



# Eisbericht Nr. 43

## Amtsblatt des BSH

Jahrgang 96

Nr. 43

Thursday, 26.01.2023

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### Übersicht

In den Schären der Bottenwiek befindet sich bis 45 cm dickes Festeis. Weiter außerhalb treibt im Norden 10–30 cm dickes, sehr dichtes Eis mit festgestampften Eis entlang der Eiskante. In der südlichen Bottenwiek befindet sich in den Buchten dünnes ebenes Eis oder Festeis. In Norra Kvarken liegt bei Vaasa bis 25 cm dickes Festeis. Ansonsten kommt an den Küsten dünnes ebenes Eis vor. 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 sehr dichtes Eis weiter außerhalb. In den Schären und Buchten entlang der Küsten kommt im Norden Festeis vor. Im Nordosten des Rigaischen Meerbusen befindet sich 10–25 cm dickes Festeis oder sehr dichtes Eis in geschützten Buchten und etwas weiter sehr lockeres Treibeis.

### Overview

In the archipelagos of the Bay of Bothnia, there is up to 55 cm thick fast ice. Further out in the north, there is 10–30 cm thick, very close ice with a brash ice barrier along the ice edge. In the southern Bay of Bothnia, there is thin level ice or fast ice in the inner bays. In the Quark, there is up to 25 cm thick fast ice near Vaasa and else thin level ice along the coasts. In the Sea of Bothnia and the Archipelago Sea, there is fast ice or thin level ice along the coasts. In Lake Mälaren, there is thin level ice and new ice. In the Gulf of Finland, there is up to 40 cm thick fast ice in the easternmost bays and very close ice somewhat further out. In the archipelagos and bays along the coasts, there is fast ice in the north. In the northeastern Gulf of Riga, there is 10–25 cm thick fast ice or very close ice in sheltered bays and very open ice further out.

### Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 25–55 cm thick fast ice. Further out, there is a region of 15–35 cm thick, close to very close ice to about the line Nygrån – Farstugrunden – Kemi-1 – Oulu 5. In the north, the ice is partly rafted or ridged and a jammed brash ice barrier or very close shuga is present along the entire ice edge. Parts of this ice field has started to drift southwards and a lead has formed along the frac-

ture. In the west, there is 2-10 cm thick very open drift ice south of Nygrån. In the southern Bay of Bothnia, there is 5–20 cm thick level or fast ice in the archipelagos. Further out, there is thin drifting ice in places.

Ice formation is expected the coming day and the ice will drift to the southeast and later more towards the east.

#### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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

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#### Eisankünfte / Ice Information

Telefon: +49 (0) 381 4563 -780

Telefax: +49 (0) 381 4563 -949

E-Mail: [ice@bsh.de](mailto:ice@bsh.de)

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### The Quark

There is 10–25 cm thick fast ice in the Vaasa archipelago out to Storhästen. Further out, there is open water. On the Swedish side, there is mostly fast ice in inner bays along the coast and close ice

further out. West of Holmöarna, there is very open to close drift ice.

Some ice formation and growth is expected the coming day and the ice will drift to the southeast.

### Sea of Bothnia

In the archipelagos along the eastern coast, there is 5–20 cm thick fast ice and in places shuga. Along the western coast, there is thin level ice or new ice in sheltered bays in the south and fast ice

in inner bays in the north. Further out in the north, there is open water. On Ångermanälven, there is 10–20 cm thick fast or level ice.

No larger change is expected.

### Archipelago Sea and Åland Sea

At the eastern coast, there is 3–10 cm fast or level ice in the inner bays and new ice somewhat further

ice. In the western part new ice along the coast.

No larger change is expected the coming day.

### Northern Baltic

In Lake Mälaren, 3–10 cm thick level ice is present in the western part and mostly open water in the eastern part. New ice occurs in sheltered places

and along the coast.

No larger changes are expected the coming day.

### Gulf of Finland

From St. Petersburg out to Kotlin there is 20–40 cm thick fast ice, with 10–25 cm thick, very close ice on the fairway. In the bay north of Kotlin, there is 20–30 cm thick fast ice at the coast and 10–20 cm thick very close ice outside. Further out to the lighthouse Šepelevskij, 5–15 cm thick very open ice. In the Bay of Vyborg, there is 15–25 cm thick fast ice. Further out, there is 5–15 cm thick, close

ice to about the line Kotka – Kotlin. In the Bjerkesund, there is 10–20 cm thick fast ice with 5–15 cm thick, very close ice at the entrance. Along the northern coast, there is 5–20 cm thick fast ice in the eastern archipelagos with shuga in places at the edge. In the western archipelagos thin ice.

Some ice formation may occur the coming day and the ice will drift southwards.

### Gulf of Riga

In Väinameri, there is 10–25 cm thick fast ice in sheltered bays and open water or very open drift ice on the fairways. In the Bay of Pärnu, there is 10–20 cm thick fast ice and further out Haademes-

te in the east, there is 10–20 cm thick, close and very close ice. In the western part is very open ice.

No larger changes are expected the coming day and the ice will drift to the south.

### Southeastern Baltic

In the Curonian Lagoon, there is thin ice at a few places.

No major change is expected.

### Skagerrak and Kattegat

Up to 10 cm thick ice or new ice is present in some Norwegian Fjords.

Some ice melt may occur.

### Swedish Lakes

Thin level ice is present in few sheltered bays in the north of Lake Vänern.

No major change is 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	IB	07.01.
	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>Sweden</b>	Karlsborg and Lulea	2000 dwt	IB	08.01.
	Haraholmen and Skelleftehamn	2000 dwt	IC	25.12.
	Holmsund, Rundvik, Husum and Örnköldvik	2000 dwt	II	21.12.
	Angermanälven	2000 dwt	IB	07.01.
	<b>Köping and Västerås</b>	<b>1300/2000 dwt</b>	<b>IC/II</b>	<b>25.01.</b>
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.

**Icebreakers:**

KONTIO, OTSO, YMÉR 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.

**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, 26.01.2023**

Paernu, port and bay	7385
Moonsund	1//0

**Finland, 26.01.2023**

Röyttä – Etukari	8446
Etukari – Ristinmatala	7356
Ajos – Ristinmatala	7356
Ristinmatala – Kemi 2	5356
Kemi 2 – Kemi 1	5356
Sea area SW of Kemi 1	5366
Kemi 2 – Ulkokrunni – Virpiniemi	7356
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	7366
Sea area SW of Oulu 1	1106
High Sea N of the latitude of Marjaniemi	5356
Raahe harbour – Heikinkari	5146
Heikinkari – Raahe lighthouse	1106
Raahe lighthouse – Nahkiainen	1106
Rahja harbour – Välimatala	5146
Vaelimatala to line Ulkokalla – Ykskivi	1106
Sea betw. lat. of Ulkokalla – Pietarsaari	2126
Ykspihlaja – Repskär	5146
Repskär – Kokkola lighthouse	1106
Sea area off Kokkola lighthouse	1106
Pietarsaari – Kallan	5146
Sea area off Kallan	1106
Sea lat. Pietarsaari – NE Nordvalen	1106
Sea area ENE of Nordvalen	2126

Sea area Nordvalen to W of Norrskär	1106
Vaskiluoto – Ensten	8746
Ensten – Vaasa lighthouse	1106
Vaasa lighthouse – Norrskär	1106
Kaskinen – Sälgrund	5745
Pori harb. to line Pori lighth. – Säppi	4041
Uusikaupunki harbour – Kirsta	8142
Naantali and Turku – Rajakari	4041
Inkoo a. Kantvik – sea area Porkkala	8145
Helsinki harbours – Harmaja	3015
Vuosaari harbour – Eestiluoto	0//5
Porvoo harbours – Varlax	5045
Valko Harbour – Täktarn	8745
Archipelago fairway Boistö – Glosholm	0//5
Archipelago fairway Glosholm–Helsinki	0//5
Kotka – Viikari	8745
Viikari – Orregrund	5045
Orregrund – Tiiskeri	0//5
Hamina – Suurmusta	8745
Suurmusta – Merikari	8745
Merikari – Kaunissaari	0//5

**Latvia, 26.01.2023**

Port of Riga	1000
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**Russian Federation, 26.01.2023**

Port of St. Petersburg	83/3
St. Petersburg – E-point island Kotlin	53/2
E-point Kotlin – long. lighth. Tolbuhkin	3202

Lighth. Tolbukhin – lighth. –Šepelevskij	2201
Lighthouse Šepelevskij – island Sescar	11/1
Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	42/2
Strait Bjerkesund	82/2
E-point Bol'šoj Ber'ozovyj – Šepelevskij	51/2

**Sweden, 26.01.2023**

Karlsborg – Malören	8446
Sea area off Malören	5356
Luleå – Björnklack	8446
Björnklack – Farstugrunden	3326
E and SE of Farstugrunden	3326
Sandgrönn fairway	5366
Rödkaullen – Norströmsgrund	4356
Haraholmen – Nygrån	8346
Sea area off Nygrån	2126
Skelleftehamn – Gåsören	5236
Sea area off Gåsören	2126
Sea area off Bjuröklubb	2126
Western Quark (W of Holmöarna)	4136
Umeå – Väktaren	8346
SE of Väktaren	1106
Fairway to Husum	1106
Örnsköldsvik – Hörnskatan	8246
Hörnskatan – Skagsudde	1106
Sea area off Skagsudde	1106
Fairway W of Ulvöarna	1106
Sea area E of Ulvöarna	1106
Ångermanälven north Sandö Bridge	8344
Ångermanälven south Sandö Bridge	8344
Härnösand – Härnön	1104
Sea area off Härnö	1104
Sundsvall – Draghallan	8242
Draghallan – Åstholmsudde	1101
Off Åstholmsudde and Brämön	1101
Hudiksvallfjärden	5242
Iggesund – Agö	5242
Sandarne – Hällgrund	5142
Ljusnefjärden – Störjungfrun	5142
Gävle – Eggegrund	5142
Öregrundsgrepen	4041
Hallstavik – Svartklubben	5142
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Grönsö – Södertälje	1004
Stockholm – Södertälje	1004
Fairway to Karlstad	5142