



Eisbericht Nr. 13

Amtsblatt des BSH

Jahrgang 97

Nr. 13

Friday, 01.12.2023

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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 nach Norra Kvarken und die nördliche Bottensee hinein, Neueis oder dünnes, ebenes Eis an den Küsten vor. Neueis und örtlich dünnes ebenes Eis befindet sich in geschützten Küstengebieten bis hinein in die südöstliche Ostsee.

Overview

In the northern Bay of Bothnia there is up to 30 cm thick fast ice or level ice in the archipelagos. Further out, up to 15 cm thick, mostly open to close ice or new ice is drifting at sea. Further south, there is new ice and thin level ice in places along the coast to the Quark and the northern Sea of Bothnia. New ice and thin level ice at places are present in sheltered coastal places in all sea areas to the Southeastern Baltic in the south.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia there is up to 30 cm thick fast ice and thin level ice; in the east to about Keila, Ajos and Oulu-3. Further out in the northwest there is mostly up to 15 cm thick, very close drift ice extending to about Nygrån and Rödkallen. 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 from about Malören

to Kemi-1 and 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 will continue over the weekend. The ice will drift southwards.

The Quark

In the Vaasa archipelago, there is thin level ice and new ice formation further out. In Bays along the Swedish coast there is thin level ice and a narrow band of thin open drift ice further out.

With mostly moderate to severe frost ice formation and ice growth will continue over the weekend. The ice will drift southwards.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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Sea of Bothnia

New ice can be found in bays along the whole Finnish coast with ice formation at places slightly further out. Along the Swedish coast, there is new ice in some bays and thin level ice in bays in the north. On Ångermanälven, there is 3–10 cm thick

level ice on the upper part and new is present in the lower part.

With mostly moderate to severe frost ice formation and ice growth will continue over the weekend.

Archipelago Sea and Åland Sea

In some sheltered bays there is new ice. With slight frost in the west and colder tempera-

tures in the east ice formation and ice growth will continue over the weekend in coastal areas.

Northern Baltic

In Lake Mälaren new ice is present in in the western part and some sheltered bays.

With moderate to severe frost ice formation and ice growth continues over the weekend.

Gulf of Finland

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

coast, there is new ice.

With mostly moderate frost ice formation and ice growth will continue over the weekend. The ice will slightly drift to the south.

Gulf of Riga

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

With slight to moderate frost ice formation and ice growth will continue over the weekend.

Swedish Lakes

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

With mostly moderate frost further new ice formation is expected.

Southeastern Baltic

New ice is present at places in the lagoons of the southeastern Baltic.

With slight frost some 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.
	Raahe, Kalajoki, Kokkola, Pietarsaari and Vaasa	2000 dwt	II	06.12.
	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.
	Ångermanälven	1300/2000 dwt	IC/II	29.11.
	Köping	1300/2000 dwt	IC/II	02.12.
	Köping	1300 dwt	IC	05.12.
	Västerås	1300/2000 dwt	IC/II	05.12.
	Trollhätte Canal and Göta Älv	1300/2000 dwt	IC/II	05.12.
Vänern	1300/2000 dwt	IC/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: KONTIO and ALE assist in the northern Bay of Bothnia.

Russia

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

Icebreakers: Several icebreakers assist vessels to the port of St. Petersburg, Vyborg, Vysotsk, Primorsk and Ust-Luga.

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 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</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, 01.12.2023

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

Finland, 01.12.2023

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 3001
 Latitude Marjaniemi – Ulkokalla, Sea 4142
 Rahja harbour – Välimatala 4142
 Vaelimatala to line Ulkokalla – Ykskivi 4041

Sea betw. lat. of Ulkokalla –Pietarsaari	4041
Ykspihlaja – 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	5041
Inkoo a. Kantvik – sea area Porkkala	3001

Russian Federation, 01.12.2023

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, 01.12.2023

Karlsborg – Malören	8346
Sea area off Malören	3126
Luleå – Björnklack	8346
Björnklack – Farstugrunden	1006
Sandgrönn fairway	5256
Rödkallen – Norströmsgrund	5256
Haraholmen – Nygrån	5256
Sea area off Nygrån	5256
Skelleftehamn – Gåsören	5252
Sea area off Gåsören	5252
Sea area off Bjuröklubb	3122
Umeå – Väktaren	3122
SE of Väktaren	3122
Örnsköldsvik – Hörnskatan	5142
Ångermanälven north Sandö Bridge	5144
Ångermanälven south Sandö Bridge	4044
Gävle – Eggegrund	4041
Hallstavik – Svartklubben	4041
Köping – Kvicksund	5041
Västerås – Grönsö	5041
Fairway to Karlstad	4041
Fairway to Kristinehamn	4041