



Eisbericht Nr. 18

Amtsblatt des BSH

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Nr. 18

Wednesday, 22.12.2021

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Übersicht

In der nördlichen Bottenwiek liegt in den Schären 15-30cm dickes Festeis und weiter außerhalb treibt meist Neueis oder lockeres 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 zumeist dünnes, ebenes Eis und bis zu 20cm dickes Festeis. 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 open 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. Thin level ice 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 small area with 10-25cm thick, very close ice; followed by a wider area with new ice. Farther out an area of 5-20cm thick open ice is drifting

outside of Hailuoto. Off the fast ice in the west, there is new ice with an area of close, 5-20cm thick ice west of Norströmgrund. In the southern Bay of Bothnia, there is 10–20 cm thick fast ice in the archipelagos, farther out new ice. Ice formation will continue.

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 Norra Globsten. Along

the Swedish coast there is 5-20cm thick fast or level ice in the inner archipelago. Some ice formation will occur.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)
www.bsh.de/eis
www.bsh.de/ice

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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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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

New ice and thin level is present in sheltered places in the Archipelago and Åland Sea.

Some Ice formation, but else no larger change, is expected.

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 new ice in the east. In Lake Saimaa and the Saimaa Canal, there is 5–25 cm thick fast ice. Although only light frost is expected for tomorrow in the east, some ice formation will take place and the ice will drift eastwards.

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, 5-15 cm thick ice in the east and new ice is present in

the west and the fairway. In the port of Riga there is open water with some new ice. Only minor ice formation is expected, with a weak north-easterly ice drift.

Northern Baltic

In Lake Mälaren, thin level ice or fast ice is present in the westernmost part and some sheltered bays. Else, there is new ice in some sheltered bays along the Swedish coast and in the port of Liepāja

there is very open light nilas. Some ice formation will occur.

Southeastern Baltic

In the Curonian Lagoon there is new ice with some ice free areas.

No larger change is expected.

Western and Southern Baltic

Some ice formation is taking place in some sheltered areas.

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.
	Mussalo	2000 dwt	II	25.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	I	22.12.
Sweden	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. 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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Germany , 22.12.2021

Wismar, Hafen 2000

Estonia , 22.12.2021

Pärnu, Hafen und Bucht 52/5

Moonsund 40/2

Finland , 22.12.2021

Röyttä – Etukari 8346

Etukari – Ristinmatala 8346

Ajos – Ristinmatala 8346

Ristinmatala – Kemi 2 7146

Kemi 2 – Kemi 1 5146

Kemi 1, Seegebiet im SW 4146

Kemi 2 – Ulkokrunni – Virpiniemi 8346

Oulu, Hafen – Kattilankalla 8346

Kattilankalla – Oulu 1 5146

Oulu 1, Seegebiet im SW 4746

Offene See N-lich Breite Marjaniemi 3726

Raahe, Hafen – Heikinkari 7246

Heikinkari – Raahe Leuchtturm 5146

Raahe Leuchtturm – Nahkiainen 4146

Rahja, Hafen – Välimatala 5045

Ykspihlaja – Repskär 7745

Repskär – Kokkola Leuchtturm 5045

Pietarsaari – Kallan 4145

Vaskiluoto – Ensten 7145

Ensten – Vaasa Leuchtturm 4045

Vaasa Leuchtturm – Norrskär 1005

Kaskinen – Sälgrund 3232

Sälgrund, Seegebiet außerhalb 4002

Pori – Linie Pori Leuchtturm – Säppi 1000

Rauma, Hafen – Kymäpihlaja 3102

Uusikaupunki, Hafen – Kirsta 3002

Naantali und Turku – Rajakari 1000

Inkoo u. Kantvik – Porkkala See 3001

Helsinki, Hafen – Harmaja 1000

Valko, Hafen – Täktarn 2122

Kotka – Viikari 2001

Hamina – Suurmusta 3001

Suurmusta – Merikari 2001

Latvia , 22.12.2021

Riga, Hafen 1000

Liepaja, Hafen 2101

Russian Federation, 22.12.2021

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 , 21.12.2021

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	2356
Skelleftehamn – Gåsören	5046
Gåsören, Seegebiet außerhalb	5041
Västra Kvarnen W-lich Holmöarna	5142
Örnsköldsvik – Hörnskatan	5142
Ångermanälv oberhalb Sandöbrücke	5336
Ångermanälv unterhalb Sandöbrücke	2126
Sundsvall – Draghallan	5142
Hudiksvallfjärden	5142
Iggesund – Agö	5142
Gävle – Eggegrund	3122
Hallstavig – Svartklubben	3021
Köping – Kvicksund	5246
Västerås – Grönsö	5246
Grönsö – Södertälje	5144
Stockholm – Södertälje	5144
Karlstad, Fahrwasser nach	5242
Kristinehamn, Fahrwasser nach	5242