



Eisbericht Nr. 25

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Übersicht

In der Bottenwiek liegt in den nördlichen Schären 15–45 cm dickes Festeis. Weiter außerhalb folgt im Nordosten sehr dichtes, 10–30 cm dickes Eis und im Nordwesten sehr dichtes bis lockeres, 5–20 cm dickes Eis sowie sehr lockeres Eis. In den südlichen Schären liegt bis 25 cm dickes Festeis und etwas weiter außerhalb treibt sehr lockeres oder lockeres Eis. In Norra Kvarken liegt bis 25 cm dickes Festeis entlang der Küsten und auf See ist im Norden meist offenes Wasser. In der Bottensee kommt entlang der Küste meist dünnes Eis vor. Im östlichen Finnischen Meerbusen kommt 10–20 cm dickes Eis vor St. Petersburg und am Ende 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 15–45 cm thick fast ice in the northern archipelagos. Further out, there is very close 10–30 cm thick ice in the northeast and very close to open, 5–20 cm thick ice as well as very open ice in the northwest. In the southern archipelagos, there is up to 25 cm thick fast ice and very open or open ice further out. In the Quark, there is up to 25 cm thick fast ice in the inner archipelagos and open water in the northern part at sea. Along the coast of the sea of Bothnia there is mostly thin ice. In the eastern Gulf of Finland, there is 10–20 cm thick ice at St. Petersburg and in the top of 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 15–45 cm thick fast ice; in the east approximately to Kemi-3 and Hammasmatala. Further out in the northeast, there is mostly 5–30 cm thick very close ice to Kemi-1 and Oulu-2. Off the fast ice in the northwest there is very close to open, 5–20 cm thick ice to south of Farstugrunden and very open ice further out. Off the fast ice from Piteå to Bjuröklubb, there is open to close, 5–20 cm thick drift ice. South of

Simpgrund is some very close drifting ice. In the southern Bay of Bothnia, there is up to 25 cm fast ice along the coast. Off the coast is very open ice in the east and open ice in the west.

With some light frost and first northerly and later southerly winds at sea no larger new ice formation is expected. The ice will drift first southwards and later northwards.

The Quark

In the Vaasa archipelago, there is 10–25 cm thick

of fast ice to Ensten and thin ice further west to

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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Norra Glöppsten. Along the Swedish coast there is 10–20 cm thick fast ice in inner bays. Further out, there is 3–10 cm thick open ice to and north of Holmöarna. Else, there is open water at sea in the

north.

With air temperatures around or slightly above 0 °C no larger changes are expected.

Sea of Bothnia

In the east, there is thin level ice along the coast in the north and new ice in the south. Along the coast in the west, there is thin level ice and new ice. On Ångermanälven there is 5–20 cm thick fast ice.

South of Hudiksvall there is 3–8 cm thick ice along the coast.

With air temperatures mostly around 0°C no larger changes are expected the coming day.

Åland Sea

New ice is present in some sheltered places. With air temperatures mostly slightly above 0°C

some ice melt is expected the coming day.

Archipelago Sea

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

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

Gulf of Finland

From St Petersburg to lighthouse Tolbushin there is very close ice, 10–20 cm thick. Further west to lighthouse Šepelevskij, there is new ice. In the upper part of Vyborg Bay, there is 10–20 cm thick fast ice. Along the north coast, there is thin level ice in inner bays and new ice further out. In Lake

Saimaa and Saimaa Canal, there is 10–30 cm thick ice.

With temperatures around 0 °C no larger changes are expected the coming day with some ice melt in the western part.

Gulf of Riga

In Väinameri, there is new ice and thin level ice in some sheltered areas. New ice is present at places in Pärnu Bay.

With air temperatures slightly above 0°C no larger changes are 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 and

along the outer coast there is new ice in places. With some night frost but day temperatures above 0°C ice melt may occur.

Central Baltic

New ice is present at some sheltered places along the northern the Swedish coast.

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

Swedish Lakes

New ice is present in the northeast and at some sheltered places in the south of Lake Vänern.

With some night frost but day temperatures above 0°C ice melt may occur.

Skagerrak and Kattegat

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

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

Dr. 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	I	11.01.
	Lake Saimaa and Saimaa Canal	2000 dwt	IB	16.01.
Russia	Vyborg	-	Ice 1	24.01.
	Vysotsk	-	Ice 1	24.01.
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	IB	07.01.
	Ångermanälven	2000 dwt	IB	07.01.
	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: 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.

Russia

From 24th of January tow boat-barges will not be assisted to Vyborg and Vysotsk. Vessels without ice class may navigate with icebreaker assistance only.

Icebreakers: IVAN KRUZENSTERN and K. PLAKHIN 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, 14.01.2025

Paernu, port and bay	10/0
Moonsund	1//0

Finland, 14.01.2025

Röyttä – Etukari	8846
Etukari – Ristinmatala	7756
Ajos – Ristinmatala	7756
Ristinmatala – Kemi 2	5756
Kemi 2 – Kemi 1	5776
Sea area SW of Kemi 1	2726
Kemi 2 – Ulkokrunni – Virpiniemi	7756
Oulu harbours – Kattilankalla	8876
Kattilankalla – Oulu 1	7376
Sea area SW of Oulu 1	0//6
High Sea N of the latitude of Marjaniemi	0//6
Raahe harbour – Heikinkari	8246
Heikinkari – Raahe lighthouse	5356
Raahe lighthouse – Nahkiainen	0//6
Latitude Marjaniemi – Ulkokalla, Sea	0//6
Rahja harbour – Välimatala	2126
Vaelimatala to line Ulkokalla – Ykskivi	2126
Sea betw. lat. of Ulkokalla – Pietarsaari	0//6
Ykspihlaja – Repskär	8746
Repskär – Kokkola lighthouse	2126
Sea area off Kokkola lighthouse	0//6
Pietarsaari – Kallan	8746
Sea area off Kallan	2126
Sea lat. Pietarsaari – NE Nordvalen	1106

Sea area ENE of Nordvalen	1106
Sea area Nordvalen to W of Norrskär	0//6
Vaskiluoto – Ensten	8346
Ensten – Vaasa lighthouse	4146
Vaasa lighthouse – Norrskär	0//6
Sea area SW of Norrskär	0//6
Kaskinen – Sälgrund	5145
Sea area off Sälgrund	1005
Pori harb. to line Pori lighth. – Säppi	1000
Rauma, Harbour – Kylmäpihlaja	2021
Uusikaupunki harbour – Kirsta	4041
Naantali and Turku – Rajakari	1000
Inkoo a. Kantvik – sea area Porkkala	2011
Helsinki harbours – Harmaja	1000
Valko Harbour – Täktarn	5142

Russian Federation, 14.01.2025

Port of St. Petersburg	520/
St. Petersburg – E-point island Kotlin	520/
E-point Kotlin – long. lighth. Tolbuhkin	510/
Lighth. Tolbuhkin – lighth. – Šepelevskij	300/
Vyborg, port and bay	820/

Sweden, 14.01.2025

Karlsborg – Malören	8446
Sea area off Malören	5356
Luleå – Björklack	8446
Björklack – Farstugrunden	5336
E and SE of Farstugrunden	3326

Sandgrönn fairway	5336
Rödkallen – Norströmsgrund	3326
Haraholmen – Nygrån	8346
Sea area off Nygrån	2326
Skelleftehamn – Gåsören	8346
Sea area off Gåsören	3326
Sea area off Bjuröklubb	2326
Western Quark (W of Holmöarna)	5246
Umeå – Väktaren	8346
Örnsköldsvik – Hörnskatan	5146
Hörnskatan – Skagsudde	5146
Ångermanälven north Sandö Bridge	8344
Ångermanälven south Sandö Bridge	8344
Härnösand – Härnön	4044
Sundsvall – Draghallan	2026
Hudiksvallfjärden	5146
Iggesund – Agö	4046
Sandarne – Hällgrund	4136
Ljusnefjärden – Storjungfrun	2126
Gävle – Eggegrund	4136
Öregrundsgrepen	4136
Hallstavik – Svartklubben	4136
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Stockholm – Södertälje	4041
Södertälje – Fifong	4041
Norrköping – Hargökalv	4046
Fairway to Karlstad	5146
Fairway to Kristinehamn	4046