ISSN 0013-2705

BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Eisbericht Nr. 118

Amtsblatt des BSH

Jahrgang 97	Nr. 118	Tuesday, 07.05.2024	1

Übersicht

In der Bottenwiek befindet sich in den Schären morsches oder morsch werdendes Festeis, im Norden bis 70 cm dick. Auf See treibt im westlichen Teil 20–70 cm dickes, sehr dichtes, örtlich aufgepresstes Eis. Im Südwesten treibt lockeres bis sehr dichtes, 15–50 cm dickes Eis. Im gesamten östlichen Teil kommt offenes Wasser, mit vereinzelten, dickeren Treibeisschollen im Norden, vor. An den Küsten von Norra Kvarken kommt morsches Eis und auf See meist offenes Wasser vor. An den Küsten der nordwestlichen Bottensee kommt örtlich noch morsches Eis vor.

Overview

In the Bay of Bothnia there is rotten or rotting fast ice in the archipelagos, up to 70 cm thick in the north. At sea in the western part there is 20–70 cm thick, very close, ridged ice. In the southwestern part there is open to very close, 15–50 cm thick drift ice. At sea in the east there is open water with thicker floes at places in the north. In the Quark there is rotten ice at the coasts and mostly open water at sea. Some rotten ice is still present at the coasts of the northwestern Sea of Bothnia.

Bay of Bothnia

In the northern archipelagos there is 40–70 cm thick rotting fast ice or consolidated ice. In the northeast the fast ice stretches out to Malören, Kemi-1, Oulun portti and Raahe lighthouse. In the southern archipelagos there is rotten ice. West of about 22°30'E there is mostly 20-60cm thick, ridged, very close ice reaching the Swedish coast. There are some thicker floes, cracks and areas of lower concentration in the field. Open water is present from around Nygrån to Norströmsgrund and around Simpgrundet there is a vast floe of 60–90 cm thick, ridged ice. In the southwest there is mainly 15–50 cm thick, open to very close ice. At sea in the east there is mostly open water with some thicker floes in the northern part.
With temperatures around 0°C some ice melt is expected with a south/southwestward ice drift.

The Quark

In the inner Vaasa archipelago there is open water. Along the Swedish coast there is rotten ice in places. At sea mostly open water but west of Holöarna there is very open ice and east of Holmöarna there is 10-50cm thick open ice.
With temperatures mostly above 0°C ice melt is expected.

Herstellung und Vertrieb
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Sea of Bothnia

In the northwestern archipelagos there is rotten ice in places. On Ångermanälven is rotten ice.

Further ice melt is expected.

Lake Saimaa

In Lake Saimaa there is mainly open water with rotten ice at some places.

Further ice melt is expected.

Dr. J. Holfort

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi and Oulu	4000 dwt	IA	02.04.
	Raahe	2000 dwt	IA	03.05.
	Kalajoki, Kokkola and Pietarsaari	2000 dwt	IB	06.05.
Sweden	Karlsborg	4000 dwt	IA (2000 t)	14.01.
	Lulea, Haraholmen and Skelleftehamn	4000 dwt	IA	14.01.
	Rundvik and Husum	2000 dwt	IC	15.04.
	Örnsköldsvik	2000 dwt	II	24.04.
	Holmsund	2000 dwt	IB	12.04.
	Angermanälven	2000 dwt	IC	24.04.
	Härnösand	2000 dwt	II	24.04.

Finland/Sweden

The traffic separation schemes in the Quark are temporarily out of use from 20 December due to ice conditions.
Vessels bound for Gulf of Bothnia ports in which assistance restrictions apply, shall when passing latitude 60° 00' N report their nationality, name, destination, ETA and speed to ICE INFO on VHF channel 82. This report can also be given directly by telephone to +46 10 492 7600.
Vessels bound for Finnish or Swedish ports with assistance restrictions in the Quark or the Bay of Bothnia shall, 20 nautical miles before Nordvalen Lighthouse (63° 32.15' N 20° 46.60' E), report in accordance with the instructions for winter navigation to Bothnia VTS on VHF channel 67.

Icebreakers: YMER, ALE, FREJ, POLARIS, OTSO and URHO assist in the Bay of Bothnia. TYRSKY assists in the Lake Saimaa.

Baltic Sea Ice Code

First number:
A_B Amount and arrangements of sea ice
0 Ice free
1 Open water – concentration less than 1/10
2 Very open ice - concentration 1/10 to 3/10
3 Open ice – concentration 4/10 to 6/10
4 Close ice – concentration 7/10 to 8/10
5 Very close ice – concentration 9/10 to 9+/10
6 Compact ice, including consolidated ice – concentration 10/10
7 Fast ice with drift ice outside
8 Fast ice
9 Lead in very close or compact drift ice or along the fast Ice edge
/ Unable to report

Third number:
T_B Topography or form of ice
0 Pancake ice, ice cakes, brash ice – less than 20 m across
1 Small ice floes – 20 to 100 m across
2 Medium ice floes – 100 to 500 m
3 Big ice foes – 500 to 2000 m across
4 Vast or giant ice floes – more than 2000 m across – or level ice
5 Rafted ice
6 Compact slush or shuga, or compacted brash ice
7 Hummocked or ridged ice
8 Thaw holes or many puddles on the ice
9 Rotten ice
/ No information or unable to report

Second number:
S_B Stage of ice development
0 New ice or dark nilas (less than 5 cm thick)
1 Light nilas (5 - 10 cm thick) or ice rind
2 Grey ice (10 - 15 cm thick)
3 Grey-white ice (15 - 30 cm thick)
4 White ice, first stage (30 - 50 cm thick)
5 White ice, second stage (50 - 70 cm thick)
6 Medium first year ice (70 - 120 cm thick)
7 Ice predominantly thinner than 15 cm with some thicker ice
8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice
9 Ice predominantly thicker than 30 cm with some thinner ice
/ No information or unable to report

Fourth number:
K_B Navigation conditions in ice
0 Navigation unobscured
1 Navigation difficult or dangerous for wooden vessels without ice sheathing
2 Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable
3 Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice
4 Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker
5 Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size
6 Icebreaker assistance can only be given to vessels of special ice class and of special size
7 Icebreaker assistance can only be given to vessels after after special permission
8 Navigation temporarily closed
9 Navigation has ceased
/ Unknown

Finland, 07.05.2024

Röyttä – Etukari	8546
Etukari – Ristinmatala	8546
Ajos – Ristinmatala	8546
Ristinmatala – Kemi 2	6476
Kemi 2 – Kemi 1	6476
Sea area SW of Kemi 1	3536
Kemi 2 – Ulkokrunni – Virpiniemi	6476
Oulu harbours – Kattilankalla	7546
Kattilankalla – Oulu 1	6476
Sea area SW of Oulu 1	4476
High Sea N of the latitude of Marjaniemi	2826
Raahe harbour – Heikinkari	2426
Heikinkari – Raahe lighthouse	3436
Raahe lighthouse – Nahkiainen	1706
Latitude Marjaniemi – Ulkokalla, Sea	2826
Rahja harbour – Välimatala	1706
Vaelimatala to line Ulkokalla – Ykskivi	1706
Sea betw. lat. of Ulkokalla –Pietarsaari	4476
Ykspihlaja – Repskär	3496
Repskär – Kokkola lighthouse	1706
Sea area off Kokkola lighthouse	1706
Pietarsaari – Kallan	1706
Sea area off Kallan	1706
Sea lat. Pietarsaari – NE Nordvalen	2336
Sea area ENE of Nordvalen	2326
Sea area Nordvalen to W of Norrskär	1702

Sweden, 07.05.2024

Karlsborg – Malören	8546
Sea area off Malören	5676
Luleå – Björnklack	6576
Björnklack – Farstugrunden	6576
E and SE of Farstugrunden	1406
Sandgrönn fairway	6556
Rödkallen – Norströmsgrund	6556
Haraholmen – Nygrån	6556
Sea area off Nygrån	1506
Skelleftehamn – Gåsören	3576
Sea area off Gåsören	5576
Sea area off Bjuröklubb	8446
NE of Nordvalen	3456
SW of Nordvalen	2426
Western Quark (W of Holmöarna)	2426
Umeå – Väktaren	1406
SE of Väktaren	1406
Ångermanälven north Sandö Bridge	1404
Ångermanälven south Sandö Bridge	1404