



Eisbericht Nr. 52

Amtsblatt des BSH

Jahrgang 96

Nr. 52

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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 5-20cm dickes, sehr dichtes Eis und im Nordosten sehr dichtes bis 30 cm dickes und örtlich aufgepresst Eis. Auf See kommt in zentralen Teil offenes Wasser vor und im Süden treibt lockeres bis dichtes, dünnes Eis. In Norra Kvarnen 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 5-20cm thick very close ice in the northwestern part and very close, up to 30 cm thick and partly ridged ice in the eastern part. At sea there is open water in the central part and open to close thin ice in the south. 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 east there is 10-30cm thick very close ridged ice to about 23°30'E and north of about 64°50'N. Further west there is 5-20cm thick very close ice. Along the western fast ice edge there is a smaller region of thin level ice. 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 a belt of close, 3-10cm thick ice in the west. At sea, there is a region of open water between 64°10N and 64°40'N; from there towards the northwest there is 3-10cm thick open ice and to the south there is 3-10cm thick ice of varying concentrations up to the Quark.

Strong southwesterly winds will lead to a quick

Herstellung und Vertrieb

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northeasterly ice drift leading to ice pressure and

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 close to very close 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 bays in the north. Further out there is open water in

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 present along the coasts.

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 – Sosnowy Bor, there is close to very close, 5–20 cm thick drift ice. Further west first 5–20 cm thick close ice and then very open ice or open water to about 28°E on the southern shore to about 27°E on the northern

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 close and very close ice out to the longitude of Kuralaiu and further south there is very open ice. In the Bay of Pärnu, there is 10–

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.

ridging. Larger new ice formation is not expected.

very open, 2–7 cm thick drift ice from coast to coast. In the northern part north there is open to close, 3–10 cm thick drift ice.

With temperatures mostly above zero, no new ice formation is expected, but stronger south-westerly wind will push the ice north-eastwards.

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

No larger new ice formation or melt is expected, but with southwesterly winds a northeasterly ice drift is expected.

The new ice somewhat further out will be broken by southwesterly wind and disperse. Else no larger changes are expected the coming day.

in sheltered places along the outer coast.

No larger changes are expected the coming day.

shore. Along the northern coast, there is 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.

Minor or no new ice formation is expected, the northeasterly ice drift will continue with some ridging and pressure possible in the north eastern part.

20 cm thick fast ice along the coast. Further out to the line Liu – Cape Pikla, there is very close ice followed by open water to the latitude of Jaagupi.

No larger melt or new ice formation is expected and the ice will continue to drift to the northeast.

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. **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 , 08.02.2023

Paernu, port and bay	73/5
Moonsund	5001

Finland , 08.02.2023

Röyttä – Etukari	8446
Etukari – Ristinmatala	7856
Ajos – Ristinmatala	7856
Ristinmatala – Kemi 2	5756
Kemi 2 – Kemi 1	5756
Sea area SW of Kemi 1	5756
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	5356
Raahe harbour – Heikinkari	5356
Heikinkari – Raahe lighthouse	5356
Raahe lighthouse – Nahkiainen	5756
Latitude Marjaniemi – Ulkokalla, Sea	5356
Rahja harbour – Välimatala	5246
Vaelimatala to line Ulkokalla – Ykskivi	1106
Sea betw. lat. of Ulkokalla – Pietarsaari	5756
Ykspihlaja – Repskär	5756
Repskär – Kokkola lighthouse	5756
Sea area off Kokkola lighthouse	4146
Pietarsaari – Kallan	5756
Sea area off Kallan	5756
Sea lat. Pietarsaari – NE Nordvalen	5756

Sea area ENE of Nordvalen	4156
Sea area Nordvalen to W of Norrskär	2106
Vaskiluoto – Ensten	7756
Ensten – Vaasa lighthouse	5756
Vaasa lighthouse – Norrskär	2106
Sea area SW of Norrskär	1006
Kaskinen – Sälgrund	4145
Sea area off Sälgrund	2125
Pori harb. to line Pori lighth. – Säppi	1000
Rauma, Harbour – Kylmäpihlaja	5142
Uusikaupunki harbour – Kirsta	8142
Naantali and Turku – Rajakari	4041
Inkoo a. Kantvik – sea area Porkkala	8145
Sea area at Porkkala	0//5
Helsinki harbours – Harmaja	2005
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	2125
Merikari – Kaunissaari	1105

Latvia , 08.02.2023

Port of Riga	0//0
Riga to the Cape of Mersrags, fairway	0//0
Mersrags to Irben Strait, fairway	0//0

Norway , 07.02.2023

Svinesund – Halden	31//
Drammensfjord	4112
Husøysund – Tønsberg channel	8345
Tønsberg, inner harbour	8353
Vestfjord (Tønsberg)	8555
Langårsund (Kragerø)	8144

Sweden , 08.02.2023

Karlsborg – Malören	6456
Sea area off Malören	5356
Luleå – Björnklack	8446
Björnklack – Farstugrunden	5356
E and SE of Farstugrunden	5356
Sandgrönn fairway	5356
Rödallen – Norströmsgrund	5356
Haraholmen – Nygrån	5146
Sea area off Nygrån	3126
Skelleftehamn – Gåsören	5236
Sea area off Gåsören	4136
Sea area off Bjuröklubb	4136
NE of Nordvalen	2126
SW of Nordvalen	2126
Western Quark (W of Holmöarna)	5256
Umeå – Väktaren	5146
SE of Väktaren	2126
NE and SE of Sydostbrotten	2126
Fairway to Husum	2126
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	2020
Off Åstholmsudde and Brämön	1000
Hudiksvallfjärden	5242
Iggesund – Agö	5242
Sandarne – Hällgrund	5142
Ljusnefjärden – Storjungfrun	5142
Gävle – Eggegrund	5142
Hallstavik – Svartklubben	5142
Stockholm – Trälhavet – Klövholmen	4041
Köping – Kvicksund	8244
Västerås – Grönsö	8244
Grönsö – Södertälje	4044
Stockholm – Södertälje	4044
Södertälje – Fifong	4044
Norrköping – Hargökalv	4041
Västervik – Marsholmen – Idö	4041
Fairway to Karlstad	5142
Fairway to Kristinehamn	5142

Russian Federation , 08.02.2023

Port of St. Petersburg	84/3
St. Petersburg – E-point island Kotlin	54/2
E-point Kotlin – long. lighth. Tolbuhkin	4302
Lighth. Tolbuhkin – lighth. –Šepelevskij	42/2
Lighthouse Šepelevskij – island Sescar	4332
Island Sescar – Island Sommers	42/2
Island Sommers– S-point island Gogland	10/2
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	32/2
Appr. Luga bay – line Moš.-Šepel.	32/2