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BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Eisbericht Nr. 13

Amtsblatt des BSH

Jahrgang 98	Nr. 13	Monday, 23.12.2024	1

Übersicht

In der Bottenwiek befindet sich in den inneren Schären 5–20 cm dickes, ebenes Eis und Neueis. Weiter auf See kommt Neueis vor. In Norra Kvarken liegt dünnes ebenes Eis und Neueis in Schären und Buchten. In der Bottensee liegt entlang der Küsten in einigen Buchten Neueis und im Norden vereinzelt auch dünnes ebenes Eis. Im östlichen Finnischen Meerbusen kommt 5–10 cm dickes Eis von St.Petersburg nach Kotlin und am Ende der Vyborg-Bucht vor. Ansonsten kommt örtlich Neueis in geschützten Gebieten entlang der nördlichen Küste im Finnischen Meerbusen, dem Schärenmeer, der Ålandsee, dem Mälarsee und im nordöstlichen Vänern vor.

Overview

In the Bay of Bothnia, there is 5–20 cm thick, level ice and new ice in the inner archipelagos. Further out at sea there is new ice. In the Quark, there is thin level ice at places and new ice in bays and archipelagos. In the Sea of Bothnia, there is new ice in some bays along the coast and thin level ice at places in the north. 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, the Åland Sea, Lake Mälaren and the north-eastern Lake Vänern.

Bay of Bothnia

In the inner archipelagos of the Bay of Bothnia, there is 5–15 cm thick level ice with locally 5-15cm thick, very close ice at the edge of the level ice. Farther out thin ice and new-ice is found up to Bothnia buoy and Nahkiainen.
With moderate frost, new ice formation and ice growth are expected till tomorrow. The ice will drift to the west to southwest.

The Quark

In the Vaasa archipelago, there is thin ice to west of Störhasten, locally there is very close ice at the edge of the level ice. Along the Swedish coast, there is thin level ice and new ice in sheltered places.
With temperatures mostly below 0 °C some ice formation is expected.

Sea of Bothnia

Along the northern Swedish coast, there is thin level ice and new ice in inner bays. Further south, there is new ice at sheltered places. 5–15 cm thick, level ice is present on Ångermanälven. Along the Finnish coast, there is new ice.
Some ice may form in the north, while in the south the situation is expected to remain unchanged.

Herstellung und Vertrieb
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Åland Sea
New ice is present in some sheltered places. No larger changes are expected.

Archipelago Sea
New ice is present in sheltered places along the coast. No larger changes are expected.

Gulf of Finland
From St. Petersburg Kotlin there is very close, 5–10 cm thick. In the top of Vyborg Bay, there is 5-10cm 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 at places.
No larger changes are expected.

Northern Baltic
In Lake Mälaren new ice is present at sheltered places. No larger changes are expected.

Skagerrak and Kattegat
New ice may be found in very few sheltered Norwegian fjords. No larger changes are expected.

Swedish Lakes
New ice is present at some sheltered places in the northeast of Lake Vänern. No larger changes are expected.

Dr. J.Holfort

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi, Oulu, Kokkola, Pietarsaari and Vaasa	2000 dwt	II	21.12.
	Raahe and Kalajoki	**2000 dwt**	**II**	**25.12.**
	Lake Saimaa	2000 dwt	II	11.12.
	Saimaa Canal	2000 dwt	II	11.12.
Sweden	Karlsborg and Lulea	2000 dwt	II	07.12.
	Haraholmen	2000 dwt	II	22.12.
	Skeleftehamn	**2000 dwt**	**II**	**23.12.**
	Angermanälven	2000 dwt	IC	22.12.
	Köping	1300/2000 dwt	IC/II	22.12.

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.

Icebreakers: KONTIO and **ALE** assist in the Bay of Bothnia. MATARI assists in the northern 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 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, 23.12.2024

Röyttä – Etukari	8745
Etukari – Ristinmatala	5155
Ajos – Ristinmatala	5155
Ristinmatala – Kemi 2	5155
Kemi 2 – Kemi 1	5155
Sea area SW of Kemi 1	4045
Kemi 2 – Ulkokrunni – Virpiniemi	8745
Oulu harbours – Kattilankalla	5155
Kattilankalla – Oulu 1	4045
Sea area SW of Oulu 1	4045
High Sea N of the latitude of Marjaniemi	4045
Raahe harbour – Heikinkari	5042
Heikinkari – Raahe lighthouse	3021
Raahe lighthouse – Nahkiainen	3021
Rahja harbour – Välimatala	5042
Vaelimatala to line Ulkokalla – Ykskivi	4041
Ykspihlaja – Repskär	5145
Repskär – Kokkola lighthouse	4045
Sea area off Kokkola lighthouse	4045
Pietarsaari – Kallan	5145
Sea area off Kallan	4045
Vaskiluoto – Ensten	5145
Ensten – Vaasa lighthouse	0//5

Russian Federation, 23.12.2024

Port of St. Petersburg	510/
St. Petersburg – E-point island Kotlin	510/
E-point Kotlin – long. lighth. Tolbuhkin	510/
Vyborg, port and bay	810/

Sweden, 23.12.2024

Karlsborg – Malören	5256
Sea area off Malören	4046
Luleå – Björnklack	8346
Björnklack – Farstugrunden	4046
Sandgrönn fairway	4046
Rödkallen – Norströmsgrund	4046
Haraholmen – Nygrån	4046
Sea area off Nygrån	4046
Skelleftehamn – Gåsören	4046
Sea area off Bjuröklubb	5142
Umeå – Väktaren	5142
SE of Väktaren	4041
Örnsköldsvik – Hörnskaten	4041
Ångermanälven north Sandö Bridge	5244
Ångermanälven south Sandö Bridge	5244
Sundsvall – Draghällan	5041
Hudiksvallfjärden	4041
Iggesund – Agö	4041
Ljusnefjärden – Storjungfrun	4041
Köping – Kvicksund	5144
Fairway to Karlstad	4041