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BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Eisbericht Nr. 43

Amtsblatt des BSH

Jahrgang 98	Nr. 43	Friday, 07.02.2025	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. Auf See treibt meist Neueis und im Westen dichtes, bis 15 cm dickes Eis. In Norra Kvarken liegt bis 35 cm dickes Festeis in den Schären. Auf See treibt im Norden und entlang der Küsten Neueis sowie dünnes Eis verschiedener Konzentration. In der Bottensee kommt entlang der Küste im Norden Festeis und im Süden sehr lockeres Eis vor. Im östlichen Finnischen Meerbusen kommt 10–30 cm dickes Eis bis Kotlin sowie bis 15 cm dickes, sehr dichtes Eis weiter westlich bis in den Bjerkesund 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. At sea, there is mostly new ice with close, up to 15 cm thick ice in the west. In the Quark, there is up to 35 cm thick fast ice in the inner archipelagos. At sea in the north and along the coasts, there is new ice and thin ice of varying concentration. Along the coast of the Sea of Bothnia there is mostly fast ice in the north and very open 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 to the Bjerkesund. 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 thin level ice in the west. Further out in the east, there is thin rafted ice to Kemi 1, Oulun portti and Raahe. North of about 65°00'N, there is 10–40 cm thick, partly ridged and rafted ice. In the central part of the Bay of Bothnia there is open water with very open to close up t0 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 in the west, there is 3–15 cm thick, close ice. At

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sea, there is new ice.
With mostly light frost and south-westerly winds, some ice may form also at sea over the weekend. The ice will continue to drift towards northeast.

The Quark
In the Vaasa archipelago, there is 15–35 cm thick fast ice to Ensten and very open thin ice further out. Along the Swedish coast, there is 10–30 cm fast ice in bays and new ice further out. At sea, there is thin ice or new ice of varying concentration north of about Nordvalen and Valassaaret.
With air temperatures around 0 °C some ice growth along the coast is possible over the weekend. The ice will drift in northerly directions.

Sea of Bothnia
In the east, there is 5–20 cm thick fast ice in sheltered places along the coast, with very open 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 very open thin ice along the coast.
With temperatures slightly above or around 0 °C no larger changes are expected.

Åland Sea
Very thin or new ice is present in sheltered places along the coast.
With some light frost, no major changes are expected over the weekend, but new ice may form in sheltered places.

Archipelago Sea
In the inner archipelagos, there is very open ice to open water.
With mostly light frost, some new ice formation is possible in sheltered areas over the weekend.

Gulf of Finland
From St Petersburg to Kotlin, there is very close ice, 10–30 cm thick. Further west, there is very close, 3–15 cm thick ice to about lighthouse Šepelevskij and along the coast to the Bjerkesund. Along the southern coast from Kotlin to Šepelevskij is a lead with very open ice. In Vyborg Bay, there is 10–20 cm thick fast ice and new 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. Very open or new ice is present further out in the east. In Lake Saimaa and Saimaa Canal, there is 10–40 cm thick ice.
With mostly light to moderate frost some ice formation is expected especially in the east over the weekend. The ice will drift slightly in northerly directions.

Gulf of Riga
In Väinameri, there are remains of thin ice and new ice in inner sheltered bays.
With some light frost, new ice may form in sheltered places over the weekend.

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 in few places.
With air temperatures around 0 °C or light frost some ice may form especially in the western part.

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

Skagerrak and Kattegat
New ice may be found in some sheltered places along the Norwegian coast.
With air temperatures mostly around 0 °C no larger changes are expected over the weekend.

W. Aldenhoff

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.

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 **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

Finland, 07.02.2025

Röyttä – Etukari	8446
Etukari – Ristinmatala	7356
Ajos – Ristinmatala	7356
Ristinmatala – Kemi 2	6356
Kemi 2 – Kemi 1	5156
Sea area SW of Kemi 1	5356
Kemi 2 – Ulkokrunni – Virpiniemi	7356
Oulu harbours – Kattilankalla	8446
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	5046
Raahe lighthouse – Nahkiainen	4146
Latitude Marjaniemi – Ulkokalla, Sea	5356
Rahja harbour – Välimatala	5146
Vaelimatala to line Ulkokalla – Ykskivi	5046
Sea betw. lat. of Ulkokalla –Pietarsaari	4146
Ykspihlaja – Repskär	7746
Repskär – Kokkola lighthouse	4746
Sea area off Kokkola lighthouse	5046
Pietarsaari – Kallan	8346
Sea area off Kallan	5046
Sea lat. Pietarsaari – NE Nordvalen	5046
Sea area ENE of Nordvalen	2026
Sea area Nordvalen to W of Norrskär	0//6
Vaskiluoto – Ensten	8346
Ensten – Vaasa lighthouse	5146
Vaasa lighthouse – Norrskär	1006
Kaskinen – Sälgrund	2125
Sea area off Sälgrund	2125
Pori harb. to line Pori lighth. – Säppi	2121
Rauma, Harbour – Kylmäpihlaja	1101
Uusikaupunki harbour – Kirsta	1001
Valko Harbour – Täktarn	2021
Kotka – Viikari	2021
Viikari – Orrengrund	2021
Hamina – Suurmusta	4045

Russian Federation, 07.02.2025

Port of St. Petersburg	530/
St. Petersburg – E-point island Kotlin	530/
E-point Kotlin – long. lighth. Tolbuhkin	510/
Lighth. Tolbuhkin – lighth. –Šepelevskij	510/
Vyborg, port and bay	820/
Island Vichrevoj – Island Sommers	400/
Strait Bjerkesund	510/
E-point Bol'šoj Ber'ozovyj – Šepelevskij	400/

Sweden, 07.02.2025

Karlsborg – Malören	8546
Sea area off Malören	5336
Luleå – Björnklack	8446
Björnklack – Farstugrunden	5356
E and SE of Farstugrunden	5336
Sandgrönn fairway	8446
Rödkallen – Norströmsgrund	5456

Haraholmen – Nygrån	8446
Sea area off Nygrån	2226
Skelleftehamn – Gåsören	6336
Sea area off Gåsören	6336
Sea area off Bjuröklubb	5336
NE of Nordvalen	2126
SW of Nordvalen	2126
Western Quark (W of Holmöarna)	4236
Umeå – Väktaren	8346
Fairway to Husum	4046
Örnsköldsvik – Hörnskaten	8346
Hörnskaten – Skagsudde	8346
Sea area off Skagsudde	4046
Fairway W of Ulvöarna	4046
Ångermanälven north Sandö Bridge	8444
Ångermanälven south Sandö Bridge	8444
Härnösand – Härnön	5144
Sundsvall – Draghällan	4046
Draghällan – Åstholmsudde	1006
Hudiksvallfjärden	8346
Iggesund – Agö	5246
Sandarne – Hällgrund	5146
Ljusnefjärden – Storjungfrun	2026
Gävle – Eggegrund	5146
Hallstavik – Svartklubben	4041
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Södertälje – Fifong	2020
Fairway to Karlstad	5142
Fairway to Kristinehamn	2020