



# Eisbericht Nr. 84

## Amtsblatt des BSH

Jahrgang 95

Nr. 84

Friday, 25.03.2022

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### Übersicht

In den Schären der Bottenwiek liegt im Norden 40–85 cm dickes Festeis und im Süden 30–55 cm dickes Festeis. Auf See treibt im Norden und Osten 30–70 cm dickes, sehr dichtes, aufgeschobenes und aufgepresstes Eis. Im Süden ist meist offenes Wasser. In Norra Kvarken liegt in den Schären bis zu 55 cm dickes Festeis und auf See kommt 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 ungefähr 28°00' 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, teilweise morsches Eis kommt örtlich in der nördlichen Ostsee und dem Vänern vor.

### Overview

In the archipelagos of the Bay of Bothnia, there is 40–85 cm thick fast ice in the north and 30–55 cm thick fast ice in the south. At sea in the north and east, there is mostly 30–70 cm thick, very close, ridged and rafted ice. In the southern part, there is mostly open water. In Norra Kvarken, there is up to 55 cm thick fast ice in the archipelagos and open water 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 28°00' 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, partly rotten ice occurs at places in the northern Baltic and Lake Vänern.

### Bay of Bothnia

In and outside the northeastern archipelagos, there is 55–85 cm thick fast ice, reaching out to Kemi-3, Oulu-2 and Jaakko. In the northwestern archipelagos the fast ice is 40–70 cm thick. Off the fast ice in the north and east, there is 40–70 cm thick consolidated ice, in the east to Kemi-2 and Oulu-1. Off the fast ice in the west, there is very close or consolidated, 30–50 cm thick ice. At sea, there is an area with very close, ridged, 40–70 cm thick ice around 65°15' N 23°30' E. Else at sea, there is very close, 30–60 cm thick, ridged and rafted ice east of the line Simpngund – Kokkola. There is

pressure in the ice field and it is difficult to force in places, but in other places there are also numerous fractures and leads. A slowly dissolving brash ice barrier is present along the western ice edge. In the southern Bay of Bothnia, there is 30–50 cm thick fast ice along the Swedish coast; on the eastern coast there is 30–55 cm thick fast ice followed by a narrow fringe of consolidated or ridged very close ice. At sea, there is mostly open water with some stripes and patches of mostly 10–30 m thick very open ice.

A northerly wind will bring falling temperatures over

### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

[www.bsh.de/eis](http://www.bsh.de/eis)

[www.bsh.de/ice](http://www.bsh.de/ice)

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the weekend and therefore new ice formation is expected. But due to the more southerly ice drift also the difficult situation in the northeast as well

### Norra Kvarken

In the archipelagoes off Vaasa, there is 30–55 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 archipelagos. At sea, there is open water in the north-

### Sea of Bothnia

On Ångermanälven, there is 20–50 cm thick very close ice in the upper part and mostly open water 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. Along the eastern coast, there is 20–45 cm fast ice in the inner archipelagos,

### Archipelago and Åland Sea

10–30 cm thick fast ice and level ice are present in the inner archipelagos and bays of both coasts. At the eastern coast, there is mostly open water on the fairways and in the outer archipelagos. Around

### Gulf of Finland

From St. Petersburg up to the easternmost tip of Kotlin, there is 35–45 cm thick fast ice. In the Bay of Vyborg and the Bjerkesund, there is mostly 25–45 cm thick compact or fast ice and very close ice in the entrance to Vyborg Bay. At sea, east of about 28°00' E there is mostly very close, 15–30 cm thick ice. In Luga Bay there is very open ice. In the archipelagos of the northern coast, there is fast

### Gulf of Riga

In Moonsund, there is 10–20 cm thick rotten fast ice at the eastern coast, followed by very close ice. Further out and on the fairways, there is open water. In Pärnu Bay, there is 15–25 cm thick fast ice near the coast, further out there is close, ridged ice

### Northern Baltic

In Lake Mälaren, there is rotten fast or level ice and in the central part areas with open water. Along the Swedish coast, there is partly broken

### Swedish Lakes

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

Dr. J.Holfort

as the brash ice barriers will dissipate and get easier.

ern part and also along the coasts.

With falling temperatures some ice formation can be expected, especially with calm wind conditions on Sunday morning. But overall the changes expected over the weekend will be small.

followed by a very narrow belt of 10–30cm thick ice of varying concentrations.

Some ice formation is possible during night, but overall the expected changes over the weekend will be only minor.

the Åland Islands, there is thin level ice. The ice in the area gets rotten.

Some ice melt could happen but overall no larger changes are expected over the weekend.

ice, 15–35 cm thick in the west and 30–55 cm thick in the east. Off the fast ice east of Loviisa, there is mostly open water in the west, but very close ice south of Hamina.

Easterly, and later southeasterly ice drift with some ice formation is expected in the eastern part over the weekend.

not quite reaching the line Manilaid – Häädemeeste.

Overall some ice melt, but else no larger changes are expected over the weekend.

and rotten thin level ice in the Stockholm archipelago.

Ice melt is expected the coming days.

Ice melt will continue the coming days.

## 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	21.03.
	Raahe and Kalajoki	4000 dwt	IA	08.03.
	Kokkola, Pietarsaari and Vaasa	2000 dwt	IA	01.02.
	Kaskinen	2000 dwt	I	16.01.
	Kristiinankaupunki, Pori, Rauma, Uusikaupunki, Naantali and Turku	2000 dwt	II	01.01.
	Loviisa	2000 dwt	II	24.03.
	Kotka	2000 dwt	I	01.04.
	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	4000 dwt (4000 t)	IA	23.03.
	Luleå	4000 dwt	IA	19.02.
	Haraholmen and Skelleftehamn	4000 dwt	IA	19.02.
	Holmsund, Rundvik and Husum	2000 dwt	IC	14.03.
	Örnsköldsvik	2000 dwt	IC	15.01.
	Ångermanälven	2000 dwt	IB	06.01.
	Härnösand	2000 dwt	II	22.12.

## 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, ODEN, ALE and YMER assist in the Bay of Bothnia. ZEUS assist in the Sea of Bothnia, VOIMA 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 , 25.03.2022**

Pärnu, port and bay 7375

Moonsund 1//0

**Finland , 25.03.2022**

Röyttä – Etukari 8646

Etukari – Ristinmatala 8546

Ajos – Ristinmatala 8546

Ristinmatala – Kemi 2 6476

Kemi 2 – Kemi 1 5476

Sea area SW of Kemi 1 5476

Kemi 2 – Ulkokrunni – Virpiniemi 8546

Oulu harbours – Kattilankalla 8546

Kattilankalla – Oulu 1 6476

Sea area SW of Oulu 1 5476

High Sea N of the latitude of Marjaniemi 5476

Raahe harbour – Heikinkari 8546

Heikinkari – Raahe lighthouse 7476

Raahe lighthouse – Nahkiainen 5476

Latitude Marjaniemi – Ulkokalla, Sea 5476

Rahja harbour – Välimatala 6366

Välimatala to line Ulkokalla – Ykskivi 5476

Sea betw. lat. of Ulkokalla –Pietarsaari 5456

Ykspihlaja – Repskär 8846

Repskär – Kokkola lighthouse 6866

Sea area off Kokkola lighthouse 1726

Pietarsaari – Kallan 7856

Sea area off Kallan 5876

Sea lat. Pietarsaari – NE Nordvalen 1716

Sea area ENE of Nordvalen 1216

Vaskiluoto – Ensten 8446

Ensten – Vaasa lighthouse 5326

Kaskinen – Sälgrund 5746

Sea area off Sälgrund 5766

Pori harb. to line Pori lighth. – Säppi 1215

Rauma, Harbour – Kylmäpihlaja 7765

Uusikaupunki harbour – Kirsta 8745

Kirsta – Isokari 0//5

Naantali and Turku – Rajakari 1205

Rajakari – Lövskär 1205

Lövskär – Korra 1205

Korra – Isokari 0//5

Lövskär – Berghamn 1105

Lövskär – Grisselborg 1105

Inkoo a. Kantvik – sea area Porkkala 7201

Vuosaari harbour – Eestiluoto 1000

Porvoo harbours – Varlax 1000

Varlax – Porvoo lighthouse 1000

Valko Harbour – Täktarn 7715

Archipelago fairway Boistö – Glosholm 1105

Archipelago fairway Glosholm–Helsinki 1105

Kotka – Viikari 4346

Viikari – Orregrund 2715

Orregrund – Tiiskeri 1005

Hamina – Suurmusta 7846

Suurmusta – Merikari 5746

Merikari – Kaunissaari 1716

**Russian Federation , 25.03.2022**

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 63/3  
E-point Bol'šoj Ber'ozovyj – Šepelevskij 53/2  
Luga bay 1212  
Appr. Luga bay – line Moš.-Šepel. 52/2

**Sweden , 25.03.2022**

Karlsborg – Malören 6456  
Sea area off Malören 5576  
Luleå – Björnklack 6456  
Björnklack – Farstugrunden 5576  
E and SE of Farstugrunden 5576  
Sandgrönn fairway 6456  
Rödkaullen – Norströmsgrund 5456  
Haraholmen – Nygrån 6456  
Sea area off Nygrån 6456  
Skelleftehamn – Gåsören 5456  
Sea area off Gåsören 5456  
Sea area off Bjuröklubb 6456  
Western Quark (W of Holmöarna) 2326  
Umeå – Väktaren 8446  
Fairway to Husum 0//6  
Örnsköldsvik – Hörnskatan 8446  
Hörnskatan – Skagsudde 8446  
Fairway W of Ulvöarna 1306  
Ångermanälven north Sandö Bridge 5434  
Ångermanälven south Sandö Bridge 1304  
Härnösand – Härnön 1306  
Sundsvall – Draghallan 1101  
Draghallan – Åstholmsudde 1101  
Hudiksvallfjärden 8442  
Hallstavik – Svartklubben 8392  
Köping – Kvicksund 8392  
Västerås – Grönsö 8392  
Grönsö – Södertälje 8392  
Stockholm – Södertälje 8392  
Fairway to Karlstad 8392  
Fairway to Kristinehamn 8392