

# Eisbericht Nr. 55

## Amtsblatt des BSH

Jahrgang 96

Nr. 55

Monday, 13.02.2023

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### Übersicht

In den Schären der Bottenwiek befindet sich im Norden bis 55 cm dickes Festeis und im Süden bis 25 cm dickes Festeis. Auf das Festeis folgt im Nordosten sehr dichtes bis 40 cm dickes und örtlich aufgedrückt Eis mit festgestampften Eis an der Kante. Weiter außerhalb treibt im Westen sehr lockeres bis lockeres, bis 15 cm dickes Eis. In Norra Kvarken liegt bis 35 cm dickes Festeis in den Schären und Buchten und auf See treibt im Norden sehr lockeres, dünnes Eis. In der Bottensee und dem Schärenmeer kommt dünnes, ebenes Eis oder Festeis entlang der Küsten vor. Im Mälarsee liegt dünnes, ebenes Eis oder Neueis. Im Finnischen Meerbusen liegt in den östlichsten Buchten bis 40 cm dickes Festeis und dichtes bis sehr dichtes Eis auf See im Osten. In den Schären und Buchten entlang der nördlichen Küste kommt Festeis vor. Im Nordosten des Rigaischen Meerbusen befindet sich 10–20 cm dickes Festeis oder sehr dichtes Eis und Neueis in geschützten Gebieten.

### Overview

In the archipelagos of the Bay of Bothnia, there is up to 55 cm thick fast ice in the north and up to 25 cm thick fast ice in the south. In the northeast follows very close, up to 40 cm thick and partly ridged ice with a brash ice barrier at the ice edge. Further out in the west is up to 15 cm thick, very open to open drift ice. In the Quark, there is up to 35 cm thick fast ice in the archipelagos and bays and thin very open ice at sea in the north. In the Sea of Bothnia and the Archipelago Sea, fast ice or thin level ice is present along the coasts. In Lake Mälaren, there is thin level ice and new ice. In the Gulf of Finland, up to 40 cm thick fast ice is present in the easternmost bays and close to very close ice at sea in the east. In the archipelagos and bays along the northern coast, there is fast ice. In the northeastern Gulf of Riga, there is 10–20 cm thick fast ice or very close ice in sheltered bays.

### Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 25–55 cm thick fast ice and compact, up to 45 cm thick ice towards Malören and off the eastern fast ice. Further out in the northeast, there is 20–40 cm thick very close, ridged ice to about Kemi-1 – Oulun portti – Raahe lighthouse. There is a brash ice barrier at the ice edge, difficult to force at places. Further out, there is 5–25 cm thick, very close and partly ridged ice. Off the western fast ice,

there is very open ice to Norströmsgrund and open, 5–15 cm thick drift ice from south of Kemi-1 to Falkensgrund. In the southern Bay of Bothnia, there is 5–25 cm thick fast ice in the archipelagos and farther out in the east, there is a band of very close ice. In the west, there is very open drift ice off the coast.

Some new ice formation is possible the coming day. The ice will first drift to the southeast. The ice

#### Herstellung und Vertrieb

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drift will cease during night and there will be varia-

### The Quark

There is 10–35 cm thick fast ice in the Vaasa archipelago out to Storhåsten. Further out to Norra Glopsten, there is very close, 5–20 cm thick ice. On the Swedish side, there is mostly fast ice up to 35 cm thick in inner bays. Further out in the west is

### Sea of Bothnia

In the archipelagos along the eastern coast, there is 10–20 cm thick fast ice. Along the western coast, there is thin level ice or new ice in sheltered bays in the south and up to 40 cm thick fast ice in inner bays in the north. Further out, there is open

### Archipelago Sea and Åland Sea

At the eastern coast, there is 5–15 cm fast or level ice in the inner bays. In the western and central

### Northern Baltic

In Lake Mälaren, there is 5–15 cm thick fast ice or thin level ice in the western part, with some areas of partly open water. In the eastern part, there is thin ice in sheltered bays. New ice occurs in shel-

### Gulf of Finland

From St. Petersburg out to Kotlin and in the bay north of Kotlin, there is 20–40 cm thick fast ice or compact ice. In the Bay of Vyborg, there is 15–30 cm thick fast ice. In the Bjerkesund, there is 10–25 cm thick fast ice. Further west, there is very close and partly rafted, 10–20 cm thick ice to lighthouse Šepelevskij and along the coast to the Bay of Vyborg. Further west there is very open drift ice

### Gulf of Riga

In Väinameri, there is 10–20 cm thick very close ice or fast ice near the coasts. On the fairway is very open ice or open water. In the Bay of Pärnu, there is 10–20 cm thick fast ice along the coast. Further out to the line Lindi – Voiste, there is very

### Skagerrak and Kattegat

Up to 15 cm thick ice or new ice is present in some inner Norwegian Fjords. At a few places thicker ice occurs.

### Swedish Lakes

Thin level ice or new ice is present in some sheltered bays of Lake Vänern.

ble wind directions.

open water and very open drift ice in the east. At sea, there is very open drift ice.

No large changes are expected the coming day. The ice will drift to the east/southeast.

water in the north. On Ångermanälven, there is 20–40 cm thick fast or level ice.

Some ice melt is possible the coming day along the western coast but else no larger changes are expected.

part new ice is present along the coasts.

Some ice melt is possible the coming day.

tered places along the outer coast.

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

stretching to Moščnyj and Seskar and Narva Bay. Along the northern coast, there is 10–25 cm thick fast ice in the eastern archipelagos. Further out, there is open water or very open ice. In the western archipelagos, there is 5–15 cm thick fast ice.

The ice will drift to the southeast/south and some ice formation is possible in the eastern part.

close ice followed by very open drift ice to the line Liu – Pikla Nina. In the western part is open water to Valgeranna.

Some ice melt is possible the coming day and the ice will drift to the southeast.

Some ice melt is expected the coming day.

Some ice melt is possible but else no larger changes are expected.

## Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
<b>Estonia</b>	Pärnu	1600 kW	1 C	23.12.
<b>Finland</b>	Tornio, Kemi and Oulu	2000 dwt	IA	01.02.
	Raahe, Kalajoki, Kokkola, Pietarsaari and Vaasa	2000 dwt	I	07.01.
	Kaskinen, Inkoo, Kantvik, Helsinki, Sköldvik and Mussalo	2000 dwt	II	07.01.
	Loviisa, Kotka and Hamina	2000 dwt	II	24.12.
<b>Russia</b>	Vyborg and Vysotsk	-	Ice 1	08.02.
<b>Sweden</b>	Karlsborg and Lulea	2000 dwt	IB	08.01.
	Haraholmen and Skelleftehamn	2000 dwt	IC	25.12.
	Holmsund	2000 dwt	IC	07.02.
	Rundvik and Husum	2000 dwt	II	21.12.
	<b>Örnsköldsvik</b>	<b>2000 dwt</b>	<b>IC</b>	<b>13.02.</b>
	Angermanälven	2000 dwt	IB	07.01.
	<b>Söraker, Sundsvall and Söderhamn</b>	<b>2000 dwt</b>	<b>IC</b>	<b>13.02.</b>
	Köping and Västerås	1300/2000 dwt	IC/II	25.01.
	Balsta	1300/2000 dwt	IC/II	22.12.

**Estonia****Icebreakers:**

EVA-316 assists in the port of Pärnu.

**Finland/Sweden**

The Saimaa Canal is closed for traffic since 4<sup>th</sup> January.

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.

The traffic separation schemes in the Quark are temporarily out of use from 7 February due to ice conditions.

**Icebreakers:**

KONTIO, OTSO, SISU, ATLE and FREJ assist in the Bay of Bothnia. ZEUS assists in the Quark and the Sea of Bothnia. ALE assists in the Quark. CALYPSO assists in the region of Kotka and Hamina.

**Russia**

There are restrictions for small crafts going to Vysotsk, Vyborg, St. Petersburg, Ust-Luga and Primorsk. No sailing of barge by tug to Vyborg and Vysotsk.

**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, 13.02.2023**

Paernu, port and bay	43/5
Moonsund	2000

**Finland, 13.02.2023**

Röyttä – Etukari	8446
Etukari – Ristinmatala	6456
Ajos – Ristinmatala	6456
Ristinmatala – Kemi 2	5876
Kemi 2 – Kemi 1	5876
Sea area SW of Kemi 1	5766
Kemi 2 – Ulkokrunni – Virpiniemi	6456
Oulu harbours – Kattilankalla	6456
Kattilankalla – Oulu 1	6456
Sea area SW of Oulu 1	5856
High Sea N of the latitude of Marjaniemi	5756
Raahe harbour – Heikinkari	8346
Heikinkari – Raahe lighthouse	7856
Raahe lighthouse – Nahkiainen	0//6
Latitude Marjaniemi – Ulkokalla, Sea	3136
Rahja harbour – Välimatala	8746
Vaelimatala to line Ulkokalla – Ykskivi	0//6
Sea betw. lat. of Ulkokalla –Pietarsaari	5756
Ykspihlaja – Repskär	5146
Repskär – Kokkola lighthouse	0//6
Sea area off Kokkola lighthouse	0//6
Pietarsaari – Kallan	5756
Sea area off Kallan	5756
Sea lat. Pietarsaari – NE Nordvalen	2026

Sea area ENE of Nordvalen	2026
Sea area Nordvalen to W of Norrskär	2026
Vaskiluoto – Ensten	7756
Ensten – Vaasa lighthouse	5756
Vaasa lighthouse – Norrskär	2026
Uusikaupunki harbour – Kirsta	8142
Inkoo a. Kantvik – sea area Porkkala	8145
Helsinki harbours – Harmaja	0//5
Valko Harbour – Täktarn	8745
Archipelago fairway Boistö – Glosholm	1105
Kotka – Viikari	8345
Viikari – Orregrund	1105
Orregrund – Tiiskeri	1105
Hamina – Suurmusta	8345
Suurmusta – Merikari	5045
Merikari – Kaunissaari	1105

**Russian Federation, 13.02.2023**

Port of St. Petersburg	84/3
St. Petersburg – E-point island Kotlin	54/3
E-point Kotlin – long. lighth. Tolbuhkin	4303
Lighth. Tolbuhkin – lighth. –Šepelevskij	42/2
Lighthouse Šepelevskij – island Sescar	23/2
Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	42/3
Strait Bjerkesund	83/3
E-point Bol'šoj Ber'ozovyj – Šepelevskij	42/2
Luga bay	22/2

**Sweden, 13.02.2023**

Karlsborg – Malören	6456
Sea area off Malören	5356
Luleå – Björnklack	8546
Björnklack – Farstugrunden	2026
E and SE of Farstugrunden	2026
Sandgrönn fairway	5356
Rödkaullen – Norströmsgrund	2026
Haraholmen – Nygrån	5136
Sea area off Nygrån	2026
Skelleftehamn – Gåsören	5236
Sea area off Gåsören	2026
Sea area off Bjuröklubb	2026
NE of Nordvalen	2026
SW of Nordvalen	2026
Western Quark (W of Holmöarna)	1106
Umeå – Väktaren	5146
SE of Väktaren	1106
Fairway to Husum	1106
Örnsköldsvik – Hörnskatan	8446
Hörnskatan – Skagsudde	5146
Sea area off Skagsudde	1106
Fairway W of Ulvöarna	1006
Ångermanälven north Sandö Bridge	8444
Ångermanälven south Sandö Bridge	8444
Härnösand – Härnön	1004
Sundsvall – Draghallan	1006
Draghallan – Åstholmsudde	1006
Off Åstholmsudde and Brämön	1006
Hudiksvallfjärden	5242
Iggesund – Agö	5242
Sandarne – Hällgrund	8346
Ljusnefjärden – Storjungfrun	8346
Gävle – Eggegrund	5142
Hallstavik – Svartklubben	5142
Köping – Kvicksund	8244
Västerås – Grönsö	8244
Södertälje – Fifong	4044
Fairway to Karlstad	5142
Fairway to Kristinehamn	5142