

Eisbericht Nr. 44

Amtsblatt des BSH

Jahrgang 96

Nr. 44

Friday, 27.01.2023

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Übersicht

In den Schären der Bottenwiek befindet sich bis 55 cm dickes Festeis. Weiter außerhalb treibt im Norden 10–35 cm dickes, sehr dichtes Treibeis. 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 außerhalb 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 10–35 cm thick, very close ice drifting ice. 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. In the north followed by 15–35 cm thick, very close ice to about Malören. Further out in the west, there is a 9 NM wide lead with new ice followed by close to very close, 10–30 cm thick drift ice to about a line Simpggrund – Kemi-1. East of Malören is a 4 NM

wide lead followed by very close, 10–35 cm partly rafted ice to about Oulu-1. 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 or new ice.

Some ice growth is expected over the weekend and the ice will drift to the northeast/east.

The Quark

There is 10–25 cm thick fast ice in the Vaasa ar-

chipelago out to Storhåsten. Further out, there is

Herstellung und Vertrieb

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thin close ice and new ice to Vaasa lighthouse. On the Swedish side, there is mostly fast ice in inner bays along the coast and very open to close, 5–10 cm thick ice further out to about Nordvalen and

Sea of Bothnia

In the archipelagos along the eastern coast, there is 5–20 cm thick fast ice. 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

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

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

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. In the Bay of Vyborg, there is 15–25 cm thick fast ice. Further out, there is 5–20 cm thick, very close and partly rafted ice to about the line Kotka – Kotlin. In the Bjerkesund, there is 10–20 cm thick fast ice with 5–15 cm thick,

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 to Haa-

Southeastern Baltic

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

Skagerrak and Kattegat

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

Swedish Lakes

Thin level ice or new ice is present in few sheltered bays in the north and east of Lake Vänern.

Sydostbrotten.

Some ice formation may occur at the start of the weekend. The ice will drift to the northeast/east.

Ångermanälven, there is 10–20 cm thick fast or level ice.

No larger change is expected over the weekend and the ice will drift to the northeast.

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

No larger change is expected over the weekend.

and along the coast.

No larger changes are expected over the weekend.

very close ice at the entrance. Along the northern coast, there is 5–20 cm thick fast ice in the eastern archipelagos. Further out, there is thin drifting ice of varying concentration and new ice. In the western archipelagos is thin ice.

Some ice formation may occur over the weekend and the ice will to the northeast.

demeste, there is 10–20 cm thick, very close or very open ice.

No larger changes are expected over the weekend and the ice will drift to the northeast

No major change is expected.

No major changes are expected.

No major change is expected.

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1600 kW	1 C	23.12.
Finland	Tornio, Kemi and Oulu	2000 dwt	IB	07.01.
	Tornio, Kemi and Oulu	2000 dwt	IA	27.01.
	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.
Sweden	Karlsborg and Lulea	2000 dwt	IB	08.01.
	Haraholmen and Skelleftehamn	2000 dwt	IC	25.12.
	Holmsund, Rundvik, Husum and Örnsköldvik	2000 dwt	II	21.12.
	Angermanälven	2000 dwt	IB	07.01.
	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 4th 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, YMER 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>A_B Amount and arrangements of sea ice</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>T_B Topography or form of ice</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>S_B Stage of ice development</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>K_B Navigation conditions in ice</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, 27.01.2023

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, 27.01.2023

Port of Riga	1000
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Norway, 27.01.2023

Svinesund – Halden	31//
Drammensfjord	5114
Tønsberg, inner harbour	8101

Skåtøysund (Kragerø)	8144
Langårsund (Kragerø)	8244

Russian Federation, 27.01.2023

Port of St. Petersburg	83/3
St. Petersburg – E-point island Kotlin	53/2
E-point Kotlin – long. lighth. Tolbuhkin	3202
Lighth. Tolbuhkin – lighth. – Šepelevskij	2201
Lighthouse Šepelevskij – island Sescar	21/1
Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	42/2
Strait Bjerkesund	82/2
E-point Bol'šoj Ber'ozovjy – Šepelevskij	51/2

Sweden, 27.01.2023

Karlsborg – Malören	8446
Sea area off Malören	5356
Luleå – Björnklack	8446
Björnklack – Farstugrunden	4046
E and SE of Farstugrunden	4356
Sandgrönn fairway	5366
Rödkaullen – Norströmsgrund	4356
Haraholmen – Nygrån	8346
Sea area off Nygrån	2326
Skelleftehamn – Gåsören	5236
Sea area off Gåsören	2326
Sea area off Bjuröklubb	2326
NE of Nordvalen	4136
SW of Nordvalen	4136
Western Quark (W of Holmöarna)	4136
Umeå – Väktaren	2126
SE of Väktaren	2126
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 Härnön	1104
Sundsvall – Draghällan	8242
Draghällan – Åstholmsudde	1101
Off Åstholmsudde and Brämön	1101
Hudiksvallfjärden	5242
Iggesund – Agö	5242
Sandarne – Hällgrund	5142
Ljusnefjärden – Storjungfrun	5142
Gävle – Eggegrund	5142
Öregrundsgrepen	2020
Hallstavik – Svartklubben	5142
Köping – Kvikksund	5144
Västerås – Grönsö	5144
Grönsö – Södertälje	1004
Stockholm – Södertälje	1004
Fairway to Karlstad	5142
Fairway to Otterbäcken	4041