



# Eisbericht Nr. 101

## Amtsblatt des BSH

Jahrgang 95

Nr.101

Thursday, 21.04.2022

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### Übersicht

In den Schären der Bottenwiek liegt im Norden 45–85 cm dickes Festeis und im Süden 30–55 cm dickes Festeis. Auf See treibt zumeist 15–80 cm dickes, sehr dichtes, aufgeschobenes und aufgepresstes Eis bis etwas südlich von Pietarsaari. Örtlich kommt aber auch sehr lockeres Eis oder offenes Wasser vor. In Norra Kvarken liegt in den Schären bis zu 55 cm dickes Festeis und auf See kommt zumeist sehr lockeres Eis oder offenes Wasser vor. Entlang der Küsten und in den Schären der Bottensee und des Schärenmeeres liegt morsches Eis. Im Finnischen Meerbusen liegt entlang der Nordküste im Westen morsches Eis und im Osten bis 50 cm dickes Festeis. Im Osten treibt auf See 15–30 cm dickes, sehr dichtes Eis und entlang der Südküste bis St. Petersburg ist zumeist offenes Wasser. Ansonsten ist die Ostsee zumeist eisfrei.

### Overview

In the archipelagos of the Bay of Bothnia, there is 45–85 cm thick fast ice in the north and 30–55 cm thick fast ice in the south. At sea, there is mostly 15–80 cm thick, very close, ridged and rafted ice to slightly south of Pietarsaari. At places, there is also open water or very open ice. In Norra Kvarken, there is up to 55 cm thick fast ice in the archipelagos and at sea, there is very open ice or open water. Along the coasts and archipelagos of the Sea of Bothnia and the Archipelago Sea, there is rotting ice. In the Gulf of Finland, there is up to 50 cm thick fast ice along the northern and eastern coast and rotten ice in the western part. At sea in the east, there is mostly very close, 15–30 cm thick ice and along the southern coast to St. Petersburg, there is mostly open water. Else, the Baltic Sea is mostly ice free.

### Bay of Bothnia

In and outside the northeastern archipelagos, there is 40–80 cm thick fast ice and consolidated ice, reaching out to Kemi-2, Oulu-2 and Johan. In the northwestern archipelagos the fast ice and consolidated ice is 45–85 cm thick. Off the fast ice in the north, there is an about 15 NM wide area with open water in the west, mostly close, 15–60 cm thick ice in the central part and very open ice in the east. Off the western fast ice from Nygrån to Blackkallen, there is an up to 8 NM wide lead with open water or very open ice. Further south, there is close, 15–60 cm thick ice. Else at sea, there is mostly 15–60 cm thick, very close, ridged and rafted ice. Around

64°50'N 22°40'E, there is an area with 40-80 cm thick, ridged and very close ice. The ice field is difficult to force in places. In the southern Bay of Bothnia, there is 30–50 cm thick fast ice along the Swedish coast and along the eastern coast, there is 30–55 cm thick fast ice or consolidated ice. At sea, there is mostly 15–60 cm thick, very close ice and close or open ice at the ice edge. The ice edge runs approximately from south of Pietarsaari to the northwest. Further south very open, 15–40 cm thick ice in the east and open water in the west. Some ice melt is expected the coming day and the ice will drift slightly to the south.

#### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)  
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**Norra Kvarken**

In the archipelagos off Vaasa, there is 20–55 cm thick fast ice to about Storhästen. Along the Swedish coast, there is 20–50 cm thick fast ice in the archipelagos. At sea, there is very open ice to

Nordvalen and open water further out and along the coasts.

Ice melt continues the coming day and ice drift to the south/southwest.

**Sea of Bothnia**

On Ångermanälven, there is 20–50 cm thick very close ice or rotten fast ice in the upper part and open water in the lower part. Along the Swedish coast there is rotting fast ice in places in the south

and in sheltered bays in the north. Along the Finnish coast, there is rotten fast ice.

Ice melt continues the coming day.

**Archipelago and Åland Sea**

Rotten ice is present in the inner archipelagos and sheltered areas of the eastern coast. Further out

and along the Swedish coast it is mostly ice free.

Continued ice melt continues the coming day.

**Gulf of Finland**

From St. Petersburg up to the dike, there is mostly open water. Northeast of Kotlin, there is 25–35 cm thick, close to very open ice. In the Bay of Vyborg and the Bjerkesund, there is mostly 15–30 cm thick compact or fast. At sea east of 27°40'E and north of about 60°00'N, there is mostly 10–30 cm thick, very close and partly ridged ice. Further south,

there is mostly open water to St. Petersburg. In the archipelagos of the northern coast, there is rotting fast ice in the west and 20–50 cm thick, partly rotting fast ice in the east.

Ice melt continues the coming day and the ice will drift to the southwest.

**Gulf of Riga**

The Gulf of Riga is ice free.

**Northern Baltic**

The area is ice free.

Dr. W. Aldenhoff

### Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
<b>Finland</b>	Tornio, Kemi and Oulu	4000 dwt	IA	21.03.
	Raahe and Kalajoki	4000 dwt	IA	08.03.
	Kokkola and Pietarsaari	2000 dwt	IA	01.02.
	Vaasa	2000 dwt	II	20.04.
	Lake Saimaa	2000 dwt	IA	19.04.
<b>Russia</b>	Primorsk	-	Ice 1	06.04.
<b>Sweden</b>	Karlsborg	2000 dwt	IA	20.04.
	Luleå	2000 dwt	IA	20.04.
	Haraholmen and Skelleftehamn	2000 dwt	IA	20.04.
	Ångermanälven	1300/2000 dwt	IC/II	20.04.

### Information of the Icebreaker Services

#### Finland/Sweden

The Saimaa Canal is closed for traffic from 30th of January.

The traffic separation schemes in the Quark are temporarily out of use from 15 January 2022.

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 78. 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:

OTSO, KONTIO, POLARIS, SISU, ODEN, FREJ and ALE assist in the Bay of Bothnia. TYRSKY assists in the Lake Saimaa.

#### Russia

There are restrictions for small crafts going to Vysotsk, Vyborg, St. Petersburg, Ust-Luga and Primorsk.

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

## Baltic Sea Ice Code

<p>First number:</p> <p><b>A<sub>B</sub> Amount and arrangements of sea ice</b></p> <p>0 Ice free</p> <p>1 Open water – concentration less than 1/10</p> <p>2 Very open ice - concentration 1/10 to 3/10</p> <p>3 Open ice – concentration 4/10 to 6/10</p> <p>4 Close ice – concentration 7/10 to 8/10</p> <p>5 Very close ice – concentration 9/10 to 9+/10</p> <p>6 Compact ice, including consolidated ice – concentration 10/10</p> <p>7 Fast ice with drift ice outside</p> <p>8 Fast ice</p> <p>9 Lead in very close or compact drift ice or along the fast ice edge</p> <p>/ Unable to report</p> <p>Third number:</p> <p><b>T<sub>B</sub> Topography or form of ice</b></p> <p>0 Pancake ice, ice cakes, brash ice – less than 20 m across</p> <p>1 Small ice floes – 20 to 100 m across</p> <p>2 Medium ice floes – 100 to 500 m</p> <p>3 Big ice floes – 500 to 2000 m across</p> <p>4 Vast or giant ice floes – more than 2000 m across – or level ice</p> <p>5 Rafted ice</p> <p>6 Compact slush or shuga, or compacted brash ice</p> <p>7 Hummocked or ridged ice</p> <p>8 Thaw holes or many puddles on the ice</p> <p>9 Rotten ice</p> <p>/ No information or unable to report</p>	<p>Second number:</p> <p><b>S<sub>B</sub> Stage of ice development</b></p> <p>0 New ice or dark nilas (less than 5 cm thick)</p> <p>1 Light nilas (5 - 10 cm thick) or ice rind</p> <p>2 Grey ice (10 - 15 cm thick)</p> <p>3 Grey-white ice (15 - 30 cm thick)</p> <p>4 White ice, first stage (30 - 50 cm thick)</p> <p>5 White ice, second stage (50 - 70 cm thick)</p> <p>6 Medium first year ice (70 - 120 cm thick)</p> <p>7 Ice predominantly thinner than 15 cm with some thicker ice</p> <p>8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice</p> <p>9 Ice predominantly thicker than 30 cm with some thinner ice</p> <p>/ No information or unable to report</p> <p>Fourth number:</p> <p><b>K<sub>B</sub> Navigation conditions in ice</b></p> <p>0 Navigation unobscured</p> <p>1 Navigation difficult or dangerous for wooden vessels without ice sheathing</p> <p>2 Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable</p> <p>3 Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice</p> <p>4 Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker</p> <p>5 Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size</p> <p>6 Icebreaker assistance can only be given to vessels of special ice class and of special size</p> <p>7 Icebreaker assistance can only be given to vessels after special permission</p> <p>8 Navigation temporarily closed</p> <p>9 Navigation has ceased</p> <p>/ Unknown</p>
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**Finland, 21.04.2022**

Röyttä – Etukari	8646
Etukari – Ristinmatala	8546
Ajos – Ristinmatala	8546
Ristinmatala – Kemi 2	6476
Kemi 2 – Kemi 1	9226
Sea area SW of Kemi 1	2726
Kemi 2 – Ulkokrunni – Virpiniemi	8546
Oulu harbours – Kattilankalla	8546
Kattilankalla – Oulu 1	6476
Sea area SW of Oulu 1	5446
High Sea N of the latitude of Marjaniemi	4476
Raahe harbour – Heikinkari	8546
Heikinkari – Raahe lighthouse	7476
Raahe lighthouse – Nahkiainen	5476
Latitude Marjaniemi – Ulkokalla, Sea	5476
Rahja harbour – Välimatala	6366
Vaelimatala to line Ulkokalla – Ykskivi	5476
Sea betw. lat. of Ulkokalla – Pietarsaari	5476
Ykspihlaja – Repskär	8846
Repskär – Kokkola lighthouse	5476
Sea area off Kokkola lighthouse	4476
Pietarsaari – Kallan	7856
Sea area off Kallan	4876
Sea lat. Pietarsaari – NE Nordvalen	1326
Sea area ENE of Nordvalen	0//6
Vaskiluoto – Ensten	7445
Ensten – Vaasa lighthouse	0//5

Uusikaupunki harbour – Kirsta	1100
Hamina – Suurmusta	1701
Suurmusta – Merikari	1701

**Russian Federation, 21.04.2022**

Lighth. Tolbukhin – lighth. – Šepelevskij	43/2
Lighthouse Šepelevskij – island Sescar	2311
Vyborg, port and bay	53/2
Island Vichrevoj – Island Sommers	52/2
Strait Bjerkesund	42/2
E-point Bol'šoj Ber'ozovyj – Šepelevskij	52/2

**Sweden, 21.04.2022**

Karlsborg – Malören	6576
Sea area off Malören	5576
Luleå – Björnklack	6576
Björnklack – Farstugrunden	6576
E and SE of Farstugrunden	1576
Sandgrönn fairway	6576
Rödskallen – Norströmsgrund	5676
Haraholmen – Nygrån	6456
Sea area off Nygrån	6456
Skelleftehamn – Gåsören	2576
Sea area off Gåsören	2576
Sea area off Bjuröklubb	5556
NE of Nordvalen	2422
SW of Nordvalen	2422
Western Quark (W of Holmöarna)	1402

Umeå – Väktaren	2322
SE of Väktaren	2322
Örnsköldsvik – Hörnskatan	2322
Hörnskatan – Skagsudde	2322
Ångermanälven north Sandö Bridge	8494
Ångermanälven south Sandö Bridge	1404
Hudiksvallfjärden	8492