

Eisbericht Nr. 12

Amtsblatt des BSH

Jahrgang 97

Nr. 12

Thursday, 30.11.2023

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Übersicht

In der nördlichen Bottenwiek befindet sich in den Schären bis 30 cm dickes Festeis oder ebenes Eis. Weiter außerhalb treibt bis zu 15 cm dickes, meist lockeres bis dichtes Eis oder Neueis. Weiter im Süden kommt, bis in die Bottensee hinein, an den Küsten Neueis oder dünnes, ebenes Eis vor. Auch in einigen geschützten Stellen des Schärenmeers, der Ålandsee, im Rigaischen Meerbusen und Finnischen Meerbusen kommt Neueis vor.

Overview

In the northern Bay of Bothnia there is up to 30 cm thick fast ice or level ice in the archipelagos and up to 15 cm thick, mostly open to close ice or new ice is drifting further out. Further south, there is new ice and thin level ice in places along the coast down to the Sea of Bothnia. New ice is present also in sheltered places in the Archipelago Sea, the Åland Sea, the Gulf of Riga and the Gulf of Finland.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia there is up to 30 cm thick fast ice or level ice. Further out in the northwest there is a mix of level ice and up to 15 cm thick open to very close ice extending to about Nygrån, Rödkallen and north of Malören. Off the level ice in the northeast there is first a belt of new ice and further out 5–15 cm thick open to close drift ice to about Oulu-1 and south-

west of Merikallat. Off Raahe there is thin level ice and further out at sea there is thin drifting ice or new ice to Nahkiainen. Further south there is thin level ice and new ice along the coast and ice formation in places farther out.

With moderate to severe frost ice formation and growth is expected. There will be an increasing ice drift to the southwest.

The Quark

New ice and thin level ice is present in bays along the coasts and in the Vaasa archipelago. Farther out ice formation in places along the eastern coast.

With mostly moderate frost and northeasterly winds some new ice formation and growth will occur and the ice will drift towards the southwest.

Sea of Bothnia

New ice can be found in bays along the whole Finnish coast, to a lesser extent also along the Swedish coast. At places there is new ice formation further out. On the Ångermanälven there is

3–10 cm thick level ice on the upper part and new is present in the lower part.

With mostly light to moderate frost ice formation is expected at the coast.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

www.bsh.de/ice

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Archipelago Sea and Åland Sea

In some sheltered bays there is new ice.
With near coast temperatures below freezing some

ice formation is expected there.

Northern Baltic

In Lake Mälaren new ice is present in in the western part.

With expected light to moderate frost, some new ice formation is anticipated.

Gulf of Finland

Thin ice, new ice and ice formation in Lake Saimaa. New ice is present in the top of Vyborg Bay and from Kotlin to St. Petersburg as well as in some sheltered places along the northern coast.

With near coast temperatures below freezing some ice formation is expected and the ice will drift towards west to southwest.

Gulf of Riga

Some new ice is present in bays in Väinameri and the Bay of Pärnu. The fairways are ice-free.

With near coast temperatures below freezing some ice formation is expected.

Swedish Lakes

New ice is present in some sheltered areas of Lake Vänern.

With mostly light frost further new ice formation is expected.

Dr. W. Aldenhoff

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi and Oulu	2000 dwt	II	22.11.
	Lake Saimaa	2000 dwt	II	02.12.
	Saimaa Canal	2000 dwt	II	02.12.
Sweden	Karlsborg, Lulea and Haraholmen	2000 dwt	II	21.11.
	Karlsborg and Lulea	2000 dwt	IC	02.12.
	Skelleftehamn	2000 dwt	II	02.12.
	Angermanälven	1300/2000 dwt	IC/II	29.11.
	Köping	1300/2000 dwt	IC/II	02.12.
	Västeras	1300/2000 dwt	IC/II	05.02.

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.

Baltic Sea Ice Code

<p>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</p> <p>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</p>	<p>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</p> <p>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</p>
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Estonia, 30.11.2023

Paernu, port and bay	1//0
Moonsund	1//0

Finland, 30.11.2023

Röyttä – Etukari	8745
Etukari – Ristinmatala	8745
Ajos – Ristinmatala	8745
Ristinmatala – Kemi 2	4155
Kemi 2 – Kemi 1	4145
Sea area SW of Kemi 1	4145
Kemi 2 – Ulkokrunni – Virpiniemi	5245
Oulu harbours – Kattilankalla	8745
Kattilankalla – Oulu 1	4145
Sea area SW of Oulu 1	4145
High Sea N of the latitude of Marjaniemi	4145
Raahe harbour – Heikinkari	3112
Heikinkari – Raahe lighthouse	3001
Raahe lighthouse – Nahkiainen	2001
Latitude Marjaniemi – Ulkokalla, Sea	2111
Rahja harbour – Välimatala	4142
Välimatala to line Ulkokalla – Ykskivi	1000
Ykskivi – Repskär	4142
Repskär – Kokkola lighthouse	2122
Pietarsaari – Kallan	1101
Vaskiluoto – Ensten	5142
Ensten – Vaasa lighthouse	2001
Kaskinen – Sälgrund	4041
Sea area off Sälgrund	2001

Uusikaupunki harbour – Kirsta	4001
Inkoo a. Kantvik – sea area Porkkala	3001

Russian Federation, 30.11.2023

Port of St. Petersburg	500/
St. Petersburg – E-point island Kotlin	500/
E-point Kotlin – long. lighth. Tolbukhin	500/
Vyborg, port and bay	600/

Sweden, 30.11.2023

Karlsborg – Malören	8346
Luleå – Björnklack	8346
Sandgrönn fairway	5256
Rödkaullen – Norströmsgrund	3126
Haraholmen – Nygrån	5256
Sea area off Nygrån	5256
Skelleftehamn – Gåsören	5252
Sea area off Gåsören	5252
Sea area off Bjuröklubb	3122
Umeå – Väktaren	3122
Örnsköldsvik – Hörnskatan	5142
Ångermanälven north Sandö Bridge	5144
Ångermanälven south Sandö Bridge	4044
Gävle – Eggegrund	4041
Hallstavik – Svartklubben	4041
Köping – Kvicksund	4041
Västerås – Grönsö	4041
Fairway to Karlstad	4041
Fairway to Kristinehamn	4041