



Eisbericht Nr. 20

Amtsblatt des BSH

Jahrgang 95

Nr. 20

Friday, 24.12.2021

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Übersicht

In der nördlichen Bottenwiek liegt in den Schären 15-30cm dickes Festeis und weiter außerhalb treibt meist 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 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. New ice formation and ice growth will occur with a southerly ice drift.

Norra Kvarken

In the archipelagoes off Vaasa, there is 10–25 cm thick fast ice out to Storhsten with thin ice outside out to Norra Globsten. 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.

Sea of Bothnia

On Ångermanälven, there is 10–25 cm thick fast ice in the upper part and 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

Herstellung und Vertrieb

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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.

Ice formation will continue.

Gulf of Finland

From St. Petersburg up to the dike there is 10–20 cm thick compact ice. Farther out to the longitude of lighthouse Tolbushin there is close light nilas followed by open nilas and 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 10–25 cm thick ice. New ice formation will take place with a slow east to south-easterly 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. Some ice growth is expected.

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 Ventspils there is open water with some new ice. Some ice formation will occur.

Southeastern Baltic

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

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.

Some ice formation is expected.

Dr. J.Holfort

We wish all of you happy holidays.

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 , 24.12.2021

Shipping route from Narva-Jõssuu	2000
Paernu, port and bay	52/5
Moonsund	40/2

Finland , 24.12.2021

Roeyttae – Etukari	8346
Etukari – Ristinmatala	7346
Ajos – Ristinmatala	7346
Ristinmatala – Kemi 2	5046
Kemi 2 – Kemi 1	5046
Sea area SW of Kemi 1	5046
Kemi 2 – Ulkokrunni – Virpiniemi	7346
Oulu harbours – Kattilankalla	8346
Kattilankalla – Oulu 1	5346
Sea area SW of Oulu 1	5246
High Sea N of the latitude of Marjaniemi	3026
Raahe harbour – Heikinkari	7246
Heikinkari – Raahe lighthouse	5766
Raahe lighthouse – Nahkiainen	5246
Rahja harbour – Välimatala	5145
Ykspihlaja – Repsaer	7746
Repskaer – Kokkola lighthouse	5046
Pietarsaari – Kallan	5745
Vaskiluoto – Ensten	7246
Ensten – Vaasa lighthouse	5046
Vaasa lighthouse – Norrskær	0//6
Kaskinen – Sälgrund	3022
Pori harb. to line Pori lighth. – Säppi	3001

Rauma, Harbour – Kylmäpihlaja	3102
Uusikaupunki harbour – Kirsta	4002
Koverhar – Hästö Busö	2000
Helsinki harbours – Harmaja	2000
Valko Harbour – Täktarn	2125
Kotka – Viikari	3005
Hamina – Suurmusta	8245
Suurmusta – Merikari	2005

Latvia , 24.12.2021

Port of Riga	2202
Port of Ventspils	1000

Russian Federation , 24.12.2021

Port of St. Petersburg	63/3
St. Petersburg – E-point island Kotlin	63/3
E-point Kotlin – long. lighth. Tolbukhin	52/3
Lighth. Tolbukhin – lighth. –Šepelevskij	1111
Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	1000

Sweden , 24.12.2021

Karlsborg – Maloeren	8346
Luleå – Bjoernklack	8346
Bjoernklack – Farstugrunden	4046
E and SE of Farstugrunden	4046
Sandgroenn fairway	8346
Roedkallen – Norstroemsgrund	4046
Haraholmen – Nygrån	8346

Sea area off Nygrån	4046
Skelleftehamn – Gåsoeren	4046
Sea area off Gåsoeren	4046
Sea area off Bjuroeklubb	4046
Western Quark (W of Holmoearna)	8246
Oernskoeldsvik – Hoernskaten	5146
Ångermanaelven north Sandoe Bridge	8346
Ångermanaelven south Sandoe Bridge	8346
Sundsvall – Draghaellan	5146
Hudiksvallfjaerden	5146
Iggesund – Agoe	4046
Gaevle – Eggegrund	5146
Hallstavig – Svartklubben	4041
Koeping – Kvicksund	5246
Västerås – Grönsö	5246
Grönsö – Södertälje	5144
Stockholm – Södertälje	5144
Norrköping – Hargökalv	4041
Uddevalla – Stenungsund	5041
Fairway to Karlstad	5242
Fairway to Kristinehamn	5242