



Eisbericht Nr. 37

Amtsblatt des BSH

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Nr. 37

Thursday, 30.01.2025

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Übersicht

In der Bottenwiek liegt in den nördlichen Schären 15–50 cm dickes Festeis. Weiter außerhalb befindet sich im Norden dünnes ebenes Eis und bis 40 cm dickes, sehr dichtes Treibeis. In den südlichen Schären liegt bis 30 cm dickes Festeis und weiter außerhalb treibt sehr lockeres bis dichtes Eis. In Norra Kvarken liegt bis 30 cm dickes Festeis und offenes Wasser weiter außerhalb. 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 15–50 cm thick fast ice in the northern archipelagos. Further out in the north, there is thin level ice and very close, up to 40 cm thick drift ice. In the southern archipelagos, there is up to 30 cm thick fast. Further out is very open to close ice. In the Quark, there is up to 30 cm thick fast ice in the inner archipelagos and open water further out. 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 15–50 cm thick fast ice to Kemi 3 and Liberta. Further out in the north, 10–40 cm thick very close ice and level ice is present to about Bothnia-buoy and Holma. Areas of open water and cracks have opened to the ice field. Farther out 5–20 cm thick drift ice of varying concentration to approximately 20 nautical miles southwest of Bothnia buoy. Off Raahe 10–30 cm thick ice approximately to Jaakko. Farther out

thin mainly open ice approximately to Nahkiainen. In the southern Bay of Bothnia, there is up to 30 cm thick fast ice in the archipelagos. Further out is very open to ice along the eastern coast and open to close ice along the western coast.

With mostly light frost some new ice formation is expected in the northern part. The ice will drift to the southeast.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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The Quark

In the Vaasa archipelago, there is 15–30 cm thick fast ice to Ensten. Further out, there is mostly open water and very open ice with some drift ice at places. Along the Swedish coast, there is 10–20 cm

fast ice in bays and open ice to Holmöarna. With mostly light frost some new ice formation is expected the coming days. Ice may drift to the east.

Sea of Bothnia

In the east, there is 5–20 cm thick fast and level ice along the coast. 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 thin level ice in some sheltered places. With air temperatures mostly slightly above or around 0°C, no larger changes are expected the coming day.

Åland Sea

Open ice or very thin ice are present in some sheltered places.

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

Archipelago Sea

In the inner archipelagos, there is very thin open ice.

With air temperatures above 0°C continued ice melt is 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 some thin drifting ice along the coast to Bjerkesund. 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 and open ice in the west. In Lake Saimaa and Saimaa Canal, there is 10–30 cm thick ice. With air temperatures above 0°C continued ice melt is expected the coming day.

Gulf of Riga

In Väinameri, there are remains of thin ice in inner sheltered bays.

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 ice-free areas. The central part is ice-free. In the eastern part there is new ice

in few places. With temperatures around freezing point, no major changes in the ice situation are expected.

Swedish Lakes

Remains of new or thin level ice are present at places along the northeastern coast of Lake Vänern.

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

Skagerrak and Kattegat

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

With temperatures around freezing point, no major changes in the ice situation are expected.

X. Lange

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	11.02.
	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,	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 **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 **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, 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 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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Finland, 30.01.2025

Röyttä – Etukari	8446
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	5746
Raahe lighthouse – Nahkiainen	3736
Latitude Marjaniemi – Ulkokalla, Sea	4146
Rahja harbour – Välimatala	2126
Välimatala to line Ulkokalla – Ykskivi	2126
Sea betw. lat. of Ulkokalla – Pietarsaari	3136
Ykspihlaja – Repskär	8346
Repskär – Kokkola lighthouse	3136
Sea area off Kokkola lighthouse	2126
Pietarsaari – Kallan	8346
Sea area off Kallan	3136
Sea lat. Pietarsaari – NE Nordvalen	3136
Sea area ENE of Nordvalen	3136
Sea area Nordvalen to W of Norrskär	2126
Vaskiluoto – Ensten	8346
Ensten – Vaasa lighthouse	3136

Vaasa lighthouse – Norrskär	3136
Sea area SW of Norrskär	2126
Kaskinen – Sälgrund	1105
Sea area off Sälgrund	1105
High sea from N to latitude Yttergrund	2125
Naantali and Turku – Rajakari	1000
Valko Harbour – Täktarn	1001
Kotka – Viikari	1001
Hamina – Suurmusta	0//5

Russian Federation, 30.01.2025

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

Sweden, 30.01.2025

Karlsborg – Malören	8446
Sea area off Malören	5256
Luleå – Björnklack	8446
Björnklack – Farstugrunden	5456
E and SE of Farstugrunden	5456
Sandgrönn fairway	8446
Rödskallen – Norströmsgrund	5356
Haraholmen – Nygrån	8446
Sea area off Nygrån	4236
Skelleftehamn – Gåsören	4236
Sea area off Gåsören	4236
Sea area off Bjuröklubb	4236

NE of Nordvalen	1106
SW of Nordvalen	1106
Western Quark (W of Holmöarna)	4236
Umeå – Väktaren	8346
SE of Väktaren	3226
Örnsköldsvik – Hörnskatan	5146
Hörnskatan – Skagsudde	5146
Ångermanälven north Sandö Bridge	8444
Ångermanälven south Sandö Bridge	8444
Härnösand – Härnön	5144
Draghällan – Åstholmsudde	2026
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