ISSN 0013-2705

BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Eisbericht Nr. 29

Amtsblatt des BSH

Jahrgang 98	Nr. 29	Monday, 20.01.2025	1

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 Neueis und sehr lockeres 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 offenes Wasser 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 new ice and very open ice in the northwest. In the southern archipelagos, there is up to 25 cm thick fast ice open water further out. In the Quark, there is up to 25 cm thick fast ice in the inner archipelagos. 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 and new ice to Bothnia-buoy and Holma. Off the fast ice in the northwest, there is new ice in the north and very open ice further south to about Simpgrund. Drifting floes and ice formation in places. In the southern Bay of Bothnia, there is up to 25 cm fast ice along the coast. Off the coast is thin drift ice and open water in the south.
With light to moderate frost expected over the next days, ice growth will continue.

The Quark

In the Vaasa archipelago, there is first 10–25 cm thick fast ice followed by very close ice to west of Ensten and open water. Along the Swedish coast, there is 10–20 cm thick fast ice in inner bays. Further out, there is open water. With light, but sometimes also moderate, new ice formation may occur at the coast.

Herstellung und Vertrieb
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Sea of Bothnia
In the east, there is 5–15 cm thick fast ice and further out new ice along the coast in the north. In the south is thin level ice. In the west, there is thin level ice in sheltered places. On Ångermanälven there is 5–25 cm thick fast ice. With air temperatures above 0°C continued ice melt is expected the coming day in the west. In the east some ice formation is expected there.

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 slightly below zero, no larger ice formation is expected.

Gulf of Finland
From St Petersburg to Kotlin, 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 in the west, there is new ice. In Lake Saimaa and Saimaa Canal, there is 10–30 cm thick ice. With air temperatures slightly below zero, no larger ice formation is expected.

Gulf of Riga
In Väinameri, there is new ice and thin level ice in sheltered areas. Close ice in Väike väin. A narrow band of 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 in the northeast and at some sheltered places in the south 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 and northern Swedish coast.

With air temperatures around 0°C and with water temperatures largely above 5°C at the outer coast, no larger ice formation is expected.

X. Lange

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi, Oulu and Raahe	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	IB	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: 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 KRUZENSTERN 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 foes – 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 after special permission
8 Navigation temporarily closed
9 Navigation has ceased
/ Unknown

Estonia, 20.01.2025

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

Finland, 20.01.2025

Röyttä – Etukari	8846
Etukari – Ristinmatala	7376
Ajos – Ristinmatala	7756
Ristinmatala – Kemi 2	5376
Kemi 2 – Kemi 1	5046
Sea area SW of Kemi 1	5376
Kemi 2 – Ulkokrunni – Virpiniemi	7376
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	4046
Latitude Marjaniemi – Ulkokalla, Sea	2726
Rahja harbour – Välimatala	4046
Sea betw. lat. of Ulkokalla –Pietarsaari	1006
Ykspihlaja – Repskär	8746
Repskär – Kokkola lighthouse	3006
Pietarsaari – Kallan	8746
Sea area off Kallan	4146
Sea lat. Pietarsaari – NE Nordvalen	1006
Sea area ENE of Nordvalen	1006
Sea area Nordvalen to W of Norrskär	1006
Vaskiluoto – Ensten	8346
Ensten – Vaasa lighthouse	5146
Vaasa lighthouse – Norrskär	1006
Kaskinen – Sälgrund	4045
Sea area off Sälgrund	4045
Pori harb. to line Pori lighth. – Säppi	3001
Rauma, Harbour – Kylmäpihlaja	3001
Uusikaupunki harbour – Kirsta	3032
Naantali and Turku – Rajakari	1000
Inkoo a. Kantvik – sea area Porkkala	2011
Valko Harbour – Täktarn	2021
Hamina – Suurmusta	0//5

Germany, 20.01.2025

Wismar – Walfisch	1000

Russian Federation, 20.01.2025

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

Sweden, 20.01.2025

Karlsborg – Malören	8446
Sea area off Malören	3326
Luleå – Björnklack	8446
Björnklack – Farstugrunden	2326
E and SE of Farstugrunden	2326
Sandgrönn fairway	8346
Rödkallen – Norströmsgrund	3326

Haraholmen – Nygrån	8346
Sea area off Nygrån	2326
Skelleftehamn – Gåsören	2326
Sea area off Gåsören	2326
Sea area off Bjuröklubb	1106
NE of Nordvalen	1106
SW of Nordvalen	1101
Western Quark (W of Holmöarna)	1101
Umeå – Väktaren	1106
SE of Väktaren	1101
Örnsköldsvik – Hörnskaten	5146
Hörnskaten – Skagsudde	5146
Ångermanälven north Sandö Bridge	8344
Ångermanälven south Sandö Bridge	8344
Härnösand – Härnön	1004
Sundsvall – Draghällan	1006
Draghällan – Åstholmsudde	1000
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