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BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Eisbericht Nr. 39

Amtsblatt des BSH

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Übersicht

In der Bottenwiek liegt in den nördlichen Schären 15–55 cm dickes Festeis. Weiter außerhalb befindet sich im Norden Neueis und meist bis 40 cm dickes, sehr dichtes Treibeis. Weiter südlich treibt dichtes Eis, bis zu 20 cm dick im Westen und bis zu 30 cm dick im Osten. In den südlichen Schären liegt bis 30 cm dickes Festeis und weiter außerhalb treibt lockeres bis dichtes Eis. In Norra Kvarken liegt bis 30 cm dickes Festeis sowie Neueis und lockeres Eis. Auf See ist offenes Wasser. In der Bottensee kommt entlang der Küste im Norden Festeis und im Süden dünnes Eis vor. Im östlichen Finnischen Meerbusen kommt 10–30 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 15–55 cm thick fast ice in the northern archipelagos. Further out in the north, there is mainly new ice and very close, up to 40 cm thick drift ice. Further south there is up to 20 cm thick close ice in the west and up to 30 cm thick close ice in the east. In the southern archipelagos, there is up to 30 cm thick fast ice. Further out is open to close ice. In the Quark, there is up to 30 cm thick fast ice in the inner archipelagos and new ice and open ice further out. At sea is open water. 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 10–30 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 15–55 cm of fast ice to Kemi 3 and Liberta. Off the fast ice there is 15–35 cm of very close ice to the east and thin level ice to the west. From Malören through Holma to Raahe lighthouse a 5-20 nautical miles wide lead has opened with ice formation and in places thick floes. Further out to Nahkiainen 10-35 cm thick, in places ridged, close ice. In the southern Bay of Bothnia, there is up to 30 cm thick fast ice in the archipelagos. Further out is open to close ice along the coasts.

With continuous light to moderate frost, ice formation will continue the coming day. A weak SW-W ice drift is possible.

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. Further out, there is new ice and thin level ice in the south and close ice and open ice in north. Along the Swedish coast, there is 10–20 cm fast ice in bays and thin open ice further out. From Sydostbrotten to Nordvalen is thin close ice. At sea, there is mainly open water with thin drift ice at places. With continuous light to moderate frost, ice formation will continue the coming day.

Sea of Bothnia
In the east, there is 5–20 cm of fast ice in sheltered places along the coast, with some new ice formation further out to the north. 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. South of Hudiksvall is very open ice and open water in sheltered places. With continuous light to moderate frost, ice formation will continue the coming day.

Åland Sea
Open ice or very thin ice are present in some sheltered places. With air temperatures mostly around 0°C no larger changes are expected the coming day.

Archipelago Sea
In the inner archipelagos, there is very thin open ice. With some light frost 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 out there is new ice. In Vyborg Bay, there is 10–20 cm thick fast ice. Along the northern coast there is thin level ice in the east and open ice in the west. In Lake Saimaa and Saimaa Canal, there is 10–35 cm thick ice. With continuous light to moderate frost, ice formation will continue the coming days.

Gulf of Riga
In Väinameri, there are remains of thin ice in inner sheltered bays. With air temperatures mostly around 0°C no larger changes are expected the coming day.

Northern Baltic
On Lake Mälaren there is 2–10 cm thick level ice with ice-free areas in the western part. The central part is ice-free. In the eastern part there is new ice in few places. With air temperatures mostly around 0°C no larger changes are expected the coming day.

Swedish Lakes
Remains of new or thin level ice are present at places along the northeastern coast of Lake Vänern. With temperatures slightly above the freezing point, some slow ice melt is possible the coming day.

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 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.
	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.
	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,	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 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, 03.02.2025

Röyttä – Etukari	8446
Etukari – Ristinmatala	7356
Ajos – Ristinmatala	7356
Ristinmatala – Kemi 2	5356
Kemi 2 – Kemi 1	5156
Sea area SW of Kemi 1	4046
Kemi 2 – Ulkokrunni – Virpiniemi	7356
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	7356
Sea area SW of Oulu 1	5456
High Sea N of the latitude of Marjaniemi	5456
Raahe harbour – Heikinkari	8346
Heikinkari – Raahe lighthouse	4046
Raahe lighthouse – Nahkiainen	4356
Latitude Marjaniemi – Ulkokalla, Sea	5356
Rahja harbour – Välimatala	5146
Vaelimatala to line Ulkokalla – Ykskivi	3736
Sea betw. lat. of Ulkokalla –Pietarsaari	4146
Ykspihlaja – Repskär	7746
Repskär – Kokkola lighthouse	5746
Sea area off Kokkola lighthouse	3736
Pietarsaari – Kallan	8346
Sea area off Kallan	3736
Sea lat. Pietarsaari – NE Nordvalen	3736
Sea area ENE of Nordvalen	4146
Sea area Nordvalen to W of Norrskär	4146
Vaskiluoto – Ensten	8346
Ensten – Vaasa lighthouse	4046
Vaasa lighthouse – Norrskär	4046
Sea area SW of Norrskär	3136
High sea from N to latitude Yttergrund	1005

Russian Federation, 03.02.2025

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

Sweden, 03.02.2025

Karlsborg – Malören	8546
Sea area off Malören	4046
Luleå – Björnklack	8446
Björnklack – Farstugrunden	4046
E and SE of Farstugrunden	4046
Sandgrönn fairway	8446
Rödkallen – Norströmsgrund	5256
Haraholmen – Nygrån	8446
Sea area off Nygrån	4046
Skelleftehamn – Gåsören	5336
Sea area off Gåsören	5336
Sea area off Bjuröklubb	5336
NE of Nordvalen	4236
SW of Nordvalen	4236
Western Quark (W of Holmöarna)	3226
Umeå – Väktaren	8346
SE of Väktaren	3226
NE and SE of Sydostbrotten	4236

Örnsköldsvik – Hörnskaten	8346
Hörnskaten – Skagsudde	8346
Ångermanälven north Sandö Bridge	8444
Ångermanälven south Sandö Bridge	8444
Härnösand – Härnön	5144
Hudiksvallfjärden	8346
Iggesund – Agö	5246
Sandarne – Hällgrund	5146
Gävle – Eggegrund	5146
Hallstavik – Svartklubben	4041
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Fairway to Karlstad	5142
Fairway to Kristinehamn	4041