



# Eisbericht Nr. 42

## Amtsblatt des BSH

Jahrgang 95

Nr. 42

Wednesday, 26.01.2022

1

### Übersicht

In den Schären der Bottenwiek liegt im Norden 25–55 cm dickes Festeis und im Süden 10–55 cm dickes Festeis. Außerhalb treibt im Norden 2–20 cm dickes, zumeist lockeres Eis. Außerhalb des östlichen Festeises liegt 20–45 cm dickes, sehr dichtes und örtlich aufgepresstes Eis. Außerhalb des Festeises im Westen kommt zumeist offenes Wasser vor. Im Süden treibt auf See zumeist Neueis, der zentrale Teil der Bottenwiek ist eisfrei. In Norra Kvarken liegt in den Schären bis zu 55 cm dickes Festeis und auf See kommt Neueis vor. Entlang der Küsten und in den Schären der Bottensee, dem Schärenmeer und der Ålandsee liegt Festeis oder dünnes ebenes Eis. Im Finnischen Meerbusen liegt entlang der Nordküste und im Osten bis 40 cm dickes Festeis. Im östlichen Teil treibt auf See sehr dichtes, 15–25 cm dickes Eis. Im Rigaischen Meerbusen befindet sich bis zu 25 cm dickes Eis im Moonsund und in der Pärnubucht. Dünnes, teilweise ebenes Eis kommt örtlich in der nördlichen Ostsee, dem Vänern und der südöstlichen Ostsee vor. Dünnes Eis kommt in geschützten Buchten der zentralen Ostsee vor. In einigen inneren Fjorden des Skagerraks liegt dünnes Eis oder Festeis.

### Overview

In the archipelagos of the Bay of Bothnia, there is 25–55 cm thick fast ice in the north and 10–55 cm thick fast ice in the south. Outside the fast ice in the north, there is 2–20 cm thick, mostly open ice. Off the eastern fast ice, there is very close, 20–45 cm thick, partly ridged ice. Off the fast ice in the west, there is mostly open water. In the southern part, there is mostly new ice; the central Bay of Bothnia is ice free. In Norra Kvarken, there is up to 55 cm thick fast ice in the archipelagos and new ice at sea. Along the coasts and archipelagos of the Sea of Bothnia, the Archipelago Sea and Åland Sea, there is fast ice or thin level ice. In the Gulf of Finland, there is up to 40 cm thick fast ice along the northern coast and in the easternmost part. At sea in the east, there is mostly very close, 15–25 cm thick ice. In the Gulf of Riga, there is up to 25 cm thick ice in Moonsund and Pärnu Bay. Thin ice and thin level ice occurs at places in the northern Baltic, Lake Vänern and the southeastern Baltic. Thin ice occurs in sheltered areas of the central Baltic. Fast ice or thin ice is present in some inner fjords of the Skagerrak.

### Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 20–55 cm thick fast ice, from the Finnish coast reaching out to Kemi-3, Oulu-2 and Johan. Off the fast ice in the east, there is 20–45 cm thick, partly ridged, very close ice to the line Kemi-2 - Holma - Raahe lighthouse. The ice field is difficult

to force in places. Further out to Kemi-1 and Nahkiainen, there is thin very close ice, followed by new ice and ice formation. Off the fast ice in the north, there is open ice, 2–20 cm thick past Malören. Off the fast ice in the west, there is mostly open water with stripes and patches of ice. East of

#### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)  
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Rödkallen there is first open and then very open ice, 2–20 cm thick. In the southern Bay of Bothnia, there is 10–35 cm thick fast ice along the Swedish coast and 25–55 cm thick fast ice in the eastern archipelagos. Further out on the Finnish side, there is very close ice, 10–30 cm thick to Kaarlo and

### Norra Kvarken

In the archipelagoes off Vaasa, there is 20–55 cm thick fast ice to Ensten. Further out to Norra Globsten, there is 5–25 cm thick very close ice and new ice formation further out. Along the Swedish coast, there is 10–35 cm thick fast in the inner archipela-

### Sea of Bothnia

On Ångermanälven, there is 20–50 cm thick fast ice in the upper part and 5–35 cm fast or level ice in the lower part. Else, there is 10–30 cm fast ice in the eastern archipelagos 10–30 cm thick fast ice or

### Archipelago and Åland Sea

Thin level ice is present in inner archipelagos of the coasts and around the Åland islands. On the larger fairways and the outer archipelago at the

### Gulf of Finland

From St. Petersburg up to the longitude of Tolbuchin lighthouse there is 25–40 cm thick fast ice. In the Bay of Vyborg, there is 20–40 cm fast ice. In the Bjerkesund, there is 20–40 cm thick fast ice or 10–20 cm thick very close ice. At sea east of Seskar, there is very close, 15–25 cm thick ice. In the archipelagos of the northern coast, there is fast ice, 10–30 cm thick in the west and 20–40 cm thick

### Gulf of Riga

In Moonsund, there is very close, 5–20 cm thick ice or fast ice along the coasts. On the fairways is very open ice and new ice. In Pärnu Bay, there is

### Northern Baltic

In Lake Mälaren, there is 10–30 cm thick fast ice or level ice in the western part; the central part is mostly ice free and in sheltered bays further east, there is thin level or new ice. Along the Swedish

### Central Baltic

New ice occurs in few sheltered bays along the Swedish coast.

### Southeastern Baltic

In the Curonian Lagoon, there is very close, 5–10 cm thick ice in the eastern part.

### Skagerrak and Kattegat

In some inner fjords of the Skagerrak, there is fast ice, up to 30 cm thick at a few places, and new ice

### Swedish Lakes

New ice as well as thin level ice is present in shel-

Kokkola lighthouse. At sea, there is new ice and new ice formation. The central part of the Bay of Bothnia is ice free.

Some new ice formation will occur and the ice drift will mostly be in northerly directions.

gos and new ice further out. At sea, there is new ice and ice formation around and north of Nordvalen.

Some ice formation is expected and the ice drift will be mostly eastwards/northeastwards.

thin level ice in the western archipelagos. Along the eastern ice edge, there is thin shuga or new ice.

No larger changes are expected.

eastern coast, there is mainly open water, but some new ice occurs at places.

No larger changes are expected.

in the east. Off the fast ice, there is new ice. In Luga bay, 5–20 cm thick, open to close ice is present. In Narva Bay, there is close ice. In Lake Saimaa and the Saimaa Canal, there is 25–45 cm thick ice, which is hard to force at places in the canal.

Ice formation is expected in the east and the ice will drift to the north.

10–25 cm thick fast or very close ice.

No larger changes are expected.

coast, there is new ice or shuga in some sheltered bays.

No larger changes are expected.

No larger changes are expected.

No larger changes are expected.

at places. No larger changes are expected.

tered bays of Lake Vänern. Along the northern

coast, there is 5–20 cm thick fast ice.

No larger changes are expected.

Dr. W. Aldenhoff

### Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
<b>Estonia</b>	Pärnu	1600 kW	1C	17.12.
<b>Finland</b>	Tornio, Kemi and Oulu	4000 dwt	IA	16.01.
	Raahe	2000 dwt	IA	16.01.
	Vaasa	2000 dwt	IB	16.01.
	Kokkola, Kalajoki and Pietarsaari	2000 dwt	IB	11.01.
	Kristiinankaupunki, Pori, Rauma, Uusikaupunki, Naantali, Turku, Koverhar, Lappohja, Helsinki and Sköldvik	2000 dwt	II	01.01.
	Kaskinen, Taalintehdas, Förby, Inkoo, Kantvik	2000 dwt	I	16.01.
	Loviisa and Kotka	2000 dwt	I	04.01.
	Hamina	2000 dwt	I	01.01.
	Mussalo	2000 dwt	II	25.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	IA	22.01.
<b>Russia</b>	Vyborg	-	Ice 1	30.12.
	Vysotsk	-	Ice 2	14.01.
	Primorsk	-	Ice 1	12.01.
	<b>Primorsk</b>	-	<b>Ice 2</b>	<b>27.01.</b>
	Ust-Luga	-	Ice 1	04.01.
	St. Petersburg	-	required	31.12.
<b>Sweden</b>	Karlsborg and Luleå	2000 dwt	IB	06.01.
	Haraholmen and Skelleftehamn	2000 dwt	IB	06.01.
	Holmsund, Rundvik and Husum	2000 dwt	IC	15.01.
	Örnsköldsvik	2000 dwt	IC	15.01.
	Ångermanälven	2000 dwt	IB	06.01.
	Härnösand - Skutskär	2000 dwt	II	22.12.
	Köping and Västerås	2000 dwt	IC	27.12.
	Bålsta	1300/2000 dwt	IC/II	27.12.

### Information of the Icebreaker Services

#### Estonia

**Icebreaker:** EVA-316 assists to the port of Pärnu.

#### Finland/Sweden

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, URHO, POLARIS, FREJ and YMER assist in the Bay of Bothnia. ALE and ZEUS assist in the Quark and VOIMA in the eastern Gulf of Finland. CALYPSO and PROTECTOR assist in the Lake

Saimaa and the Saimaa Canal.

**Norway**

Husøysund, Tønsberg indre havn and Vestfjorden (Tønsberg): Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size. (28.12.21)

Hellefjorden (Kragerø): Navigation temporarily closed. (10.01.22)

**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:  <b>A<sub>B</sub> Amount and arrangements of sea ice</b>                  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:  <b>T<sub>B</sub> Topography or form of ice</b>                  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:  <b>S<sub>B</sub> Stage of ice development</b>                  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:  <b>K<sub>B</sub> Navigation conditions in ice</b>                  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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**Estonia, 26.01.2022**

Shipping route from Narva-Jõssuu	42/1
Paernu, port and bay	73/5
Shipp. route from Paernu to Irben Strait	32/2
Moonsund	32/2

**Finland, 26.01.2022**

Roeyttae – Etukari	8446
Etukari – Ristinmatala	8846
Ajos – Ristinmatala	8846
Ristinmatala – Kemi 2	5876
Kemi 2 – Kemi 1	5246
Sea area SW of Kemi 1	3006

Kemi 2 – Ulkokrunni – Virpiniemi	7876
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	7876
Sea area SW of Oulu 1	5876
High Sea N of the latitude of Marjaniemi	3006
Raahe harbour – Heikinkari	8346
Heikinkari – Raahe lighthouse	6366
Raahe lighthouse – Nahkiainen	5766
Latitude Marjaniemi – Ulkokalla, Sea	3006
Rahja harbour – Välimatala	6366
Vaelimatala to line Ulkokalla – Ykskivi	4246
Sea betw. lat. of Ulkokalla –Pietarsaari	3116
Ykspihlaja – Repsaer	8846
Repskaer – Kokkola lighthouse	6366

Sea area off Kokkola lighthouse	4146	Haraholmen – Nygrån	8446
Pietarsaari – Kallan	7846	Sea area off Nygrån	1306
Sea area off Kallan	5266	Skelleftehamn – Gåsoeren	4046
Sea lat. Pietarsaari – NE Nordvalen	4046	Sea area off Gåsoeren	1306
Sea area ENE of Nordvalen	4046	Sea area off Bjuroeklubb	1306
Sea area Nordvalen to W of Norrskaer	2006	Western Quark (W of Holmoearna)	8346
Vaskiluoto – Ensten	8846	Umeå – Vaektaren	1306
Ensten – Vaasa lighthouse	5746	Oernskoeldsvik – Hoernskaten	8346
Vaasa lighthouse – Norrskaer	1006	Ångermanaelven north Sandoe Bridge	8444
Kaskinen – Sälgrund	5746	Ångermanaelven south Sandoe Bridge	8444
Sea area off Sälgrund	5266	Sundsvall – Draghaellan	8346
Pori harb. to line Pori lighth. – Säppi	5145	Draghaellan – Åstholsudde	3126
Rauma, Harbour – Kylmäpihlaja	5745	Hudiksvallfjaerden	8346
Kylmäpihlaja – Rauma lighthouse	5145	Iggesund – Agoe	8346
Uusikaupunki harbour – Kirsta	8745	Sandarne – Haellgrund	8346
Kirsta – Isokari	5145	Ljusnefjaerden – Storjungfrun	1106
Naantali and Turku – Rajakari	4045	Gaevle – Eggegrund	8346
Rajakari – Lövskär	3005	Hallstavik – Svartklubben	8342
Lövskär – Korra	4045	Koeping – Kvicksund	8344
Korra – Isokari	2005	Västerås – Grönsö	8344
Lövskär – Berghamn	2005	Stockholm – Södertälje	4044
Lövskär – Grisselborg	2005	Fairway to Karlstad	8342
Hanko – Vitgrund	4045	Fairway to Kristinehamn	8342
Koverhar – Hästö Busö	4045		
Inkoo a. Kantvik – sea area Porkkala	7106		
Sea area at Porkkala	2005		
Helsinki harbours – Harmaja	1005		
Vuosaari harbour – Eestiluoto	2005		
Porvoo harbours – Varlax	3005		
Varlax – Porvoo lighthouse	1115		
Valko Harbour – Täktarn	7746		
Archipelago fairway Boistö – Glosholm	3005		
Archipelago fairway Glosholm–Helsinki	3005		
Kotka – Viikari	4046		
Viikari – Orregrund	3005		
Hamina – Suurmusta	8846		
Suurmusta – Merikari	3006		
Merikari – Kaunissaari	3006		

**Russian Federation, 26.01.2022**

Port of St. Petersburg	84/3
St. Petersburg – E-point island Kotlin	84/3
E-point Kotlin – long. lighth. Tolbuhkin	84/3
Lighth. Tolbuhkin – lighth. –Šepelevskij	53/3
Lighthouse Šepelevskij – island Sescar	53/3
Vyborg, port and bay	84/3
Island Vichrevoj – Island Sommers	1311
Strait Bjerkesund	53/3
E-point Bol'šoj Ber'ozovyj – Šepelevskij	53/3
Luga bay	4313
Appr. Luga bay – line Mo.–epel.	3332

**Sweden, 25.01.2022**

Karlsborg – Maloeren	8546
Sea area off Maloeren	1306
Luleå – Bjoernklack	8546
Bjoernklack – Farstugrunden	4356
E and SE of Farstugrunden	4356
Sandgroenn fairway	8546
Roedkallen – Norstroemsgrund	4356