

Eisbericht Nr. 40

Amtsblatt des BSH

Jahrgang 96

Nr. 40

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Übersicht

In den Schären der Bottenwiek befindet sich bis 45 cm dickes Festeis. Weiter außerhalb treibt im Norden 10–30 cm dickes, sehr dichtes Eis mit festgestampften Eis entlang der Eiskante. In der südlichen Bottenwiek befindet sich in den Buchten dünnes ebenes Eis oder Festeis. In Norra Kvarken liegt bei Vaasa bis 25 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 oder sehr dichtes Eis. Auf See im Osten kommt Neueis oder dünnes Treibeis vor. In den Schären und Buchten entlang der Küsten kommt im Norden Festeis vor. Im Nordosten des Rigaischen Meerbusen befindet sich 10–25 cm dickes Festeis in geschützten Buchten und etwas weiter außerhalb Treibeis verschiedener Konzentration.

Overview

In the archipelagos of the Bay of Bothnia, there is up to 45 cm thick fast ice. Further out in the north, there is 10–30 cm thick, very close ice with a brash ice barrier along the ice edge. 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 25 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 or very close ice in the easternmost bays. At sea in the east, there is new ice or thin drifting ice. In the archipelagos and bays along the coasts, there is fast ice in the north. In the northeastern Gulf of Riga, there is 10–25 cm thick fast ice in sheltered bays and drifting ice of varying concentration somewhat further out.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 25–45 cm thick fast ice. Further out, there is a region of 15–30 cm thick, very close ice to about the line Rödkallen – Malören – Oulu5. In the north, the ice is partly rafted or ridged and a brash ice barrier has formed along the entire ice edge.

New ice is present along the eastern and western ice edge. In the southern Bay of Bothnia, there is 5–20 cm thick level or fast ice in the archipelagos. Further out, there is thin drifting ice in places. No major changes are expected and the ice will drift to the northeast.

The Quark

There is 10–25 cm thick fast ice in the Vaasa ar-

chipelago out to Storhåsten. Further out, there is

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very open ice in places. On the Swedish side, there is mostly fast ice in inner bays along the coast. West of Holmöarna, there is very open drift

Sea of Bothnia

In the archipelagos along the eastern coast, there is 5–20 cm thick fast ice and in places shuga. 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. Further out in the north,

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

Northern Baltic

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

Gulf of Finland

From St. Petersburg out to Kotlin there is 20–40 cm thick fast ice, with 10–25 cm thick, very close ice on the fairway. In the bay north of Kotlin, there is 20–30 cm thick fast ice at the coast and 10–20 cm thick very close ice outside. Further out to the lighthouse Šepelevskij, there is close new ice. In the Bay of Vyborg, there is 15–25 cm thick fast ice. Further out, there is 5–15 cm thick, close ice to about the line Kotka – Kotlin. In the Bjerkesund,

Gulf of Riga

In Väinameri, there is 10–25 cm thick fast ice in sheltered bays and open water or very open drift ice on the fairways. In the Bay of Pärnu, there is 10–20 cm thick fast ice and further out to the line south tip of Manilaid – island Sorgu – Suurna Nina,

Southeastern Baltic

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

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 is present in few sheltered bays in the north of Lake Vänern.

ice.

No major changes are expected the coming day and the ice will drift to the northeast.

there is new ice or very open thin ice. On Ångermanälven, there is 10–20 cm thick fast or level ice. No major changes are expected but some ice formation may occur along the north western coast. The ice will slightly drift to the east to northeast.

ice. In the western part new ice along the coast. No major changes are expected the coming day.

and along the coast.

No major changes are expected the coming day.

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 with shuga in places at the edge. In the western archipelagos thin ice. New ice is present further out and in places along the southern coast.

Some ice will form the coming day and the ice drifts to the northeast.

there is 10–20 cm thick, very close ice. On the fairway from Riga to Irbe Strait, there is open water.

No major changes are expected the coming day and the ice drifts to the northeast.

No major changes are expected the coming day.

with. Some ice formation may occur in the northern Oslofjord.

No major changes are 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.
	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 Örensköldvik	2000 dwt	II	21.12.
	Angermanälven	2000 dwt	IB	07.01.
	Köping	2000 dwt	IC	07.01.
	Västerås	2000 dwt	IC	07.01.
	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, **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, 23.01.2023

Shipping route from Narva-Jõssuu	1000
Paernu, port and bay	7385
Moonsund	1//0

Finland, 23.01.2023

Röyttä – Etukari	8446
Etukari – Ristinmatala	7356
Ajos – Ristinmatala	7356
Ristinmatala – Kemi 2	5356
Kemi 2 – Kemi 1	5356
Sea area SW of Kemi 1	0//6
Kemi 2 – Ulkokrunni – Virpiniemi	7356
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	5146
Sea area SW of Oulu 1	3016
High Sea N of the latitude of Marjaniemi	0//6
Raahе harbour – Heikinkari	4046
Heikinkari – Raahе lighthouse	4046
Raahе lighthouse – Nahkiainen	4046
Rahja harbour – Välimatala	5146
Ykspihlaja – Repskär	5146
Repskär – Kokkola lighthouse	2116
Sea area off Kokkola lighthouse	2116
Pietarsaari – Kallan	3116
Sea area off Kallan	1006
Sea lat. Pietarsaari – NE Nordvalen	1006
Sea area ENE of Nordvalen	1106
Sea area Nordvalen to W of Norrskär	0//6

Vaskiluoto – Ensten	8746
Ensten – Vaasa lighthouse	1116
Vaasa lighthouse – Norrskär	0//6
Kaskinen – Sälgrund	8745
Sea area off Sälgrund	5145
Pori harb. to line Pori lighth. – Säppi	2001
Uusikaupunki harbour – Kirsta	8142
Naantali and Turku – Rajakari	4041
Koverhar – Hästö Busö	4041
Inkoo a. Kantvik – sea area Porkkala	8145
Helsinki harbours – Harmaja	4045
Harmaja – Helsinki lighthouse	0//5
Fairway Helsinki – Porkkala – Rönnskär	0//5
Vuosaari harbour – Eestiluoto	5145
Eestiluoto – Helsinki lighthouse	0//5
Porvoo harbours – Varlax	5045
Varlax – Porvoo lighthouse	2005
Porvoo lighthouse – Kalbådagrund	0//5
Valko Harbour – Täktarn	8745
Archipelago fairway Boistö – Glosholm	5045
Archipelago fairway Glosholm–Helsinki	5045
Kotka – Viikari	8745
Viikari – Orregrund	5045
Orregrund – Tiiskeri	5045
Tiiskeri – Kalbådagrund	2001
Hamina – Suurmusta	8745
Suurmusta – Merikari	8745
Merikari – Kaunissaari	5045

Latvia, 23.01.2023

Port of Riga	1000
Riga to the Cape of Mersrags, fairway	1000
Mersrags to Irben Strait, fairway	1000

Russian Federation, 23.01.2023

Port of St. Petersburg	83/3
St. Petersburg – E-point island Kotlin	53/2
E-point Kotlin – long. lighth. Tolbuhkin	2202
Lighth. Tolbuhkin – lighth. –Šepelevskij	2201
Lighthouse Šepelevskij – island Sescar	11/1
Island Sescar – Island Sommers	31/2
Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	42/2
Strait Bjerkesund	82/2
E-point Bol'šoj Ber'ozovyj – Šepelevskij	51/2

Sweden, 23.01.2023

Karlsborg – Malören	8446
Sea area off Malören	5366
Luleå – Björnklack	8446
Björnklack – Farstugrunden	4376
E and SE of Farstugrunden	4046
Sandgrönn fairway	8446
Rödkallen – Norströmsgrund	4376
Haraholmen – Nygrån	8346
Sea area off Nygrån	4046
Skelleftehamn – Gåsören	5236
Sea area off Gåsören	2026
Sea area off Bjuröklubb	2026
Western Quark (W of Holmöarna)	2026
Umeå – Väktaren	8346
SE of Väktaren	2026
Fairway to Husum	2026
Örnsköldsvik – Hörnskatan	8246
Hörnskatan – Skagsudde	2026
Sea area off Skagsudde	2026
Fairway W of Ulvöarna	2026
Sea area E of Ulvöarna	2026
Ångermanälven north Sandö Bridge	8344
Ångermanälven south Sandö Bridge	8344
Härnösand – Härnön	2024
Sea area off Härnön	2024
Sundsvall – Draghällan	8242
Draghällan – Åstholmsudde	4041
Off Åstholmsudde and Brämön	4041
Hudiksvallfjärden	5242
Iggesund – Agö	5242
Sandarne – Hällgrund	5142
Ljusnefjärden – Storsjungfrun	5142
Gävle – Eggegrund	5142
Öregrundsgrepen	4041
Hallstavik – Svartklubben	5142
Köping – Kvikksund	5144
Västerås – Grönsö	5144
Grönsö – Södertälje	1004
Stockholm – Södertälje	1004
Fairway to Karlstad	5142