



Eisbericht Nr. 27

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Übersicht

In der Bottenwiek liegt in den nördlichen Schären 15–45 cm dickes Festeis. Weiter außerhalb folgt im Nordosten sehr dichtes, 15–30 cm dickes Eis und im Nordwesten dichtes, 5–20 cm dickes Eis. In den südlichen Schären liegt bis 25 cm dickes Festeis und etwas weiter außerhalb treibt sehr lockeres Eis. In Norra Kvarken liegt bis 25 cm dickes Festeis und dünnes Eis etwas weiter außerhalb. In der Bottensee kommt entlang der Küste im Norden Festeis und im Süden dünnes Eis vor. Im östlichen Finnischen Meerbusen kommt 10–20 cm dickes Eis vor St. Petersburg und in der Vyborg-Bucht vor. Ansonsten tritt ebenes Eis und Neueis lokal in geschützten Gebieten an den Küsten des Schärenmeeres, der Ålandsee, sowie im nördlichen Finnischen Meerbusen und im Rigaischen Meerbusen auf.

Overview

In the Bay of Bothnia, there is 15–45 cm thick fast ice in the northern archipelagos. Further out, there is very close 15–30 cm thick ice in the northeast and close ice, 5–20 cm thick, in the northwest. In the southern archipelagos, there is up to 25 cm thick fast ice and very open ice further out. In the Quark, there is up to 25 cm thick fast ice in the inner archipelagos and thin drift ice further out. Along the coast of the Sea of Bothnia there is mostly fast ice in the north and thin ice in the south. In the eastern Gulf of Finland, there is 10–20 cm thick ice at St. Petersburg and in the Vyborg Bay. Else, there is thin level ice and new ice at some sheltered places along the northern coast of the Gulf of Finland, the Archipelago Sea, the Åland Sea, Lake Mälaren and the Gulf of Riga.

Bay of Bothnia

In the northern Bay of Bothnia, there is 15–45 cm thick fast ice; in the east approximately to Kemi-3 and Hammasmatala. Further out in the northeast, there is mostly 15–30 cm thick very close ice to Kemi-2 and Oulu-2 and open water further out. There is a compact brash ice barrier at the ice edge. Off the fast ice in the northwest, there is close ice, 5–20 cm thick, followed by open water.

In the southern Bay of Bothnia, there is up to 25 cm fast ice along the coast. Off the coast is open to very open ice in the east and very open ice in the west.

With air temperatures mostly slightly above 0°C, no ice growth is expected. The ice will drift to the northeast/east.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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The Quark

In the Vaasa archipelago, there is 10–25 cm thick fast ice to Ensten and thin drift ice further out. Along the Swedish coast, there is 10–20 cm thick fast ice in inner bays. Further out, there is open

water. With air temperatures slightly above 0 °C no larger changes are expected. The ice will drift to the east.

Sea of Bothnia

In the east, there is 5–15 cm thick fast ice or thin level ice along the coast in the north. Off the fast ice is thin drifting shuga. In the south is thin ice. Along the coast in the west, there is thin level ice and new ice further out in the north. On Ånger-

manälven there is 5–20 cm thick fast ice. South of Hudiksvall there is thin close ice along the coast. With air temperatures mostly slightly above 0°C some ice melt is expected the coming day.

Åland Sea

New ice or thin close ice is present in some sheltered places.

With air temperatures mostly slightly above 0°C some ice melt is expected the coming day.

Archipelago Sea

Open new ice may be found along the coast and in sheltered places of the archipelago.

With air temperatures mostly slightly above 0°C some ice melt is expected the coming day.

Gulf of Finland

From St Petersburg to lighthouse Tolbushin there is very close ice, 10–20 cm thick. In the upper part of Vyborg Bay, there is 10–20 cm thick fast ice. Along the northern coast, there is thin level ice in the east with very open ice further out in places

and new ice in the west. In Lake Saimaa and Saimaa Canal, there is 10–30 cm thick ice. With air temperatures slightly above 0°C some ice melt may occur the coming day.

Gulf of Riga

In Väinameri, there is new ice and thin level ice in sheltered areas. New ice is present at places near the coast in Pärnu Bay. The fairway is ice-free.

With air temperatures slightly above 0°C some ice melt may occur the coming day.

Northern Baltic

On Lake Mälaren there is 2–10 cm thick level ice in the western part with some areas of very open ice. The central part is ice-free. In the eastern part and

along the outer coast there is new ice in places. With air temperatures slightly above 0°C some ice melt may occur the coming day.

Central Baltic

Remains of new ice may be found at some sheltered places along the northern the Swedish coast.

With air temperatures above 0°C some ice melt is expected the coming day.

Swedish Lakes

New ice or thin level ice is present at places in the northeast and at some sheltered places in the south of Lake Vänern.

With air temperatures mostly slightly above 0°C some ice melt is expected the coming day.

Skagerrak and Kattegat

New ice or thin level ice may be found in sheltered places along the Norwegian and northern Swedish coast.

With air temperatures mostly above 0 °C some ice melt is expected the coming day.

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi, Oulu and Raahе	2000 dwt	IB	08.01.
	Kalajoki	2000 dwt	I	07.01.
	Kokkola, Pietarsaari and Vaasa	2000 dwt	I	07.01.
	Kaskinen, Kotka and Hamina	2000 dwt	II	07.01.
	Lake Saimaa and Saimaa Canal	2000 dwt	IB	16.01.
Russia	St. Petersburg	-	Ice 1	28.01.
	Vyborg	-	Ice 1	24.01.
	Vysotsk	-	Ice 1	24.01.
Sweden	Karlsborg and Luleå	2000 dwt	IB	07.01.
	Haraholmen and Skelleftehamn	2000 dwt	IC	07.01.
	Holmsund, Rundvik, Husum Örnsköldsvik and Köpmanholmen	2000 dwt	II	07.01.
	Ångermanälven	2000 dwt	IB	07.01.
	Härnösand, Söråker, Sundsvall, Stocka, Hudiksvall, Iggesund, Söderhamn, Orrskär, Norrsundet, Gävle, Skutskär, Öregrund, Hargshamn, Hallstavik, Grisslehamn, Kappelskär, Stockholm, Nynäshamn, Södertälje, Oxelösund and Norrköping	2000 dwt	II	11.01.
	Köping and Västerås	2000 dwt	IC	07.01.
	Bålsta	2000 dwt	II	15.01.
	Trollhätte Canal and Göta Älv	2000 dwt	II	11.01.
	Vänern	2000 dwt	II	11.01.

Finland/Sweden

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, ALE, ATLE, OTSO and SISU assist in the Bay of Bothnia. ZEUS assists in the Quark and in the southern Bay of Bothnia. TYRSKY assists in the Lake Saimaa.

Russia

From 24th of January tow boat-barges will not be assisted to Vyborg and Vysotsk. Vessels without ice class may navigate with icebreaker assistance only.

From 28th of January tow boat-barges will not be assisted to St. Petersburg. Vessels without ice class may navigate with icebreaker assistance only.

Icebreakers: IVAN KRUIZENSTERN and K. PLAKHIN assist vessels to the port of St. Petersburg. K. IZMAYLOV assists to Vyborg and Vysotsk.

Baltic Sea Ice Code

First number: A_B Amount and arrangements of sea ice 0 Ice free 1 Open water – concentration less than 1/10 2 Very open ice - concentration 1/10 to 3/10 3 Open ice – concentration 4/10 to 6/10 4 Close ice – concentration 7/10 to 8/10 5 Very close ice – concentration 9/10 to 9+/10 6 Compact ice, including consolidated ice – concentration 10/10 7 Fast ice with drift ice outside 8 Fast ice 9 Lead in very close or compact drift ice or along the fast ice edge / Unable to report Third number: T_B Topography or form of ice 0 Pancake ice, ice cakes, brash ice – less than 20 m across 1 Small ice floes – 20 to 100 m across 2 Medium ice floes – 100 to 500 m 3 Big ice floes – 500 to 2000 m across 4 Vast or giant ice floes – more than 2000 m across – or level ice 5 Rafted ice 6 Compact slush or shuga, or compacted brash ice 7 Hummocked or ridged ice 8 Thaw holes or many puddles on the ice 9 Rotten ice / No information or unable to report	Second number: S_B Stage of ice development 0 New ice or dark nilas (less than 5 cm thick) 1 Light nilas (5 - 10 cm thick) or ice rind 2 Grey ice (10 - 15 cm thick) 3 Grey-white ice (15 - 30 cm thick) 4 White ice, first stage (30 - 50 cm thick) 5 White ice, second stage (50 - 70 cm thick) 6 Medium first year ice (70 - 120 cm thick) 7 Ice predominantly thinner than 15 cm with some thicker ice 8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice 9 Ice predominantly thicker than 30 cm with some thinner ice / No information or unable to report Fourth number: K_B Navigation conditions in ice 0 Navigation unobscured 1 Navigation difficult or dangerous for wooden vessels without ice sheathing 2 Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable 3 Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice 4 Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker 5 Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size 6 Icebreaker assistance can only be given to vessels of special ice class and of special size 7 Icebreaker assistance can only be given to vessels after special permission 8 Navigation temporarily closed 9 Navigation has ceased / Unknown
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Estonia, 16.01.2025

Paernu, port and bay	10/0
Moonsund	1//0

Finland, 16.01.2025

Röyttä – Etukari	8846
Etukari – Ristinmatala	7356
Ajos – Ristinmatala	7756
Ristinmatala – Kemi 2	5376
Kemi 2 – Kemi 1	5366
Sea area SW of Kemi 1	0//6
Kemi 2 – Ulkokrunni – Virpiniemi	7356
Oulu harbours – Kattilankalla	8876
Kattilankalla – Oulu 1	7376
Sea area SW of Oulu 1	0//6
High Sea N of the latitude of Marjaniemi	1716
Raahe harbour – Heikinkari	8346
Heikinkari – Raahe lighthouse	5366
Rahja harbour – Välimatala	1106
Välimatala to line Ulkokalla – Ykskivi	0//6
Ykspihlaja – Repskär	8746
Repskär – Kokkola lighthouse	3136
Sea area off Kokkola lighthouse	2126
Pietarsaari – Kallan	8746
Sea area off Kallan	2126
Sea lat. Pietarsaari – NE Nordvalen	0//6
Sea area ENE of Nordvalen	0//6
Vaskiluoto – Ensten	8346
Ensten – Vaasa lighthouse	5146

Kaskinen – Sälgrund	2125
Sea area off Sälgrund	0//5
Rauma, Harbour – Kymäpihlaja	2021
Uusikaupunki harbour – Kirsta	3032
Naantali and Turku – Rajakari	1000
Inkoo a. Kantvik – sea area Porkkala	2011
Helsinki harbours – Harmaja	1000
Valko Harbour – Täktarn	5142

Russian Federation, 16.01.2025

Port of St. Petersburg	530/
St. Petersburg – E-point island Kotlin	530/
Vyborg, port and bay	820/

Sweden, 16.01.2025

Karlsborg – Malören	8446
Sea area off Malören	3326
Luleå – Björnklack	8446
Björnklack – Farstugrunden	4336
E and SE of Farstugrunden	3326
Sandgrönn fairway	8346
Rödskallen – Norströmsgrund	4336
Haraholmen – Nygrån	8346
Sea area off Nygrån	1106
Skelleftehamn – Gåsören	8346
Sea area off Gåsören	2126
Sea area off Bjuröklubb	2126
Western Quark (W of Holmöarna)	5246
Umeå – Våktaren	1006

Fairway to Husum	1006
Örnsköldsvik – Hörnskatan	5146
Hörnskatan – Skagsudde	5146
Ångermanälven north Sandö Bridge	8344
Ångermanälven south Sandö Bridge	8344
Härnösand – Härnön	4044
Sundsvall – Draghallan	2026
Hudiksvallfjärden	5146
Iggesund – Agö	4046
Sandarne – Hällgrund	4136
Gävle – Eggegrund	4136
Öregrundsgrepen	4136
Hallstavik – Svartklubben	4136
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Stockholm – Södertälje	4046
Södertälje – Fifong	4046
Norrköping – Hargökalv	4046
Fairway to Karlstad	5146
Fairway to Kristinehamn	4046