



# Eisbericht Nr. 32

## Amtsblatt des BSH

Jahrgang 95

Nr. 32

Wednesday, 12.01.2022

1

### Übersicht

In den Schären der Bottenwiek liegt im Norden 20–40 cm dickes Festeis und im Süden 10–30 cm dickes Festeis. Auf See befindet sich lockeres bis sehr dichtes, 5–15 cm dickes Eis im Norden und 5–25 cm dickes, sehr dichtes Eis im Süden. In Norra Kvarken liegt in den Schären bis zu 35 cm dickes Festeis und auf See kommt offenes Wasser oder sehr dichtes, 5–25 cm dickes Treibeis vor. Entlang der Küsten der Bottensee, dem Schärenmeer und der Ålandsee liegt Festeis oder dünnes ebenes Eis und in den Schären des Schärenmeeres kommt Neueis vor. Im Finnischen Meerbusen liegt entlang der Nordküste und im Osten bis 35 cm dickes Festeis. Im östlichen Teil treibt auf See sehr dichtes, 5–15 cm dickes Eis oder dünnes ebenes Eis. Im Rigaischen Meerbusen befindet sich bis zu 25 cm dickes Eis im Moonsund und in der Pärnubucht sowie dünnes, ebenes Eis entlang der nordöstlichen Küste. Neueis oder dünnes, ebenes Eis kommt in der nördlichen Ostsee und dem Vänern vor. Neueis kommt in geschützten Buchten der zentralen Ostsee und der südöstlichen Ostsee vor. In einigen inneren Fjorden des Skagerraks liegt Neueis oder Festeis.

### Overview

In the archipelagos of the Bay of Bothnia, there is 20–40 cm thick fast ice in the north and 10–30 cm thick fast ice in the south. At sea, there is open to very close, 5–15 cm thick ice in the north and very close 5–25 cm thick ice in the south. In Norra Kvarken, there is up to 35 cm thick fast ice in the archipelagos and open water or very close, 5–25 cm thick, ice at sea. Along the coasts of the Sea of Bothnia, the Archipelago Sea and Åland Sea, there is fast ice or thin level ice and new ice is present in the archipelagos of the Archipelago Sea. In the Gulf of Finland, there is up to 35 cm thick fast ice along the northern coast and in the easternmost part. At sea in the east, there is mostly very close, 5–15 cm thick ice or thin level ice. In the Gulf of Riga, there is up to 25 cm thick ice in Moonsund and Pärnu Bay and thin level ice in along the northeastern coast. New ice and thin level ice occurs at places in the northern Baltic and Lake Vänern. New ice occurs in sheltered areas of the central Baltic and the southeastern Baltic. Fast ice or new ice is present in some inner fjords of the Skagerrak.

### Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 20–40 cm thick fast ice, from the Finnish coast reaching out to Hebe and Kattilankalla. Off the fast ice in the east, there is 10–30 cm thick consolidated ice to Kemi-2 and Oulu-3. Off the fast

ice in the east, there is first a thin belt of 5–30 cm thick, very close ice and then very close, partly rafted, 5–15 cm thick ice to about 23°50' E. South of Nahkiainen, there is mostly open ice, 5–15 cm thick. Off the fast ice in the west, there is very

#### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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close 5–15 cm thick ice to the line Malören – Falkensgrund, open ice from Farstugrunden to Simpgrundet and open ice further south to Bjuröklubb. In the southern Bay of Bothnia, there is 10–30 cm thick fast ice in the archipelagos. At sea,

### Norra Kvarken

In the archipelagoes off Vaasa, there is 10–35 cm thick fast ice to Ensten and very close, 5–20 cm thick ice to Norra Globsten. Along the Swedish coast, there is 10–20 cm thick fast in the inner archipelagos and thin level ice or very close ice to Holmöarna. At sea, there is open water in the

### Sea of Bothnia

On Ångermanälven, there is 15–35 cm thick fast ice in the upper part and 5–20 cm level or fast ice in the lower part. Else, there is 10–25 cm fast ice or thin level ice in the archipelagos and bays. Further out along the Finnish coast, there is a thin belt

### Archipelago and Åland Sea

Thin level ice is present in inner archipelagos of the coasts. New ice is present around the Åland islands and the archipelagos and fairways of the

### Gulf of Finland

From St. Petersburg up to the dike, there is 25–35 cm thick fast ice. Farther out to Tolbuchin lighthouse, there is 20–30 cm thick fast ice. In the Bay of Vyborg, there is 25–35 cm fast ice. In the Bjerkesund, there is fast ice, 20–30 cm thick, or very close ice. At sea east of about 27°30' E, there is mostly very close, 5–15 cm thick ice or thin level ice. In the archipelagos of the northern coast, there is 20–35 cm fast ice. Off the fast ice, there is thin

### Gulf of Riga

In Moonsund, there is very close, 10–25 cm thick ice and fast ice in the eastern bays. In the central part, there is thin level ice and close ice. New ice is present in the northern entrance to Moonsund. At the south coast of Saaremaa, there is thin level ice or very close ice and new ice further out. In Pärnu Bay, there is 10–25 cm thick fast ice or very close

### Northern Baltic

In Lake Mälaren, there is 5–20 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 some sheltered bays along the Swedish coast. In the port of Ventspils, there is

### Southeastern Baltic

In the Curonian Lagoon, there is very close ice in the central part and else thin level or new ice. In

there is mostly 5–25 cm thick, partly ridged, very close ice.

There will be a strong ice drift to the northeast/east and else no larger changes.

south. In the north, there is very close, 5–25 cm ice in the central part and open ice closer to the east coast and open water closer to the west coast.

There will be a strong ice drift to the northeast/east but else no larger changes.

of very close ice in the north and open water or open ice in the south.

No larger changes but some ice melt are expected the coming day.

eastern coast.

Some ice melt is expected the coming days.

level ice and new ice to the line Porvoo lighthouse – Haapasaari. At the southern coast, new ice is present in Narva bay and sheltered bays along the shore. In Lake Saimaa and the Saimaa Canal, there is 15–35 cm thick ice.

In the western part, there will be some ice melt and in the eastern part, no larger changes are expected. The ice drift will be to the northeast/east.

ice to Kihnu and new ice further out. From Kihnu to Moonsund, there is very close ice or thin level ice. In the port of Riga, there is open, 10–15 cm thick ice.

No larger changes are expected the coming day and the ice drift is to the northeast/east.

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

Some ice melt is expected the coming days.

open water with some pancake ice.

Some ice melt is expected the coming days.

the Vistula Lagoon, there is new ice.

No larger changes are expected the coming day..

**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 at places. Else, it is mostly ice free.

Some ice melt but else no larger changes are expected the coming day.

**Swedish Lakes**

New ice as well as thin level ice is present in sheltered bays of Lake Vänern. Along the northern

coast, there is 5–20 cm thick fast ice. Some ice melt is expected the coming day.

Dr. W. Aldenhoff

**Restrictions to Navigation**

	<b>Harbour/District</b>	<b>At least dwt/hp/kW</b>	<b>Ice Class</b>	<b>Begin</b>
<b>Estonia</b>	Pärnu	1600 kW	1C	17.12.
<b>Finland</b>	Tornio, Kemi and Oulu	2000 dwt	IA	11.01.
	<b>Tornio, Kemi and Oulu</b>	<b>4000 dwt</b>	<b>IA</b>	<b>16.01.</b>
	Raahe	2000 dwt	IB	25.12
	<b>Raahe</b>	<b>4000 dwt</b>	<b>IA</b>	<b>16.01.</b>
	Vaasa	2000 dwt	I	22.12.
	<b>Vaasa</b>	<b>2000 dwt</b>	<b>IB</b>	<b>16.01.</b>
	Kokkola	2000 dwt	IB	11.01.
	Kalajoki and Pietarsaari	2000 dwt	IB	11.01.
	Kaskinen, Kristiinankaupunki, Pori, Rauma, Uusikaupunki, Naantali, Turku, Taalintehdas, Förby, Koverhar, Lappohja, Inkoo, Kantvik, Helsinki and Sköldvik	2000 dwt	II	01.01.
	<b>Kaskinen, Taalintehdas, Förby, Inkoo, Kantvik</b>	<b>2000 dwt</b>	<b>I</b>	<b>16.01.</b>
	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	IB	06.01.	
<b>Russia</b>	Vyborg	-	Ice 1	30.12.
	Vysotsk	-	Ice 1	27.12.
	<b>Primorsk</b>	-	<b>Ice 1</b>	<b>12.01.</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	II	22.12.
	<b>Holmsund, Rundvik and Husum</b>	<b>2000 dwt</b>	<b>IC</b>	<b>15.01.</b>
	Örnsköldsvik	2000 dwt	II	22.12
	<b>Örnsköldsvik</b>	<b>2000 dwt</b>	<b>IC</b>	<b>15.01..</b>
	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.
	Trollhätte Canal and Göta Älv	1300/2000 dwt	IC/II	03.01.
Vänern	1300/2000 dwt	IC/II	03.01.	

**Information of the Icebreaker Services****Estonia**

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

**Finland/Sweden**

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, FREJ and YMER assist in the Bay of Bothnia. ALE and ZEUS assist in the Quark and SISU in the eastern Gulf of Finland. PROTECTOR and METEOR assist in the northern Lake Saimaa. CALYPSO assists in the southern Lake Saimaa and the Saimaa Canal.

**Norway**

Drammensfjord: Navigation dangerous for low powered vessels. (07.01.2022)

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)

Skåtøysund (Kragerø): Navigation difficult or dangerous for wooden vessels (10.01.22)

Langårsund and 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:</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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**Estonia, 12.01.2022**

Shipping route from Narva-Jõssuu	72/2
Kunda, port and bay	40/0
Muuga, port and bay	1//0
Tallinn, port and bay	1//0
Paernu, port and bay	7345
Shipp. route from Paernu to Irben Strait	52/2
Moonsund	52/2

**Finland, 12.01.2022**

Roeyttae – Etukari	8846
Etukari – Ristinmatala	8846
Ajos – Ristinmatala	8846
Ristinmatala – Kemi 2	5366
Kemi 2 – Kemi 1	5256
Sea area SW of Kemi 1	5256
Kemi 2 – Ulkokrunni – Virpiniemi	7346
Oulu harbours – Kattilankalla	8846
Kattilankalla – Oulu 1	6846
Sea area SW of Oulu 1	5756
High Sea N of the latitude of Marjaniemi	5756
Raahe harbour – Heikinkari	7346
Heikinkari – Raahe lighthouse	4746
Raahe lighthouse – Nahkiainen	4746
Latitude Marjaniemi – Ulkokalla, Sea	3726
Rahja harbour – Välimatala	5366
Vaelimatala to line Ulkokalla – Ykskivi	4746
Sea betw. lat. of Ulkokalla –Pietarsaari	4746
Ykspihlaja – Repsaer	7366

Repskaer – Kokkola lighthouse	5766
Sea area off Kokkola lighthouse	4746
Pietarsaari – Kallan	7766
Sea area off Kallan	4246
Sea lat. Pietarsaari – NE Nordvalen	4746
Sea area ENE of Nordvalen	2716
Sea area Nordvalen to W of Norrskaer	1116
Vaskiluoto – Ensten	8846
Ensten – Vaasa lighthouse	5746
Vaasa lighthouse – Norrskaer	1216
Sea area SW of Norrskaer	1016
Kaskinen – Sälgrund	5745
Sea area off Sälgrund	5145
Pori harb. to line Pori lighth. – Säppi	4145
Rauma, Harbour – Kymäpihlaja	5745
Kymäpihlaja – Rauma lighthouse	3125
Sea area W of Rauma lighthouse	0//5
Uusikaupunki harbour – Kirsta	5745
Kirsta – Isokari	5245
Isokari – Sandbaeck	2015
Naantali and Turku – Rajakari	4045
Rajakari – Lövskär	1015
Lövskär – Korra	2005
Korra – Isokari	1005
Lövskär – Berghamn	1005
Hanko – Vitgrund	4045
Koverhar – Hästö Busö	4045
Inkoo a. Kantvik – sea area Porkkala	5745
Helsinki harbours – Harmaja	5245

Harmaja – Helsinki lighthouse	4045	Draghaellan – Åstholmsudde	5046
Fairway Helsinki – Porkkala – Rönnskär	5045	Hudiksvallfjaerden	5246
Vuosaari harbour – Eestiluoto	5245	Iggesund – Agoe	5246
Eestiluoto – Helsinki lighthouse	1005	Sandarne – Haellgrund	5146
Porvoo harbours – Varlax	5245	Gaevle – Eggegrund	5146
Varlax – Porvoo lighthouse	5045	Hallstavik – Svartklubben	5142
Porvoo lighthouse – Kalbådgrund	1005	Koeping – Kvicksund	8344
Valko Harbour – Tåktarn	7746	Västerås – Grönsö	8344
Archipelago fairway Boistö – Glosholm	4145	Grönsö – Södertälje	5144
Archipelago fairway Glosholm–Helsinki	4145	Stockholm – Södertälje	5144
Kotka – Viikari	5246	Södertälje – Fifong	3124
Viikari – Orregrund	5246	Norrköping – Hargökalv	4041
Orregrund – Tiiskeri	4146	Udevalla – Stenungsund	4041
Tiiskeri – Kalbådgrund	1016	Vänernborgsviken	2024
Hamina – Suurmusta	8846	Fairway to Karlstad	8344
Suurmusta – Merikari	5246	Fairway to Kristinehamn	8344
Merikari – Kaunissaari	5246	Fairway to Otterbäcken	2024

**Latvia, 12.01.2022**

Port of Riga	2201
Port of Ventspils	1000

**Russian Federation, 12.01.2022**

Port of St. Petersburg	83/3
St. Petersburg – E-point island Kotlin	83/3
E-point Kotlin – long. lighth. Tolbuhkin	83/3
Lighth. Tolbuhkin – lighth. –Šepelevskij	51/2
Lighthouse Šepelevskij – island Sescar	52/3
Island Sescar – Island Sommers	52/3
Island Sommers– S-point island Gogland	51/2
Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	52/3
Strait Bjerkesund	51/2
E-point Bol'šoj Ber'ozovyj – –epelevskij	52/2
Luga bay	52/3
Appr. Luga bay – line Mo–.—epel.	52/3

**Sweden, 11.01.2022**

Karlsborg – Maloeren	8446
Sea area off Maloeren	5246
Luleå – Bjoernklack	8446
Bjoernklack – Farstugrunden	5246
E and SE of Farstugrunden	5246
Sandgroenn fairway	8446
Roedkallen – Norstroemsgrund	5246
Haraholmen – Nygrån	8446
Sea area off Nygrån	5246
Skelleftehamn – Gåsoeren	5236
Sea area off Gåsoeren	5246
Sea area off Bjuroeklubb	5246
NE of Nordvalen	3226
SW of Nordvalen	3226
Western Quark (W of Holmoearna)	8246
Umeå – Vaektaren	5266
SE of Vaektaren	5266
Oernskoeldsvik – Hoernskaten	5246
Ångermanaelven north Sandoe Bridge	8444
Ångermanaelven south Sandoe Bridge	8444
Haernoessand – Haernoen	5244
Sundsvall – Draghaellan	8346