



Eisbericht Nr. 101

Amtsblatt des BSH

Jahrgang 96

Nr. 101

Friday, 21.04.2023

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Übersicht

In den Schären der Bottenwiek befindet sich im Norden bis 70 cm dickes Festeis und im Süden bis 40 cm dickes Festeis. Auf See treibt zumeist sehr dichtes, aufgeschobenes und aufgepresstes Eis mit Spalten, welches im Norden bis 60 cm dick und im Süden bis 40 cm dick ist. Entlang des Festeises im Norden und Osten befindet sich eine Rinne mit örtlich treibenden dickeren Eisschollen. In Kvarken liegt bis 50 cm dickes Festeis in den Schären und Buchten. Auf See kommt im Norden bis 40 cm dickes, sehr dichtes Eis und ansonsten zumeist offenes Wasser mit örtlichem Treibeis vor. In der Bottensee liegt im Norden morsches Eis in den Schären und Buchten und im Süden sowie dem Schärenmeer und der Ålandsee größtenteils offenes Wasser. In den nordöstlichen Schären und Buchten des Finnischen Meerbusens liegt örtlich morsches Eis und offenes Wasser weiter außerhalb.

Overview

In the archipelagos of the Bay of Bothnia, there is up to 70 cm thick fast ice in the north and up to 40 cm thick fast ice in the south. At sea, there is mostly ridged and rafted, very close ice with cracks, which is up to 60 cm thick in the north and up to 40 cm thick in the south. Along the northern and eastern fast ice, there is a wide lead with some heavier drifting floes at places. In the Quark, there is up to 50 cm thick, partly rotten fast ice in the archipelagos and bays. At sea in the northern part, there is very close, up to 40 cm thick ice and else mostly open water with some drifting floes. In the Sea of Bothnia, there is rotten ice along the coast in the north and in the south as well as in the Archipelago and Åland Sea is mostly open water. In the northeastern inner archipelagos and bays of the Gulf of Finland, there is rotten ice at places and open water further out.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 40–70 cm thick fast ice and compact ice, out to Malören, Lallinmöyly and Oulu-2. The fast ice in the south eastern archipelagos is 20–40 cm thick. Off the fast ice in the north and northeast, there is lead with open water to Kalajoki. West of about 24°10'E, follows mainly open drift ice, 10-35 cm thick. West of about 23°50'E, there is 30–60 cm thick, very close ice to about the line Ulkokalla

– Nygrån. Else at sea, there is mainly 10–40 cm thick drift ice to Kvarken with some larger leads of very open ice along the coasts. The entire ice field is partly ridged and rafted but also cracks and leads occur.

Over the weekend with some night frost, the ice will continue to slowly melt. There is some ice drift first to the east and later to the southwest/west

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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Eisaukünfte / Ice Information

Telefon: +49 (0) 381 4563 -780

Telefax: +49 (0) 381 4563 -949

E-Mail: ice@bsh.de

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The Quark

There is 25–45 cm thick, rotting fast ice in the Vaasa archipelago out to Ensten. On the Swedish side, there is 25–50 cm thick fast or partly rotten ice in inner bays and 10–30 cm fast ice around Holmöarna. At sea north of Nordvalen, there is 10–40 cm thick, very close ice. Southwest of Nordvalen, there

is some 5–20 cm thick, open ice. Else at sea, there is mostly open water with some stripes and patches.

Slow ice melt continues over the weekend and there is some ice drift first to the east and later to the southwest/west.

Sea of Bothnia

In the southern part, rotten ice is present only at places in the inner archipelago and else is open water. In the northern part, there is 10–30 cm thick, rotten fast ice in the inner archipelagos and open water along the fairways in the east. In the west,

there is 20–50 cm fast ice or rotten ice in bays and on Ångermanälven. At sea in the north, there are strings with thin ice.

Melting will continue the coming day.

Archipelago Sea and Åland Sea

Rotten ice is present at a few places in the inner archipelagos and between islands. Else is open

water or ice free.

Melting will continue the coming day.

Northern Baltic

The area is ice free.

Gulf of Finland

In the north-eastern inner archipelagos and bays, there is rotten ice and further out and along the Finnish fairways open water. In the top of Vyborg Bay is very open drift ice. In Lake Saimaa, there is 20–50 cm thick ice in the northern part and 10–40

cm thick, rotting ice with openings in the southern part.

Ice melt continues over the weekend and much of the remaining ice will likely vanish.

Dr. W. Aldenhoff

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi and Oulu	4000 dwt	IA	22.02.
	Raahe	4000 dwt	IA	08.03.
	Kalajokki, Kokkola and Pietarsaari	2000 dwt	IA	08.03.
	Vaasa	2000 dwt	I	17.04.
	Lake Saimaa	2000 dwt	IB	01.04.
Sweden	Karlsborg	4000 dwt (2000 t)	IA	28.02.
	Lulea	4000 dwt	IA	28.02.
	Haraholmen and Skelleftehamn	4000 dwt	IA	04.03.
	Holmsund	2000 dwt	IC	07.02.
	Rundvik and Husum	2000 dwt	IC	04.03.
	Örnsköldsvik	2000 dwt	II	18.04.
	Angermanälven	2000 dwt	IC	18.04.

Finland/Sweden

The Saimaa Canal is closed for traffic since 9th January.

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.

The traffic separation schemes in the Quark are temporarily out of use from 7 February due to ice conditions.

Icebreakers:

POLARIS, KONTIO, SISU, ATLE, YMER and FREJ assist in the Bay of Bothnia. OTSO and ZEUS assist in the southern Bay of Bothnia and in the Quark. ALE assists in the Quark. TYRSKY assists in the Lake Saimaa.

Baltic Sea Ice Code

<p>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</p> <p>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</p>	<p>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</p> <p>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</p>
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Finland, 21.04.2023

Röyttä – Etukari	8546	Vaelimatala to line Ulkokalla – Ykskivi	5856
Etukari – Ristinmatala	6476	Sea betw. lat. of Ulkokalla –Pietarsaari	5856
Ajos – Ristinmatala	6476	Ykspihlaja – Repskär	8846
Ristinmatala – Kemi 2	6476	Repskär – Kokkola lighthouse	5356
Kemi 2 – Kemi 1	9926	Sea area off Kokkola lighthouse	2726
Sea area SW of Kemi 1	1706	Pietarsaari – Kallan	8846
Kemi 2 – Ulkokrunni – Virpiniemi	6476	Sea area off Kallan	2726
Oulu harbours – Kattilankalla	8546	Sea lat. Pietarsaari – NE Nordvalen	5356
Kattilankalla – Oulu 1	6476	Sea area ENE of Nordvalen	5356
Sea area SW of Oulu 1	9926	Sea area Nordvalen to W of Norrskär	3756
High Sea N of the latitude of Marjaniemi	5476	Vaskiluoto – Ensten	7756
Raahe harbour – Heikinkari	8446	Ensten – Vaasa lighthouse	1106
Heikinkari – Raahe lighthouse	6476	Vaasa lighthouse – Norrskär	1106
Raahe lighthouse – Nahkiainen	3736	Sea area SW of Norrskär	0//6
Latitude Marjaniemi – Ulkokalla, Sea	5876	Valko Harbour – Täktarn	1101
Rahja harbour – Välimatala	7856	Kotka – Viikari	1101
		Hamina – Suurmusta	1101

Suurmusta – Merikari 1101

Russian Federation, 21.04.2023

Vyborg, port and bay 2//1

Sweden, 21.04.2023

Karlsborg – Malören 8546

Sea area off Malören 8546

Luleå – Björnklack 6356

Björnklack – Farstugrunden 6356

E and SE of Farstugrunden 5356

Sandgrönn fairway 6356

Rödkallen – Norströmsgrund 5576

Haraholmen – Nygrån 6356

Sea area off Nygrån 5356

Skelleftehamn – Gåsören 6356

Sea area off Gåsören 6356

Sea area off Bjuröklubb 6356

NE of Nordvalen 3356

SW of Nordvalen 1206

Western Quark (W of Holmöarna) 1206

Umeå – Väktaren 8446

SE of Väktaren 1206

NE and SE of Sydostbrotten 1206

Fairway to Husum 1206

Örnsköldsvik – Hörnskatan 1206

Hörnskatan – Skagsudde 1206

Sea area off Skagsudde 1206

Fairway W of Ulvöarna 1206

Ångermanälven north Sandö Bridge 8444

Ångermanälven south Sandö Bridge 8494

Hudiksvallfjärden 8392