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BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Eisbericht Nr. 5

Amtsblatt des BSH

Jahrgang 96	Nr. 5	Friday, 02.12.2022	1

Übersicht

In den inneren Schären der Bottenwiek befindet sich dünnes, ebenes Eis und Neueis. In Kvarken und der nördlichen Bottensee bildet sich Eis in geschützten Gebieten. Im Finnischen Meerbusen befindet sich Neueis von St. Petersburg bis zur Insel Kotlin und in der Bucht von Vyborg. Im Nordosten des Rigaischen Meerbusen bildet sich Eis entlang der Küste.

Overview

In the inner archipelagos of the Bay of Bothnia, there is thin level ice or new ice. In the Quark and the northern Bay of Bothnia new ice forms in sheltered bays. In the Gulf of Finland, there is new ice from St. Petersburg to the island Kotlin and in the Bay of Vyborg. In the northeastern Gulf of Finland new ice is forming along the coast.

Bay of Bothnia

New ice and thin level ice is present in the archipelagos of the northern Bay of Bothnia and between Hailuoto and the mainland. New ice is forming in sheltered areas of the southern bay.
New ice formation is expected over the weekend.

The Quark

New ice formation takes place in sheltered inner bays.

New ice formation is expected over the weekend.

Gulf of Finland

New ice or thin level ice is present from St. Petersburg to the island Kotlin and in the Bay of Vyborg. Ice formation has started on Lake Saimaa and in places along the northern coast.
New ice formation is expected in the eastern part and along the coasts over the weekend.

Gulf of Riga

New ice is forming in sheltered bays of Väinameri and the northeastern Gulf of Riga.

New ice formation is expected over the weekend.

Dr. W. Aldenhoff

Herstellung und Vertrieb
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Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio and Kemi	2000 dwt	II	01.12.
Sweden	**Karlsborg and Lulea**	**2000 dwt**	**II**	**05.12.**

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:
Tugboats assist in the Bay of Bothnia

Russia
There are restrictions for small crafts going to Vysotsk, Vyborg, St. Petersburg, Ust-Luga and Primorsk.

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

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

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

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, 02.12.2022
Röyttä – Etukari 5145
Etukari – Ristinmatala 2025
Ajos – Ristinmatala 2025

Russian Federation, 02.12.2022

Port of St. Petersburg	51/1
St. Petersburg – E-point island Kotlin	51/1
E-point Kotlin – long. lighth. Tolbuhkin	3000
Vyborg, port and bay	50/1

Sweden, 02.12.2022

Karlsborg – Malören	5142
Luleå – Björnklack	5041
Sandgrönn fairway	4041