ISSN 0013-2705

BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Eisbericht Nr. 112

Amtsblatt des BSH

Jahrgang 97	Nr. 112	Friday, 26.04.2024	1

Übersicht

In der Bottenwiek befindet sich in den Schären morsches oder morsch werdendes Festeis, Im Norden bis 80 cm dick, im Süden bis 50 cm dick. Auf See treibt im westlichen Teil 20–70 cm dickes, sehr dichtes, örtlich aufgepresstes Eis. Im Südwesten treibt dichtes, 15–60 cm dickes Eis. Auf See kommt im gesamten östlichen Teil offenes Wasser mit vereinzelten, dickeren Treibeisschollen vor. An den Küsten von Norra Kvarken liegt morsches Festeis und auf See kommt sehr lockeres bis dichtes, 10–50 cm dickes Eis und offenes Wasser vor. An den Küsten der Bottensee kommt örtlich morsches Festeis vor.

Overview

In the Bay of Bothnia there is rotten or rotting fast ice in the archipelagos, up to 80 cm thick in the north and up to 50 cm thick in the south. At sea in the western part there is 20–70 cm thick, very close, ridged ice. In the southwestern part is close, 15–60 cm thick drift ice. At sea in the east there is open water with thicker floes at places. In the Quark there is rotten fast ice at the coasts and at sea there is very open to close, 10–50 cm thick ice and open water. At the coasts of the Sea of Bothnia there is rotten ice in places.

Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast or consolidated ice; 50–80 cm thick in the north and 40–50 cm thick in the south. The fast ice is rotten in the south and is becoming rotten in the north. In the northeast the fast ice stretches out to Malören, Kemi-1, Oulun portti and Raahe lighthouse. At sea in the east there is mostly open water with some thicker floes all the way to the Quark. North of Falkensgrund is a vast floe of 60–90 cm thick, ridged ice. West of about 22°40'E there is first very close, 40–70 cm thick, ridged ice followed by 20–60 cm thick, ridged, very close ice further west, reaching the Swedish coast, but very open ice is present from Nygrån to about Simpgrundet. In the southwest there is mainly 20–60 cm thick, very close ice to about 64°10'N and mostly 15-50 cm thick close ice further south.
With temperatures around or slightly above 0°C some ice melt is expected over the weekend. The ice will first drift to the southwest and later slightly in varying directions.

The Quark

There is rotten ice along the Swedish coast and in the Vaasa archipelago. On the Vaasa fairway is mainly open water. At sea north of Valassaaret is open, 10-40 cm thick ice. East and north of Holmöarna is close, 15–50 cm thick ice. Else at sea is open water with very open ice around Norrskär.
With temperatures around or slightly above 0°C some ice melt is expected over the weekend. The ice will first drift to the southwest and later slightly

Herstellung und Vertrieb
Bundesamt für Seeschifffahrt und Hydrographie (BSH)
www.bsh.de/eis
www.bsh.de/ice

Eisauskünfte / Ice Information
Telefon: +49 (0) 381 4563 -780
Telefax: +49 (0) 381 4563 -949
E-Mail: ice@bsh.de

in varying directions.

Sea of Bothnia
In the northern archipelagos there is rotten ice in places with open water further out. On Ångermanälven is rotten ice. Ice remnants are present in places along the coast down to about 61°30'N.
With temperatures above 0°C further ice decrease is expected over the weekend.

Gulf of Finland
The Gulf of Finland is ice-free. In Lake Saimaa is 25–50 cm thick, rotting ice with open areas.

With temperatures above 0°C further ice decrease is expected over the weekend.

Dr. W. Aldenhoff

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi and Oulu	4000 dwt	IA	02.04.
	Raahe, Kalajoki and Kokkola	4000 dwt	IA	13.01.
	Pietarsaari	2000 dwt	IA	22.04.
	Vaasa	2000 dwt	II	22.04.
	Lake Saimaa	2000 dwt	II	22.04.
	Saimaa Canal	2000 dwt	IA	08.01.
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, ATLE, POLARIS, OTSO, ZEUS 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, 26.04.2024

Röyttä – Etukari	8546
Etukari – Ristinmatala	8546
Ajos – Ristinmatala	8546
Ristinmatala – Kemi 2	6476
Kemi 2 – Kemi 1	6476
Sea area SW of Kemi 1	5676
Kemi 2 – Ulkokrunni – Virpiniemi	6476
Oulu harbours – Kattilankalla	8546
Kattilankalla – Oulu 1	6476
Sea area SW of Oulu 1	6476
High Sea N of the latitude of Marjaniemi	2816
Raahe harbour – Heikinkari	8546
Heikinkari – Raahe lighthouse	6476
Raahe lighthouse – Nahkiainen	1706
Latitude Marjaniemi – Ulkokalla, Sea	2816
Rahja harbour – Välimatala	1706
Vaelimatala to line Ulkokalla – Ykskivi	3356
Sea betw. lat. of Ulkokalla –Pietarsaari	5476
Ykspihlaja – Repskär	8446
Repskär – Kokkola lighthouse	1706
Sea area off Kokkola lighthouse	1706
Pietarsaari – Kallan	1706
Sea area off Kallan	1706
Sea lat. Pietarsaari – NE Nordvalen	4876
Sea area ENE of Nordvalen	4876
Sea area Nordvalen to W of Norrskär	3336
Vaskiluoto – Ensten	2725
Ensten – Vaasa lighthouse	1705
Vaasa lighthouse – Norrskär	2325
Sea area SW of Norrskär	2325
Kaskinen – Sälgrund	1702

Sweden, 26.04.2024

Karlsborg – Malören	8646
Sea area off Malören	5676
Luleå – Björnklack	6576
Björnklack – Farstugrunden	6576
E and SE of Farstugrunden	5576
Sandgrönn fairway	6556
Rödkallen – Norströmsgrund	6556
Haraholmen – Nygrån	6556
Sea area off Nygrån	5576
Skelleftehamn – Gåsören	8446
Sea area off Gåsören	5576
Sea area off Bjuröklubb	5576
NE of Nordvalen	3426
SW of Nordvalen	3426
Western Quark (W of Holmöarna)	3426
Umeå – Väktaren	1406
SE of Väktaren	3426
NE and SE of Sydostbrotten	1406
Fairway to Husum	1406
Örnsköldsvik – Hörnskaten	1406
Hörnskaten – Skagsudde	1406
Sea area off Skagsudde	1406
Fairway W of Ulvöarna	1406
Sea area E of Ulvöarna	1406

Ångermanälven north Sandö Bridge	2424
Ångermanälven south Sandö Bridge	2424
Härnösand – Härnön	1404
Sea area off Härnö	1404
Sundsvall – Draghällan	1402
Hudiksvallfjärden	1302
Iggesund – Agö	2322