



Eisbericht Nr. 31

Amtsblatt des BSH

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Übersicht

In der Bottenwiek liegt in den nördlichen Schären 15–50 cm dickes Festeis. Weiter außerhalb folgt im Nordosten sehr dichtes, 15–30 cm dickes Eis und im Nordwesten dünnes ebenes Eis. Außerhalb der Eiskanten bildet sich Neueis. In den südlichen Schären liegt bis 30 cm dickes Festeis und weiter außerhalb treibt Neueis und im Osten auch lockeres, bis 15 cm dickes Eis. In Norra Kvarken liegt bis 30 cm dickes Festeis sowie Neueis weiter außerhalb. Auf See treibt sehr lockeres bis lockeres Eis. 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 15–50 cm thick fast ice in the northern archipelagos. Further out, there is very close 15–30 cm thick ice in the northeast and thin level ice in the northwest. Off the ice edge new ice is forming. In the southern archipelagos, there is up to 30 cm thick fast. Further out is new ice and in the east also open drift ice. In the Quark, there is up to 30 cm thick fast ice in the inner archipelagos and new ice further out. At sea, there is very open to open drift ice. 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 15–50 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 and new ice to 12 nautical miles southwest of the Bothnia-buoy and Merikallat with new ice formation even further out. Off the fast ice in the northwest, there is thin level ice with a minor brash ice barrier

to southeast of Rödkallen. New ice is present further out to Nyggrån and Falkensgrund. In the southern Bay of Bothnia, there is new ice off the coast with open, 5–15 cm thick drift ice further out in the east. With light to moderate frost expected over the next days, ice growth will continue. There will be a slight ice drift to southwest.

The Quark

In the Vaasa archipelago, there is 15–30 cm thick

fast ice to Ensten. Further out new ice is forming

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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with some drifting 5–15 cm thick floes to west of Vaasa lighthouse. Along the Swedish coast, there is 10–20 cm thick fast ice in inner bays and new ice to Holmöarna. At sea, there is very open to

open ice with new ice formation at places. With light, but sometimes also moderate frost, new ice formation may occur at the coast. The ice will drift mostly slightly to the southwest.

Sea of Bothnia

In the east, there is 5–15 cm thick fast ice along the coast. Further out, there is close ice in the north and very open ice in the south. In the west, there is thin level ice in sheltered places. On

Ångermanälven there is 10–30 cm thick fast ice. With mostly light frost along the coast, some new ice formation is possible in sheltered places except the southwestern coast.

Åland Sea

Open ice or very open ice is present in some sheltered places.

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

Archipelago Sea

Open ice is present along the coast and in sheltered places of the archipelago.

With air temperatures mostly slightly above 0 °C, no larger changes are expected.

Gulf of Finland

From St Petersburg to Kotlin, there is very close ice, 10–20 cm thick. Further out open ice. 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. In the west, there is new ice along the

coast. In Lake Saimaa and Saimaa Canal, there is 10–30 cm thick ice.

With air temperatures around 0 °C in the east and slightly above 0 °C in the west, no larger ice formation is expected.

Gulf of Riga

In Väinameri, there is new ice and thin level ice in sheltered areas. A narrow band of very open ice is present near the coast in Pärnu Bay. The fairway

is ice-free.

With air temperatures above 0°C continued ice melt is expected 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

there is new ice in places. With air temperatures above 0°C continued ice melt is expected 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 continued ice melt is expected the coming day.

Swedish Lakes

New ice or thin level ice is present at places along the northeastern coast of Lake Vänern.

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

Skagerrak and Kattegat

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

With mostly light frost some new ice formation may occur in sheltered places.

W. Aldenhoff

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	01.02.
	Vysotsk	-	Ice 1	01.02.
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	IA	22.01.
	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: FREJ, 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.

Norway

Tønsberg inner harbour (Tønsberg): Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size. (17.01.2025)

Russia

From **1st of February** 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 SEMYON DEZHNEV 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, 22.01.2025

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

Finland, 22.01.2025

Röyttä – Etukari	8846
Etukari – Ristinmatala	7356
Ajos – Ristinmatala	7356
Ristinmatala – Kemi 2	5356
Kemi 2 – Kemi 1	5356
Sea area SW of Kemi 1	5356
Kemi 2 – Ulkokrunni – Virpiniemi	7356
Oulu harbours – Kattilankalla	8876
Kattilankalla – Oulu 1	7356
Sea area SW of Oulu 1	5356
High Sea N of the latitude of Marjaniemi	5356
Raahe harbour – Heikinkari	8346
Heikinkari – Raahe lighthouse	5356
Raahe lighthouse – Nahkiainen	5146
Latitude Marjaniemi – Ulkokalla, Sea	2726
Rahja harbour – Välimatala	4046
Vaelimatala to line Ulkokalla – Ykskivi	3136
Sea betw. lat. of Ulkokalla –Pietarsaari	3136
Ykspihlaja – Repskär	8346
Repskär – Kokkola lighthouse	3006
Sea area off Kokkola lighthouse	3006
Pietarsaari – Kallan	8346
Sea area off Kallan	4046
Sea lat. Pietarsaari – NE Nordvalen	3136

Sea area ENE of Nordvalen	2106
Sea area Nordvalen to W of Norrskär	1106
Vaskiluoto – Ensten	8346
Ensten – Vaasa lighthouse	2026
Vaasa lighthouse – Norrskär	2026
Kaskinen – Sälgrund	4045
Sea area off Sälgrund	2025
Pori harb. to line Pori lighth. – Säppi	2021
Rauma, Harbour – Kylmäpihlaja	2021
Kylmäpihlaja – Rauma lighthouse	2021
Uusikaupunki harbour – Kirsta	4041
Naantali and Turku – Rajakari	1000
Inkoo a. Kantvik – sea area Porkkala	3001

Russian Federation, 22.01.2025

Port of St. Petersburg	530/
St. Petersburg – E-point island Kotlin	530/
Vyborg, port and bay	820/
Strait Bjerkessund	300/

Sweden, 22.01.2025

Karlsborg – Malören	8446
Sea area off Malören	5246
Luleå – Björnklack	8446
Björnklack – Farstugrunden	5046
E and SE of Farstugrunden	5046
Sandgrönn fairway	8446
Rödkallen – Norströmsgrund	5366
Haraholmen – Nygrån	8446

Sea area off Nygrån	5046
Skelleftehamn – Gåsören	4236
Sea area off Gåsören	4236
Sea area off Bjuröklubb	4236
NE of Nordvalen	2226
SW of Nordvalen	2226
Western Quark (W of Holmöarna)	5046
Umeå – Väktaren	8346
SE of Väktaren	2226
Örnsköldsvik – Hörnskatan	5146
Hörnskatan – Skagsudde	5146
Ångermanälven north Sandö Bridge	8344
Ångermanälven south Sandö Bridge	8344
Härnösand – Härnön	1004
Sundsvall – Draghallan	1006
Draghallan – Åstholmsudde	1006
Hudiksvallfjärden	5146
Iggesund – Agö	4046
Sandarne – Hällgrund	5146
Gävle – Eggegrund	5146
Öregrundsgrepen	2126
Hallstavik – Svartklubben	4046
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Stockholm – Södertälje	2026
Södertälje – Fifong	1006
Norrköping – Hargökalv	4046
Fairway to Karlstad	5146
Fairway to Kristinehamn	4046