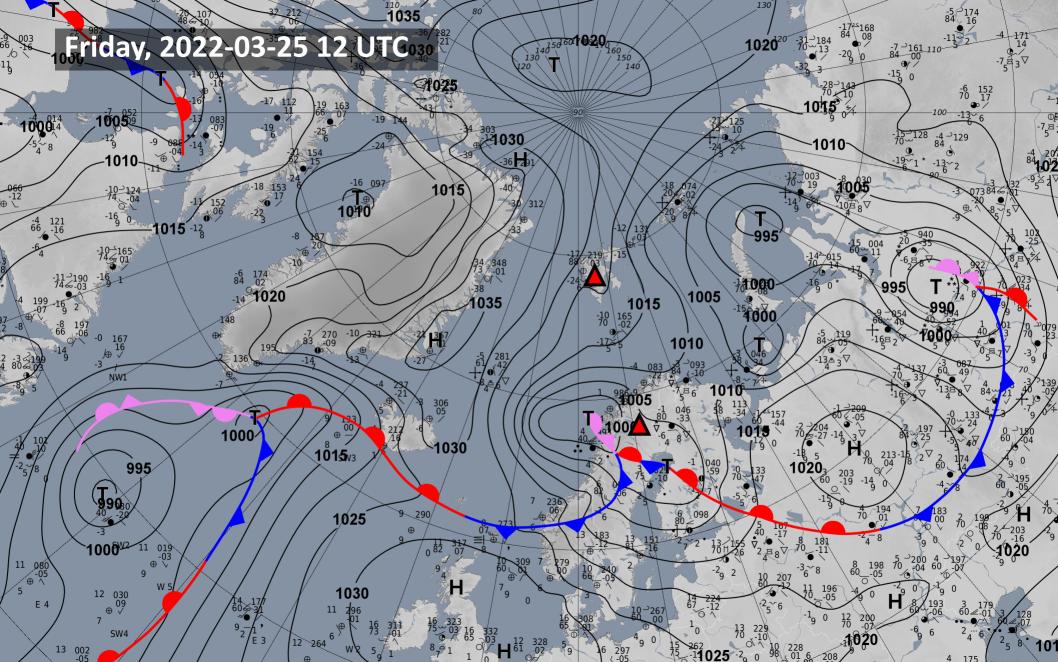
Weather briefing HALO-(AC)³

Friday, 2022-03-25, 17:00 LT

Surface Analysis
Friday, 2022-03-25 12 UTC
DWD



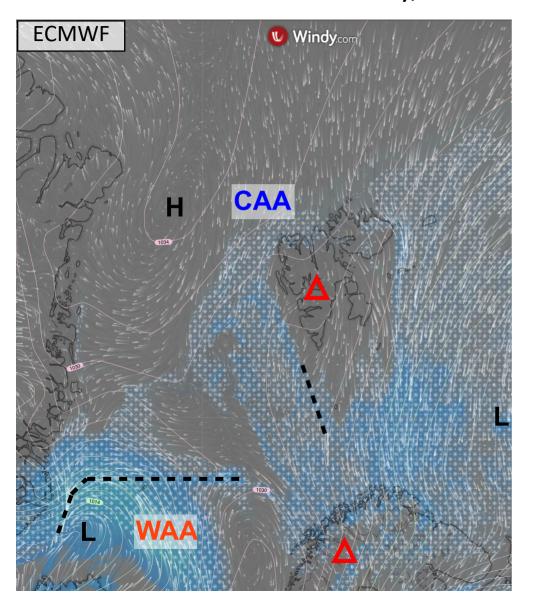
Surface wind development and precipitation

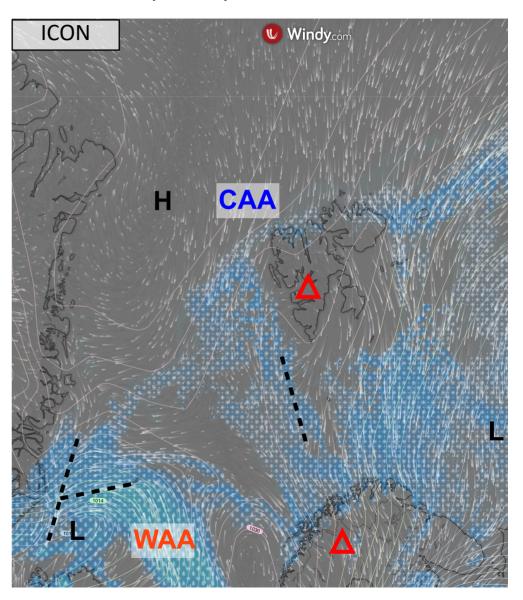
2022-03-25 00 UTC: 36 – 108h ECMWF & ICON

CAA: Cold Air Advection

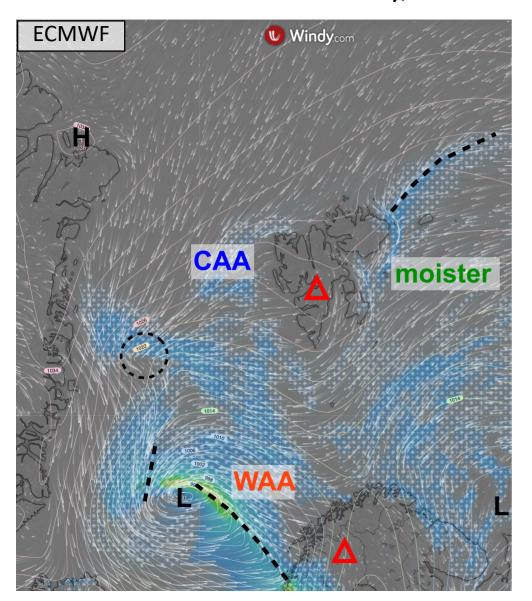
WAA: Warm Air Advection

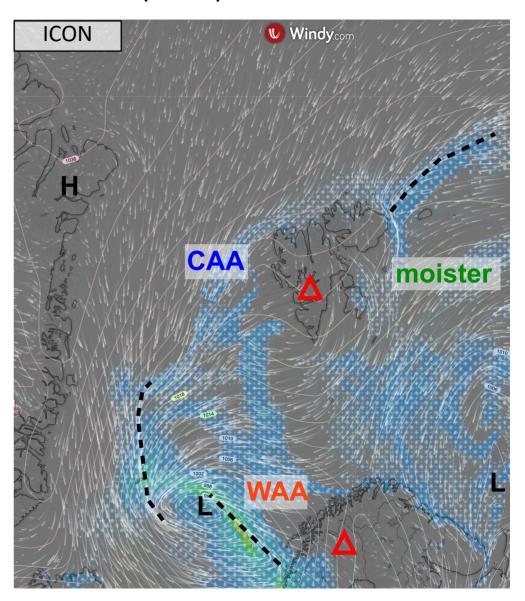
Saturday, 2022-03-26 12 UTC (+36h)



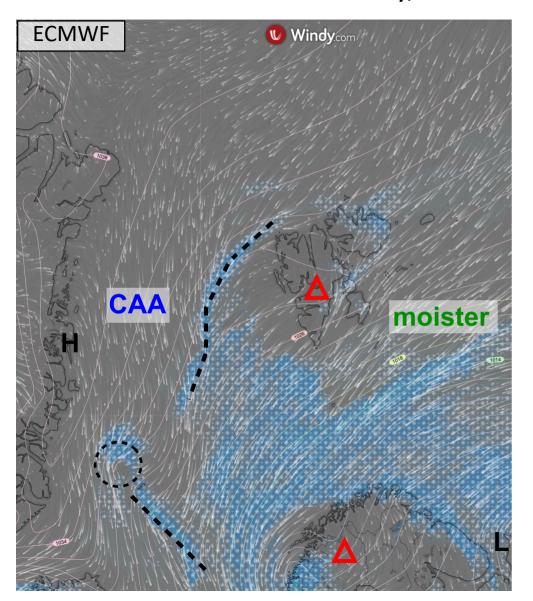


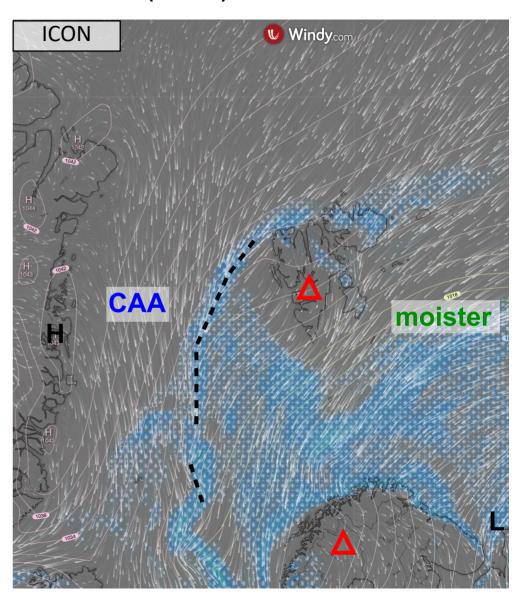
Sunday, 2022-03-27 12 UTC (+60h)



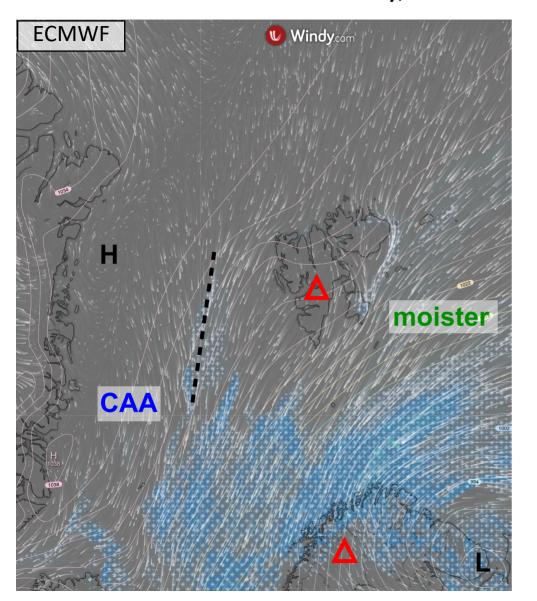


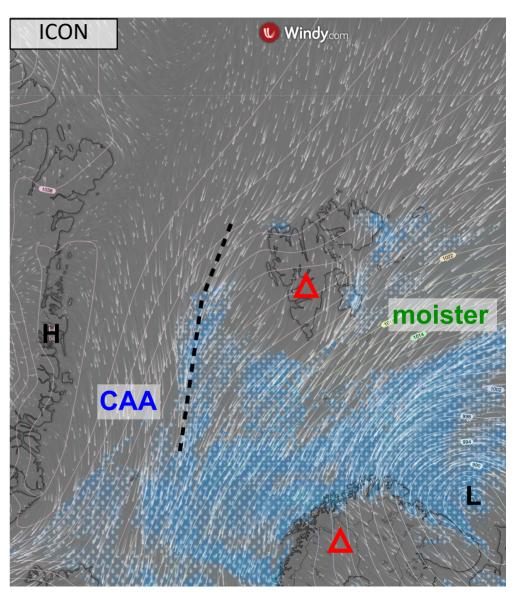
Monday, 2022-03-28 12 UTC (+84h)





Tuesday, 2022-03-29 12 UTC (+108h)



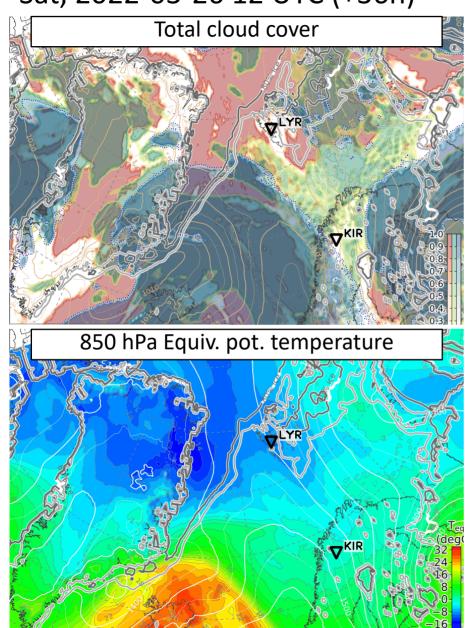


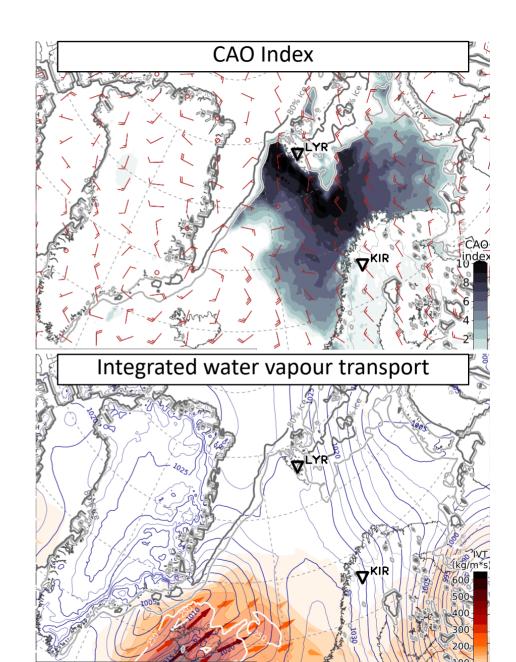
Cloud cover, CAO index, Airmasses, IVT

2022-03-25 00 UTC: 36 - 108h

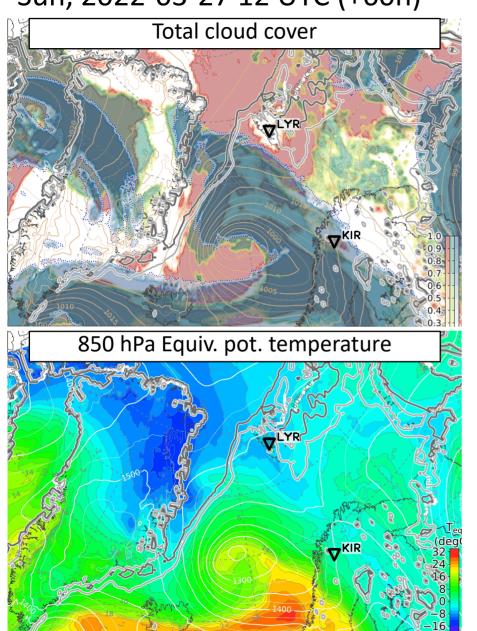
Cloud cover & 850hPa $\theta_{\rm e}$ & CAO & IVT

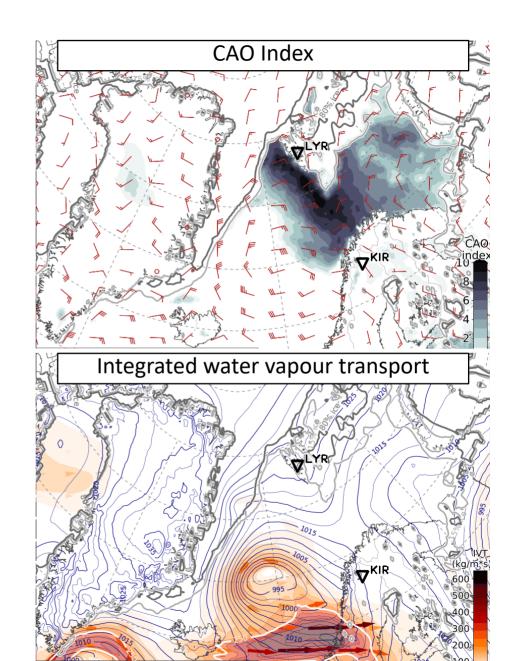
Sat, 2022-03-26 12 UTC (+36h)



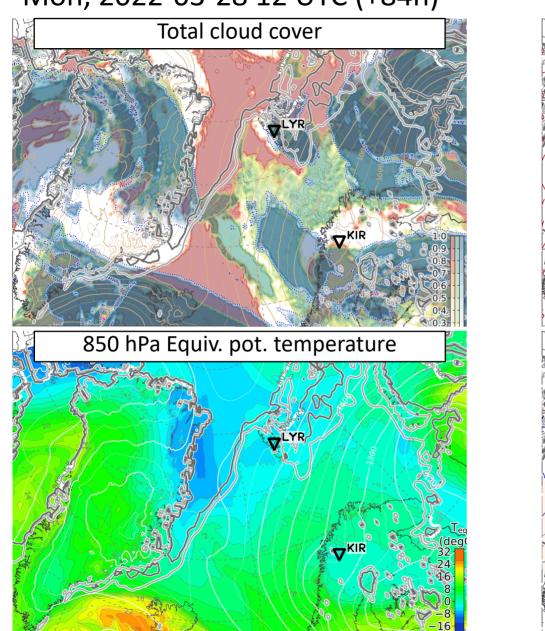


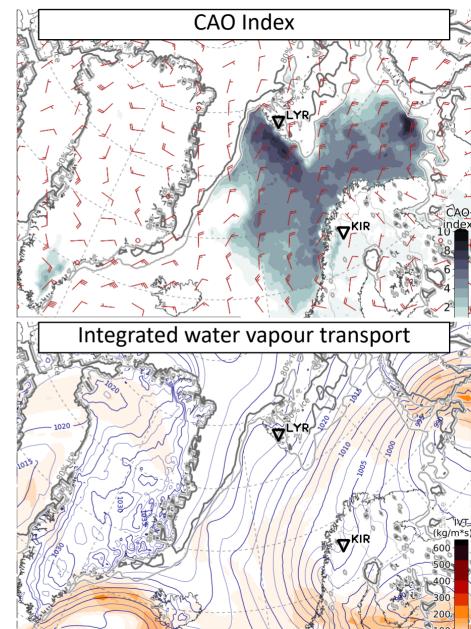
Sun, 2022-03-27 12 UTC (+60h)



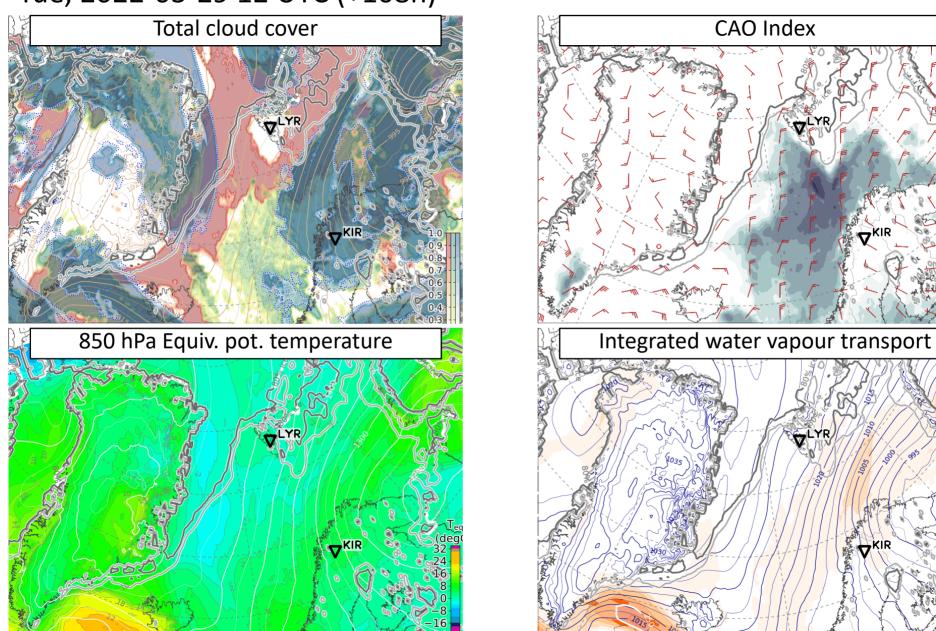


Mon, 2022-03-28 12 UTC (+84h)





Tue, 2022-03-29 12 UTC (+108h)

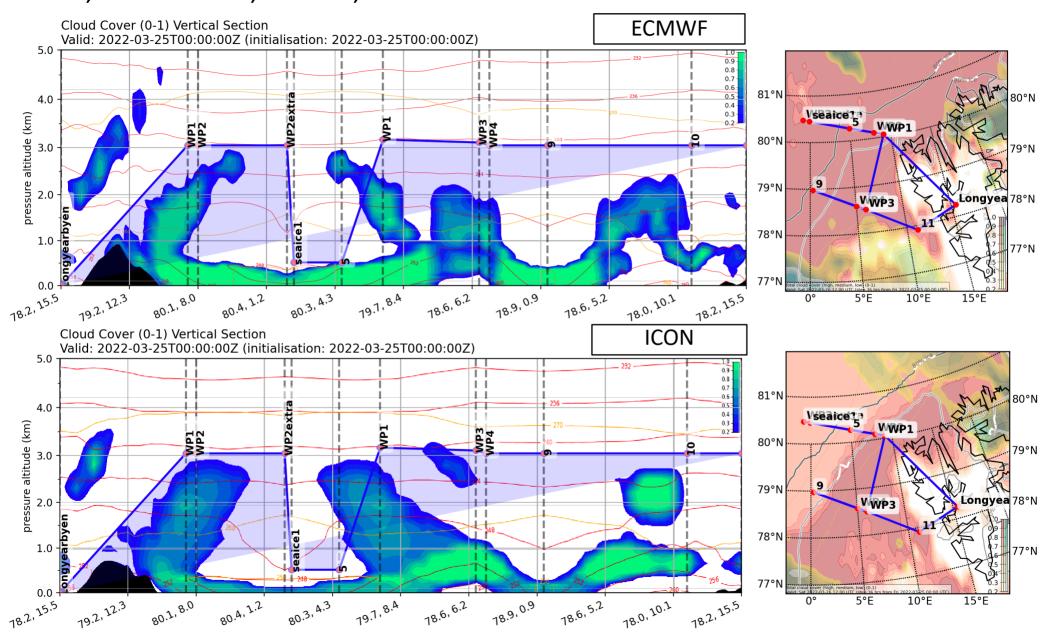


Cloud cross-sections: Polar 5

2022-03-25 00 UTC: 36h

ECMWF & ICON

Sat, 2022-03-26, Clouds, 12 UTC



Airport meteograms & local weather at Svalbard

Longyearbyen:

ECWMF																																								
Freitag 25 Samstag 26									Sonntag 27									Montag 28								Dienstag 29														
Stunden	Θ	4	7	10	13	16	19	22	1	4	7	10	13	16	19	22	1	4	7	10	13	16	19	22	1	4	7	10	13	16	19	22	1	4	7	10	13	16	19	22
		03Z	06Z	09Z	12Z	15Z	18Z	21Z	00Z	03Z	06Z	09Z	12Z	15Z	18Z	21Z	00Z	03Z	06Z	09Z	12Z	15Z	18Z	21Z	00Z	03Z	06Z	09Z	12Z	15Z	18Z	21Z	00Z	03Z	06Z	09Z	12Z	15Z	18Z	21Z
		6		*		***	6	C	0	-	***	**	***									**	%																	%
Temperatur Taupunkt		-20°	-20°	-20°	-19°	-19°	-19°	-19°	-18°	-18°	-18°	-18°	-19°	-20° -	21°	-21°	-20°	-20°	-20°	-20°	-19°	-18°	-18°	-17°	-17°	-16°	-16°	-16°	-15°	-14°	-14°	-15°	-16°	-16°	-15°	-14°	-14°	-14°		-13° -23°
Wind Windböen	km/h			△ 5 18					₹ 8 24	₹ 8 24		№ 4 17	< 3 13	₹4 ₹	₹ 5	√ 5 12	₹ 5 13	▼ 6 15	√ 6 18	▼ 7 21	< 7 22	< 6 23	< 6 24	< 6 25	< 6 25	∠ 7 28	<a>4 6 28	4 5 28	∡ 5 26	∠ 5 26	<a>4 6 27	∠ 5 27	< 5 25	< 5 24	< 5 24	< 4 23	< 5 21	< 5 · 22		
Druck		300h 9	_1021_ km FL3											1029 1	1029	1029							1026									1029			1028	1029			1028	1028
Wolken, Rege	mm	500h 5km FL180																																						
Regen	0																													-										
Konvekt. Regen	Ş	800h 2km 6400ft																		-																				
Schnee	Ç.	900h 900m 3000ft																			-																			
Wolkenunterç	m																											500		6100	6500									

ICON																																								
Freitag 25								Samstag 26									Sor	nntag 27						Montag 28								Die	Dienstag 29							
Stunden	()	4	7	10	13	16	19	22	1	4	7	10	13	16	19	22	1	4	7	10	13	16	19	22	1	4	7	10	13	16	19	22	1	4	7	10	13	16	19	22
		03Z	06Z	09Z	12Z	15Z	18Z	21Z	00Z	03Z	06Z	09Z	12Z	15Z	18Z	21Z	00Z	03Z	06Z	09Z	12Z	15Z	18Z	21Z	00Z	03Z	06Z	09Z	12Z	15Z	18Z	21Z	00Z	03Z	06Z	09Z	12Z	15Z	18Z	21Z
		6		*	*			4	4	4		*	4	*		6	6	6	*	*	*	*	6	-			4	4	4	4	6	4	4	6	*		***	*	0	
Temperatur Taupunkt			-20° -21°	-19°	-19°	-19°	-19°	' -19°				-18° -		-18° -						-17°	-16°	-16°	-16° -19°	-15°	-14°		-13° -16°		-11°	-9°		-11°	-11°	-11°	-11°	-10°	-10°	-10°	-10°	-10°
Wind Windböen	km/h	∠ 7 12	≪ 6 10	4 7 12	4 7 13	4 8 15	△ 7 17	△ 7 18	△ 6 18	<i>⊳</i> 6 17		< 6 · 14				< 8 13				∠ 9 21	∠ 9 23	△ 9 24	<i>A</i> 9 26	<i>4</i> 9 29	△ 9 29	<u>△</u> 11 34	△ 12 36	△12 36	△13 31	▶21 38	△22 40	<u></u> 416	△15 39	△ 15 43			<i>▶</i> 12 38	△12 35	△13 - 37	△ 12 35
Druck		300h 9	1020 km FL30		1020									1027	1026	1027							1024	1024	1024								1027		1027	1027	1026	30	0h 9km	FL300
Wolken, Rege	mm	500h 5	km FL1	80					3															000		56	-				-							50	0h 5km	FL180
Regen	Ö	700h 3	3km FL10	00																																		70	0h 3km	FL100
Konvekt. Regen	\$	800h 2	2km 640	Oft																			488	-														800)h 2km (5400ft
Schnee	•	900h 9	900m 30	00ft									-	-		Name of											_				N N N N N N N N N N					1	_	900h	900m 3	3000ft
																																				1	/			

Latest METAR and TAF from Longyearbyen airport (& airport forceast)

Svalbard Airport. Longyear

Longyearbyen, Norway

latitude: 78-15N, longitude: 015-28E,

elevation: 2 m

Current weather observation

The report was made **31** minutes ago, at **14:50** UTC

Wind 5 kt from the Southeast, varying between East/Northeast and South

Temperature -18°C

Humidity **65**%

Pressure 1020 hPa

Visibility 10 km or more

Few clouds at a height of 2000 ft

Time: 16:21 (15:21 UTC)

Forecast

Forecast valid from 25 at 12 UTC to 26 at 12 UTC

Wind 9 kt from the East/Northeast

Visibility 10 km or more

Few clouds at a height of 2000 ft

TAF: ENSB 2512/2612 06009KT 9999

FEW020

Summary

Summary: Weather Briefing 2022-03-25, 17:00 LT

In General: Good take-off & landing conditions in LYR until Tuesday

• Saturday, 2022-03-26:

- CAA with northerly winds remains in the eastern part of Fram Strait
- Showers west of Svalbard (maybe less organzied)

• Sunday, 2022-03-27:

- Warmer/moister air masses approach Fram Strait from NE and SW
- West of Svalbard on-ice winds / North of Svalbard weak off-ice winds
- Showers in Fram Strait influenced by topogrophy of Svalbard

• Monday, 2022-03-28:

- Northeasterly flow
- Precip. along convergence zone of colder/drier and warmer/moister air in Fram Strait

• Tuesday, 2022-03-29:

- Northeasterly flow persists
- Air masses in Fram Strait moister and less cold
- Precip. along convergence zone in Fram Strait persists, but less intense