



Eisbericht Nr. 51

Amtsblatt des BSH

Jahrgang 96

Nr. 51

Tuesday, 07.02.2023

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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 See treibt im Nordwesten dünnes ebenes Eis und im Nordosten sehr dichtes bis 30 cm dickes und örtlich aufgepresst Eis. Im Süden treibt auf See lockeres bis dichtes dünnes Eis. In Norra Kvarken liegt bis 35 cm dickes Festeis in den Schären und Buchten und 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. At sea, there is thin level ice in the northwestern part and very close, up to 30 cm thick and partly ridged ice in the eastern part. At sea in the south, there is open to close thin 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, 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 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 northwestern part, there is mostly thin level ice. In the eastern part, there is very close 5–20 cm thick and partly rafted ice to about Oulu-1. Further south, there is very close, partly ridged and 10–30 cm thick ice to about the

latitude of Raahe. In the southern Bay of Bothnia, there is 5–25 cm thick fast ice in the archipelagos and very close, thin ice 3–5 NM further out in the east. At sea, there is mostly 3–10 cm thick, open to close drift ice.

Some new ice formation is possible in coastal areas the coming day and the ice will drift to the northeast/east.

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 Storhästen. Further out, there is very close, thin and partly rafted ice to Vaasa lighthouse. On the Swedish side, there is mostly fast ice in inner bays and thin level ice west of Holmöarna. At sea in the southern part, there is

Sea of Bothnia

In the archipelagos along the eastern coast, there is 10–20 cm thick fast ice. New ice is present further out in the north. 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

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 ice. In the western and central part new ice is pre-

Northern Baltic

In Lake Mälaren, 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 occurs

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 15–25 cm thick fast ice. In the Bjerkesund, there is 10–25 cm thick fast ice. East of the line Kotka – Ust-Luga, there is close to very close, 5–20 cm thick drift ice. Further west to Gogland, there is new ice or very open drift ice. Along the northern coast, there is

Gulf of Riga

In Väinameri, there is 10–20 cm thick fast ice or very close ice in sheltered bays. Between the islands Hiiumaa and Saaremaa, there is new ice. On the fairway is very open ice to the island Kumari and further south to the island Kuralaid, there is new ice. In the Bay of Pärnu, there is 10–20 cm

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.

very open, 2–10 cm thick drift ice from coast to coast. In the northern part north of about Nordvalen, there is open to close, 3–10 cm thick drift ice. No larger changes are expected the coming day. The ice will drift to the northeast/east.

bays in the north. Further out is very open ice in the south and open water in the north. On Ångermanälven, there is 10–30 cm thick fast or level ice. No larger changes are expected the coming day.

sent along the coasts.
No larger changes are expected the coming day.

in sheltered places along the outer coast.
No larger changes are expected the coming day.

10–25 cm thick fast ice in the eastern archipelagos. Further out, there is new ice and open water west of Kotka. In the western archipelagos, there is 5–15 cm thick fast ice and new ice further out. Some new ice formation is expected in the eastern part the coming day. The ice will drift to the northeast/east.

thick fast ice along the coast. Further out to the island Sorgu, there is very close ice followed by new ice to the latitude of Jaagupi. From Riga to Kolka, there is open water.
No larger change is expected the coming day and the ice will drift to the northeast.

In the northern Oslofjord some ice formation may occur the coming day. 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.
	Rundvik, Husum and Örnköldvik	2000 dwt	II	21.12.
	Holmsund	2000 dwt	IC	07.02.
	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.

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.

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, 07.02.2023

Paernu, port and bay	73/5
Moonsund	5001

Finland, 06.02.2023

Röyttä – Etukari	8446
Etukari – Ristinmatala	7856
Ajos – Ristinmatala	7856
Ristinmatala – Kemi 2	5146
Kemi 2 – Kemi 1	5146
Sea area SW of Kemi 1	5146
Kemi 2 – Ulkokrunni – Virpiniemi	7856
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	7856
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	5756
Latitude Marjaniemi – Ulkokalla, Sea	4356
Rahja harbour – Välimatala	5246
Vaelimatala to line Ulkokalla – Ykskivi	4046
Sea betw. lat. of Ulkokalla – Pietarsaari	4146
Ykspihlaja – Repskär	5756
Repskär – Kokkola lighthouse	4046
Sea area off Kokkola lighthouse	4046
Pietarsaari – Kallan	5746
Sea area off Kallan	5746
Sea lat. Pietarsaari – NE Nordvalen	4756

Sea area ENE of Nordvalen	4146
Sea area Nordvalen to W of Norrskär	3106
Vaskiluoto – Ensten	8746
Ensten – Vaasa lighthouse	5756
Vaasa lighthouse – Norrskär	3106
Sea area SW of Norrskär	2006
Kaskinen – Sälgrund	8745
Sea area off Sälgrund	0//5
Pori harb. to line Pori lighth. – Säppi	4142
Rauma, Harbour – Kylmäpihlaja	5142
Uusikaupunki harbour – Kirsta	8142
Naantali and Turku – Rajakari	4041
Rajakari – Lövskär	2000
Hanko – Vitgrund	1000
Koverhar – Hästö Busö	3001
Inkoo a. Kantvik – sea area Porkkala	8145
Sea area at Porkkala	1005
Helsinki harbours – Harmaja	2005
Vuosaari harbour – Eestiluoto	2005
Porvoo harbours – Varlax	2005
Varlax – Porvoo lighthouse	1005
Valko Harbour – Täktarn	8745
Archipelago fairway Boistö – Glosholm	2005
Archipelago fairway Glosholm–Helsinki	2005
Kotka – Viikari	8745
Viikari – Orregrund	2115
Orregrund – Tiiskeri	1005
Hamina – Suurmusta	8745
Suurmusta – Merikari	3125

Merikari – Kaunissaari	2115	Off Åstholmsudde and Brämön	1000
		Hudiksvallfjärden	5242
Latvia, 07.02.2023		Iggesund – Agö	5242
Port of Riga	1000	Sandarne – Hällgrund	5142
Riga to the Cape of Mersrags, fairway	1000	Ljusnefjärden – Storzjungfrun	5142
Mersrags to Irben Strait, fairway	1000	Gävle – Eggegrund	5142
		Öregrundsgrepen	2020
Norway, 07.02.2023		Hallstavik – Svartklubben	5142
Svinesund – Halden	31//	Stockholm – Trälhavet – Klövholmen	4041
Drammensfjord	4112	Köping – Kvicksund	8244
Husøysund – Tønsberg channel	8345	Västerås – Grönsö	8244
Tønsberg, inner harbour	8353	Grönsö – Södertälje	4044
Vestfjord (Tønsberg)	8555	Stockholm – Södertälje	4044
Langårsund (Kragerø)	8144	Södertälje – Fifong	4044
		Norrköping – Hargökalv	4041
Russian Federation, 07.02.2023		Västervik – Marsholmen – Idö	4041
Port of St. Petersburg	84/3	Fairway to Gruvön	4041
St. Petersburg – E-point island Kotlin	54/2	Fairway to Karlstad	5142
E-point Kotlin – long. lighth. Tolbuhkin	4302	Fairway to Kristinehamn	5142
Lighth. Tolbuhkin – lighth. –Šepelevskij	42/2		
Lighthouse Šepelevskij – island Sescar	4332		
Island Sescar – Island Sommers	42/2		
Island Sommers– S-point island Gogland	30/2		
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	42/2		
Appr. Luga bay – line Moš.-Šepel.	42/2		
Sweden, 07.02.2023			
Karlsborg – Malören	6456		
Sea area off Malören	5356		
Luleå – Björnklack	8446		
Björnklack – Farstugrunden	5146		
E and SE of Farstugrunden	5146		
Sandgrönn fairway	5356		
Rödkallen – Norströmsgrund	5146		
Haraholmen – Nygrån	5146		
Sea area off Nygrån	5146		
Skelleftehamn – Gåsören	5236		
Sea area off Gåsören	5146		
Sea area off Bjuröklubb	5146		
NE of Nordvalen	4256		
SW of Nordvalen	2126		
Western Quark (W of Holmöarna)	5146		
Umeå – Väktaren	5146		
SE of Väktaren	2126		
NE and SE of Sydostbrotten	2126		
Fairway to Husum	1106		
Örnsköldsvik – Hörnskatan	8346		
Hörnskatan – Skagsudde	5246		
Sea area off Skagsudde	1106		
Fairway W of Ulvöarna	4046		
Sea area E of Ulvöarna	1006		
Ångermanälven north Sandö Bridge	8344		
Ångermanälven south Sandö Bridge	8344		
Härnösand – Härnön	5144		
Sundsvall – Draghällan	5142		
Draghällan – Åstholmsudde	5142		