



Eisbericht Nr. 12

Amtsblatt des BSH

Jahrgang 96

Nr. 12

Tuesday, 13.12.2022

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Übersicht

In den Schären der Bottenwiek befindet sich bis 20cm dickes Festeis und weiter außerhalb kommt Neueis vor. In Norra Kvarken, der Bottensee, dem Schärenmeer und dem Mälarsee kommt in geschützten Gebieten Neueis und dünnes Eis vor. Im Finnischen Meerbusen kommt in den östlichsten Buchten bis 15cm dickes Festeis, außerhalb davon und in geschützten Buchten entlang der Küsten kommt Neueis vor. Im Nordosten des Rigaischen Meerbusen befindet sich dünnes ebenes Eis oder Neueis entlang der Küsten und der Bucht von Pärnu. Weiter südlich, bis hin zur westlichen Ostsee, kommt örtlich Neueis vor.

Overview

In the archipelagos of the Bay of Bothnia there is up to 20cm thick fast ice and new ice is present further out. In the Quark, the Sea of Bothnia, the Archipelago Sea and Lake Mälaren, there is thin and new ice in sheltered bays. In the Gulf of Finland, there is up to 15cm thick fast ice in the easternmost bays. Outside the fast ice and in sheltered places along the coasts there is new ice. In the northeastern Gulf of Riga thin level ice or new ice is present along the coasts and in the Bay of Pärnu. Further south, all the way to the western Baltic, there is new ice and new ice formation in some sheltered areas.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 5–20 cm thick fast or level ice and new ice and new ice formation further out. There is 5–15 cm thick fast ice between Hailuoto and Oulu. New ice is present in places at or near the shores of the

southern bay.

During the next days, temperatures around -20°C at the northern coasts around -10°C in the south will lead to further ice grow and formation. The ice will drift mostly southwestwards.

The Quark

There is thin level ice and new ice in the inner bays and archipelagos.

Further ice formation and ice growth will take place during the next days.

Sea of Bothnia

New ice is present in places in the inner archipelagos along the Finnish coast. On the upper part of Ångermanälven, there is 3–10 cm thick level ice

and new ice is present in the lower part.

Further falling temperatures will lead to new ice formation and ice growth during the next days.

Archipelago Sea

New ice is present in sheltered inner bays. New ice

formation is expected during the next days.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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Eisankünfte / Ice Information

Telefon: +49 (0) 381 4563 -780

Telefax: +49 (0) 381 4563 -949

E-Mail: ice@bsh.de

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Northern Baltic

In Lake Mälaren 3.8cm thick level ice is present in the western part and else new ice sheltered

places.

New ice formation is expected.

Gulf of Finland

5–10 cm thick level ice is present east of the island Kotlin and further out to the longitude of Krasnaja Gorka there is new ice and in places nilas. In the top of Vyborg Bay, there is 10–15 cm thick fast ice and in the entrance there is open new ice. In plac-

es along the norther coast and in sheltered places along the southern coast, there is new ice. On Lake Saimaa, there is 5–15 cm thick ice as well as new ice in places.

New ice formation and ice growth is expected.

Gulf of Riga

There is thin level ice along the coast and in sheltered bays of Väinameri. On the fairway new ice. In the Bay of Pärnu, there is 5–10 cm thick fast ice along the coast and further out light nilas to the line from the southern point of island Manija over Sorgu to Voiste. Further south new ice in places

along the coast.

Until tomorrow midday northeastern winds will keep/bring temperatures around -5°C, later more westerly winds will lead to a temperature increase, but even then continuous frost is expected the next days, so further new ice formation will take place.

Central Baltic

New ice and new ice formation in some sheltered

areas. Ice formation expected the next days.

Southeastern Baltic

New ice and new ice formation in some sheltered

areas. Ice formation expected the next days.

Skagerrak and Kattegat

New ice and new ice formation in some sheltered areas. Thicker, up to 10cm thick ice is present in

some Norwegian fjords near Halden, Moss and Tønsberg. Ice formation expected the next days.

Swedish Lakes

New ice and new ice formation in some sheltered

areas. Ice formation expected the next days.

Dr. J.Holfort

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio and Kemi	2000 dwt	II	01.12.
	Oulu	2000 dwt	II	12.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	II	12.12.
Sweden	Karlsborg and Lulea	2000 dwt	II	05.12.
	Haraholmen and Skelleftehamn	2000 dwt	II	12.12.
	Angermanälven	1300/2000 dwt	IC/II	14.12.
	Köping	1300/2000 dwt	IC/II	17.12.
	Trollhätte Canal and Göta Älv	1300/2000 dwt	IC/II	17.12.
	Vänern	1300/2000 dwt	IC/II	17.12.

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:

Tugboats assist in the Bay of Bothnia. OTSO is heading to Bay of Bothnia.

Russia

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

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

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 , 13.12.2022

Paernu, port and bay 5111
 Moonsund 4001

Finland , 13.12.2022

Röyttä – Etukari 5745
 Etukari – Ristinmatala 5245
 Ajos – Ristinmatala 5145
 Ristinmatala – Kemi 2 4045
 Kemi 2 – Kemi 1 3005
 Kemi 2 – Ulkokrunni – Virpiniemi 5245
 Oulu harbours – Kattilankalla 7245
 Kattilankalla – Oulu 1 4145
 High Sea N of the latitude of Marjaniemi 2005
 Raahe harbour – Heikinkari 4042

Heikinkari – Raahe lighthouse 3001
 Raahe lighthouse – Nahkiainen 4042
 Rahja harbour – Välimatala 3001
 Ykspihlaja – Repskär 3001
 Vaskiluoto – Ensten 5142
 Pori harb. to line Pori lighth. – Säppi 4042
 Rauma, Harbour – Kylmäpihlaja 3000
 Uusikaupunki harbour – Kirsta 2000
 Naantali and Turku – Rajakari 4042
 Kotka – Viikari 3002

Germany , 13.12.2022

Rostock – Warnemünde 1000
 Flensburg – Holnis 1000

Latvia , 13.12.2022

Riga to the Cape of Mersrags, fairway	1000
Mersrags to Irben Strait, fairway	1000
Irben Strait, fairway	1000
Irben Strait to the port of Ventspils	1000
Ventspils port to Liepaja port	1000
Liepaya harbour – sea border Lithuania	1000

Russian Federation , 13.12.2022

Port of St. Petersburg	51/2
St. Petersburg – E-point island Kotlin	51/2
E-point Kotlin – long. lighth. Tolbuhkin	3001
Lighth. Tolbuhkin – lighth. –Šepelevskij	20/0
Vyborg, port and bay	81/2
Island Vichrevoj – Island Sommers	2000

Sweden , 13.12.2022

Karlsborg – Malören	8246
Luleå – Björnklack	8246
Björnklack – Farstugrunden	4046
Sandgrönn fairway	4046
Rödkallen – Norströmsgrund	4046
Haraholmen – Nygrån	4046
Skelleftehamn – Gåsören	4046
Umeå – Väktaren	4041
Örnsköldsvik – Hörnskatan	4041
Ångermanälven north Sandö Bridge	5142
Ångermanälven south Sandö Bridge	5142
Iggesund – Agö	4041
Gävle – Eggegrund	5041
Köping – Kvicksund	5142
Västerås – Grönsö	5142
Norrköping – Hargökalv	5041
Fairway to Gruvön	4041
Fairway to Kristinehamn	4041