

# Eisbericht Nr. 96

## Amtsblatt des BSH

Jahrgang 95

Nr. 96

Tuesday, 12.04.2022

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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. Entlang des Festeises im Nordosten und Osten liegt eine 5–15 m breite Rinne mit Treibeis verschiedener Konzentrationen oder offenem Wasser. Auf See treibt 20–70 cm dickes, sehr dichtes, aufgeschobenes und aufgepresstes Eis bis zu den Holmöarna. In Norra Kvarken liegt in den Schären bis zu 50 cm dickes Festeis. Auf See kommt im Norden sehr dichtes und lockeres, 20–60 cm dickes Eis und im Süden offenes Wasser vor. Entlang der Küsten und in den Schären der Bottensee liegt Festeis und im Süden auch morsches Eis; im Schärenmeer und der Ålandsee morsches Eis. Im Finnischen Meerbusen liegt entlang der Nordküste und im Osten bis 45 cm dickes Festeis. Östlich und nördlich von Seskar treibt auf See 15–30 cm dickes Eis und entlang der Südküste bis St. Petersburg sehr lockeres Eis. Im Rigaischen Meerbusen kommt in der Pärnubucht ein schmaler Streifen morsches Festeis vor. In der nördlichen Ostsee und dem Vänern kommt im geschützten Buchten noch vereinzelt morsches Eis 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. Outside the fast ice in the northeast and east, there is a 5–15 NM wide lead with drift ice of varying concentration or open water. At sea, there is mostly 20–70 cm thick, very close, ridged and rafted ice to Holmöarna. In Norra Kvarken, there is up to 50 cm thick fast ice in the archipelagos. At sea, there is very close or open, 20–60 cm thick ice in the north and open water in the south. Along the coasts and archipelagos of the Sea of Bothnia, there is fast ice and in the south also rotten ice; in the Archipelago Sea and Åland Sea, there is rotten ice. In the Gulf of Finland, there is up to 45 cm thick fast ice along the northern and eastern coast. At sea east and north of Seskar, there is mostly very close 15–30 cm thick ice and along the southern coast to St. Petersburg, there is very open ice. In the Gulf of Riga, a narrow belt of rotten fast ice is present in Pärnu Bay. In the northern Baltic and Lake Vänern, thin rotten ice is still present in a few sheltered bays.

### Bay of Bothnia

In and outside the northeastern archipelagos, there is 55–85 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 40–70 cm thick. Further out east of Malören, there is an up to 15 NM wide lead with open water or very open ice. The lead continues

up to 5 NM wide along the eastern fast ice edge to Norra Kvarken. In the lead are areas with thicker drifting floes of varying concentration. At sea, there is mostly 20–60 cm thick, very close, ridged and rafted ice. Around 64°50'N 22°30'E, there is an area with 50–70 cm thick and ridged very close ice. The ice field is difficult to force in places. In the

#### Herstellung und Vertrieb

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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 20–60 cm thick, very close ice partly ridged and rafted but also

### Norra Kvarken

In the archipelagos off Vaasa, there is 30–60 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 close, 20–60 cm thick ice north and east of Holmöarna and open ice further east to the Finnish coast. South of about

### 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 sheltered bays along the western coast, there is 10–35 cm thick fast ice and rotten ice in the south. Along the eastern coast,

### Archipelago and Åland Sea

Rotten ice, up to 30 cm thick, is present in the inner archipelagos and sheltered bays of both coasts. At the eastern coast, there is mostly open

### Gulf of Finland

From St. Petersburg up to the dike, there is 25–35 cm thick fast ice but very open drift ice is present in the southern part. In the Bay of Vyborg and the Bjerkesund, there is mostly 15–35 cm thick compact or fast ice and very close ice somewhat further out. At sea east of Seskar and north of 60°00'N, there is 15–30 cm thick, very close and partly ridged ice. Along the southern coast, there is very open ice to St. Petersburg. Further west to

### Gulf of Riga

In Moonsund it is mostly ice free. In Pärnu Bay, there is a few kilometre wide belt of rotten fast ice along the northern coast and else open water or

### Northern Baltic

In Lake Mälaren, there is mostly open water or it is ice free. Along the Swedish coast, there is partly broken and rotten thin ice at places in the Stock-

### Swedish Lakes

Lake Vänern is mostly ice free.

Dr. W. Aldenhoff

cracks and leads occur. In the southeastern part, there is mostly open ice.

Some new ice formation is possible the coming day and the ice will drift slightly to the east/northeast.

63°30' there is open water with stripes and patches at places. South of Nordvalen it is mostly ice free in the west and open water along the eastern fast ice. No larger changes are expected the coming day with a weak easterly ice drift.

there is 20–45 cm fast ice in the inner archipelagos and rotten fast ice in the south. Further out, there is open water in places.

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

water on the fairways and in the outer archipelagos.

Continued ice melt is expected the coming days.

28°00'E is open water. In the archipelagos of the northern coast, there is 10–40 cm thick partly rotting fast ice in the west and 25–60 cm thick fast ice in the east. Further out in the east, there is ice of varying concentration or open water.

Ice melt is expected in the west and in the east some ice melt is expected the coming day. Ice drift will be slightly to the east.

ice free.

With temperatures above the freezing point, ice melt will continue.

holm archipelago.

The ice will gradually disappear.

### 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	I	31.03.
	Hamina	2000 dwt	II	29.03.
<b>Russia</b>	Vyborg	-	Ice 1	30.12.
	Vysotsk	-	Ice 1	01.04.
	Primorsk	-	Ice 1	06.04.
	Ust-Luga	-	Ice 1	04.01.
	St. Petersburg	-	required	31.12.
<b>Sweden</b>	Karlsborg	4000 dwt	IA	12.04.
	Luleå	4000 dwt	IA	19.02.
	Haraholmen and Skelleftehamn	4000 dwt	IA	19.02.
	Holmsund, Rundvik and Husum	2000 dwt	II	07.04.
	Örnsköldsvik	2000 dwt	II	30.03.
	Ångermanälven	2000 dwt	IB	06.01.
	Härnösand	2000 dwt	II	22.12.

### 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, URHO, POLARIS, SISU, ODEN, FREJ, ALE and YMER assist in the Bay of Bothnia. ZEUS assist in the Quark and in the Sea of Bothnia.

#### Norway

Hellefjorden (Kragerø): Navigation temporarily closed. (30.03.22)

#### 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, 12.04.2022**

Paernu, port and bay 7293

**Finland, 11.04.2022**

Röyttä – Etukari 8646

Etukari – Ristinmatala 8546

Ajos – Ristinmatala 8546

Ristinmatala – Kemi 2 6476

Kemi 2 – Kemi 1 9226

Sea area SW of Kemi 1 2216

Kemi 2 – Ulkokrunni – Virpiniemi 8546

Oulu harbours – Kattilankalla 8546

Kattilankalla – Oulu 1 6476

Sea area SW of Oulu 1 9476

High Sea N of the latitude of Marjaniemi 9476

Raahe harbour – Heikinkari 8546

Heikinkari – Raahe lighthouse 9216

Raahe lighthouse – Nahkiainen 3726

Latitude Marjaniemi – Ulkokalla, Sea 5476

Rahja harbour – Välimatala 6366

Vaelimatala to line Ulkokalla – Ykskivi 9116

Sea betw. lat. of Ulkokalla – Pietarsaari 5476

Ykspihlaja – Repskär 8846

Repskär – Kokkola lighthouse 9716

Sea area off Kokkola lighthouse 9426

Pietarsaari – Kallan 7856

Sea area off Kallan 9716

Sea lat. Pietarsaari – NE Nordvalen 3826

Sea area ENE of Nordvalen 1326

Vaskiluoto – Ensten 7446

Ensten – Vaasa lighthouse 1326

Vaasa lighthouse – Norrskär 1326

Uusikaupunki harbour – Kirsta 1100

Naantali and Turku – Rajakari 1190

Rajakari – Lövskär 1190

Inkoo a. Kantvik – sea area Porkkala 7291

Valko Harbour – Täktarn 5742

Hamina – Suurmusta 7145

Suurmusta – Merikari 1015

Merikari – Kaunissaari 0//5

**Russian Federation, 12.04.2022**

Port of St. Petersburg 54/3

St. Petersburg – E-point island Kotlin 54/3

E-point Kotlin – long. lighth. Tolbuhkin 53/3

Lighth. Tolbuhkin – lighth. – Šepelevskij 53/2

Lighthouse Šepelevskij – island Sescar 53/2

Vyborg, port and bay 84/3

Island Vichrevoj – Island Sommers 53/2

Strait Bjerkesund 63/2

E-point Bol'šoj Ber'ozovyj – Šepelevskij 52/2

**Sweden, 12.04.2022**

Karlsborg – Malören 6476

Sea area off Malören 5576

Luleå – Björnklack 6476

Björnlack – Farstugrunden	6476
E and SE of Farstugrunden	2526
Sandgrönn fairway	6476
Rödkaullen – Norströmsgrund	5556
Haraholmen – Nygrån	6456
Sea area off Nygrån	6456
Skelleftehamn – Gåsören	6456
Sea area off Gåsören	6456
Sea area off Bjuröklubb	5556
NE of Nordvalen	1506
Western Quark (W of Holmöarna)	5556
Örnsköldsvik – Hörnskatan	2326
Hörnskatan – Skagsudde	2326
Ångermanälven north Sandö Bridge	5434
Ångermanälven south Sandö Bridge	1404
Hudiksvallfjärden	8492
Hallstavik – Svartklubben	3392
Köping – Kvicksund	1000
Västerås – Grönsö	1000
Stockholm – Södertälje	1000