



Eisbericht Nr. 53

Amtsblatt des BSH

Jahrgang 96

Nr. 53

Thursday, 09.02.2023

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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 30 cm dickes und örtlich aufgepresst Eis. Weiter außerhalb und entlang der Küsten treibt sehr lockeres bis dichtes, bis 10 cm dickes Eis. In Norra Kvarken liegt bis 35 cm dickes Festeis in den Schären und Buchten und sehr lockeres, dünnes Eis auf See. 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 30 cm thick and partly ridged ice. Further out and along the coasts is up to 10 cm thick, very open to close drift ice. In the Quark, there is up to 35 cm thick fast ice in the archipelagos and bays and thin ice at sea. In the Sea of Bothnia and the Archipelago Sea, fast ice or thin level ice is present along 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 to Malören and off the eastern fast ice. Further out in the east there is 10–30 cm thick very close ridged ice to Oulun portti and west of Raahe lighthouse. Further out in the north, there is 5–20 cm thick very close and partly ridged ice to south of Malören and Kemi-1. Followed by open and very open, 3–10 cm thick ice to the line Bjuröklubb – Simpgrund – Norströmsgrund –

Falkensgrund – Hailuoto. In the southern Bay of Bothnia, there is 5–25 cm thick fast ice in the archipelagos and farther out a narrow belt of very close ice in the east and thin level ice in the west. From west of Ulkokalla to west of Kokkola lighthouse, there is 3–10 cm thick open to close drift ice. Else there is mostly very open drift ice along the coasts.

Strong southwesterly but ceasing winds will lead to a northeasterly ice drift facilitating ice pressure and

Herstellung und Vertrieb

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Nachdruck, auch auszugsweise, verboten

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ridging. Ice drift will change to east/southeast on

The Quark

There is 10–35 cm thick fast ice in the Vaasa archipelago out to Storhästen. Further out to west of Ensten, there is very close, 5–20 cm thick ice. On the Swedish side, there is mostly fast ice in inner bays. Further out on both coasts, there is very

Sea of Bothnia

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

Archipelago Sea and Åland Sea

At the eastern coast, there is 5–15 cm fast or level ice in the inner bays and new ice somewhat further out. In the western and central part new ice is pre-

Northern Baltic

In Lake Mälaren, there is 5–15 cm thick fast ice or thin level ice in the western part. In the eastern part, there is new ice in sheltered bays. New ice

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. East of the line Hamina – Sosnowy Bor, there is very close, 5–20 cm thick drift ice. Further west is very open drift ice to Moščnyj. Along the northern coast, there is 10–25 cm thick

Gulf of Riga

In Väinameri, there is 10–20 cm thick fast ice or very close ice in sheltered bays. On the fairway is very open ice or open water to about Matsi in the south. In the Bay of Pärnu, there is 10–20 cm thick fast ice along the coast. Further out to the line

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.

Friday. Larger new ice formation is not expected.

open drift ice, 3–10 cm thick.

No larger ice formation or ice melt is expected the coming day. There will be a strong but ceasing north-easterly ice drift changing to east/southeast on Friday.

Ångermanälven, there is 10–30 cm thick fast or level ice.

No larger melt is expected and the ice will continue to drift to the northeast and from Friday more to the east.

sent along the coasts.

No larger change is expected the coming day.

occurs in sheltered places along the outer coast.

No larger changes are expected the coming day.

fast ice in the eastern archipelagos. Further out, there is open water west of Hamina. In the western archipelagos, there is 5–15 cm thick fast ice and new ice further out.

Minor ice formation and ice growth is expected in the easternmost part. The ice will drift to the northeast and from Friday more to the east.

Sarnanina – Cape Pikla, there is very close ice followed by very open drift ice to Kihnu.

No larger melt is expected and the ice will continue to drift to the northeast and from Friday more to the east.

Some ice melt but else no larger changes are expected.

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, Husum and Örnsköldsvik	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, 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. 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, 09.02.2023

Paernu, port and bay 73/5
 Moonsund 300/

Finland, 09.02.2023

Röyttä – Etukari 8446
 Etukari – Ristinmatala 6456
 Ajos – Ristinmatala 6456
 Ristinmatala – Kemi 2 5756
 Kemi 2 – Kemi 1 5756
 Sea area SW of Kemi 1 5756
 Kemi 2 – Ulkokrunni – Virpiniemi 6456
 Oulu harbours – Kattilankalla 6456
 Kattilankalla – Oulu 1 6456
 Sea area SW of Oulu 1 5356
 High Sea N of the latitude of Marjaniemi 5756
 Raahe harbour – Heikinkari 5356
 Heikinkari – Raahe lighthouse 5356
 Raahe lighthouse – Nahkiainen 4146
 Latitude Marjaniemi – Ulkokalla, Sea 3136
 Rahja harbour – Välimatala 8746
 Vaelimatala to line Ulkokalla – Ykskivi 2126
 Sea betw. lat. of Ulkokalla – Pietarsaari 5756
 Ykspihlaja – Repskär 5756
 Repskär – Kokkola lighthouse 5756
 Sea area off Kokkola lighthouse 4156
 Pietarsaari – Kallan 5756
 Sea area off Kallan 5756
 Sea lat. Pietarsaari – NE Nordvalen 2126

Sea area ENE of Nordvalen 2126
 Sea area Nordvalen to W of Norrskär 2126
 Vaskiluoto – Ensten 7756
 Ensten – Vaasa lighthouse 5756
 Vaasa lighthouse – Norrskär 2126
 Sea area SW of Norrskär 0//6
 Kaskinen – Sälgrund 2125
 Sea area off Sälgrund 2125
 Pori harb. to line Pori lighth. – Säppi 1001
 Rauma, Harbour – Kylmäpihlaja 5142
 Uusikaupunki harbour – Kirsta 8142
 Naantali and Turku – Rajakari 4041
 Hanko – Vitgrund 4041
 Inkoo a. Kantvik – sea area Porkkala 8145
 Helsinki harbours – Harmaja 1005
 Fairway Helsinki – Porkkala – Rönnskär 1005
 Vuosaari harbour – Eestiluoto 1005
 Porvoo harbours – Varlax 1005
 Varlax – Porvoo lighthouse 1005
 Valko Harbour – Täktarn 8745
 Archipelago fairway Boistö – Glosholm 1105
 Archipelago fairway Glosholm–Helsinki 1005
 Kotka – Viikari 8345
 Viikari – Orregrund 1105
 Orregrund – Tiiskeri 1105
 Hamina – Suurmusta 8345
 Suurmusta – Merikari 1105
 Merikari – Kaunissaari 1105

Russian Federation, 09.02.2023

Port of St. Petersburg	84/3	Sea area off Skagsudde	1106
St. Petersburg – E-point island Kotlin	54/3	Fairway W of Ulvöarna	4046
E-point Kotlin – long. lighth. Tolbuhkin	4303	Sea area E of Ulvöarna	1006
Lighth. Tolbuhkin – lighth. –Šepelevskij	42/2	Ångermanälven north Sandö Bridge	8444
Lighthouse Šepelevskij – island Sescar	4332	Ångermanälven south Sandö Bridge	8444
Island Sescar – Island Sommers	22/2	Härnösand – Härnön	5144
Vyborg, port and bay	83/3	Sundsvall – Draghällan	5142
Island Vichrevoj – Island Sommers	42/3	Draghällan – Åstholmsudde	2020
Strait Bjerkesund	83/3	Off Åstholmsudde and Brämön	1000
E-point Bol'šoj Ber'ozovyj – Šepelevskij	42/2	Hudiksvallfjärden	5242
Luga bay	22/2	Iggesund – Agö	5242
Appr. Luga bay – line Moš.-Šepel.	22/2	Sandarne – Hällgrund	8342

Latvia, 07.02.2023

Port of Riga	1000	Ljusnefjärden – Storjungfrun	8342
Riga to the Cape of Mersrags, fairway	1000	Gävle – Eggegrund	5142
Mersrags to Irben Strait, fairway	1000	Hallstavig – Svartklubben	5142

Norway, 08.02.2023

Svinesund – Halden	31//	Stockholm – Trälhavet – Klövholmen	4041
Drammensfjord	4112	Köping – Kvikksund	8244
Husøysund – Tønsberg channel	8345	Västerås – Grönsö	8244
Tønsberg, inner harbour	8353	Stockholm – Södertälje	4044
Vestfjord (Tønsberg)	8555	Södertälje – Fifong	4044
Langårsund (Kragerø)	8144	Norrköping – Hargökalv	4041
		Fairway to Karlstad	5142
		Fairway to Kristinehamn	5142

Russian Federation, 09.02.2023

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	4332
Island Sescar – Island Sommers	22/2
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
Appr. Luga bay – line Moš.-Šepel.	22/2

Sweden, 09.02.2023

Karlsborg – Malören	6456
Sea area off Malören	5356
Luleå – Björnklack	8446
Björnklack – Farstugrunden	3126
E and SE of Farstugrunden	3126
Sandgrönn fairway	5356
Rödkallen – Norströmsgrund	2126
Haraholmen – Nygrån	5146
Sea area off Nygrån	2126
Skelleftehamn – Gåsören	5236
Sea area off Gåsören	2126
Sea area off Bjuröklubb	2126
Western Quark (W of Holmöarna)	2126
Umeå – Väktaren	5146
SE of Väktaren	2126
Fairway to Husum	2126
Örnsköldsvik – Hörnskatan	8446
Hörnskatan – Skagsudde	5246