

Eisbericht Nr. 63

Amtsblatt des BSH

Jahrgang 96

Nr. 63

Thursday, 23.02.2023

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Übersicht

In den Schären der Bottenwiek befindet sich im Norden bis 60 cm dickes Festeis und im Süden bis 30 cm dickes Festeis. Auf das Festeis folgt im Norden bis zu 40 cm dickes zusammenhängendes oder sehr dichtes, örtlich aufgedichtetes oder aufgeschobenes Eis. Auf See ansonsten ebenes Eis oder bis 15 cm dickes, dichtes Eis mit örtlich dickeren Schollen. In Kvarken liegt bis 35 cm dickes Festeis in den Schären und Buchten und auf See treibt dichtes bis 15 cm dickes 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 sowie Neueis 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 in geschützten Gebieten und Neueis weiter außerhalb.

Overview

In the archipelagos of the Bay of Bothnia, there is up to 60 cm thick fast ice in the north and up to 30 cm thick fast ice in the south. In the north, there is up to 40 cm thick, partly ridged and rafted consolidated or very close ice. Else at sea, there is level ice or up to 15 cm thick, close ice with some thicker floes at places. In the Quark, there is up to 35 cm thick fast ice in the archipelagos and bays and at sea, there is up to 15 cm thick, close ice. 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 and new 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 and new ice further out.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 25–60 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, in places ridged very close ice to about Kemi-1 – Oulu-3. Further out to about a line Farstugrunden – Oulu-1, there is 10–30 cm thick, very close and partly rafted ice. Further out there is thin, 5–10 cm thick level ice to about Simpgrund –

Falkensgrund – Raahe with some thicker ice floes at places. Further south in the western part is close 2–15 cm thick ice to the Quark. In the southern Bay of Bothnia, there is 20–30 cm thick fast ice in the archipelagos. Off the fast ice in the east, there is a lead with very open thin ice stretching to the fast ice edge in the Quark. Further out there is 5–10 cm thick level ice with an area of some thicker floes stretching northeastwards from about

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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64°10'N in the central part.
Ice formation and ice growth continues the coming

The Quark

There is 10–35 cm thick fast ice in the Vaasa archipelago out to Storhästen. Further out to Ensten, 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. At sea from coast to coast, there is

Sea of Bothnia

In the archipelagos along the eastern coast, there is 10–20 cm thick fast ice. Further out in the north, there is new ice and ice formation. 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

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.

Northern Baltic

In Lake Mälaren, there is 5–15 cm thick fast ice or thin level ice in the western part, with areas of open water. In the eastern part, there is thin ice in sheltered bays. New ice occurs in sheltered places

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. Further west, there is thin level ice to about Moščnyj and Seskar and along the coast to the Bay of Vyborg. 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. In both entrances there is 10–20 cm thick, very close ice. In the area between Seskar and Kotka, there is very close 15–25 cm thick drift ice. Further west to about Gogland

Gulf of Riga

In Väinameri, there is 5–15 cm thick very close ice or fast ice near the coasts. On the fairway and between the islands is new ice. Along the coast to the Bay of Pärnu is new ice. In the western part of the Bay of Pärnu, there is 5–15 cm thick, close to

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.

day and the ice will drift mainly to the east/northeast.

mostly close, 2–15 cm thick drift ice north of Norrskär.

Ice growth and ice formation continues the coming day. The ice will drift mostly to the east/northeast.

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

Some ice growth and ice formation is expected the coming day.

Some ice formation and ice growth are expected the coming day but else no larger changes.

along the outer coast.

No larger changes are expected but some ice formation is possible in sheltered places.

and Narva, there is close 2–10 cm thick drift ice and new ice and new ice formation somewhat further west. Along the northern coast, there is 10–25 cm thick fast ice in the eastern archipelagos. Further out, there is thin level ice. In the western archipelagos, there is 5–15 cm thick fast ice and ice formation.

Ice formation and ice growth continues the coming day. The ice will drift to the north/northeast.

very close drift. Else there is new ice to about Häädemeeste.

Some ice formation is expected the coming day. The ice will drift north/northeast.

No major changes are expected the coming day.

No major changes are expected the coming days.

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	4000 dwt	IA	22.02.
	Raahe	2000 dwt	IB	22.02.
	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.
	Karlsborg	4000 dwt (2000 t)	IA	28.02.
	Lulea	4000 dwt	IA	28.02.
	Haraholmen and Skelleftehamn	2000 dwt	IC	25.12.
	Haraholmen and Skelleftehamn	2000 dwt	IB	28.02.
	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, YMER and FREJ assist in the Bay of Bothnia. ZEUS assists in the southern Bay of Bothnia and in the Quark. ALE assists in the Quark. CALYPSO assists in the region of Kotka and Hamina.

Norway

Husøysund and Vestfjorden (Tønsberg): Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size. 31.01.23

Tønsberg indre havn (Tønsberg): Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice. 31.01.23

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, 23.02.2023

Shipping route from Narva-Jõssuu	3000
Paernu, port and bay	4//5
Moonsund	2001

Finland, 23.02.2023

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	6456
Kattilankalla – Oulu 1	6456
Sea area SW of Oulu 1	5856
High Sea N of the latitude of Marjaniemi	5856
Raahe harbour – Heikinkari	8346
Heikinkari – Raahe lighthouse	8346
Raahe lighthouse – Nahkiainen	5146
Latitude Marjaniemi – Ulkokalla, Sea	5746
Rahja harbour – Välimatala	5756
Välimatala to line Ulkokalla – Ykskivi	5146
Sea betw. lat. of Ulkokalla – Pietarsaari	5746
Ykspihlaja – Repskär	7756
Repskär – Kokkola lighthouse	2126
Sea area off Kokkola lighthouse	2126
Pietarsaari – Kallan	7756
Sea area off Kallan	2126

Sea lat. Pietarsaari – NE Nordvalen	4146
Sea area ENE of Nordvalen	4146
Sea area Nordvalen to W of Norrskär	4146
Vaskiluoto – Ensten	7756
Ensten – Vaasa lighthouse	5756
Vaasa lighthouse – Norrskär	4146
Sea area SW of Norrskär	4146
Kaskinen – Sälgrund	0//5
Sea area off Sälgrund	0//5
High sea from N to latitude Yttergrund	3732
Pori harb. to line Pori lighth. – Säppi	4142
Rauma, Harbour – Kylmäpihlaja	4041
Uusikaupunki harbour – Kirsta	8142
Naantali and Turku – Rajakari	5142
Lövsjär – Korra	4041
Inkoo a. Kantvik – sea area Porkkala	8145
Helsinki harbours – Harmaja	2005
Vuosaari harbour – Eestiluoto	4045
Porvoo harbours – Varlax	4045
Valko Harbour – Täktarn	5145
Archipelago fairway Boistö – Glosholm	4045
Archipelago fairway Glosholm–Helsinki	4045
Kotka – Viikari	8345
Viikari – Orregrund	4045
Orregrund – Tiiskeri	4045
Tiiskeri – Kalbådagrund	4041
Hamina – Suurmusta	5145
Suurmusta – Merikari	4045
Merikari – Kaunissaari	4045

Latvia, 23.02.2023

Port of Riga 1000

Stockholm – Södertälje

4044

Södertälje – Fifong

2024

Fairway to Karlstad

4041

Fairway to Kristinehamn

5142

Norway, 23.02.2023

Svinesund – Halden 31//

Drammensfjord 1101

Husøysund – Tønsberg channel 8345

Tønsberg, inner harbour 8353

Vestfjord (Tønsberg) 8555

Langårsund (Kragerø) 8144

Russian Federation, 23.02.2023

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 51/2

Lighthouse Šepelevskij – island Sescar 52/2

Island Sescar – Island Sommers 41/1

Island Sommers– S-point island Gogland 41/1

Vyborg, port and bay 83/3

Island Vichrevoj – Island Sommers 42/3

Strait Bjerkesund 83/3

E-point Bol'šoj Ber'ozovij – Šepelevskij 42/2

Luga bay 51/2

Appr. Luga bay – line Moš.-Šepel. 51/1

Sweden, 23.02.2023

Karlsborg – Malören 6456

Sea area off Malören 5456

Luleå – Björnklack 8546

Björnklack – Farstugrunden 5336

E and SE of Farstugrunden 5336

Sandgrönn fairway 5336

Rödkaullen – Norströmsgrund 5146

Haraholmen – Nygrån 5236

Sea area off Nygrån 5146

Skelleftehamn – Gåsören 5236

Sea area off Gåsören 5146

Sea area off Bjuröklubb 4236

NE of Nordvalen 4236

SW of Nordvalen 4236

Western Quark (W of Holmöarna) 4236

Umeå – Väktaren 5146

SE of Väktaren 4236

Fairway to Husum 4236

Örnsköldsvik – Hörnskatan 8446

Hörnskatan – Skagsudde 5146

Ångermanälven north Sandö Bridge 8444

Ångermanälven south Sandö Bridge 8444

Härnösand – Härnön 5144

Sundsvall – Draghällan 5146

Draghällan – Åstholmsudde 1006

Hudiksvallfjärden 8346

Iggesund – Agö 8346

Sandarne – Hällgrund 8346

Ljusnefjärden – Storjungfrun 8346

Gävle – Eggegrund 1101

Hallstavik – Svartklubben 5142

Köping – Kvikksund 8244

Västerås – Grönsö 8244