



Eisbericht Nr. 59

Amtsblatt des BSH

Jahrgang 96

Nr. 59

Friday, 17.02.2023

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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 bis zu 40 cm dickes zusammenhängendes, örtlich aufgedichtetes Eis. Auf See treibt im Norden dichtes, 5–20 cm dickes Eis und dünnes ebenes Eis. Außerhalb der südlichen Küsten treibt Eis verschiedener Bedeckungsgrade. In Norra Kvarnen liegt bis 35 cm dickes Festeis in den Schären und Buchten und weiter außerhalb treibt sehr lockeres, dünnes Eis und Neueis. 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 there is up to 40 cm thick, partly ridged consolidated ice. At sea in the north, there is close, 5–20 cm thick drift ice and thin level ice. Along the southern coasts drift ice of varying concentrations. In the Quark, there is up to 35 cm thick fast ice in the archipelagos and bays and thin very open ice or new ice further out. 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 ridged consolidated ice to about Kemi-1 – Oulun portti – Jaako. Close, 5–20 cm thick drift ice or 3–10 cm thick level ice is present north of about 65°N. In the southern Bay of Both-

nia, there is 5–25 cm thick fast ice in the archipelagos and farther out in the east, there is 5–20 cm thick ice of varying concentrations out to line Ulkokalla - Helsingkalla. In the west there is very open ice along the coast in places.

With a slow northwesterly ice drift no some ice formation is expected over the weekend.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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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 at both

coasts is new ice and open water. At sea, there is thin very open drift ice north of Holmöarna.

Over the course of the weekend some ice will form with a weak ice drift changing from northwesterly to southerly directions.

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. On Ångermanälven, there

is 20–40 cm thick fast or level ice.

Overall no larger changes are expected over the weekend, but over the course of Sunday ice formation may start.

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 part new ice is present along the coasts.

Overall no larger changes are expected over the weekend, but towards Monday ice formation may start.

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-

tered places along the outer coast.

With ice melt expected till Saturday and possible minor ice formation on Sunday, overall no larger changes are expected.

Gulf of Finland

In the Koporje and Luga bay there is very open drift ice and very close ice near the shore. From St. Petersburg out to Kotlin and in the bay north of Kotlin, there is 20–40 cm thick fast ice or compact ice. Further out to about 28°40'E there is 10–20 cm thick very close ice and still further very open ice to about 28°20'E. In the Bay of Vyborg, there is 15–25 cm thick fast ice and in the Bjerkesund, there is 10–20 cm thick fast ice. Further west, there is first very close, later close ice to 28°20'E. 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 to the line Haapasaari – Nerva. In the western archipelagos, there is 5–15 cm thick fast ice.

Over the weekend the wind will veer from southeasterly to easterly while air temperatures will slowly drop, therefore some ice formation is expected in the eastern part and the ice will drift westwards.

Gulf of Riga

In Väinameri, there is 5–15 cm thick very close ice or fast ice near the coasts. On the fairway is open water. In the Bay of Pärnu, there is a narrow belt of 5–15 cm thick fast ice along the coast. Further out to the line Valgeranna – Cape Suurna, there is very close ice. Further out to the line southern part

of Manilaid to Cape Pikla Nina is open water.

Towards Sunday northwesterly winds will bring somewhat lower temperatures, so that minor ice formation may start and the ice will drift towards the southeast.

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.

A cold spell on Sunday could lead to some minor ice formation, but else no larger change is expected over the weekend.

Swedish Lakes

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

On Sunday some ice formation may occur, but

during the rest of the weekend ice melt is expected, so no larger overall 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.
	Tornio, Kemi and Oulu	4000 dwt	IA	22.02.
	Raahe, Kalajoki, Kokkola, Pietarsaari and Vaasa	2000 dwt	I	07.01.
	Raahe	2000 dwt	IB	22.02.
	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, ZEUS, ATLE and FREJ assist in the Bay 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, 17.02.2023

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

Finland, 17.02.2023

Röyttä – Etukari	8446
Etukari – Ristinmatala	6456
Ajos – Ristinmatala	6456
Ristinmatala – Kemi 2	5876
Kemi 2 – Kemi 1	5876
Sea area SW of Kemi 1	5876
Kemi 2 – Ulkokrunni – Virpiniemi	6456
Oulu harbours – Kattilankalla	8456
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	3216
Latitude Marjaniemi – Ulkokalla, Sea	3106
Rahja harbour – Välimatala	3216
Välimatala to line Ulkokalla – Ykskivi	3216
Sea betw. lat. of Ulkokalla – Pietarsaari	5746
Ykskivilaja – Repskär	7756
Repskär – Kokkola lighthouse	2726
Sea area off Kokkola lighthouse	5746
Pietarsaari – Kallan	7756
Sea area off Kallan	5746
Sea lat. Pietarsaari – NE Nordvalen	2716

Sea area ENE of Nordvalen	2106
Vaskiluoto – Ensten	7756
Ensten – Vaasa lighthouse	5756
Vaasa lighthouse – Norrskär	0//6
Uusikaupunki harbour – Kirsta	8142
Inkoo a. Kantvik – sea area Porkkala	8145
Valko Harbour – Täktarn	1715
Archipelago fairway Boistö – Glosholm	0//5
Kotka – Viikari	2005
Viikari – Orregrund	0//5
Hamina – Suurmusta	8345
Suurmusta – Merikari	1105
Merikari – Kaunissaari	0//5

Norway, 15.02.2023

Svinesund – Halden	31//
Drammensfjord	2111
Husøysund – Tønsberg channel	8345
Tønsberg, inner harbour	8353
Vestfjord (Tønsberg)	8555
Langårsund (Kragerø)	8144

Russian Federation, 17.02.2023

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	23/2
Island Sescar – Island Sommers	2//1

Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	42/3
Strait Bjerkesund	83/3
E-point Bol'šoj Ber'ozovyj – Šepelevskij	32/2
Luga bay	22/2
Apr. Luga bay – line Moš.-Šepel.	2/1

Sweden, 17.02.2023

Karlsborg – Malören	6456
Sea area off Malören	5356
Luleå – Björnklack	8546
Björnklack – Farstugrunden	5136
E and SE of Farstugrunden	3126
Sandgrönn fairway	5356
Rödkaullen – Norströmsgrund	3126
Haraholmen – Nygrån	5236
Skelleftehamn – Gåsören	5236
Sea area off Gåsören	2026
Western Quark (W of Holmöarna)	2026
Umeå – Väktaren	5146
Örnköldsvik – Hörnskatan	8446
Hörnskatan – Skagsudde	5146
Ångermanälven north Sandö Bridge	8444
Ångermanälven south Sandö Bridge	8444
Härnösand – Härnön	1004
Sundsvall – Draghallan	4046
Draghallan – Åstholmsudde	4046
Hudiksvallfjärden	8342
Iggesund – Agö	8342
Sandarne – Hällgrund	8346
Ljusnefjärden – Storjungfrun	8346
Gävle – Eggegrund	5142
Hallstavik – Svartklubben	5142
Köping – Kvicksund	8244
Västerås – Grönsö	8244
Grönsö – Södertälje	2020
Stockholm – Södertälje	2020
Södertälje – Fifong	2024
Fairway to Karlstad	5142
Fairway to Kristinehamn	5142