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BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Eisbericht Nr. 16

Amtsblatt des BSH

Jahrgang 98	Nr. 16	Monday, 30.12.2024	1

Übersicht

In der Bottenwiek liegt in den nördlichen Schären 5–25 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 in Schären und Buchten 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, dem Mälarsee sowie im Norden des Finnischen Meerbusens, vor.

Overview

In the Bay of Bothnia, there is 5–25 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 in bays and archipelagos 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, the Åland Sea and Lake Mälaren.

Bay of Bothnia

In the inner archipelago of the northern Bay of Bothnia, there is 5-25 cm thick fast ice, and further out in the archipelago there is 5-15 cm thick level ice. In the northeast there is 5-15 cm thick, very close ice at the edge of the level ice. At the ice edge is a brash ice barrier difficult to force. Outside the narrower fast ice in the northwest there is open water with stripes of close to very close, thin ice. In the south there is thin level ice in the archipelago in the east and further out thin shuga and some stripes of thin ice off the coast.
Ice will continue to form over the next few days as moderate to severe frost persists and winds slowly veer from the west to the north. Southward drifting ice is possible.

The Quark

In the Vaasa archipelago, there is 5-15cm thick level ice to west of Störhasten and further out to Ensten there is thin shuga in places. Along the Swedish coast, there is thin level ice and new 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.

Herstellung und Vertrieb
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Sea of Bothnia
In the north there is thin level ice and new ice in inner bays, further south, there is new ice at some sheltered places. 5–15 cm thick, level ice is present on Ångermanälven. With light to moderate frost expected over the next days, new ice formation and ice growth will occur at places at the coast.

Åland Sea
New ice is present in some sheltered places. With air temperatures first around 0°C and later light to moderate frost, some new ice may form in sheltered areas over the next days.

Archipelago Sea
New ice is present in some sheltered places. With air temperatures first around 0°C and later light to moderate frost, some new ice may form in sheltered areas over the next days.

Gulf of Finland
From St. Petersburg to Kotlin there is very close, 5–10 cm thick 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 are partly open. With air temperatures first around 0°C and later light to moderate frost, some new ice may form in sheltered areas over the next days.

Northern Baltic
In Lake Mälaren new ice is present in sheltered places. With air temperatures first around 0°C and later light to moderate frost, some new ice may form in the next days.

Dr. X.Lange

The ice service wishes all its readers a Happy New Year!
The next report will be published on Thursday, 02.01.2025

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.
	Tornio, Kemi and Oulu	**2000 dwt**	**I**	**31.12.**
	Raahe and Kalajoki	2000 dwt	II	25.12.
	Raahe	**2000 dwt**	**I**	**31.12.**
	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.
	Skelleftehamn	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. TYRSKY assists in the Lake Saimaa. **OTSO** is heading to the Bay of Bothnia.

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, 30.12.2024

Röyttä – Etukari	8745
Etukari – Ristinmatala	5155
Ajos – Ristinmatala	5155
Ristinmatala – Kemi 2	5165
Kemi 2 – Ulkokrunni – Virpiniemi	8745
Oulu harbours – Kattilankalla	5155
Kattilankalla – Oulu 1	5155
High Sea N of the latitude of Marjaniemi	0//5
Raahe harbour – Heikinkari	5155
Heikinkari – Raahe lighthouse	0//5
Rahja harbour – Välimatala	1105
Sea betw. lat. of Ulkokalla –Pietarsaari	0//5
Ykspihlaja – Repskär	5145
Repskär – Kokkola lighthouse	1105
Pietarsaari – Kallan	5155
Sea area off Kallan	0//5
Sea lat. Pietarsaari – NE Nordvalen	0//5
Vaskiluoto – Ensten	5155
Ensten – Vaasa lighthouse	1105

Russian Federation, 30.12.2024

Port of St. Petersburg	410/
St. Petersburg – E-point island Kotlin	410/
E-point Kotlin – long. lighth. Tolbuhkin	410/
Vyborg, port and bay	810/

Sweden, 30.12.2024

Karlsborg – Malören	5236
Luleå – Björnklack	8346
Björnklack – Farstugrunden	1206
Sandgrönn fairway	5256
Rödkallen – Norströmsgrund	1206
Haraholmen – Nygrån	5246
Skelleftehamn – Gåsören	4046
Sea area off Bjuröklubb	5142
Umeå – Väktaren	5142
Örnsköldsvik – Hörnskaten	5041
Ångermanälven north Sandö Bridge	5244
Ångermanälven south Sandö Bridge	5244
Sundsvall – Draghällan	5041
Hudiksvallfjärden	4041
Iggesund – Agö	4041
Fairway to Karlstad	4041