



Eisbericht Nr. 11

Amtsblatt des BSH

Jahrgang 98

Nr. 11

Thursday, 19.12.2024

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Übersicht

In der Bottenwiek befindet sich in den inneren Schären 5–15 cm dickes, ebenes Eis und Neueis. Auf See im Nordosten kommt Neueis und offenes Wasser vor. In Norra Kvarken liegt dünnes ebenes Eis und Neueis in Schären und Buchten. In der Bottensee liegt meist Neueis entlang der Küsten und im Norden vereinzelt auch dünnes ebenes Eis. Im östlichen Finnischen Meerbusen kommt 5–10 cm dickes Eis und Neueis bis westlich vom Leuchtturm Tolbuchin vor. Ansonsten kommt Neueis in geschützten Gebieten entlang der nördlichen Küste im Finnischen Meerbusen, dem Schärenmeer, der Ålandsee, dem Mälarsee, im Väinameri und im nordöstlichen Vänern vor.

Overview

In the Bay of Bothnia, there is 5–15 cm thick, level ice and new ice in the inner archipelagos. At sea in the northeast, there is new ice and open water. 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 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 and new ice to west of lighthouse Tolbuchin. Else, there is new ice at sheltered places along the northern coast of the Gulf of Finland, the Archipelago Sea, the Åland Sea, Lake Mälaren, Väinameri 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. Along the level ice edge, broken new ice is piled up at places. New ice or open water are found further out. At sea in the northeast there is new ice and open water.

With light to moderate frost, new ice formation and ice growth are expected the coming day. With a fresh to strong breeze from the north, the ice will drift southwards and hamper new ice formation at open sea.

The Quark

In the Vaasa archipelago, there is 2–10 cm thick level ice in the inner archipelago. New ice and open water are found further out to about Strömningsbådan. Along the Swedish coast, there is thin

level ice and new ice in sheltered places. With temperatures dropping slightly below 0 °C during night no larger changes are expected but some ice formation is possible.

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. 5–10 cm thick,

level ice is present on Ångermanälven. Along the Finnish coast, there is new ice. With temperatures slightly above 0 °C in the south

Herstellung und Vertrieb

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and some light frost in the northern part no larger

changes are expected the coming day.

Aland Sea

New ice is present in some sheltered places.
With temperatures mostly above 0°C no larger

changes are expected the coming day.

Archipelago Sea

New ice is present in sheltered places along the coast.

With temperatures mostly above 0°C no larger changes are expected the coming day.

Gulf of Finland

From St. Petersburg to lighthouse Tolbushin, there is very close, 5–10 cm thick ice and new ice further west to Cape Seraya Loshad. In Vyborg Bay, there is thin level ice in the inner bay and new ice further out. In sheltered places along the northern coast and in the Bjerkesund, there is new ice. In Lake

Saimaa and Saimaa Canal, there is thin level ice and new ice at places.

With temperatures around and slightly above 0 °C in the western part, no larger changes are expected but some ice melt in the western part.

Gulf of Riga

New ice is present in some sheltered places in Väinameri.

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

Northern Baltic

In Lake Mälaren new ice is present at sheltered places.

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

Skagerrak and Kattegat

New ice may be found in very few sheltered Norwegian fjords.

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

Swedish Lakes

New ice is present at some sheltered places in the northeast of Lake Vänern.

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

Dr. W. Aldenhoff

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.
	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	1300/2000 dwt	IC/II	07.12.
	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: MATARI assists in the northern Lake Saimaa. **KONTIO** is heading to the Bay of Bothnia.

Russia

Icebreakers: SEMYON DEZHNEV assists vessels to the port of St. Petersburg.

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, 19.12.2024

Röyttä – Etukari	5152
Etukari – Ristinmatala	5152
Ajos – Ristinmatala	5152
Ristinmatala – Kemi 2	5042
Kemi 2 – Kemi 1	5142
Sea area SW of Kemi 1	4041
Kemi 2 – Ulkokrunni – Virpiniemi	5042
Oulu harbours – Kattilankalla	5152
Kattilankalla – Oulu 1	4041
Sea area SW of Oulu 1	4041
High Sea N of the latitude of Marjaniemi	2001
Raahe harbour – Heikinkari	5042

Heikinkari – Raahe lighthouse	4041
Raahe lighthouse – Nahkiainen	1001
Rahja harbour – Välimatala	4041
Ykspihlaja – Repskär	4041
Repskär – Kokkola lighthouse	1001
Pietarsaari – Kallan	4041
Vaskiluoto – Ensten	5142
Ensten – Vaasa lighthouse	1001

Russian Federation, 19.12.2024

Port of St. Petersburg	510/
St. Petersburg – E-point island Kotlin	510/
E-point Kotlin – long. lighth. Tolbuhkin	510/

Lighth. Tolbuhkin – lighth. –Šepelevskij	400/
Vyborg, port and bay	810/
Strait Bjerkesund	300/
E-point Bol'šoj Ber'ozovyj – Šepelevskij	300/

Sweden, 19.12.2024

Karlsborg – Malören	5256
Sea area off Malören	4046
Luleå – Björnklack	5256
Sandgrönn fairway	1006
Haraholmen – Nygrån	5242
Umeå – Väktaren	5142
Örnsköldsvik – Hörnskatan	4041
Ångermanälven north Sandö Bridge	5144
Ångermanälven south Sandö Bridge	5144
Hudiksvallfjärden	4041
Iggesund – Agö	4041
Köping – Kvicksund	5142
Grönsö – Södertälje	4041
Stockholm – Södertälje	4041
Fairway to Karlstad	4041
Fairway to Kristinehamn	4041