



Eisbericht Nr. 45

Amtsblatt des BSH

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Übersicht

In den Schären der Bottenwiek befindet sich bis 55 cm dickes Festeis. Weiter außerhalb treibt im Norden 10–35 cm dickes, dichtes bis sehr dichtes Treibeis. In der südlichen Bottenwiek befindet sich in den Buchten dünnes ebenes Eis oder Festeis. In Norra Kvarken liegt bei Vaasa bis 30 cm dickes Festeis. Ansonsten kommt an den Küsten dünnes ebenes Eis vor. 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 sehr dichtes Eis weiter außerhalb. In den Schären und Buchten entlang der Küsten kommt im Norden Festeis vor. Im Nordosten des Rigaischen Meerbusen befindet sich 10–20 cm dickes Festeis oder sehr dichtes Eis in geschützten Buchten.

Overview

In the archipelagos of the Bay of Bothnia, there is up to 55 cm thick fast ice. Further out in the north, there is 10–35 cm thick, close to very close drifting ice. In the southern Bay of Bothnia, there is thin level ice or fast ice in the inner bays. In the Quark, there is up to 30 cm thick fast ice near Vaasa and else thin level ice along the coasts. 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 very close ice somewhat further out. In the archipelagos and bays along the coasts, there is fast ice in the north. 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. In the north follows by 15–35 cm thick, very close, partly rafted ice to about 3 NM north of Kemi-1. At the ice edge is close shuga with a brash ice barrier. New ice is present along the eastern ice edge and along the coast. Further out in the west, there is close, 15–30 cm thick ice with new ice at places to Norströms-

grund in the south and about 23°35' E in the east. Further south, there is new ice. In the southern Bay of Bothnia, there is 5–20 cm thick level or fast ice in the archipelagos. Further out, there is new ice in the east and open water in the west.

New ice formation and ice growth is expected the coming day with a strong ice drift to the south/southeast.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

www.bsh.de/ice

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The Quark

There is 10–30 cm thick fast ice in the Vaasa archipelago out to Storhästen. Further out, there is thin close ice and new ice to Vaasa lighthouse. Along the northern fast ice edge, there is new ice. On the Swedish side, there is mostly fast ice in

inner bays along the coast and open water further out. West of Holmöarna, there is new ice. Some new ice formation and ice growth is expected the coming day. The ice will drift to the south/southeast.

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 fast ice in inner bays in the north.

On Ångermanälven, there is 10–20 cm thick fast or level ice. Some new ice formation or ice growth may occur in inner bays.

Archipelago Sea and Åland Sea

At the eastern coast, there is 3–10 cm fast or level ice in the inner bays and new ice somewhat further

ice. In the western part new ice along the coast. No larger change is expected the coming day.

Northern Baltic

In Lake Mälaren, 3–10 cm thick level ice is present in the western part and sheltered places. Else there is mostly open water. New ice occurs in few

sheltered places along the coast. No major changes with a slight ice melt are expected the coming day.

Gulf of Finland

From St. Petersburg out to Kotlin there is 20–40 cm thick fast ice or compact ice. In the bay north of Kotlin, there is 20–30 cm thick fast ice. In the Bay of Vyborg, there is 15–25 cm thick fast ice. Further out, there is 5–20 cm thick, very close and partly rafted ice to about the line Hamiina – Kotlin and open water to Moščnyj. In the Bjerkesund, there is

10–20 cm thick fast ice with 5–15 cm thick, very close ice at the entrance. Along the northern coast, there is 5–20 cm thick fast ice in the eastern archipelagos. Further out, there is open water. In the western archipelagos is thin ice. No major changes are expected the coming day. The ice will drift to the northeast/east.

Gulf of Riga

In Väinameri, there is 10–20 cm thick fast ice or very close ice in sheltered bays. On the fairways, there is open water and very open drift ice at places. In the Bay of Pärnu, there is 10–20 cm thick fast ice along the coast and further out to Hääde-

meste, there is 10–20 cm thick, very close or very open ice. Some ice melt is expected the coming day and the ice will drift to the east/southeast.

Southeastern Baltic

In the Curonian Lagoon, there is very open thin ice at a few places.

Some ice melting is expected.

Skagerrak and Kattegat

Up to 10 cm thick ice or new ice is present in some Norwegian Fjords.

No major changes are expected the coming day.

Swedish Lakes

Thin level ice or new ice is present in few sheltered bays in the north and east of Lake Vänern.

No major change is expected the coming day.

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	IB	07.01.
	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.
Sweden	Karlsborg and Lulea	2000 dwt	IB	08.01.
	Haraholmen and Skelleftehamn	2000 dwt	IC	25.12.
	Holmsund, Rundvik, Husum and Örnsköldvik	2000 dwt	II	21.12.
	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.

Icebreakers:

KONTIO, OTSO, 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, 30.01.2023

Paernu, port and bay	7385
Moonsund	1//0

Finland, 30.01.2023

Röyttä – Etukari	8446
Etukari – Ristinmatala	7856
Ajos – Ristinmatala	7856
Ristinmatala – Kemi 2	5856
Kemi 2 – Kemi 1	5356
Kemi 2 – Ulkokrunni – Virpiniemi	7856
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	7356
Sea area SW of Oulu 1	3106
High Sea N of the latitude of Marjaniemi	5346
Raahe harbour – Heikinkari	5146
Heikinkari – Raahe lighthouse	3006
Latitude Marjaniemi – Ulkokalla, Sea	2006
Rahja harbour – Välimatala	5146
Ykspihlaja – Repskär	5146
Repskär – Kokkola lighthouse	3006
Pietarsaari – Kallan	5746
Sea area off Kallan	1106
Sea lat. Pietarsaari – NE Nordvalen	1106
Sea area ENE of Nordvalen	1106
Sea area Nordvalen to W of Norrskär	1106
Vaskiluoto – Ensten	8746
Ensten – Vaasa lighthouse	5746
Kaskinen – Sälgrund	5745

Uusikaupunki harbour – Kirsta	8142
Naantali and Turku – Rajakari	4041
Inkoo a. Kantvik – sea area Porkkala	8145
Helsinki harbours – Harmaja	1005
Harmaja – Helsinki lighthouse	0//5
Vuosaari harbour – Eestiluoto	2005
Porvoo harbours – Varlax	1005
Varlax – Porvoo lighthouse	0//5
Valko Harbour – Täktarn	8745
Archipelago fairway Boistö – Glosholm	1005
Archipelago fairway Glosholm–Helsinki	0//5
Kotka – Viikari	8745
Viikari – Orregrund	1005
Orregrund – Tiiskeri	0//5
Hamina – Suurmusta	8745
Suurmusta – Merikari	1005
Merikari – Kaunissaari	1005

Latvia , 29.01.2023

Port of Riga	1000
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Russian Federation, 30.01.2023

Port of St. Petersburg	83/3
St. Petersburg – E-point island Kotlin	53/2
E-point Kotlin – long. lighth. Tolbuhkin	5202
Lighth. Tolbuhkin – lighth. –Šepelevskij	4201
Lighthouse Šepelevskij – island Sescar	11/1
Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	42/2

Strait Bjerkesund 82/2
E-point Bol'soj Ber'ozovyj – Šepelevskij 51/2

Sweden, 30.01.2023

Karlsborg – Malören 8446
Sea area off Malören 5366
Luleå – Björnklack 8446
Björnklack – Farstugrunden 4336
E and SE of Farstugrunden 4336
Sandgrönn fairway 5336
Rödkaullen – Norströmsgrund 5336
Haraholmen – Nygrån 4336
Sea area off Nygrån 1106
Skelleftehamn – Gåsören 5236
Sea area off Gåsören 4046
Sea area off Bjuröklubb 1106
NE of Nordvalen 1106
SW of Nordvalen 1106
Western Quark (W of Holmöarna) 5136
Umeå – Väktaren 4046
SE of Väktaren 1106
Örnsköldsvik – Hörnskatan 8246
Hörnskatan – Skagsudde 3226
Ångermanälven north Sandö Bridge 8344
Ångermanälven south Sandö Bridge 8344
Sundsvall – Draghällan 3222
Hudiksvallfjärden 5242
Iggesund – Agö 5242
Sandarne – Hällgrund 5142
Ljusnefjärden – Storjungfrun 5142
Hallstavik – Svartklubben 5142
Köping – Kvicksund 5144
Västerås – Grönsö 5144
Grönsö – Södertälje 1004
Stockholm – Södertälje 1004
Fairway to Karlstad 5142
Fairway to Kristinehamn 5142