

BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Eisbericht Nr. 15 Amtsblatt des BSH

Jahrgang 97 Nr. 15

Tuesday, 05.12.2023

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Übersicht

In der nördlichen Bottenwiek befindet sich in den Schären bis 35 cm dickes Festeis und ebenes Eis. Weiter außerhalb treibt bis zu 15 cm dickes, dichtes bis sehr dichtes Eis. Weiter südlich bis Norra Kvarken liegt an den Küsten ebenes Eis und weiter außerhalb treibt dünnes, dichtes Eis und Neueis. An den Küsten der Bottensee, in den nördlichen Schären und östlichen Buchten des Finnischen Meerbusens und im nördlichen Teil des Rigaischen Meerbusen kommt dünnes, ebenes Eis und Neueis vor. Im gesamten südlichen Bereich der Ostsee kommt an geschützten Stellen örtlich Neueis vor. Neueis kommt auch in einigen geschützten Fjords im Skagerrak vor.

Overview

In the northern Bay of Bothnia there is up to 35 cm thick fast ice and level ice in the archipelagos. Further out, up to 15 cm thick, close to very close ice is drifting at sea. Further south, up to Norra Kvarken, there is level ice along the coast and further out new ice and thin close ice. At the coasts of the Sea of Bothnia, in the northern archipelagos and the eastern bays of the Gulf of Finland and in the northernmost part of the Gulf of Riga there is new ice and thin level ice. New ice can also be found in some sheltered places of the whole southern Baltic region. New ice is also present in sheltered fjords of the Skagerrak.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia there is up to 35 cm thick fast ice with adjacent level ice. Out at sea there is new ice with smaller areas of very close ice in the west and 3-8cm thick open ice from Karlsborg southwards past Malören. In the east there is 5-15cm thick close ice east of about 23°00'E - 23°30'E. Off Raahe there is thin

The Quark

There is thin level ice in the Vaasa archipelago and from Vaasa to Störhasten. Farther out there is new ice and ice formation out to Ensten. Along the Swedish coast there is thin level ice and new ice level ice and further out at sea new ice is drifting out to Nahkiainen and Ulkokalla. Further south there is up to 15cm thick level ice at the coast and new ice and up to 10cm thick, close ice farther out. With moderate to strong frost and light easterly winds, ice formation and growth will continue with the ice drifting slowly westwards..

and thin close ice stretches out to Holmögadd. With moderate to strong frost and light southeasterly winds ice formation and ice growth will continue.

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© BSH - All rights reserved Reproduction in whole or in part prohibited Thin level ice can be found in bays along the whole Finnish coast with new ice and 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

Archipelago Sea and Åland Sea

In sheltered bays there is level ice and new ice. With light frost in the east and colder temperatures

Northern Baltic

In Lake Mälaren there is new ice. With light frost in the east and down to strong frost

Gulf of Finland

Very close ice rind 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 thin ice. In Lake Saimaa there is thin ice, new ice

Gulf of Riga

In Väinameri there is thin open ice at sea and level ice at the coasts. In the Bay of Pärnu there is nilas at the coast and new ice on the fairways.

Southeastern Baltic

New ice is present in the Curonian Lagoon and in places of the Vistula lagoon.

Southwestern Baltic

New ice is present at places in some sheltered places of inner waters like the Schlei and the Peenestrom.

Skagerrak and Kattegat

Ice formation and new ice is present in sheltered places of inner Norwegian Fjords and in some sheltered areas along the Swedish coast.

Swedish Lakes

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

Dr. J. Holfort

is 3–15 cm thick fast and level ice on the upper part and new is present in the lower part. With strong frost at the western coast and light frost at the eastern coast, ice formation and ice growth will continue.

in the west ice formation and ice growth in coastal areas will continue.

over the western land area ice formation and ice growth continues.

and ice formation, but also open water. With weak variable winds and strong frost in the east and light frost in the west, ice formation and ice growth will continue.

With mostly light frost and weak winds the ice formation and ice growth will continue.

Some frost is expected and therefore some ice formation is expected.

With air temperatures around zero, but with water temperatures largely above 5°C at the outer coast, no larger ice formation is expected.

With mostly moderate frost in the Fjords, some ice formation is expected.

With mostly moderate frost further new ice formation is expected.

	Harbour/District	At least	Ice Class	Begin
		dwt/hp/kW		
Finland	Tornio, Kemi and Oulu	2000 dwt	II	22.11.
	Tornio, Kemi and Oulu	2000 dwt	I	09.12.
	Raahe, Kalajoki, Kokkola, Pietarsaari and Vaasa	2000 dwt	II	06.12.
	Taalintehdas, Förby, Koverhar, Lap- pohja, Inkoo, Kantvik, Helsinki,	2000 dwt	II	09.12.
	Sköldvik, Loviisa, Mussalo, Kotka and			
	Hamina			
	Lake Saimaa	2000 dwt	II	02.12.
	Lake Saimaa	2000 dwt	I	08.12.
	Saimaa Canal	2000 dwt	II	02.12.
	Saimaa Canal	2000 dwt	I	08.12.
Sweden	Haraholmen	2000 dwt	IC	05.12.
	Karlsborg and Lulea	2000 dwt	IC	02.12.
	Skelleftehamn	2000 dwt	IC	05.12.
	Holmsund	2000 dwt	II	09.12.
	Angermanälven	1300/2000 dwt	IC/II	29.11.
	Köping	1300 dwt	IC	05.12.
	Västeras	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.

Restrictions to Navigation

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, ALE and YMER 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

First number: AB 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: SB 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 Navigation unobscured Navigation difficult or dangerous for wooden vessels without ice sheathing Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker Icebreaker assistance can only be given to vessels of special ice class and of special size Icebreaker assistance can only be given to vessels of special ice class and of special size Icebreaker assistance can only be given to vessels after after special permission Navigation temporarily closed Navigation has ceased Unknown

Estonia, 05.12.2023

Paernu, port and bay Moonsund	20/0 30/0
Finland, 05.12.2023 Röyttä – Etukari Etukari – Ristinmatala Ajos – Ristinmatala Ristinmatala – Kemi 2 Kemi 2 – Kemi 1 Sea area SW of Kemi 1 Kemi 2 – Ulkokrunni – Virpiniemi Oulu harbours – Kattilankalla Kattilankalla – Oulu 1 Sea area SW of Oulu 1 High Sea N of the latitude of Marjaniemi Raahe harbour – Heikinkari Heikinkari – Raahe lighthouse Raahe lighthouse – Nahkiainen Latitude Marjaniemi – Ulkokalla, Sea Rahja harbour – Välimatala Vaelimatala to line Ulkokalla – Ykskivi Sea betw. lat. of Ulkokalla – Pietarsaari Ykspihlaja – Repskär Repskär – Kokkola lighthouse Pietarsaari – Kallan Sea area ENE of Nordvalen Sea area Nordvalen to W of Norrskär	8345 8345 5755 5145 5145 5145 5145 5145 5145 51
Vaskiluoto – Ensten	5242

Ensten – Vaasa lighthouse	3121
Kaskinen – Sälgrund	4041
Sea area off Sälgrund	2001
Pori harb. to line Pori lighth. – Säppi	4142
Rauma, Harbour – Kylmäpihlaja	4041
Kylmäpihlaja – Rauma lighthouse	3001
Uusikaupunki harbour – Kirsta	4041
Inkoo a. Kantvik – sea area Porkkala	5142
Kotka – Viikari	4041
Hamina – Suurmusta	4041

Russian Federation, 05.12.2023

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

Sweden, 04.12.2023

Karlsborg – Malören	8346
Sea area off Malören	3126
Luleå – Björnklack	8346
Björnklack – Farstugrunden	5046
Sandgrönn fairway	5256
Rödkallen – Norströmsgrund	5046
Haraholmen – Nygrån	5146
Sea area off Nygrån	5046
Skelleftehamn – Gåsören	6156
Sea area off Gåsören	6156
Sea area off Bjuröklubb	6152

NE of Nordvalen	3122
SW of Nordvalen	3122
Western Quark (W of Holmöarna)	4041
Umeå – Väktaren	4041
SE of Väktaren	4041
Örnsköldsvik – Hörnskaten	5142
Ångermanälven north Sandö Bridge	5144
Ångermanälven south Sandö Bridge	4044
Hudiksvallfjärden	5142
Gävle – Eggegrund	4041
Hallstavik – Svartklubben	4041
Köping – Kvicksund	5044
Västerås – Grönsö	5041
Uddevalla – Stenungsund	4041
Stenungsund – Hätteberget	4041
Brofjorden – Dynabrott	4041
Vänersborgsviken	4041
Fairway to Karlstad	5142
Fairway to Kristinehamn	4041