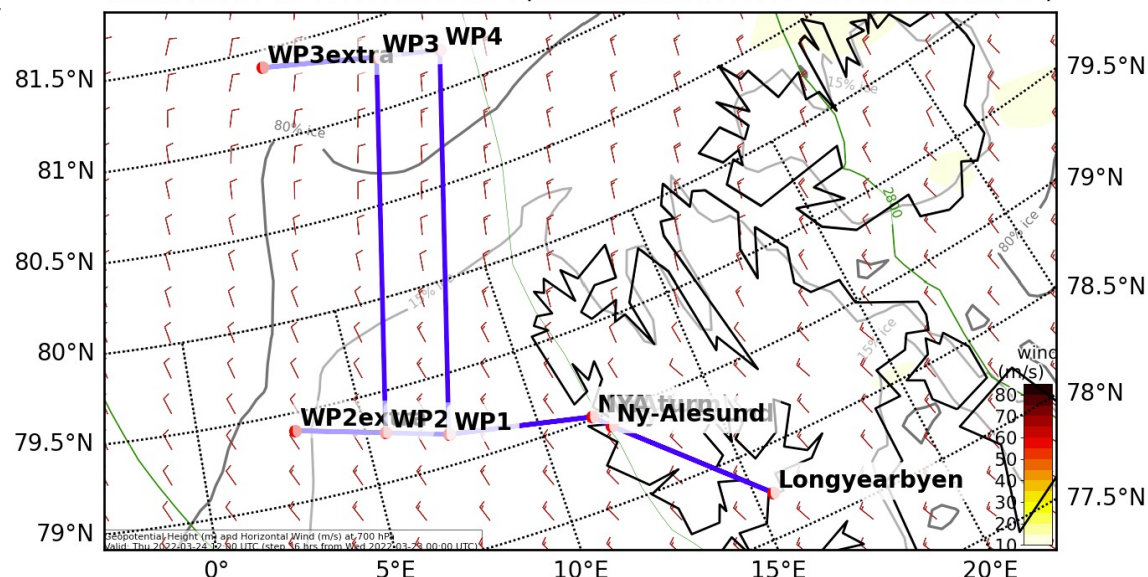
Ground PI: Imke Schirmacher

Waypoints:

	Lat (D°M.m)	Lon (D°M.m)	Lat (+-90)	Lon (+-180)	flight lvl	Sp (kn)	Leg (nm)	Cum. (nm)	Leg time	Cum. time	local	Comments
Longyearbyen	78°14.7' N	015°28.9' E	78.245	15.482	0	0	0.0	0.0	00:00:00	00:00	11:10	P6@11:00
Ny-Alesund	78°55.7' N	011°59.2' E	78.928	11.986	100	cruise	58.6	58.6	00:21:58	00:21	11:32	
NYA turn	79°00.8' N	011°33.5' E	79.013	11.558	100	cruise	7.1	65.7	00:02:40	00:24	11:34	
WP1	79°10.3' N	007°22.9' E	79.171	7.381	100	140	48.6	114.3	00:20:50	00:45	11:55	P6@11:55 MEET
WP2extra	79°24.1' N	002°56.2' E	79.402	2.937	100	140	51.7	166.0	00:22:10	01:12	12:17	+5min proc. turn
WP2	79°16.5' N	005°34.8' E	79.274	5.581	100	140	30.5	196.5	00:13:03	01:25	12:35	P6@12:31
WP3	81°17.4' N	008°44.4' E	81.289	8.740	100	140	125.6	322.1	00:53:50	02:19	13:29	P6@13:34
WP3extra	81°24.3' N	004°35.5' E	81.405	4.592	100	140	38.3	360.4	00:16:24	02:35	13:45	+5min proc. turn
WP3	81°17.4' N	008°44.4' E	81.289	8.740	100	140	38.3	398.6	00:16:24	02:57	14:07	
WP4	81°12.9' N	010°59.7' E	81.214	10.995	100	140	21.2	419.8	00:10:35	03:07	14:17	P6@14:15 TRAIL+2min
WP1	79°10.3' N	007°22.9' E	79.171	7.381	100	120	128.6	548.4	01:04:18	04:12	15:22	P6@15:19
NYA turn	79°00.8' N	011°33.5' E	79.013	11.558	100	140	48.6	597.0	00:18:13	04:30	15:40	
Ny-Alesund	78°55.7' N	011°59.2' E	78.928	11.986	100	cruise	7.1	604.1	00:02:40	04:33	15:43	
Longyearbyen	78°14.7' N	015°28.9' E	78.245	15.482	0	cruise	58.6	662.7	00:21:58	04:55	16:05	

Horizontal Wind (m/s) and Geopotential Height (m) (default) at 700.0 (hPa)
Valid: 2022-03-24T12:00:00Z (initialisation: 2022-03-23T00:00:00Z)

Overview Map:



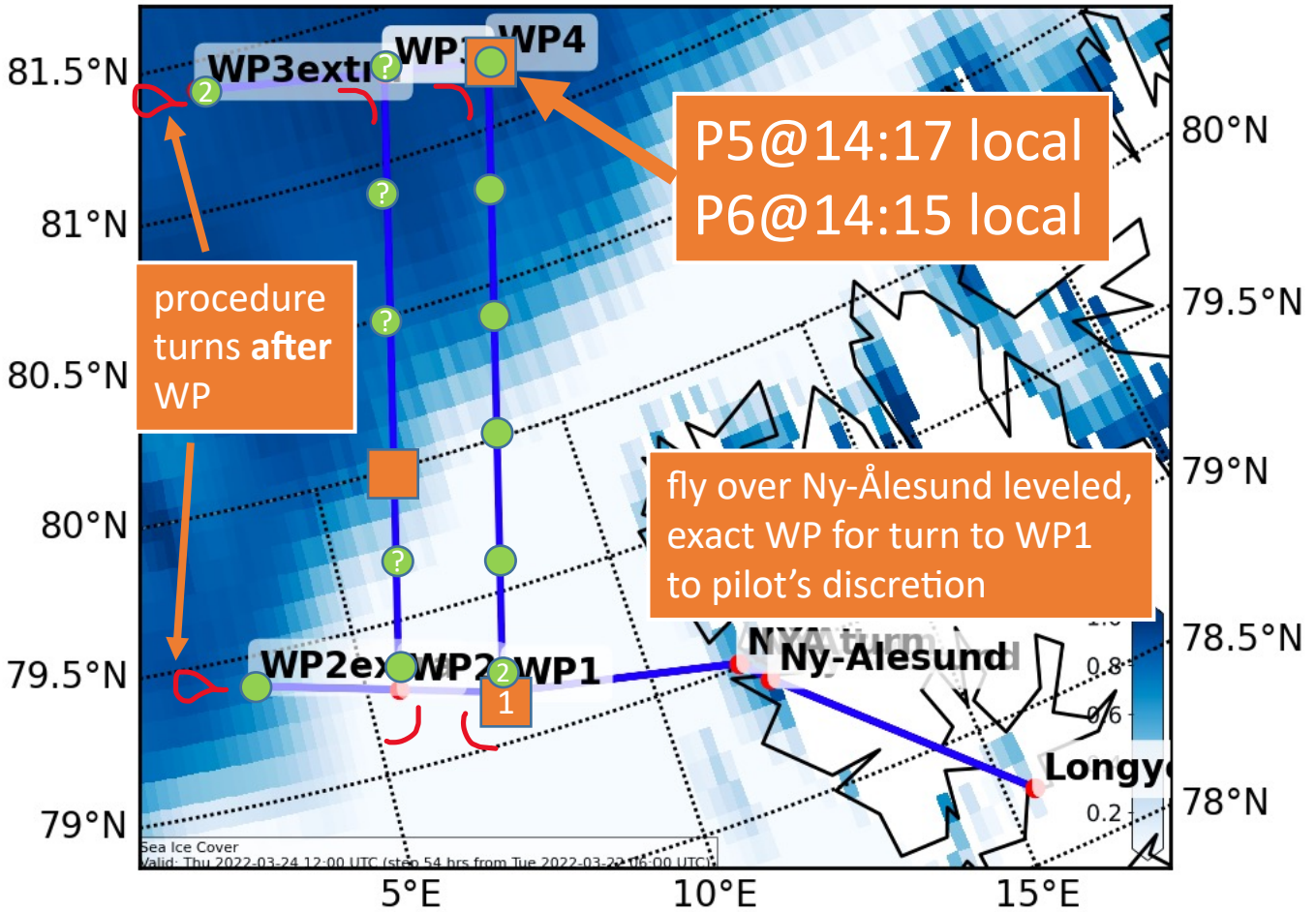
1324_P5_RF04



Detailed Map:

Sea Ice Cover Forecast (0-1) (default)

Valid: 2022-03-24T12:00:00Z (initialisation: 2022-03-2



● Dropsonde ("2" refers to 2nd overflight, "?" indicates potential interference with P6)
12 Sondes in total

■ Overpass of P6 ("1" refers to 1st overflight of WP)

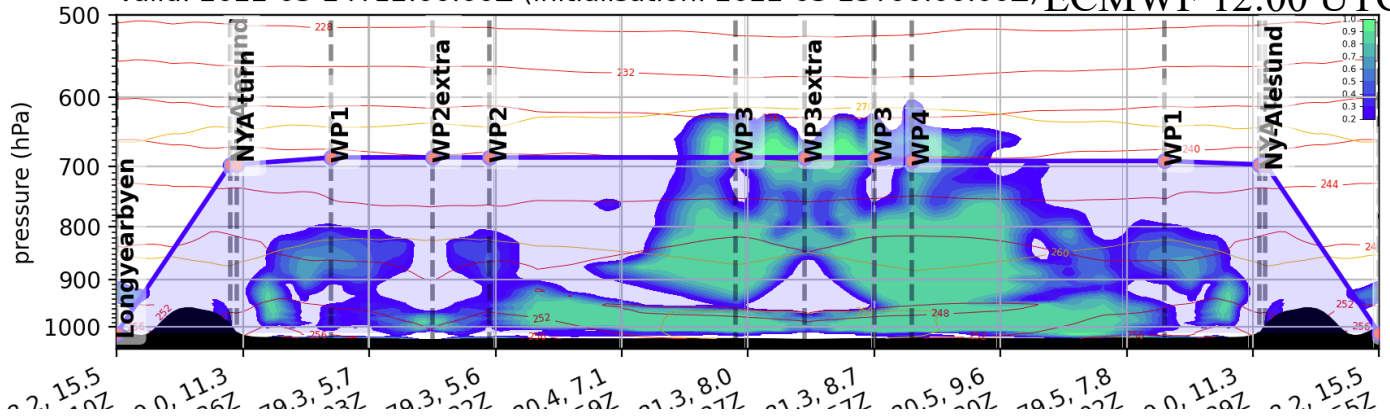
1st science priority:

- P5 arrives 2 mins after P6 at WP4
- P5 can adjust speed from 120 to 160 knts to make it to WP4 in time
- from WP4 to WP1, P5 flies above P6 with +2min if possible, speed as needed. P6 has about 20 knts stronger tail wind

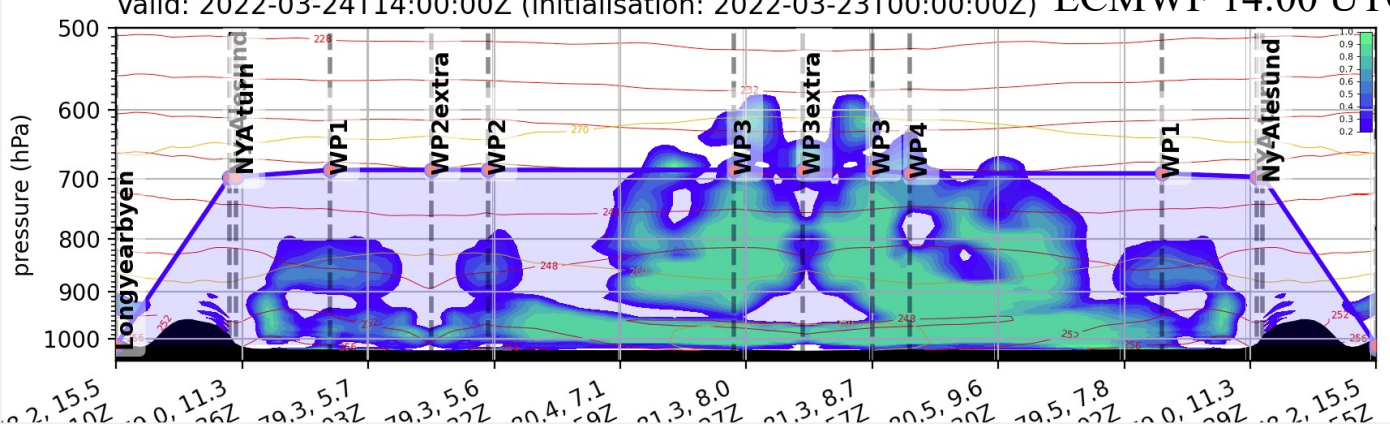


Additional Maps:

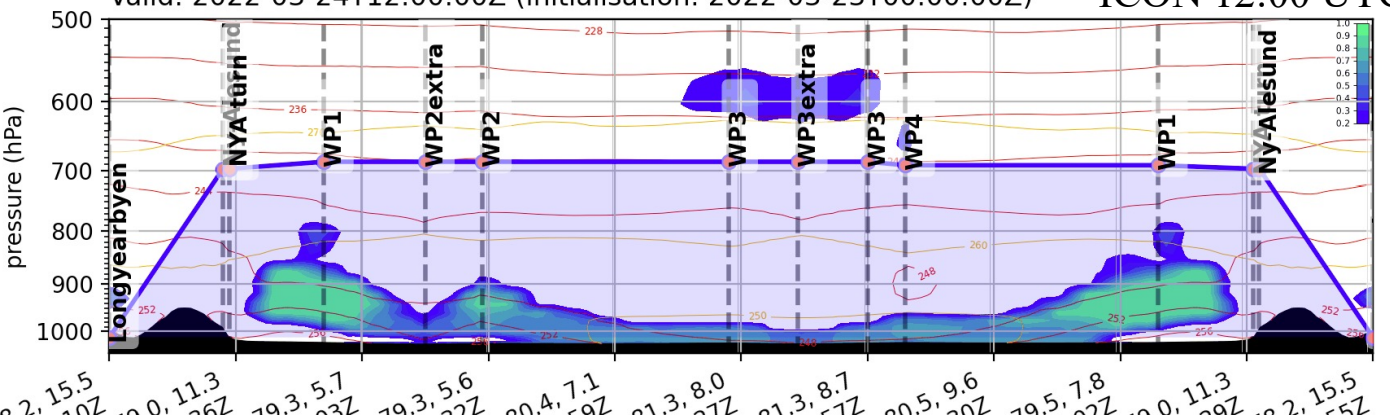
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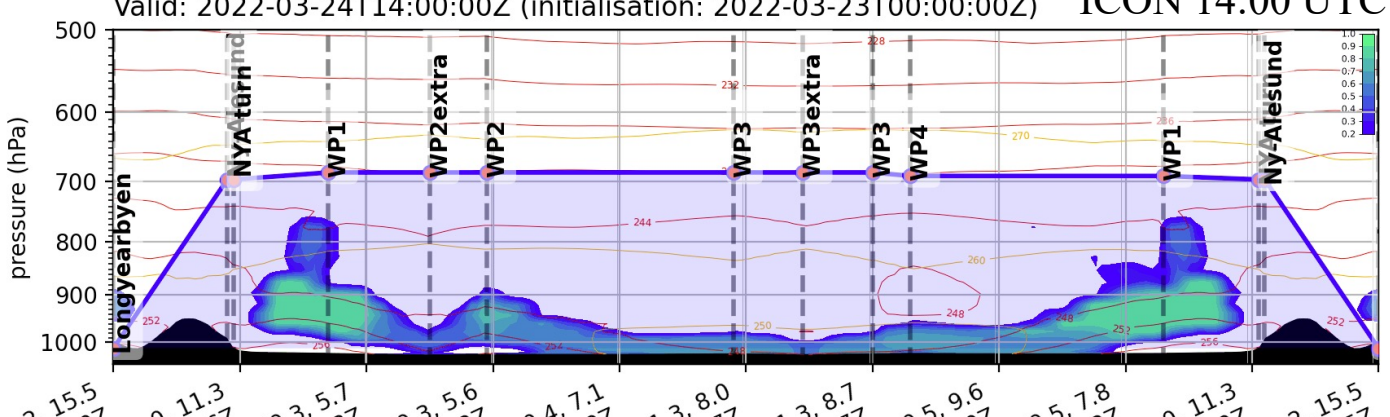
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Valid: 2022-03-24T12:00:00Z (initialisation: 2022-03-23T00:00:00Z) ICON 12:00 UTC



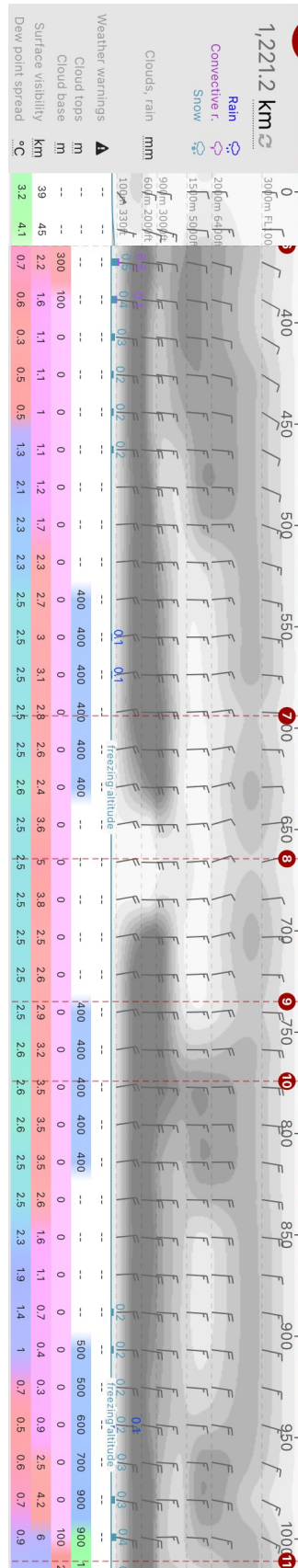
Valid: 2022-03-24T14:00:00Z (initialisation: 2022-03-23T00:00:00Z) ICON 14:00 UTC





ECMWF

Additional Maps:



WP2

WP3

WP3extra

WP3

WP4

WP1