

Eisbericht Nr. 17

Amtsblatt des BSH

Jahrgang 98

Nr. 17

Thursday, 02.01.2025

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Übersicht

In der Bottenwiek liegt in den nördlichen Schären 10–25 cm dickes Festeis gefolgt von ebenem Eis und anschließend örtlich dichtes bis sehr dichtes, dünnes Eis. Weiter südlich kommt bis in die Bottensee hinein dünnes ebenes Eis und Neueis entlang der Küste vor. Im östlichen Finnischen Meerbusen kommt 5–10 cm dickes Eis von St.Petersburg nach Kotlin und am Ende der Vyborg-Bucht vor. Ansonsten kommt in geschützten Gebieten örtlich Neueis an den Küsten des Schärenmeers, der Ålandsee, sowie im Norden des Finnischen Meerbusens, vor.

Overview

In the Bay of Bothnia, there is 10–25 cm thick, fast ice in the northern archipelagos, followed by level ice and further out locally close to very close, thin ice. Further south there is thin level ice and new ice along the coast down to the Sea of Bothnia. In the eastern Gulf of Finland, there is 5–10 cm thick ice from St.Petersburg to Kotlin and in the top of Vyborg bay. Else, there is new ice at some sheltered places along the northern coast of the Gulf of Finland, the Archipelago Sea and the Åland Sea.

Bay of Bothnia

In the northern Bay of Bothnia 10-25 cm thick fast ice and thin level ice in the archipelago approximately to Kemi 3 and Kattilankalla. Further out 5-15 cm thick, in places rafted ice approximately to Nukkujanmatala and Oulu 4. At the ice edge a brash ice barrier. In the north west

patches of close ice. Further out, new ice along the Swedish and Finnish coasts. Off Raahe thin ice and shuga to Heikinkari. With light to moderate frost expected over the next few days, new ice formation and ice growth will occur. With winds from the north, southward drifting ice is possible.

The Quark

In the Vaasa archipelago, there is 5-15 cm thick of fast ice and very close ice as far as Ensten. New ice is forming further out. New ice along the Swedish coast as far as Nordvalen. Thin level ice in

sheltered places. With light to moderate frost expected over the next days, new ice formation and ice growth will occur at places at the coast

Sea of Bothnia

In the east, there is new ice along the coast. In the west, there is thin level ice and new ice in inner inlets, and further south, new ice in some sheltered areas. On the Ångermanälven there is 5-15 cm

thick level ice. With light to moderate frost expected over the next days, new ice formation and ice growth will occur at places at the coast.

Herstellung und Vertrieb

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Åland Sea

New ice is present in some sheltered places.

With mostly light frost no larger ice formation is expected

Archipelago Sea

New ice is present in some sheltered places.

With mostly light frost no larger ice formation is expected.

Gulf of Finland

From St. Petersburg to Kotlin there is very close, 5–10 cm thick ice, further out level ice and new ice. In the top of Vyborg Bay, there is 5-10 cm thick level ice. In sheltered places along the northern coast there is new ice. In Lake Saimaa and

Saimaa Canal, there is thin level ice and new ice, the large sweeps in the southern Lake Saimen are partly open. With mostly light frost some new ice formation is expected in sheltered areas.

Dr. X.Lange

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi, Oulu and Raahе	2000 dwt	I	31.12.
	Kalajoki	2000 dwt	II	25.12.
	Kalajoki	2000 dwt	I	07.01.
	Kokkola, Pietarsaari and Vaasa	2000 dwt	II	21.12.
	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	II	11.12.
Sweden	Karlsborg and Luleå	2000 dwt	II	07.12.
	Karlsborg and Luleå	2000 dwt	IC	04.01.
	Karlsborg and Luleå	2000 dwt	IB	07.01.
	Haraholmen	2000 dwt	II	22.12.
	Skelleftehamn	2000 dwt	II	23.12.
	Haraholmen and Skelleftehamn	2000 dwt	IC	07.01.
	Holmsund, Rundvik, Husum Örns- köldsvik and Köpmanholmen	2000 dwt	II	07.01.
	Ångermanälven	2000 dwt	IC	22.12.
	Ångermanälven	2000 dwt	IB	07.12.
	Köping	1300/2000 dwt	IC/II	22.12.
	Köping and Västerås	2000 dwt	IC	07.01.

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 and **OTSO** assist in the Bay of Bothnia. TYRSKY assists in the Lake Saimaa.

Russia

Icebreakers: SEMYON DEZHNEV 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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Finland, 02.01.2025

Röyttä – Etukari	8746
Etukari – Ristinmatala	8746
Ajos – Ristinmatala	5156
Ristinmatala – Kemi 2	5166
Kemi 2 – Kemi 1	3106
Sea area SW of Kemi 1	3106
Kemi 2 – Ulkokrunni – Virpiniemi	8746
Oulu harbours – Kattilankalla	5156
Kattilankalla – Oulu 1	5166
Sea area SW of Oulu 1	3006
Raahe harbour – Heikinkari	5146
Heikinkari – Raahe lighthouse	3006
Rahja harbour – Välimatala	4045
Ykspihlaja – Repskär	5145
Repskär – Kokkola lighthouse	5045
Pietarsaari – Kallan	5155
Sea area off Kallan	5045
Vaskiluoto – Ensten	5145
Ensten – Vaasa lighthouse	3005
Kaskinen – Sälgrund	3001

Sweden, 02.01.2025

Karlsborg – Malören	8346
Luleå – Björnklack	8346
Björnklack – Farstugrunden	4046
Sandgrönn fairway	4046
Rödskallen – Norströmsgrund	4136
Haraholmen – Nygrån	5246
Sea area off Nygrån	4046
Skelleftehamn – Gåsören	5146
Sea area off Gåsören	4046
Sea area off Bjuröklubb	5142
NE of Nordvalen	4041
SW of Nordvalen	4041
Western Quark (W of Holmöarna)	5041
Umeå – Väktaren	5142
SE of Väktaren	4041
Örnsköldsvik – Hörnskatan	5041
Ångermanälven north Sandö Bridge	5244
Ångermanälven south Sandö Bridge	5244
Sundsvall – Draghällan	5041
Hudiksvallfjärden	4041
Iggesund – Agö	4041
Fairway to Karlstad	4041