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BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Eisbericht Nr. 44

Amtsblatt des BSH

Jahrgang 98	Nr. 44	Monday, 10.02.2025	1

Übersicht

In der Bottenwiek liegt in den nördlichen Schären 15–55 cm dickes Festeis. Auf See treibt im Norden 10–40 cm dickes, sehr dichtes, teilweise aufgeschobenes oder aufgepresstes Eis. In der zentralen Bottenwiek ist offenes Wasser sowie bis 15 cm dickes Treibeis verschiedener Konzentration entlang der Küsten. In den südlichen Schären liegt bis 30 cm dickes Festeis. In Norra Kvarken liegt bis 35 cm dickes Festeis in den Schären. Auf See treibt lockeres Eis. In der Bottensee kommt entlang der Küste im Norden Festeis und im Süden Neueis vor. Im östlichen Finnischen Meerbusen kommt 10–30 cm dickes Eis bis Kotlin sowie bis 15 cm dickes, dichtes Eis weiter westlich vor. In der Vyborg-Bucht liegt bis 20 cm dickes Festeis. Ansonsten tritt ebenes Eis und Neueis lokal in geschützten Gebieten an den Küsten des Schärenmeeres, der Ålandsee, im nördlichen Finnischen Meerbusen sowie im Mälaren und Vänern auf.

Overview

In the Bay of Bothnia, there is 15–55 cm thick fast ice in the northern archipelagos. At sea in the north, there is very close, 10-40 cm thick and partly ridged or rafted ice. In the central Bay of Bothnia is open water and up to 15 cm thick drift ice of varying concentration along the coasts. In the southern archipelagos, there is up to 30 cm thick fast ice. In the Quark, there is up to 35 cm thick fast ice in the inner archipelagos and open ice at sea. Along the coast of the Sea of Bothnia there is mostly fast ice in the north and new ice in the south. In the eastern Gulf of Finland, there is 10–30 cm thick ice to Kotlin and very close, up to 15 cm thick ice further west. In the Vyborg Bay, there is up to 20 cm thick fast ice. 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 as well as Lake Mälaren and Vänern.

Bay of Bothnia

In the northern Bay of Bothnia, there is 15–55 cm thick fast ice to Kemi 3 and Oulu 3 in the east. Off the fast ice, there is 15–35 cm consolidated ice in the east and rafted thin level ice in the west. Further out 15-40 cm thick ridged very close ice with adjacent very open ice up to about Simpgrund. In the central part of the Bay of Bothnia there is open water with very open to close up to 15 cm thick drift ice. In the southern Bay of Bothnia, there is up to 30 cm thick fast ice in the archipelagos. Further out and at sea there is 2-10 cm thick open ice with very open ice at places. With continuous light to moderate frost, ice formation will continue the coming days.

Herstellung und Vertrieb
Bundesamt für Seeschifffahrt und Hydrographie (BSH)
www.bsh.de/eis
www.bsh.de/ice

Eisauskünfte / Ice Information
Telefon: +49 (0) 381 4563 -780
Telefax: +49 (0) 381 4563 -949
E-Mail: ice@bsh.de

The Quark
In the Vaasa archipelago, there is 15–35 cm thick fast ice to Ensten. Along the Swedish coast, there is 10–30 cm fast ice in bays and new ice and thin level ice further out. At sea, there is thin ice or new ice of varying concentration. With air temperatures around 0 °C or light frost some ice may form the coming day.

Sea of Bothnia
In the east, there is 5–20 cm thick fast ice in sheltered places along the coast, with new ice and thin level ice further out. In the west, there is thin level ice or fast ice in sheltered places. On Ångermanälven there is 10–40 cm thick fast ice and in the bay to Hudiksvall is up to 30 cm thick ice. In the southern part is new ice and thin level ice along the coast.
With mostly light frost, some new ice formation is possible along the coast the coming day.

Åland Sea
Very thin or new ice is present in sheltered places along the coast. With air temperatures around 0 °C no larger changes are expected the coming day.

Archipelago Sea
In the inner archipelagos, new ice is present in sheltered places along the coast. With air temperatures around 0 °C no larger changes are expected the coming day.

Gulf of Finland
From St Petersburg to Kotlin, there is very close ice, 10–30 cm thick. Further west, there is close ice, 3–15 cm thick. In Vyborg Bay, there is 10–20 cm thick fast ice and close ice in the entrance. Along the northern coast there is thin level ice in sheltered places, up to 15 cm thick in the eastern part. New ice is present further out in the east. In Lake Saimaa and Saimaa Canal, there is 10–40 cm thick ice.
With continuous light frost, ice formation will continue the coming days.

Gulf of Riga
In Väinameri, there is new ice in shallow bays along the coast. The Fairway is ice-free. With some light frost, ice growth will continue the coming day.

Northern Baltic
On Lake Mälaren there is 3–10 cm thick level ice with new ice in the western part. The central part is mostly ice-free. In the eastern part there is new ice. With air temperatures around 0 °C or light frost some ice may form the coming day.

Swedish Lakes
New or thin level ice is present at some places along the north-eastern coast of Lake Vänern. With some light frost new ice may form in sheltered places.

Skagerrak and Kattegat
New ice may be found in some sheltered places along the Norwegian coast. With some light frost, ice growth will continue the coming day.

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.
	Tornio, Kemi and Oulu	**2000 dwt**	**IA**	**12.02.**
	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**	**11.02.**
	Vyborg	**-**	**Ice 1**	**15.02.**
	Vysotsk	**-**	**Ice 1**	**15.02.**
Sweden	Karlsborg and Luleå	2000 dwt	IB	07.01.
	Karlsborg	**4000 dwt**	**IA**	**11.02.**
	Luleå	**2000 dwt**	**IA**	**12.02.**
	Haraholmen and Skelleftehamn	2000 dwt	IC	07.01.
	Haraholmen and Skelleftehamn	**2000 dwt**	**IB**	**12.02.**
	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,	2000 dwt	II	11.01.
	Köping and Västerås	2000 dwt	IC	07.01.
	Bålsta	2000 dwt	II	15.01.
	Bålsta	**2000 dwt**	**IC**	**15.02.**

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, **YMER**, 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 **15th of February** tow boat-barges will not be assisted to Vyborg and Vysotsk. Vessels without ice class may navigate with icebreaker assistance only.
From **11th of February** tow boat-barges will not be assisted to St. Petersburg. Vessels without ice class may navigate with icebreaker assistance only.

Icebreakers: MUDYUG, SEMYON DEZHNEV, KAPITAN SOROKIN and IVAN KRUZENSTERN 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, 10.02.2025

Paernu, port and bay	10/0

Finland, 10.02.2025

Röyttä – Etukari	8446
Etukari – Ristinmatala	7356
Ajos – Ristinmatala	7356
Ristinmatala – Kemi 2	6356
Kemi 2 – Kemi 1	5856
Sea area SW of Kemi 1	5856
Kemi 2 – Ulkokrunni – Virpiniemi	7356
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	7356
Sea area SW of Oulu 1	5856
High Sea N of the latitude of Marjaniemi	5856
Raahe harbour – Heikinkari	7756
Heikinkari – Raahe lighthouse	5756
Raahe lighthouse – Nahkiainen	4146
Latitude Marjaniemi – Ulkokalla, Sea	4146
Rahja harbour – Välimatala	5146
Vaelimatala to line Ulkokalla – Ykskivi	4146
Sea betw. lat. of Ulkokalla –Pietarsaari	4146
Ykspihlaja – Repskär	7756
Repskär – Kokkola lighthouse	5756
Sea area off Kokkola lighthouse	4146
Pietarsaari – Kallan	8346
Sea area off Kallan	4146
Sea lat. Pietarsaari – NE Nordvalen	3136
Sea area ENE of Nordvalen	3136
Sea area Nordvalen to W of Norrskär	4046
Vaskiluoto – Ensten	8346
Ensten – Vaasa lighthouse	5146
Vaasa lighthouse – Norrskär	2026
Rauma, Harbour – Kylmäpihlaja	2001
Uusikaupunki harbour – Kirsta	2001
Valko Harbour – Täktarn	5142
Kotka – Viikari	5142
Viikari – Orrengrund	4041
Hamina – Suurmusta	4045
Suurmusta – Merikari	4045

Russian Federation, 10.02.2025

Port of St. Petersburg	830/
St. Petersburg – E-point island Kotlin	830/
E-point Kotlin – long. lighth. Tolbuhkin	830/
Lighth. Tolbuhkin – lighth. –Šepelevskij	520/
Lighthouse Šepelevskij – island Sescar	510/
Vyborg, port and bay	830/
Island Vichrevoj – Island Sommers	410/
Strait Bjerkesund	810/
E-point Bol'šoj Ber'ozovyj – Šepelevskij	810/

Sweden, 10.02.2025

Karlsborg – Malören	8546
Sea area off Malören	5356
Luleå – Björnklack	8446
Björnklack – Farstugrunden	5456
E and SE of Farstugrunden	5456
Sandgrönn fairway	8446
Rödkallen – Norströmsgrund	5456
Haraholmen – Nygrån	8446
Sea area off Nygrån	4046
Skelleftehamn – Gåsören	6336
Sea area off Gåsören	6336
Sea area off Bjuröklubb	5336
NE of Nordvalen	3126
SW of Nordvalen	3126
Western Quark (W of Holmöarna)	4236
Umeå – Väktaren	8346
SE of Väktaren	4046
Fairway to Husum	5046
Örnsköldsvik – Hörnskaten	8346
Hörnskaten – Skagsudde	8346
Fairway W of Ulvöarna	4046
Ångermanälven north Sandö Bridge	8444
Ångermanälven south Sandö Bridge	8444
Härnösand – Härnön	5144
Sundsvall – Draghällan	4046
Draghällan – Åstholmsudde	4046
Hudiksvallfjärden	8346
Iggesund – Agö	5246
Sandarne – Hällgrund	5146
Gävle – Eggegrund	5146
Hallstavik – Svartklubben	4041
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Stockholm – Södertälje	4041
Södertälje – Fifong	2020
Fairway to Karlstad	5142
Fairway to Kristinehamn	5142