



# Eisbericht Nr. 75

## Amtsblatt des BSH

Jahrgang 95

Nr. 75

Monday, 14.03.2022

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### Übersicht

In den Schären der Bottenwiek liegt im Norden 30–70 cm dickes Festeis und im Süden 20–55 cm dickes Festeis. Auf See treibt im Norden und Osten 20–60 cm dickes, sehr dichtes, aufgeschobenes und aufgepresstes Eis. Im Süden treibt sehr lockeres, 10–30 cm dickes Eis. In Norra Kvarken liegt in den Schären bis zu 55 cm dickes Festeis, auf See ist kommt sehr lockeres Eis und offenes Wasser 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 45 cm dickes Festeis. Östlich von 27°30' E treibt auf See sehr dichtes, 15–30 cm dickes Eis. Im Rigaischen Meerbusen kommt an der Küste bis zu 25 cm dickes Eis im Moonsund und in der Pärnubucht vor. Dünnes Eis kommt örtlich in der nördlichen Ostsee und dem Vänern vor. In einigen wenigen inneren Fjorden des Skagerraks liegt Festeis oder dünnes Eis.

### Overview

In the archipelagos of the Bay of Bothnia, there is 40–70 cm thick fast ice in the north and 20–55 cm thick fast ice in the south. At sea in the north and east, there is mostly 20–60 cm thick, very close, ridged and rafted ice. In the southern part, there is 10–30 cm thick very open ice. In Norra Kvarken, there is up to 55 cm thick fast ice in the archipelagos and mostly open water or very open 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 45 cm thick fast ice along the northern and eastern coast. At sea east of about 27°30' E, there is very close 15–30 cm thick ice. In the Gulf of Riga, there is up to 25 cm thick ice at the coasts of Moonsund and in Pärnu Bay. Thin ice occurs at places in the northern Baltic and Lake Vänern. Fast ice or thin ice is present in a few inner fjords of the Skagerrak.

### Bay of Bothnia

In and outside the northeastern archipelagos, there is 50–70 cm thick fast ice, reaching out to Kemi-3, Oulu-2 and Jaakko. In the northwestern archipelagos the fast ice is 30–60 cm thick. Off the fast ice in the north and east, there is 40–60 cm thick consolidated ice, in the east to Kemi-2 and Oulu-1. Off the fast ice in the west, there is very close, 20–40 cm thick consolidated ice. At sea, there is an area with very close, ridged, 40–60 cm thick ice around 65°10' N 23°30' E. Else at sea, there is very close,

20–60 cm thick and rafted ice, in the east reaching south to about 64°00' N. The ice field is difficult to force in places and a brash ice barrier is present along the western ice edge. In Skellefteå bight there is thin level ice and new ice. In the southern Bay of Bothnia, there is 20–45 cm thick fast ice along the Swedish coast; on the eastern coast there is 20–55 cm thick fast ice followed by a fringe of consolidated ice. At sea, there is mostly 10–30 cm thick, open to very open ice, but also some

#### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)  
[www.bsh.de/eis](http://www.bsh.de/eis)  
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areas with close ice.  
Some ice formation is possible in the north, but

### Norra Kvarken

In the archipelagoes off Vaasa, there is 25–55 cm thick fast ice to Ensten and then 10–35 cm thick, very close drift ice to Grynge. Along the Swedish coast, there is 20–40 cm thick fast ice in the archi-

### Sea of Bothnia

On Ångermanälven, there is 20–50 cm thick very close ice in the upper part and 15–35 cm open or very close ice in the lower part. In the bays along the western coast, there is 10–40 cm thick fast ice, further out there is open water in places. Along the

### Archipelago and Åland Sea

10–30 cm thick fast ice and level ice is present in the inner archipelagos and bays of both coasts. At the eastern coast, there is very open ice on the

### Gulf of Finland

From St. Petersburg up to the easternmost tip of Kotlin, there is 30–40 cm thick fast ice. In the Bay of Vyborg and the Bjerkesund, there is mostly 25–40 cm thick compact or fast ice and very close ice in the entrance to Vyborg Bay. Outside a lead with level ice. At sea, east of a line from Haapasaari to Narva there is mostly very close, 15–30 cm thick ice. Further west some miles of new ice. In Luga

### Gulf of Riga

In Moonsund, there is 10–20 cm thick fast ice at the eastern coast, followed by very close ice. Further out and on the fairways mostly open water. In Pärnu Bay, there is 20–40 cm thick fast ice near

### Northern Baltic

In Lake Mälaren, there is 10–30 cm thick fast ice or level ice in the western part, and further east, there is mostly thin level ice. In the central part, there are areas with open water or new ice. Along the Swe-

### Skagerrak and Kattegat

Near Tønsberg there is thin fast ice and in Hellefjorden near Kragerø there is 15–30 cm thick fast

### Swedish Lakes

In Lake Vänern, there is rotten ice in bays of the northern coast.

Dr. J.Holfort

overall no larger changes are expected.

pelagos and 10-30cm thick, very close ice inside Holmöarna. At sea, there is mostly open water or 10-30cm thick very open to open ice.  
No larger changes are expected.

eastern coast, there is 10–40 cm fast ice in the inner archipelagos, followed by a narrow belt of 10–35 cm thick, very close ice with brash ice barriers in the north.  
No larger changes are expected.

fairways and open water in the outer archipelagos. Around the Åland Islands, there is thin level ice.  
No larger changes are expected.

Bay there is 10-20cm thick, very close ice. In the archipelagos of the northern coast, there is fast ice, 10–35 cm thick in the west and 20–50 cm thick in the east. Off the fast ice east of Lovisa there is close and level ice.  
Some new ice may form in the east, but overall no larger changes are expected.

the coast; very close ridged ice and new ice is present out to the line Manilaid –Häädemeeste. Further out to Kihnu, there is new ice.  
Overall no larger changes are expected.

dish coast, there is partly broken, thin level ice at a few sheltered places.  
No larger changes are expected, but some ice melt is possible.

ice. Else it is mostly ice free.  
No larger changes are expected.

No larger changes are expected but ice melt will slowly continue.

## 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	2000/4000 dwt	IA Super(5000kW)/IA	09.02.
	Raahe	4000 dwt	IA	08.03.
	Kokkola, Pietarsaari and Vaasa	2000 dwt	IA	01.02.
	Kalajoki	4000 dwt	IA	08.03.
	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.
<b>Russia</b>	Vyborg	-	Ice 1	30.12.
	Vysotsk	-	Ice 2	14.01.
	Primorsk	-	Ice 2	27.01.
	Ust-Luga	-	Ice 1	04.01.
	St. Petersburg	-	required	31.12.
<b>Sweden</b>	Karlsborg and Luleå	4000 dwt	IA	19.02.
	Haraholmen and Skelleftehamn	4000 dwt	IA	19.02.
	<b>Holmsund, Rundvik and Husum</b>	<b>2000 dwt</b>	<b>IC</b>	<b>14.03.</b>
	Örnsköldsvik	2000 dwt	IC	15.01.
	Ångermanälven	2000 dwt	IB	06.01.
	Härnösand	2000 dwt	II	22.12.
	Köping and Västerås	1300/2000 dwt	IC/II	02.03.

## Information of the Icebreaker Services

**Estonia**

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

**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, URHO, POLARIS, NORDICA, SISU, FREJ and YMER assist in the Bay of Bothnia. ATLE und ALE assist in the Quark and ZEUS in the Sea of Bothnia, FENNICA in the eastern Gulf of Finland.

**Norway**

Hellefjorden (Kragerø): Navigation temporarily closed. (28.02.22)

**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 , 14.03.2022**

Shipping route from Narva-Jõssuu	30//
Paernu, port and bay	7375
Moonsund	1//1

**Finland , 14.03.2022**

Roeyttae – Etukari	8546
Etukari – Ristinmatala	8846
Ajos – Ristinmatala	8846
Ristinmatala – Kemi 2	6876
Kemi 2 – Kemi 1	5876
Sea area SW of Kemi 1	5376
Kemi 2 – Ulkokrunni – Virpiniemi	8546
Oulu harbours – Kattilankalla	8546
Kattilankalla – Oulu 1	6876
Sea area SW of Oulu 1	5476
High Sea N of the latitude of Marjaniemi	5876
Raahe harbour – Heikinkari	8446
Heikinkari – Raahe lighthouse	7446
Raahe lighthouse – Nahkiainen	5876
Latitude Marjaniemi – Ulkokalla, Sea	5876
Rahja harbour – Välimatala	6366
Vaelimatala to line Ulkokalla – Ykskivi	5476
Sea betw. lat. of Ulkokalla –Pietarsaari	5856
Ykspihlaja – Repskaer	8846
Repskaer – Kokkola lighthouse	6366
Sea area off Kokkola lighthouse	9836
Pietarsaari – Kallan	7856

Sea area off Kallan	5856
Sea lat. Pietarsaari – NE Nordvalen	2726
Sea area ENE of Nordvalen	2216
Sea area Nordvalen to W of Norrskaer	1216
Vaskiluoto – Ensten	8446
Ensten – Vaasa lighthouse	5326
Vaasa lighthouse – Norrskaer	1216
Kaskinen – Sälgrund	5746
Sea area off Sälgrund	5766
Pori harb. to line Pori lighth. – Säppi	5245
Rauma, Harbour – Kylmäpihlaja	7765
Kylmäpihlaja – Rauma lighthouse	1205
Uusikaupunki harbour – Kirsta	8745
Kirsta – Isokari	1715
Naantali and Turku – Rajakari	7245
Rajakari – Lövskär	3225
Lövskär – Korra	3225
Korra – Isokari	1105
Lövskär – Berghamn	2105
Lövskär – Grisselborg	2105
Inkoo a. Kantvik – sea area Porkkala	7206
Helsinki harbours – Harmaja	1105
Vuosaari harbour – Eestiluoto	1105
Porvoo harbours – Varlax	1115
Valko Harbour – Täktarn	7116
Archipelago fairway Boistö – Glosholm	2006
Archipelago fairway Glosholm–Helsinki	1115
Kotka – Viikari	5346

Viikari – Orregrund 5745  
 Orregrund – Tiiskeri 1115  
 Hamina – Suurmusta 7846  
 Suurmusta – Merikari 5746  
 Merikari – Kaunissaari 5746

**Norway , 14.03.2022**

Svinesund – Halden 31//  
 Tønsberg, inner harbour 8031  
 Vestfjord (Tønsberg) 8031

**Russian Federation , 14.03.2022**

Port of St. Petersburg 84/3  
 St. Petersburg – E-point island Kotlin 84/3  
 E-point Kotlin – long. lighth. Tolbuhkin 53/3  
 Lighth. Tolbuhkin – lighth. –Šepelevskij 52/2  
 Lighthouse Šepelevskij – island Sescar 53/3  
 Island Sescar – Island Sommers 53/3  
 Vyborg, port and bay 84/3  
 Island Vichrevoj – Island Sommers 53/3  
 Strait Bjerkesund 53/3  
 E-point Bol'šoj Ber'ozovyj – Šepelevskij 51/2  
 Luga bay 52/2  
 Apr. Luga bay – line Moš.-Šepel. 52/2

**Sweden , 14.03.2022**

Karlsborg – Maloeren 6456  
 Sea area off Maloeren 5576  
 Luleå – Bjoernklack 6456  
 Bjoernklack – Farstugrunden 6456  
 E and SE of Farstugrunden 5576  
 Sandgroenn fairway 6456  
 Roedkallen – Norstroemsgrund 5456  
 Haraholmen – Nygrån 8546  
 Sea area off Nygrån 5456  
 Skelleftehamn – Gåsoeren 5456  
 Sea area off Gåsoeren 5456  
 Sea area off Bjueroeklubb 6456  
 NE of Nordvalen 2326  
 SW of Nordvalen 2326  
 Western Quark (W of Holmoearna) 8346  
 Umeå – Vaektaren 8446  
 SE of Vaektaren 1206  
 Fairway to Husum 4046  
 Oernskoeldsvik – Hoernskaten 8446  
 Hoernskaten – Skagsudde 8446  
 Sea area off Skagsudde 4046  
 Fairway W of Ulvoearna 4046  
 Sea area E of Ulvoearna 1206  
 Ångermanaelven north Sandoe Bridge 5434  
 Ångermanaelven south Sandoe Bridge 3424  
 Haernoessand – Haernoen 1206  
 Sea area off Haernoen 1206  
 Sundsvall – Draghaellan 8442  
 Draghaellan – Åstholmsudde 4041  
 Hudiksvallfjaerden 8442  
 Iggesund – Agoe 5041  
 Sandarne – Haellgrund 4041  
 Ljusnefjaerden – Storingfrun 4041  
 Gaevle – Eggegrund 8442

Oeregrundsgrepen 1000  
 Hallstavik – Svartklubben 8342  
 Koeping – Kvikksund 8344  
 Västerås – Grönsö 8344  
 Grönsö – Södertälje 5244  
 Stockholm – Södertälje 5242  
 Fairway to Gruvön 5041  
 Fairway to Karlstad 8392  
 Fairway to Kristinehamn 8392