



Eisbericht Nr. 36

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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 Oulu 2. Further out in the north, 10–40 cm thick very close ice and level ice is present to about the line Nygrån – Farstugrunden – Oulu 1. Off Raahe, there is 10–30 cm thick ice approximately to Jaakko. Farther out, there is close, 5–20 cm thick drift ice out to about Merikallat and 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 southwest.

The Quark

In the Vaasa archipelago, there is 15–30 cm thick fast ice to Ensten. Further out, there is mostly open water with some drift ice at places. Along the Swe-

dish coast, there is 10–20 cm fast ice in bays and very open ice to Holmöarna.

With air temperatures mostly around 0°C, no larger

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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ice formation is expected the coming day with

southwesterly ice drift.

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 the westernmost tip of island 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 air temperatures above 0°C continued ice melt is 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 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 air temperatures above 0°C continued ice melt is expected the coming day.

W. Aldenhoff

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	2000 dwt	II	07.01.
	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.
	Öregrund, Hargshamn, Hallstavik, Grisslehamn, Kappelskär, Stockholm, Nynäshamn, Södertälje, Oxelösund and Norrköping	-	cancelled	29.01.
	Köping and Västerås	2000 dwt	IC	07.01.
	Bålsta	2000 dwt	II	15.01.
	Trollhätte Canal and Göta Älv	-	cancelled	29.01.
	Vänern	-	cancelled	29.01.

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: MUDJUG, IVAN KRUIZENSTERN 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, 29.01.2025

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	4746
Latitude Marjaniemi – Ulkokalla, Sea	4746
Rahja harbour – Välimatala	3136
Välimatala to line Ulkokalla – Ykskivi	3136
Sea betw. lat. of Ulkokalla – Pietarsaari	3136
Ykskivilaja – Repskär	8346
Repskär – Kokkola lighthouse	2126
Sea area off Kokkola lighthouse	2126
Pietarsaari – Kallan	8346
Sea area off Kallan	1106
Sea lat. Pietarsaari – NE Nordvalen	2126
Sea area ENE of Nordvalen	1106
Vaskiluoto – Ensten	8346
Ensten – Vaasa lighthouse	5146
Vaasa lighthouse – Norrskär	0//6

Kaskinen – Sälgrund	2125
Uusikaupunki harbour – Kirsta	2001
Naantali and Turku – Rajakari	1000
Valko Harbour – Täktarn	1001
Kotka – Viikari	1001
Hamina – Suurmusta	0//5

Russian Federation, 29.01.2025

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

Sweden, 29.01.2025

Karlsborg – Malören	8446
Sea area off Malören	5456
Luleå – Björnklack	8446
Björnklack – Farstugrunden	5256
E and SE of Farstugrunden	5256
Sandgrönn fairway	8446
Rödskallen – Norströmsgrund	5256
Haraholmen – Nygrån	8446
Sea area off Nygrån	4236
Skelleftehamn – Gåsören	2226
Sea area off Gåsören	2226
Sea area off Bjuröklubb	3226
Western Quark (W of Holmöarna)	2226
Umeå – Väktaren	8346
Örnsköldsvik – Hörnskatan	5146

Hörnskatan – Skagsudde	5146
Ångermanälven north Sandö Bridge	8444
Ångermanälven south Sandö Bridge	8444
Härnösand – Härnön	5144
Sundsvall – Draghällan	4046
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