



Eisbericht Nr. 56

Amtsblatt des BSH

Jahrgang 96

Nr. 56

Tuesday, 14.02.2023

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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 aufgepresst Eis mit festgestampften Eis an der Kante. Auf See im Norden treibt dichtes, 5–20 cm dickes Eis und sehr lockeres Eis entlang der westlichen Küste. 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. At sea in the north, there is close, 5–20 cm thick drift ice and very open ice along the western coast. 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 rafted ice to about the line Karls-

borg – Raahe. Close, 5–20 cm thick drift ice is present in the central part north of about 64°45'N. Off the western fast ice, there is mostly very open, 3–10 cm thick ice and close, 5–20 cm thick ice around Rödkallen. 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, 3–10 cm thick drift ice off the coast.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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

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Some new ice formation is possible the coming day. The ice will first drift to the east and later more

The Quark

There is 10–35 cm thick fast ice in the Vaasa archipelago out to Storhästen. 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 past Šepelevskij lighthouse and along the coast to the Bay of Vyborg. Along the ice edge, there is a brash 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 open water. In the Bay of Pärnu, there is 10–20 cm thick fast ice along the northeastern coast. Further out to the line port Lindi – Cape Suurna, there is

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 in the northeast of Lake Vänern.

to the north/northeast.

open water and very open drift ice in the east. At sea, there is thin very open drift ice north of about Nordvalen.

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

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

Some ice melt is possible the coming day 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.

barrier. Further west, there is new ice to Seskar and Luga 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 slowly drift to the east and some ice formation is possible in the eastern part.

very close ice in the eastern part and open water in the western part. Further out to the line Liu – Voiste is open water.

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

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
Estonia	Pärnu	1600 kW	1 C	23.12.
Finland	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.
Russia	Vyborg and Vysotsk	-	Ice 1	08.02.
Sweden	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.
	Örnsköldsvik	2000 dwt	IC	13.02.
	Angermanälven	2000 dwt	IB	07.01.
	Söraker, Sundsvall and Söderhamn	2000 dwt	IC	13.02.
	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.

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:</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, 14.02.2023

Paernu, port and bay	43/5
Moonsund	1//0

Finland, 14.02.2023

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	8456
Kattilankalla – Oulu 1	6456
Sea area SW of Oulu 1	5866
High Sea N of the latitude of Marjaniemi	5756
Raahe harbour – Heikinkari	8346
Heikinkari – Raahe lighthouse	7866
Raahe lighthouse – Nahkiainen	0//6
Latitude Marjaniemi – Ulkokalla, Sea	4146
Rahja harbour – Välimatala	7756
Vaelimatala to line Ulkokalla – Ykskivi	0//6
Sea betw. lat. of Ulkokalla – Pietarsaari	2116
Ykspihlaja – Repskär	5756
Repskär – Kokkola lighthouse	2116
Sea area off Kokkola lighthouse	0//6
Pietarsaari – Kallan	5756
Sea area off Kallan	5756
Sea lat. Pietarsaari – NE Nordvalen	2116

Sea area ENE of Nordvalen	2016
Sea area Nordvalen to W of Norrskär	2016
Vaskiluoto – Ensten	7756
Ensten – Vaasa lighthouse	5756
Vaasa lighthouse – Norrskär	1006
Uusikaupunki harbour – Kirsta	7142
Inkoo a. Kantvik – sea area Porkkala	7145
Valko Harbour – Täktarn	1715
Archipelago fairway Boistö – Glosholm	1105
Kotka – Viikari	2315
Viikari – Orregrund	1105
Orregrund – Tiiskeri	0//5
Hamina – Suurmusta	7345
Suurmusta – Merikari	1105
Merikari – Kaunissaari	1105

Norway, 14.02.2023

Svinesund – Halden	31//
Drammensfjord	3112
Husøysund – Tønsberg channel	8345
Tønsberg, inner harbour	8353
Vestfjord (Tønsberg)	8555
Langårsund (Kragerø)	8144

Russian Federation, 14.02.2023

Port of St. Petersburg	84/3
St. Petersburg – E-point island Kotlin	54/3
E-point Kotlin – long. lighth. Tolbukhin	4303
Lighth. Tolbukhin – lighth. –Šepelevskij	42/2

Lighthouse Šepelevskij – island Sescar	43/2
Island Sescar – Island Sommers	12/1
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, 14.02.2023

Karlsborg – Malören	6456
Sea area off Malören	5356
Luleå – Björnklack	8546
Björnklack – Farstugrunden	2126
E and SE of Farstugrunden	2126
Sandgrönn fairway	5356
Rödkallen – Norströmsgrund	4356
Haraholmen – Nygrån	5136
Sea area off Nygrån	2126
Skelleftehamn – Gåsören	5236
Sea area off Gåsören	2126
Sea area off Bjuröklubb	2126
NE of Nordvalen	2126
SW of Nordvalen	2126
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 – Draghällan	1006
Draghällan – Åstholmsudde	1006
Off Åstholmsudde and Brämön	1006
Hudiksvallfjärden	8342
Iggesund – Agö	8342
Sandarne – Hällgrund	8346
Ljusnefjärden – Storzungfrun	8346
Gävle – Eggegrund	5142
Hallstavik – Svartklubben	5142
Köping – Kvicksund	8244
Västerås – Grönsö	8244
Södertälje – Fifong	4044
Fairway to Karlstad	5142
Fairway to Kristinehamn	5142