

Eisbericht Nr. 32

Amtsblatt des BSH

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Nr. 32

Thursday, 23.01.2025

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Übersicht

In der Bottenwiek liegt in den nördlichen Schären 15–50 cm dickes Festeis. Weiter außerhalb folgt im Nordosten sehr dichtes, 15–30 cm dickes Eis und im Nordwesten dünnes ebenes Eis. Außerhalb der Eiskanten bildet sich Neueis. In den südlichen Schären liegt bis 30 cm dickes Festeis und weiter außerhalb treibt Neueis und im Osten auch dichtes, bis 15 cm dickes Eis. In Norra Kvarken liegt bis 30 cm dickes Festeis sowie lockeres Eis weiter außerhalb. Auf See treibt lockeres bis dichtes Eis. In der Bottensee kommt entlang der Küste im Norden Festeis und im Süden dünnes Eis vor. Im östlichen Finnischen Meerbusen kommt 10–20 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, there is very close 15–30 cm thick ice in the northeast and thin level ice in the northwest. Off the ice edge new ice is forming. In the southern archipelagos, there is up to 30 cm thick fast. Further out is new ice and in the east also close drift ice. In the Quark, there is up to 30 cm thick fast ice in the inner archipelagos and open ice further out. At sea, there is open to close drift ice. 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 10–20 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; in the east approximately to Kemi-3 and Hammasmatala. From the southern part of Nukkujanmatala southwards between Merikallat and Hailuoto runs a lead with new ice. Further out in the northeast, there is mostly 15–30 cm thick very close ice and new ice to 12 nautical miles southwest of the Bothnia-buoy and Merikallat with

new ice formation even further out. Off the fast ice in the northwest, there is thin level ice with a minor brash ice barrier to southeast of Rödkallen. New ice is present further out to Nyggrån and Falkensgrund. In the southern Bay of Bothnia, there is new ice off the coast with close, 5–15 cm thick drift ice further out in the east. With mostly light frost, ice growth will continue the coming day.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

www.bsh.de/ice

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The Quark

In the Vaasa archipelago, there is 15–30 cm thick fast ice to Ensten. Further out open ice with some drifting 5–15 cm thick floes to west of Vaasa light-house. Along the Swedish coast, there is 10–20 cm thick fast ice in inner bays and new ice to

Holmöarna. At sea, there is open to close ice with new ice formation at places. With air temperatures mostly around 0 °C, no larger changes are expected.

Sea of Bothnia

In the east, there is 5–20 cm thick fast ice along the coast. Further out, there is close ice in the north and thin level and new ice in the south. In the west, there is thin level ice in sheltered places and

new ice further out. On Ångermanälven there is 10–30 cm thick fast ice. With air temperatures mostly slightly above 0 °C, no larger changes are expected.

Åland Sea

Open ice or very open ice is present in some sheltered places.

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

Archipelago Sea

Open ice is present along the coast and in sheltered places of the archipelago.

With air temperatures mostly slightly above 0 °C, no larger changes are expected.

Gulf of Finland

From St Petersburg to the westernmost tip of island Kotlin, there is very close ice, 10–20 cm thick. Further out open ice. In the upper part of Vyborg Bay, there is 10–20 cm thick fast ice. There is new ice along the northern coast. Further out there is

open and very open ice in places. In Lake Saimaa and Saimaa Canal, there is 10–30 cm thick ice. With air temperatures mostly above 0°C some ice melt is expected the coming day.

Gulf of Riga

In Väinameri, there is new ice and thin level ice in sheltered areas. Pärnu Bay is ice-free.

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 some areas of very open ice. The central part is ice-free. In the eastern part

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

Central Baltic

Remains of new ice may be found at some sheltered places along the northern Swedish coast.

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

Swedish Lakes

New ice or thin level ice is present at places along the northeastern coast of Lake Vänern.

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

Skagerrak and Kattegat

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

With mostly light frost some new ice formation may occur in sheltered places.

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	28.01.
	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, Öregrund, Hargshamn, Hallstavik, Grisslehamn, Kappelskär, Stockholm, Nynäshamn, Södertälje, Oxelösund and Norrköping	2000 dwt	II	11.01.
	Köping and Västerås	2000 dwt	IC	07.01.
	Bålsta	2000 dwt	II	15.01.
	Trollhätte Canal and Göta Älv	2000 dwt	II	11.01.
	Vänern	2000 dwt	II	11.01.

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 **28th of January** tow boat-barges will not be assisted to St. Petersburg. Vessels without ice class may navigate with icebreaker assistance only.

Icebreakers: 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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Estonia, 23.01.2025

Moonsund 1//0

Finland, 23.01.2025

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 5356

Raahe lighthouse – Nahkiainen 5146

Latitude Marjaniemi – Ulkokalla, Sea 4756

Rahja harbour – Välimatala 5046

Välimatala to line Ulkokalla – Ykskivi 4146

Sea betw. lat. of Ulkokalla – Pietarsaari 4146

Ykspihlaja – Repskär 8346

Repskär – Kokkola lighthouse 4146

Sea area off Kokkola lighthouse 4146

Pietarsaari – Kallan 8346

Sea area off Kallan 3136

Sea lat. Pietarsaari – NE Nordvalen 4146

Sea area ENE of Nordvalen 4146

Sea area Nordvalen to W of Norrskär 1106

Vaskiluoto – Ensten 8346

Ensten – Vaasa lighthouse 3136

Vaasa lighthouse – Norrskär 3136

Kaskinen – Sälgrund 4145

Sea area off Sälgrund 4145

Pori harb. to line Pori lighth. – Säppi 2021

Rauma, Harbour – Kylmäpihlaja 2021

Kylmäpihlaja – Rauma lighthouse 2021

Uusikaupunki harbour – Kirsta 4041

Naantali and Turku – Rajakari 1000

Inkoo a. Kantvik – sea area Porkkala 2001

Russian Federation, 23.01.2025

Port of St. Petersburg 530/

St. Petersburg – E-point island Kotlin 530/

Vyborg, port and bay 820/

Sweden, 23.01.2025

Karlsborg – Malören 8446

Sea area off Malören 5246

Luleå – Björnklack 8446

Björnklack – Farstugrunden 5356

E and SE of Farstugrunden 5356

Sandgrönn fairway 8446

Rödskallen – Norströmsgrund 5246

Haraholmen – Nygrån 8446

Sea area off Nygrån	4356
Skelleftehamn – Gåsören	4356
Sea area off Gåsören	4356
Sea area off Bjuröklubb	4356
NE of Nordvalen	3226
SW of Nordvalen	3226
Western Quark (W of Holmöarna)	5246
Umeå – Väktaren	8346
SE of Väktaren	3226
Fairway to Husum	4046
Örnsköldsvik – Hörnskatan	5146
Hörnskatan – Skagsudde	5146
Sea area off Skagsudde	4046
Fairway W of Ulvöarna	4046
Ångermanälven north Sandö Bridge	8344
Ångermanälven south Sandö Bridge	8344
Härnösand – Härnön	4044
Sundsvall – Draghällan	4046
Draghällan – Åstholmsudde	4046
Off Åstholmsudde and Brämön	4046
Hudiksvallfjärden	5246
Iggesund – Agö	5246
Sandarne – Hällgrund	5146
Gävle – Eggegrund	5146
Öregrundsgrepen	2126
Hallstavik – Svartklubben	4046
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Stockholm – Södertälje	2026
Södertälje – Fifong	1006
Norrköping – Hargökalv	4046
Fairway to Karlstad	5146
Fairway to Kristinehamn	4046