



Eisbericht Nr. 113

Amtsblatt des BSH

Jahrgang 97

Nr. 113

Monday, 29.04.2024

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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 vereinzelt, dickeren Treibeisschollen vor. An den Küsten von Norra Kvarken liegt morsches Festeis und auf See kommt sehr lockeres bis lockeres, 10–40 cm dickes Eis und offenes Wasser vor. An den Küsten der nördlichen Bottensee kommt örtlich morsches Eis 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 open, 10–40 cm thick ice and open water. At the coasts of the northern 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 20–50 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 light-house. At sea in the east there is mostly open water with some thicker floes all the way to the Quark. Around Norströmsgrund there is a vast floe of 60–90 cm thick, ridged ice. West of about 22°30'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 outside Piteå to about Simpgrundet. In the southwest there is mainly 15–60 cm thick, very open to close ice.

With temperatures above 0°C, higher at the coasts than at sea, ice melt is expected. The ice will first drift to the west and later to the east, so overall no larger drift is expected.

The Quark

Along the Swedish coast there is rotten fast ice and further out there is very open to open, 10–40 cm thick ice out to south and east of Nordvalen. East and north of Holmöarna there is close, 15–50 cm thick ice. In the Vaasa archipelago there is rot-

ten fast ice with very open ice somewhat further out. Else at sea mostly open water.

With temperatures above 0°C ice melt is expected with only weak overall ice drift.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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Eisankünfte / Ice Information

Telefon: +49 (0) 381 4563 -780

Telefax: +49 (0) 381 4563 -949

E-Mail: ice@bsh.de

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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 62°10'N. With temperatures above 0°C further ice decrease is expected.

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.

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, 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.
	Ångermanälven	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 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 floes – 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 special permission 8 Navigation temporarily closed 9 Navigation has ceased / Unknown
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Finland, 29.04.2024

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	1706
Sea betw. lat. of Ulkokalla – Pietarsaari	5476
Ykspihlaja – Repskär	8496
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	2722
Ensten – Vaasa lighthouse	1702

Vaasa lighthouse – Norrskär

1702

Sea area SW of Norrskär

1702

Sweden, 29.04.2024

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	2426
SE of Väktaren	3426
Fairway to Husum	1406
Örnsköldsvik – Hörnskatan	1406
Hörnskatan – 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

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Härnösand – Härnön	1404
Sea area off Härnö	1404
Sundsvall – Draghallan	1402