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BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Eisbericht Nr. 4

Amtsblatt des BSH

Jahrgang 98	Nr. 4	Tuesday, 10.12.2024	1

Übersicht

In der nördlichen Bottenwiek befindet sich in den inneren Schären 5–10 cm dickes, ebenes Eis sowie Neueis weiter außerhalb. In der südlichen Bottenwiek, Norra Kvarken, der Bottensee, der Ålandsee, dem Schärenmeer, dem Finnischen Meerbusen, im Mälarsee und dem nördlichen Rigaischen Meerbusen kommt Neueis in geschützten Gebieten vor.

Overview

In the northern Bay of Bothnia, there is 5–10 cm thick, level ice in the inner archipelagos and new ice further out. In the southern Bay of Bothnia, the Quark, the Sea of Bothnia, the Åland Sea, the Archipelago Sea, the Gulf of Finland, Lake Mälaren and the northern Gulf of Riga, new ice is present in sheltered places.

Bay of Bothnia

In the inner archipelagos of the Bay of Bothnia, there is 5–10 cm thick level ice. New ice is present further out in the north and in sheltered places in the southern Bay of Bothnia.
With temperatures mostly above 0 °C some ice melt is expected the coming day.

The Quark

New ice is present in sheltered places along the coast.

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

Sea of Bothnia

New ice is present in sheltered places along the northern coasts. 5–10 cm thick, level ice and new ice is present on Ångermanälven. In the southern Sea of Bothnia, new ice is present in a few sheltered places.

With temperatures mostly above 0°C some ice melt may occur. Along the southern Swedish coast minor ice formation is expected with temperatures around 0°C.

Åland Sea

New ice is present in some sheltered places.
With temperatures around or slightly below 0°C some ice formation is expected the coming day.

Archipelago Sea

New ice is present in few sheltered places.

With temperatures around 0°C no larger changes

Herstellung und Vertrieb
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are expected the coming day.

Gulf of Finland
Some new ice is present in the Bay of Vyborg and at places along the northern coast. In Lake Saimaa and Saimaa Canal, there is thin level ice and new ice at places.

With temperatures mostly around 0°C or light frost some ice formation is expected mostly in the eastern part.

Gulf of Riga
New ice is present in some sheltered places in Väinameri.

With temperatures mostly slightly above 0°C no larger changes but some ice melt may occur.

Northern Baltic
In Lake Mälaren new ice is present at sheltered places.

With temperatures mostly around or slightly below 0°C some coastal ice formation may occur.

Dr. W. Aldenhoff

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	**Lake Saimaa**	**2000 dwt**	**II**	**11.12.**
	Saimaa Canal	**2000 dwt**	**II**	**11.12.**
Sweden	Karlsborg and Lulea	2000 dwt	II	07.12.
	Angermanälven	1300/2000 dwt	IC/II	07.12.

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.

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 foes – 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 after special permission
8 Navigation temporarily closed
9 Navigation has ceased
/ Unknown

Finland, 10.12.2024

Röyttä – Etukari	5142
Ajos – Ristinmatala	4041
Oulu harbours – Kattilankalla	5041

Sweden, 10.12.2024

Karlsborg – Malören	4046
Luleå – Björnklack	5146
Örnsköldsvik – Hörnskaten	4041
Ångermanälven north Sandö Bridge	4044
Ångermanälven south Sandö Bridge	4044
Hallstavik – Svartklubben	4041