

Eisbericht Nr. 14

Amtsblatt des BSH

Jahrgang 96

Nr. 14

Thursday, 15.12.2022

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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 20cm 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 20cm 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 sheltered areas.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 5–20 cm thick fast or level ice. There is 5–15 cm thick fast ice between Hailuoto and Oulu. Further out, there is new ice and new ice formation up to 15-20nm away from the coast. New ice is

present along the shores of the southern bay. With temperatures down to -15°C along the shores, somewhat higher at sea, further ice grow and ice formation is expected. The ice will drift slowly towards the east.

The Quark

There is 3-10cm thick level ice and new ice in the inner bays and archipelagos. On the Finnish side some new ice and ice formation is present also

further out. 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.

Temperatures down to -10°C at the coasts will lead to new ice formation and ice growth during the next days.

Herstellung und Vertrieb

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Archipelago Sea

New ice is present in sheltered inner bays. New ice

formation is expected during the next days.

Northern Baltic

In Lake Mälaren 3-8cm thick level ice is present in in the western part and else new ice sheltered

places.

New ice formation is expected.

Gulf of Finland

Very close grey ice is present east of the island Kotlin, further out to the longitude of lighthouse Šepelevskij there is new ice. In the top of Vyborg Bay, there is 10–20 cm thick fast ice and in the entrance there is open new ice. In places along the norther coast and in sheltered places along the

southern coast, there is new ice. On Lake Saimaa, there is 5–20 cm thick ice as well as new ice in places.

New ice formation and ice growth is expected with an northeastward drift.

Gulf of Riga

There is level ice along the coast and new ice and very close nilas on the fairways of Väinameri. In the Bay of Pärnu, there is a narrow belt of 5–10 cm thick fast ice along the coast and further out very

close light nilas to the about 58°08'N. Further south open water with new ice in places.

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

In the Curonian lagoon as well as in the Vistula lagoon there is new ice and new ice formation. Ice

formation expected the next days.

Western Baltic

New ice and light Nilas 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 thin level ice is present in some sheltered areas. Ice formation is expected the next

days.

North Sea

Ice formed on the Wadden at low tide drifts at sea

at high tide. 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.

Estonia

Icebreakers:

EVA-316 assists in the port of Pärnu.

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:

OTSO assists in the 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:</p> <p>A_B Amount and arrangements of sea ice</p> <p>0 Ice free</p> <p>1 Open water – concentration less than 1/10</p> <p>2 Very open ice - concentration 1/10 to 3/10</p> <p>3 Open ice – concentration 4/10 to 6/10</p> <p>4 Close ice – concentration 7/10 to 8/10</p> <p>5 Very close ice – concentration 9/10 to 9+/10</p> <p>6 Compact ice, including consolidated ice – concentration 10/10</p> <p>7 Fast ice with drift ice outside</p> <p>8 Fast ice</p> <p>9 Lead in very close or compact drift ice or along the fast ice edge</p> <p>/ Unable to report</p> <p>Third number:</p> <p>T_B Topography or form of ice</p> <p>0 Pancake ice, ice cakes, brash ice – less than 20 m across</p> <p>1 Small ice floes – 20 to 100 m across</p> <p>2 Medium ice floes – 100 to 500 m</p> <p>3 Big ice floes – 500 to 2000 m across</p> <p>4 Vast or giant ice floes – more than 2000 m across – or level ice</p> <p>5 Rafted ice</p> <p>6 Compact slush or shuga, or compacted brash ice</p> <p>7 Hummocked or ridged ice</p> <p>8 Thaw holes or many puddles on the ice</p> <p>9 Rotten ice</p> <p>/ No information or unable to report</p>	<p>Second number:</p> <p>S_B Stage of ice development</p> <p>0 New ice or dark nilas (less than 5 cm thick)</p> <p>1 Light nilas (5 - 10 cm thick) or ice rind</p> <p>2 Grey ice (10 - 15 cm thick)</p> <p>3 Grey-white ice (15 - 30 cm thick)</p> <p>4 White ice, first stage (30 - 50 cm thick)</p> <p>5 White ice, second stage (50 - 70 cm thick)</p> <p>6 Medium first year ice (70 - 120 cm thick)</p> <p>7 Ice predominantly thinner than 15 cm with some thicker ice</p> <p>8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice</p> <p>9 Ice predominantly thicker than 30 cm with some thinner ice</p> <p>/ No information or unable to report</p> <p>Fourth number:</p> <p>K_B Navigation conditions in ice</p> <p>0 Navigation unobscured</p> <p>1 Navigation difficult or dangerous for wooden vessels without ice sheathing</p> <p>2 Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable</p> <p>3 Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice</p> <p>4 Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker</p> <p>5 Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size</p> <p>6 Icebreaker assistance can only be given to vessels of special ice class and of special size</p> <p>7 Icebreaker assistance can only be given to vessels after special permission</p> <p>8 Navigation temporarily closed</p> <p>9 Navigation has ceased</p> <p>/ Unknown</p>
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Estonia , 15.12.2022			
Paernu, port and bay	5113	Sandgrönn fairway	4046
Moonsund	5112	Rödkallen – Norströmsgrund	4046
		Haraholmen – Nygrån	4046
		Skelleftehamn – Gåsören	4046
		Umeå – Väktaren	4041
		Örnsköldsvik – Hörnskatan	4041
Finland , 15.12.2022		Ångermanälven north Sandö Bridge	5244
Röyttä – Etukari	8745	Ångermanälven south Sandö Bridge	5244
Etukari – Ristinmatala	7745	Iggesund – Agö	4041
Ajos – Ristinmatala	5145	Gävle – Eggegrund	5041
Ristinmatala – Kemi 2	4045	Köping – Kvicksund	5142
Kemi 2 – Kemi 1	2005	Västerås – Grönsö	5142
Kemi 2 – Ulkokrunni – Virpiniemi	5245	Norrköping – Hargökalv	5041
Oulu harbours – Kattilankalla	8245	Fairway to Gruvön	4041
Kattilankalla – Oulu 1	5145	Fairway to Karlstad	4041
Sea area SW of Oulu 1	4045	Fairway to Kristinehamn	4041
High Sea N of the latitude of Marjaniemi	2005		
Raahe harbour – Heikinkari	5142		
Heikinkari – Raahe lighthouse	3001		
Raahe lighthouse – Nahkiainen	3001		
Rahja harbour – Välimatala	3001		
Ykspihlaja – Repskär	5142		
Repskär – Kokkola lighthouse	3001		
Pietarsaari – Kallan	3001		
Vaskiluoto – Ensten	5142		
Kaskinen – Sälgrund	3001		
Pori harb. to line Pori lighth. – Säppi	2000		
Uusikaupunki harbour – Kirsta	3001		
Helsinki harbours – Harmaja	1000		
Vuosaari harbour – Eestiluoto	1000		
Valko Harbour – Täktarn	3001		
Kotka – Viikari	5042		
Hamina – Suurmusta	4042		
Suurmusta – Merikari	2000		
Germany , 15.12.2022			
Flensburg – Holnis	1000		
Latvia , 15.12.2022			
Riga to the Cape of Mersrags, fairway	1000		
Mersrags to Irben Strait, fairway	1000		
Irben Strait, fairway	1000		
Norway , 14.12.2022			
Svinesund – Halden	31//		
Mossesund	4112		
Drammensfjord	1010		
Tønsberg, inner harbour	8101		
Skåtøysund (Kragerø)	8143		
Russian Federation , 15.12.2022			
Port of St. Petersburg	52/2		
St. Petersburg – E-point island Kotlin	52/2		
E-point Kotlin – long. lighth. Tolbuhkin	3001		
Lighth. Tolbuhkin – lighth. –Šepelevskij	20/0		
Vyborg, port and bay	83/2		
Island Vichrevoj – Island Sommers	2000		
Sweden , 14.12.2022			
Karlsborg – Malören	8246		
Luleå – Björnklack	8246		
Björnklack – Farstugrunden	4046		