

Eisbericht Nr. 61 Amtsblatt des BSH

Jahrgang 96	Nr. 61	Tuesday, 21.02.2023	1
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Übersicht

In den Schären der Bottenwiek befindet sich im Norden bis 60 cm dickes Festeis und im Süden bis 30 cm dickes Festeis. Auf das Festeis folgt im Norden bis zu 40 cm dickes zusammenhängendes oder sehr dichtes, örtlich aufgepresstes oder aufgeschobenes Eis. Auf See ansonsten dünnes ebenes Eis oder Neueis mit örtlich dickeren Schollen. In Kvarken liegt bis 35 cm dickes Festeis in den Schären und Buchten und auf See treibt Neueis mit örtlich dickerem Eis. In der Bottensee und dem Schärenmeer kommt dünnes, ebenes Eis oder Festeis entlang der Küsten vor. Im Mälarsee liegt dünnes, ebenes Eis oder Neueis. Im Finnischen Meerbusen liegt in den östlichsten Buchten bis 40 cm dickes Festeis und dichtes bis sehr dichtes Eis sowie Neueis auf See im Osten. In den Schären und Buchten entlang der nördlichen Küste kommt Festeis vor. Im Nordosten des Rigaischen Meerbusen befindet sich 10–20 cm dickes Festeis oder sehr dichtes Eis in geschützten Gebieten.

Overview

In the archipelagos of the Bay of Bothnia, there is up to 60 cm thick fast ice in the north and up to 30 cm thick fast ice in the south. In the north, there is up to 40 cm thick, partly ridged and rafted consolidated or very close ice. Else at sea, there is thin level or new ice with some thicker floes at places. In the Quark, there is up to 35 cm thick fast ice in the archipelagos and bays and new ice with thicker ice at places at sea. In the Sea of Bothnia and the Archipelago Sea, fast ice or thin level ice is present along the coasts. In Lake Mälaren, there is thin level ice and new ice. In the Gulf of Finland, up to 40 cm thick fast ice is present in the easternmost bays and close to very close ice and new ice at sea in the east. In the archipelagos and bays along the northern coast, there is fast ice. In the northeastern Gulf of Riga, there is 10–20 cm thick fast ice or very close ice in sheltered bays.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 25–60 cm thick fast ice and compact, up to 45 cm thick ice towards Malören and off the eastern fast ice. Further out in the northeast, there is 20–40 cm thick, in places ridged very close ice to about Kemi-1 – Oulu-3 – Jaakko. Further out to about a line Farstugrunden – Oulu-1, there is 10–30 cm thick, very close and partly rafted ice. Further out to about Bjuröklubb – Simpgrund –

Falkensgrund – and 20–30 NM outside the Finnish coast, there is thin, 5–8 cm thick level ice and at places are some thicker ice floes. Else at sea, there is mostly new ice and new ice formation. In the southern Bay of Bothnia, there is 20–30 cm thick fast ice in the archipelagos and farther out in the east, there is a narrow band of 5–20cm thick very close ice. Else, there is new ice and new ice formation at sea with some thicker floes at places.

Herstellung und Vertrieb

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

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day and the ice will slowly drift to the southwest.

The Quark

There is 10-35 cm thick fast ice in the Vaasa archipelago out to Storhästen. Further out to Ensten, there is very close, 5-20 cm thick ice followed by open, thin ice and new ice to Norrskär. On the Swedish side, there is mostly fast ice up to 35 cm thick in inner bays. At sea from coast to coast,

there is new ice and new ice formation. In the area Sydostbrotten - Norrskär - Strömmingsbådan, there is open, 5-15 cm thick drift ice.

Ice growth and ice formation continues the coming day. The ice will slightly drift to the southwest.

Sea of Bothnia

In the archipelagos along the eastern coast, there is 10-20 cm thick fast ice: Further out in the northern part, there is thin very open to open ice. Along the western coast, there is thin level ice or new ice in sheltered bays in the south and up to 40 cm

thick fast ice in inner bays in the north. On Ångermanälven, there is 20-40 cm thick fast or level ice. Ice growth and ice formation is expected the coming day.

Archipelago Sea and Aland Sea

At the eastern coast, there is 5-15 cm fast or level ice in the inner bays. In the western and central part new ice is present along the coasts.

Ice formation and ice growth are expected the coming day.

Northern Baltic

In Lake Mälaren, there is 5-15 cm thick fast ice or thin level ice in the western part, with areas of open water. In the eastern part, there is thin ice in sheltered bays. New ice occurs in sheltered places along the outer coast.

Some ice formation is possible in sheltered places.

Gulf of Finland

From St. Petersburg out to Kotlin and in the bay north of Kotlin, there is 20-40 cm thick fast ice or compact ice. In the Bay of Vyborg, there is 15-25 cm thick fast ice and in the Bjerkesund, there is 10-20 cm thick fast ice. Further out to about Nerva, there is very close, 15-25 cm thick ice. East and north of Seskar is an area with close drift ice. East of about 27°30', there is new ice and new ice formation. Further west to the line Kotka - Silimäe is very open thin ice. Along the northern coast, there is 10-25 cm thick fast ice in the eastern archipelagos. Further out, there is new ice. In the western archipelagos, there is 5-15 cm thick fast

Ice formation and ice growth continues the coming day. The ice will drift in southwesterly/southerly directions.

Gulf of Riga

In Väinameri, there is 5-15 cm thick very close ice or fast ice near the coasts. On the fairway is open water. In the eastern part of the Bay of Pärnu, there is mostly 5-15 cm thick, very close ice to

Cape Suurna. In the western part, there is open water.

New ice formation is expected the coming day. There will be a slight southwesterly ice drift

Skagerrak and Kattegat

Up to 15 cm thick ice or new ice is present in some inner Norwegian Fjords. At a few places thicker ice occurs.

No major changes are expected the coming day.

Swedish Lakes

Thin level ice or new ice is present in some sheltered bays in the northeast of Lake Vänern.

No major changes are expected the coming days.

Dr. W. Aldenhoff

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1600 kW	1 C	23.12.
Finland	Tornio, Kemi and Oulu Tornio, Kemi and Oulu Raahe, Kalajoki, Kokkola, Pietarsaari and Vaasa	2000 dwt 4000 dwt 2000 dwt	IA IA I	01.02. 22.02. 07.01.
	Raahe Kaskinen, Inkoo, Kantvik, Helsinki, Sköldvik and Mussalo Loviisa, Kotka and Hamina	2000 dwt 2000 dwt 2000 dwt	IB 	22.02. 07.01. 24.12.
Russia	Vyborg and Vysotsk	-	Ice 1	08.02.
Sweden	Karlsborg and Lulea Haraholmen and Skelleftehamn Holmsund Rundvik and Husum Örnsköldsvik Angermanälven Söraker, Sundsvall and Söderhamn Köping and Västeras Balsta	2000 dwt 2000 dwt 2000 dwt 2000 dwt 2000 dwt 2000 dwt 2000 dwt 1300/2000 dwt 1300/2000 dwt	IB IC IC II IC IB IC IC/II	08.01. 25.12. 07.02. 21.12. 13.02. 07.01. 13.02. 25.01. 22.12.

Estonia

Icebreakers:

EVA-316 assists in the port of Pärnu.

Finland/Sweden

The Saimaa Canal is closed for traffic since 4th 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:

KONTIO, OTSO, SISU, ZEUS, ATLE, YMER and FREJ assist in the Bay of Bothnia. ALE assists in the Quark. CALYPSO assists in the region of Kotka and Hamina.

Russia

There are restrictions for small crafts going to Vysotsk, Vyborg, St. Petersburg, Ust-Luga and Primorsk. No sailing of barge by tug to Vyborg and Vysotsk.

Icebreakers: Several icebreakers assist vessels to the port of Vyborg, Vysotsk, Primorsk, Ust-Luga and St. Petersburg.

Baltic Sea Ice Code

First number: AB Amount and arrangements of sea ice 0 Ice free Open water – concentration less than 1/10 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 Fast ice with drift ice outside Fast ice 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 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 Rafted ice Compact slush or shuga, or compacted brash ice Hummocked or ridged ice Thaw holes or many puddles on the ice Rotten ice No information or unable to report

Pietarsaari - Kallan

Sea area off Kallan

Second number:

S_B Stage of ice development

New ice or dark nilas (less than 5 cm thick) Light nilas (5 - 10 cm thick) or ice rind Grey ice (10 - 15 cm thick)

Grey-white ice (15 - 30 cm thick)
White ice, first stage (30 - 50 cm thick)
White ice, second stage (50 - 70 cm thick)
Medium first year ice (70 - 120 cm thick)

Ice predominantly thinner than 15 cm with some thicker

8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice

9 Ice predominantly thicker than 30 cm with some thinner

No information or unable to report

Fourth number:

K_B Navigation conditions in ice

Navigation unobscured

Navigation difficult or dangerous for wooden vessels

without ice sheathing

Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable

Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice

Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker

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

Sea lat. Pietarsaari - NE Nordvalen

Husøysund – Tønsberg channel

Tønsberg, inner harbour

Icebreaker assistance can only be given to vessels after

5146

8345

8353

after special permission Navigation temporarily closed Navigation has ceased

Unknown

Estonia, 21.02.2023 Shipping route from Narva-Jõssuu 3000 Sea area ENE of Nordvalen 4046 3//5 Sea area Nordvalen to W of Norrskär Paernu, port and bay 3136 Moonsund 1//0 Vaskiluoto - Ensten 7756 Ensten - Vaasa lighthouse 4046 Finland, 21.02.2023 Vaasa lighthouse – Norrskär 3136 Röyttä – Etukari 8446 Sea area SW of Norrskär 3736 Etukari – Ristinmatala 6456 Kaskinen - Sälgrund 2725 Ajos – Ristinmatala Sea area off Sälgrund 6456 2725 Ristinmatala - Kemi 2 High sea from N to latitude Yttergrund 5876 3732 Kemi 2 - Kemi 1 5876 Pori harb. to line Pori lighth. - Säppi 1111 Sea area SW of Kemi 1 Uusikaupunki harbour - Kirsta 5876 8142 Kemi 2 – Ulkokrunni – Virpiniemi 6456 Naantali and Turku – Rajakari 5142 Oulu harbours - Kattilankalla 8145 6456 Inkoo a. Kantvik – sea area Porkkala Kattilankalla - Oulu 1 Helsinki harbours - Harmaja 6456 2005 Sea area SW of Oulu 1 5856 Valko Harbour – Täktarn 4045 High Sea N of the latitude of Marjaniemi 5756 Archipelago fairway Boistö – Glosholm 0//5 Raahe harbour – Heikinkari Kotka – Viikari 8345 8346 Heikinkari – Raahe lighthouse Viikari – Orrengrund 4045 8346 Raahe lighthouse – Nahkiainen 5146 Orrengrund - Tiiskeri 0//5 Latitude Marjaniemi – Ulkokalla, Sea 4756 Hamina - Suurmusta 5145 Rahja harbour - Välimatala Suurmusta – Merikari 5145 5756 Merikari - Kaunissaari Vaelimatala to line Ulkokalla – Ykskivi 5146 0//5 Sea betw. lat. of Ulkokalla -Pietarsaari 5146 Ykspihlaja – Repskär Norway, 21.02.2023 7756 Repskär – Kokkola lighthouse 31// 2126 Svinesund – Halden Sea area off Kokkola lighthouse 5146 Drammensfjord 1101

7756

2126

Vestfjord (Tønsberg) Langårsund (Kragerø)	8555 8144
Russian Federation, 21.02.2023 Port of St. Petersburg St. Petersburg – E-point island Kotlin E-point Kotlin – long. lighth. Tolbuhkin Lighth. Tolbuhkin – lighth. –Šepelevskij Lighthouse Šepelevskij – island Sescar Island Sescar – Island Sommers Vyborg, port and bay Island Vichrevoj – Island Sommers Strait Bjerkesund E-point Bol'šoj Ber'ozovyj – Šepelevskij Luga bay Appr. Luga bay – line MošŠepel.	84/3 54/3 4303 50/2 42/2 50/1 83/3 42/3 83/3 32/2 22/2 2//1
Sweden, 21.02.2023 Karlsborg – Malören Sea area off Malören Luleå – Björnklack Björnklack – Farstugrunden E and SE of Farstugrunden Sandgrönn fairway Rödkallen – Norströmsgrund Haraholmen – Nygrån Sea area off Nygrån Skelleftehamn – Gåsören Sea area off Gåsören Sea area off Bjuröklubb NE of Nordvalen SW of Nordvalen Western Quark (W of Holmöarna) Umeå – Väktaren SE of Väktaren NE and SE of Sydostbrotten Örnsköldsvik – Hörnskaten Hörnskaten – Skagsudde Ångermanälven north Sandö Bridge Ångermanälven south Sandö Bridge Härnösand – Härnön Sundsvall – Draghällan Draghällan – Åstholmsudde Hudiksvallfjärden Iggesund – Agö Sandarne – Hällgrund Ljusnefjärden – Storjungfrun Gävle – Eggegrund Hallstavik – Svartklubben Köping – Kvicksund Västerås – Grönsö Stockholm – Södertälje Södertälje – Fifong Fairway to Kristinehamn	6456 5356 8546 5356 5356 5356 5146 5236 5146 4046 4046 4046 4046 4046 5146 4046 5146 8444 1004 2026 8342 8342 8346 8342 8342 8344 8344 4044 2024 5142