



# Eisbericht Nr. 11

## Amtsblatt des BSH

Jahrgang 96

Nr. 11

Monday, 12.12.2022

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### Übersicht

In den Schären der Bottenwiek befindet sich bis 20cm dickes Festeis und weiter außerhalb kommt Neueis vor. In Norra Kvarken, der Bottensee, dem Schärenmeer und dem Mälarsee kommt in geschützten Gebieten Neueis und dünnes Eis vor. Im Finnischen Meerbusen kommt in den östlichsten Buchten bis 15cm dickes Festeis, außerhalb davon und in geschützten Buchten entlang der Küsten kommt Neueis vor. Im Nordosten des Rigaischen Meerbusen befindet sich dünnes ebenes Eis oder Neueis entlang der Küsten und der Bucht von Pärnu. Weiter südlich, bis hin zur westlichen Ostsee, kommt örtlich Neueis vor.

### Overview

In the archipelagos of the Bay of Bothnia there is up to 20cm thick fast ice and new ice is present further out. In the Quark, the Sea of Bothnia, the Archipelago Sea and Lake Mälaren, there is thin and new ice in sheltered bays. In the Gulf of Finland, there is up to 15cm thick fast ice in the easternmost bays. Outside the fast ice and in sheltered places along the coasts there is new ice. In the northeastern Gulf of Riga thin level ice or new ice is present along the coasts and in the Bay of Pärnu. Further south, all the way to the western Baltic, there is new ice and new ice formation in some sheltered areas.

### Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 5–20 cm thick fast or level ice and new ice further out. There is 5–15 cm thick level ice between Hailuoto and Oulu. New ice is present in places at or near the shores of the southern bay.

During the next days, temperatures around -20°C at the northern coasts around -10°C in the south will lead to further ice grow and formation. The ice will drift mostly southwestwards.

### The Quark

There is thin level ice and new ice in the inner bays and archipelagos.

Further ice formation and ice growth will take place during the next days.

### Sea of Bothnia

New ice is present in places in the inner archipelagos along the Finnish coast. On the upper part of Ångermanälven, there is 3–10 cm thick level ice

and new ice is present in the lower part. Further falling temperatures will lead to new ice formation and ice growth during the next days.

### Archipelago Sea

New ice is present in sheltered inner bays. New ice

formation is expected during the next days.

### 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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**Northern Baltic**

In Lake Mälaren 3.8cm thick level ice is present in the western part and else new ice sheltered

places.

New ice formation is expected.

**Gulf of Finland**

5–10 cm thick level ice is present east of the island Kotlin and further out to the longitude of Krasnaja Gorka there is grease ice and new ice. In the top of Vyborg Bay, there is 10–15 cm thick fast ice and in the entrance there is open new ice. In places along

the northern coast and in sheltered places along the southern coast, there is new ice. On Lake Saimaa, there is 5–15 cm thick ice as well as new ice in places.

New ice formation and ice growth is expected.

**Gulf of Riga**

There is thin level ice along the coast and in sheltered bays of Väinameri. On the fairway new ice. In the Bay of Pärnu, there is 4–10 cm thick level ice along the coast and further out very close and light nilas to the line from the northern point of island Manija to Voiste.

Until tomorrow midday northeastern winds will keep/bring temperatures around -5°C, later more westerly winds will lead to a temperature increase, but even then continuous frost is expected the next days, so further new ice formation will take place.

**Central Baltic**

New ice and new ice formation in some sheltered

areas. Ice formation expected the next days.

**Southeastern Baltic**

New ice and new ice formation in some sheltered

areas. Ice formation expected the next days.

**Skagerrak and Kattegat**

New ice and new ice formation in some sheltered areas. Thicker, up to 10cm thick ice is present in

some Norwegian fjords near Halden, Moss and Tønsberg. Ice formation expected the next days.

**Swedish Lakes**

New ice and new ice formation in some sheltered

areas. Ice formation expected the next days.

Dr. J.Holfort

**Restrictions to Navigation**

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
<b>Finland</b>	Tornio and Kemi	2000 dwt	II	01.12.
	Oulu	2000 dwt	II	12.12.
	Lake Saimaa	2000 dwt	II	12.12.
<b>Sweden</b>	Karlsborg and Lulea	2000 dwt	II	05.12.
	Haraholmen and Skelleftehamn	2000 dwt	II	12.12.
	Angermanälven	1300/2000 dwt	IC/II	14.12.

**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 82. 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:**

Tugboats assist in the Bay of Bothnia. **OTSO** is heading to Bay of Bothnia.

**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 , 12.12.2022**

Paernu, port and bay 5111  
 Moonsund 4001

**Finland , 12.12.2022**

Röyttä – Etukari 5745  
 Etukari – Ristinmatala 5245  
 Ajos – Ristinmatala 5145  
 Ristinmatala – Kemi 2 4045  
 Kemi 2 – Ulkokrunni – Virpiniemi 5145  
 Oulu harbours – Kattilankalla 5145  
 Kattilankalla – Oulu 1 4045  
 Raahe harbour – Heikinkari 4042  
 Heikinkari – Raahe lighthouse 3001  
 Raahe lighthouse – Nahkiainen 4042  
 Rahja harbour – Välimatala 3001  
 Vaskiluoto – Ensten 5142  
 Pori harb. to line Pori lighth. – Säppi 4042

Rauma, Harbour – Kylmäpihlaja 3000  
 Kotka – Viikari 3002

**Germany , 12.12.2022**

Rostock – Warnemünde 2000

**Norway , 10.12.2022**

Mossesund 4112

**Russian Federation , 12.12.2022**

Port of St. Petersburg 51/2  
 St. Petersburg – E-point island Kotlin 51/2  
 E-point Kotlin – long. lighth. Tolbuhkin 3001  
 Lighth. Tolbuhkin – lighth. –Šepelevskij 20/0  
 Vyborg, port and bay 81/2  
 Island Vichrevoj – Island Sommers 2000

**Sweden , 12.12.2022**

Karlsborg – Malören	5246
Luleå – Björnklack	5246
Sandgrönn fairway	4046
Umeå – Väktaren	4041
Örnsköldsvik – Hörnskatan	4041
Ångermanälven north Sandö Bridge	5142
Ångermanälven south Sandö Bridge	5142
Iggesund – Agö	4041
Gävle – Eggegrund	5041
Köping – Kvicksund	5142
Västerås – Grönsö	5142
Norrköping – Hargökalv	5041
Fairway to Gruvön	4041
Fairway to Kristinehamn	4041