



Flight Plan for: 28 March 2022

POLAR 5

Take Off: 09:10 UTC (11:10 LT)
Duration: 05h 00min

Pilots: James Steward
Artem Brusilovskiy

Crew:

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

Ground PI: ?

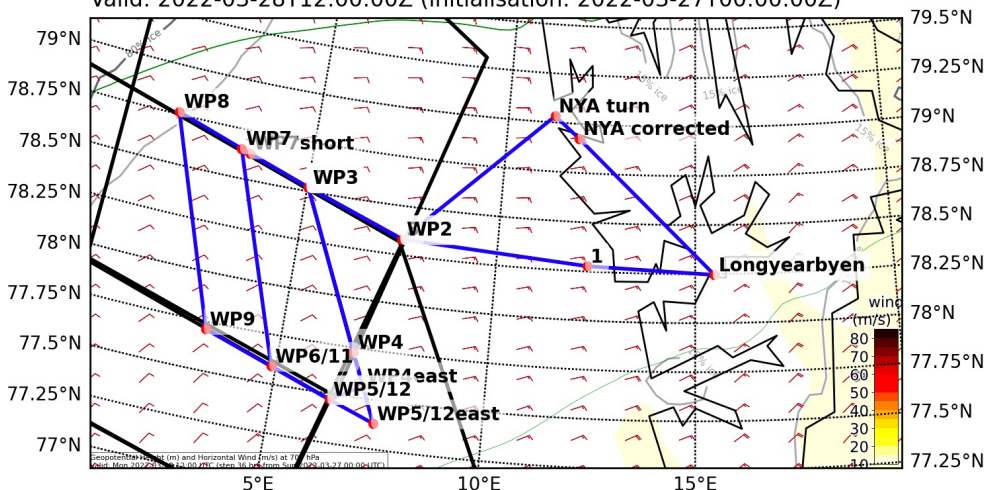
Waypoints: Speed true: ~160 knts, except WP3(2nd)->WP9 ~135 knts
Speed indicated: 140 knts, except WP3(2nd)->WP9 120 knts

Location	Lat (D°M.m)	Lon (D°M.m)	Lat	Lon	lvl	leg nm	cum nm	Leg time	Cum. time	UTC	Comments
Longyearbyen	78°14.7' N	015°28.9' E	78.245	15.482	0	0.0	0.0	00:00:00	00:00:00	09:10:02	
WP2	78°19.8' N	007°35.3' E	78.331	7.588	100	60.5	96.7	00:22:41	00:36:16	09:46:17	
WP3	78°31.2' N	005°01.7' E	78.520	5.028	100	33.0	129.7	00:12:22	00:48:38	09:58:40	
WP7short	78°36.6' N	003°46.4' E	78.610	3.773	100	18.5	148.2	00:05:57	00:54:35	10:04:37	proc. turn +7min AFTER WP
WP3	78°31.2' N	005°01.7' E	78.520	5.028	100	18.5	166.8	00:05:57	01:12:32	10:22:34	P6@10:20, proc. turn +5min BEFORE WP
WP4	77°43.5' N	006°46.8' E	77.724	6.780	104	52.6	219.4	00:22:33	01:25:05	10:35:07	P6@10:45
WP4east	77°29.9' N	007°14.0' E	77.499	7.234	104	14.8	234.2	00:06:21	01:21:26	10:51:28	
WP5/12	77°28.3' N	006°22.1' E	77.471	6.369	104	11.4	245.6	00:04:54	01:26:20	10:56:22	
WP6/11	77°35.4' N	004°53.4' E	77.591	4.890	104	20.6	266.2	00:08:49	01:35:09	11:05:10	P6@11:03
WP7	78°38.9' N	003°09.1' E	78.649	3.151	104	67.3	333.5	00:28:52	02:04:00	11:34:02	P6@11:36
WP8	78°45.8' N	001°21.3' E	78.763	1.355	104	22.3	355.8	00:09:33	02:40:34	11:50:35	P6@11:48, long turn +7min BEFORE WP
WP9	77°42.7' N	003°11.6' E	77.711	3.194	104	67.3	423.1	00:28:50	03:09:24	12:19:25	P6@12:22
WP5/12	77°28.3' N	006°22.1' E	77.471	6.369	100	43.6	466.7	00:16:21	03:25:45	12:35:47	
WP5/12east	77°22.9' N	007°27.8' E	77.381	7.463	100	15.3	482.1	00:05:45	03:31:30	12:41:32	
WP3	78°31.2' N	005°01.7' E	78.520	5.028	100	75.1	557.2	00:28:11	03:59:41	13:09:43	
WP2	78°19.8' N	007°35.3' E	78.331	7.588	100	33.0	590.2	00:12:22	04:12:03	13:22:05	
NYA turn	79°02.0' N	011°14.5' E	79.033	11.241	100	60.5	650.7	00:22:41	04:34:44	13:44:46	if time left
NYA corrected	78°55.4' N	011°55.3' E	78.923	11.922	100	10.3	660.9	00:03:51	04:38:35	13:48:36	if time left
Longyearbyen	78°14.7' N	015°28.9' E	78.245	15.482	0	58.9	719.9	00:22:06	05:00:41	14:10:43	

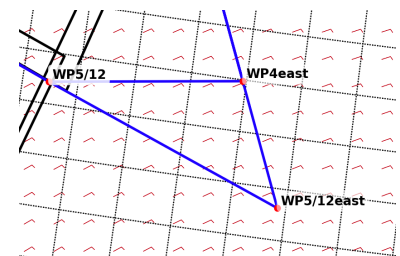
120 knts

Overview Map:

Horizontal Wind (m/s) and Geopotential Height (m) (default) at 700.0 (hPa)
Valid: 2022-03-28T12:00:00Z (initialisation: 2022-03-27T00:00:00Z)

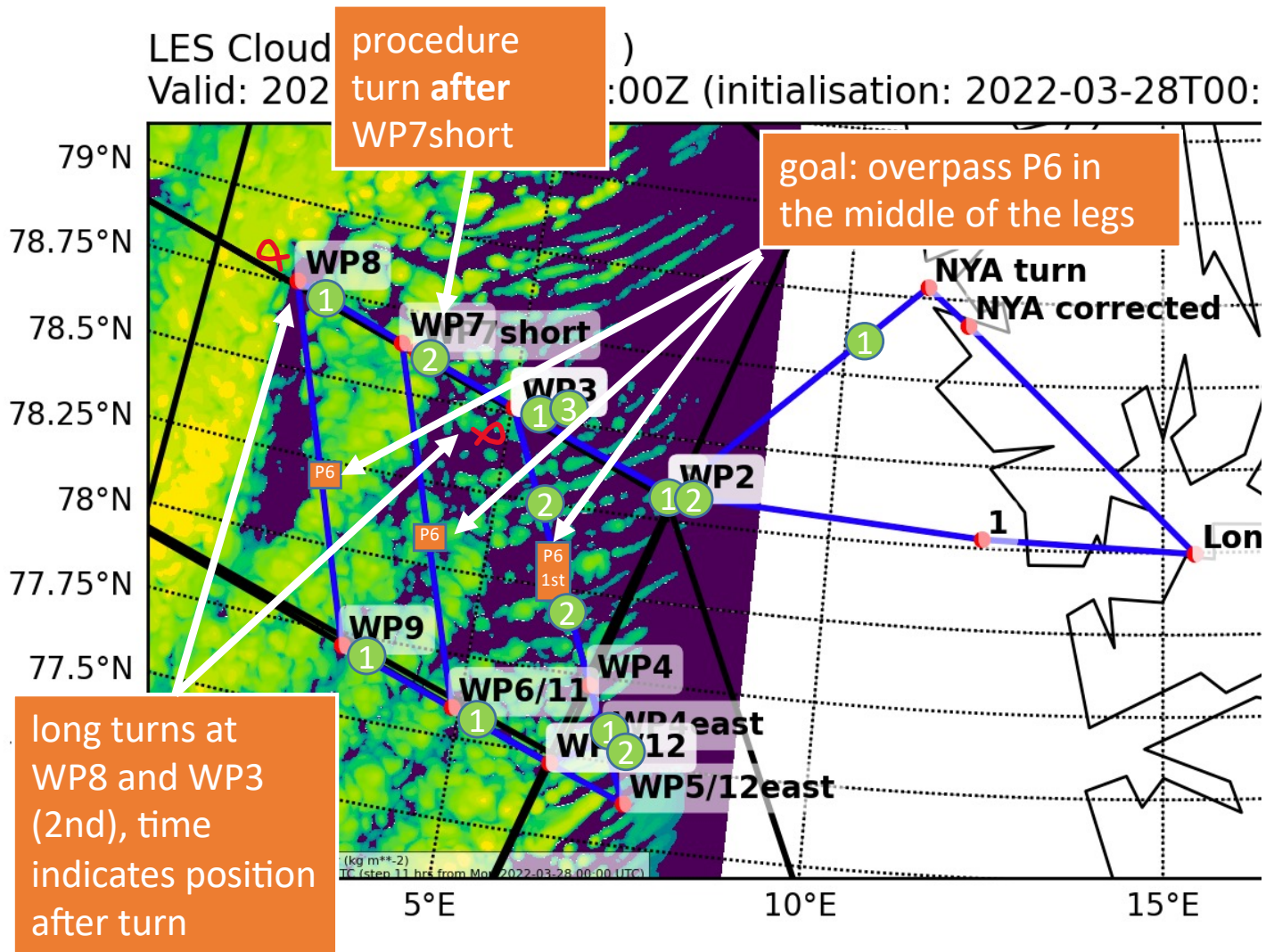


blue track: P5
black track: HALO





Detailed Map:



● Dropsonde ("1" & "2" refers to 1st and 2nd overflight)

13 Sondes in total

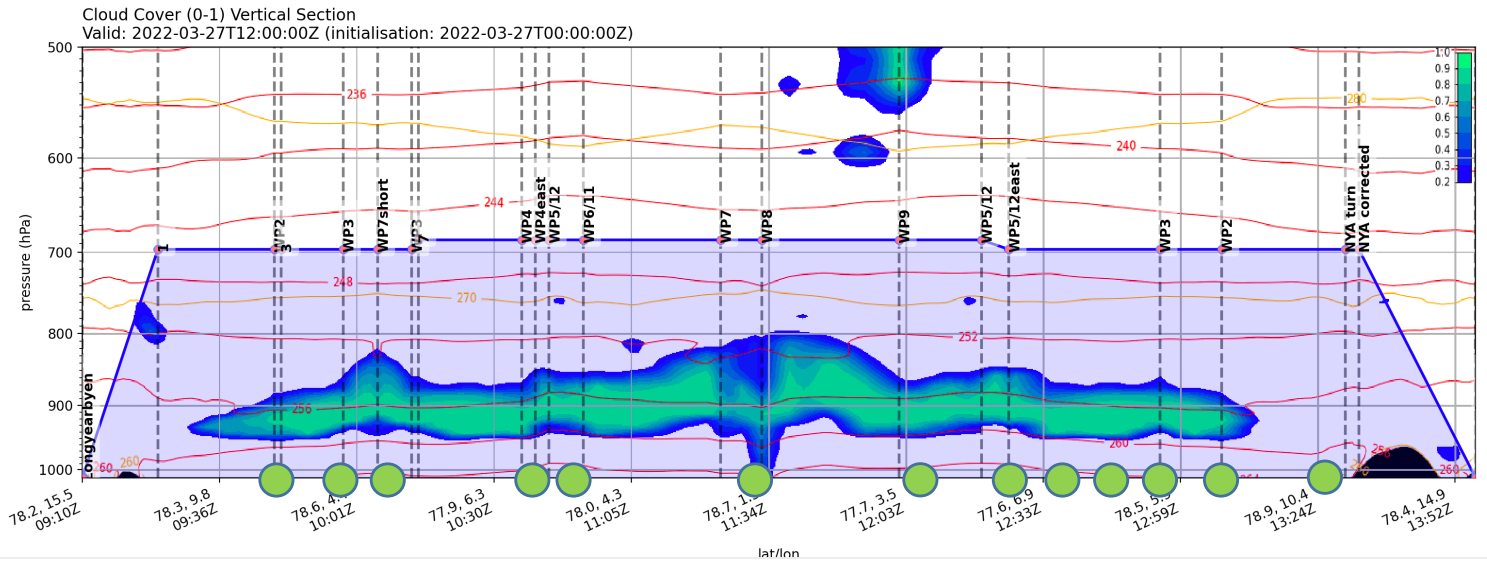
Priorities:

- start 2 min behind P6 at WP3(2nd), WP6/11, and WP8 so that overflight of P6 is approx. mid-leg.
 - WP3(2nd): P5@10:22, P6@10:20
 - WP6/11(1st): P5@11:05, P6@11:03
 - WP8: P5@11:48, P6@11:48
- P6 sets pace, P5 can adjust speed from 120 to 160 knts or do holding patterns to make it to WPs in time
- overflight at NYA is optional depending on remaining fuel



Additional Maps:

ECMWF 12:00 UTC



● Dropsonde

ICON 12:00 UTC

