



Eisbericht Nr. 19

Amtsblatt des BSH

Jahrgang 95

Nr. 19

Thursday, 23.12.2021

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Übersicht

In der nördlichen Bottenwiek liegt in den Schären 15-30cm dickes Festeis und weiter außerhalb treibt meist Neueis oder dünnes Eis. In der südlichen Bottenwiek und Norra Kvarken liegt in den Schären bis zu 25cm dickes Festeis. Entlang der Küsten der Bottensee, dem Schärenmeer und der Ålandsee liegt dünnes ebenes Eis oder Neueis. Im Finnischen Meerbusen liegt entlang der Nordküste dünnes, ebenes Eis und im Osten kommt bis zu 20cm dickes Festeis vor. Im Rigaischen Meerbusen befindet sich Neueis und bis zu 15cm dickes Eis im Moonsund und in der Pärnubucht. Neueis und dünnes, ebenes Eis kommt örtlich in der nördlichen Ostsee, den Haffgebieten der südöstlichen Ostsee und dem Vänern vor.

Overview

In the northern Bay of Bothnia, there is 15-30cm thick fast ice in the archipelagos, and mostly new ice or thin ice further out. In the southern Bay of Bothnia and Norra Kvarken, there is up to 25cm thick fast ice in the archipelagos. Along the coasts of the Sea of Bothnia, the Archipelago Sea and Åland Sea, there is thin level ice or new ice. In the Gulf of Finland, thin level ice is present along the northern coast and up to 20cm thick fast ice is present in the eastern part. In the Gulf of Riga, there is new ice and up to 15cm thick ice in Moonsund and Pärnu Bay. New ice and thin level ice occurs at places in the northern Baltic, in the lagoons of the southeastern Baltic and Lake Vänern.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 15–30 cm thick fast ice, from the Finnish coast reaching out to Kemi-3 and Kattilankalla. Adjacent to the fast ice in the east and northeast, there is a area with 10-25cm thick, very close ice; followed by level ice and later new ice. Off the fast

ice in the west, there first some level ice and later new ice out to east of Norströmgrund. In the southern Bay of Bothnia, there is 10–20 cm thick fast ice in the archipelagos, farther out new ice. Further new ice formation will occur with a stronger southerly ice drift.

Norra Kvarken

In the archipelagoes off Vaasa, there is 10–25 cm thick fast ice out to Storhsten with new ice and new ice formation outside out to Ensten. Along the Swedish coast there is 5-20cm thick fast or level

ice in the inner archipelago and new ice out to Holmögadd. Ice formation will continue with southerly ice drift.

Herstellung und Vertrieb

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Sea of Bothnia

On Ångermanälven, there is 10–25 cm thick fast ice in the upper part and very open ice in the lower part, else 5-10cm thick level ice in sheltered bays

along the Swedish coast. Along the Finnish coast there is 5-15cm thick level ice with new ice outside. Some ice growth is expected.

Archipelago and Åland Sea

Thin ice and ice formation occur in the inner Archipelago and in sheltered places in the Åland Sea.

New Ice formation will continue.

Gulf of Finland

From St. Petersburg to Kotlin there is 5–15 cm thick, very close ice with some thicker ice north-east of Kotlin. Farther out to the longitude of lighthouse Tolbuchin there is very close new ice and dark nilas followed by open new ice to about 29°E. In the Bay of Vyborg, there is 10–20 cm fast ice, with very open new ice in the entrance. 5-15cm very close is present in the Bjerkesund. In the ar-

chipelagoes of the northern coast, there is 5-10cm thick level ice; further out there is some new ice in the east. At the southern coast, new ice is present in places near the shore. In Lake Saimaa and the Saimaa Canal, there is 5–25 cm thick ice. A north-easterly ice drift is expected today, tomorrow new ice formation will take place with almost no ice drift.

Gulf of Riga

In Moonsund there is nilas and very close, 5–15 cm thick ice near the coasts; on the fairways there is new ice. In Pärnu Bay, there is very close, 5-20 cm thick ice in the east and new ice is present in

the west and the fairway. In the port of Riga there is very open new ice with some grey ice. With easterly ice drift, no larger ice formation is expected until tomorrow morning.

Northern Baltic

In Lake Mälaren, 5-15cm thick level ice is present in the western part and else new ice is present in some sheltered bays. Along the Swedish coast there is new ice in some sheltered bays. In the port

of Liepaja there is very open ice with some thicker ice and in Ventspils port there is open water with some new ice. Some ice formation will occur, mostly in the west.

Southeastern Baltic

The Curonian Lagoon is covered by new ice and in the Vistula there are areas with new ice.

Some easterly drift, but overall no larger change is expected.

Swedish Lakes

New ice as well as 5-15cm thick level ice is present in sheltered bays of Lake Vänern.

No larger change is expected.

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1600 kW	1C	17.12.
Finland	Tornio, Kemi, Oulu and Raahе	2000 dwt	I	11.12.
	Tornio, Kemi, Oulu and Raahе	2000 dwt	IB	25.12.
	Kalajoki and Pietarsaari	2000 dwt	II	08.12.
	Kokkola and Vaasa	2000 dwt	I	22.12.
	Kalajoki and Pietarsaari	2000 dwt	I	25.12.
	Loviisa, Kotka and Hamina	2000 dwt	II	22.12.
Sweden	Mussalo	2000 dwt	II	25.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	I	22.12.
	Karlsborg and Luleå	2000 dwt	IC	11.12.
	Haraholmen and Skelleftehamn	2000 dwt	IC	22.12.
	Holmsund, Rundvik and Husum	2000 dwt	II	22.12.
	Örnsköldsvik	2000 dwt	II	22.12.
Ångermanälven	2000 dwt	IC	22.12.	
Härnösand- Skutskär	2000 dwt	II	22.12.	
Köping and Västerås	1300/2000 dwt	IC/II	06.12.	
Köping and Västerås	2000 dwt	IC	27.12.	
Bålsta	1300/2000 dwt	IC/II	27.12.	

Information of the Icebreaker Services

Estonia

Icebreaker: EVA-316 assists to 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 78. 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, KONTIO, FREJ and YMER assist in the Bay of Bothnia. VOIMA assists in the eastern Gulf of Finland. PROTECTOR and CALYPSO assist in the northern Lake Saimaa. METEOR assists in the southern Lake Saimaa and the Saimaa Canal.

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 , 23.12.2021

Narva-Jõesuu, Fahrwasser	2000
Pärnu, Hafen und Bucht	52/5
Moonsund	40/2

Finland , 23.12.2021

Röyttä – Etukari	8346
Etukari – Ristinmatala	8346
Ajos – Ristinmatala	8346
Ristinmatala – Kemi 2	5346
Kemi 2 – Kemi 1	5046
Kemi 1, Seegebiet im SW	0//6
Kemi 2 – Ulkokrunni – Virpiniemi	7346
Oulu, Hafen – Kattilankalla	8346
Kattilankalla – Oulu 1	5146
Oulu 1, Seegebiet im SW	5766
Offene See N-lich Breite Marjaniemi	0//6
Raahe, Hafen – Heikinkari	7246
Heikinkari – Raahe Leuchtturm	5766
Raahe Leuchtturm – Nahkiainen	1006
Rahja, Hafen – Välimatala	5145
Ykspihlaja – Repskär	7746
Repskär – Kokkola Leuchtturm	5046
Pietarsaari – Kallan	4145
Vaskiluoto – Ensten	7246
Ensten – Vaasa Leuchtturm	5146
Vaasa Leuchtturm – Norrskär	0//6
Kaskinen – Sälgrund	3232
Pori – Linie Pori Leuchtturm – Säppi	1000

Rauma, Hafen – Kylmäpihlaja	3102
Uusikaupunki, Hafen – Kirsta	4002
Naantali und Turku – Rajakari	1000
Valko, Hafen – Täktarn	2125
Kotka – Viikari	3005
Hamina – Suurmusta	8245
Suurmusta – Merikari	2005

Latvia , 23.12.2021

Riga, Hafen	2202
Ventspils, Hafen	1000
Liepaja, Hafen	2202

Russian Federation, 23.12.2021

St. Petersburg, Hafen	52/2
St. Petersburg – Ostspitze Kotlin	52/2
Ostspitze Kotlin – Länge Lt. Tolbuchin	5002
Lt. Tolbuchin – Lt. Šepelevskij	3001
Vyborg Hafen und Bucht	83/2
Vichrevoj – Sommers	2000

Sweden , 22.12.2021

Karlsborg – Malören	8346
Malören, Seegebiet außerhalb	5046
Luleå – Björnklack	8346
Björnklack – Farstugrunden	5046
Farstugrunden, See im E und SE	5046
Sandgrönn Fahrwasser	8346
Rödkaullen – Norströmsgrund	4356

Haraholmen – Nygrån	8346
Nygrån, Seegebiet außerhalb	5046
Skelleftehamn – Gåsören	5046
Gåsören, Seegebiet außerhalb	5046
Bjuröklubb, Seegebiet außerhalb	5046
Nordvalen, See im NE	4046
Västra Kvarnen W-lich Holmöarna	5146
Örnsköldsvik – Hörnskatan	5146
Ångermanälv oberhalb Sandöbrücke	8344
Ångermanälv unterhalb Sandöbrücke	8344
Sundsvall – Draghällan	5146
Hudiksvallfjärden	5146
Iggesund – Agö	3126
Gävle – Eggegrund	3126
Hallstavig – Svartklubben	3021
Köping – Kvicksund	5244
Västerås – Grönsö	5244
Grönsö – Södertälje	5144
Stockholm – Södertälje	5144
Norrköping – Hargökalv	4041
Uddevalla – Stenungsund	5041
Karlstad, Fahrwasser nach	5242
Kristinehamn, Fahrwasser nach	5242