



Eisbericht Nr. 16

Amtsblatt des BSH

Jahrgang 95

Nr. 16

Monday, 20.12.2021

1

Übersicht

In der nördlichen Bottenwiek liegt in den Schären 15-30cm dickes Festeis und weiter außerhalb treibt meist 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 zu meist dünnes, ebenes Eis und bis zu 20cm dickes Festeis. Im Rigaischen Meerbusen befindet sich zumeist dünnes Eis im Moonsund und in der Pärnubucht. Neueis und seltener 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 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 mostly thin ice in Moonsund and Pärnu Bay. New ice and rarely 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. Farther out in the east, there is 10–25 cm thick, open ice to about 15nm south of Bothnia-Buoy. Off the fast ice in the west, there is mostly open water with open ice south of Malören. In the southern Bay of Bothnia,

there is 10–20 cm thick fast ice in the archipelagos. Further out in the west is open water and in the east close thin ice between Raahe lighthouse and Nahkiainen. Ice formation and a southerly ice drift is expected.

Norra Kvarken

In the archipelagoes off Vaasa, there is mostly 5–25 cm thick fast ice. Along the Swedish coast there is 5-20cm thick fast or level ice in the inner archi-

pelago. Some ice melt will occur the coming days. Ice drift will be to the south.

Sea of Bothnia

On Ångermanälven, there is 10–20 cm very close

ice in the upper part and very open ice in the lower

Herstellung und Vertrieb

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

© BSH - Alle Rechte vorbehalten
 Nachdruck, auch auszugsweise, verboten

Eisankünfte / Ice Information

Telefon: +49 (0) 381 4563 -780
 Telefax: +49 (0) 381 4563 -949
 E-Mail: ice@bsh.de

© BSH - All rights reserved
 Reproduction in whole or in part prohibited

part. Along the coast in the northern Sea of Bothnia and along the whole Finnish coast, there is 5-

15cm thick level ice. Some ice growth is expected during the next days.

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 Tolbuckin there is new ice and dark nilas. In the Bay of Vyborg, there is 10–20 cm fast ice, the entrance is ice free. 3-10cm very close is present

in the Bjerkesund. In the archipelagoes of the northern coast, there is 5-10cm thick level ice. In Lake Saimaa and the Saimaa Canal, there is 5–25 cm thick fast ice. With moderate to strong frost some ice formation will take place. The ice will drift mostly in southerly direction.

Gulf of Riga

In Moonsund and nearby shallow bays, there is nilas and very close, 5–10 cm thick ice. On the fairways there is open water. In Pärnu Bay, there is

very close, 5-15 cm thick nilas in the east and open water in the west. Some ice formation will occur, but no larger change is expected.

Northern Baltic

In Lake Mälaren, thin level ice is present in the westernmost part and some sheltered bays. Else, there is new ice in very few sheltered bays along

the Swedish coast. Some ice formation may occur.

Southeastern Baltic

In the Curonian Lagoon new ice is present mostly in the eastern part.

Some minor ice formation is expected.

Swedish Lakes

New ice and thin level ice are present in sheltered bays of Lake Vänern.

No larger change is expected.

Dr. J.Holfort

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, Kokkola, Pietarsaari and Vaasa	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	I	22.12.
	Mussalo	2000 dwt	II	25.12.
	Northern Lake Saimaa	2000 dwt	II	08.12.
	Southern Lake Saimaa and Saimaa Canal	2000 dwt	II	11.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	I	22.12.
Sweden	Karlsborg and Luleå	2000 dwt	IC	11.12.
	Haraholmen and Skelleftehamn	2000 dwt	II	04.12.
	Haraholmen and Skelleftehamn	2000 dwt	IC	22.12.
	Holmsund, Rundvik and Husum	2000 dwt	II	22.12.
	Örnsköldsvik	2000 dwt	II	22.12.
	Ångermanälven	1300/2000 dwt	IC/II	04.12.
	Ångermanälven	2000 dwt	IC	22.12.
	Härnösand- Skutskär	2000 dwt	II	22.12.
	Köping and Västerås	1300/2000 dwt	IC/II	06.12.

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>
--	--

Estonia , 20.12.2021

Paernu, port and bay	52/5
Moonsund	21/1

Finland , 20.12.2021

Roeyttae – Etukari	8346
Etukari – Ristinmatala	8346
Ajos – Ristinmatala	8346
Ristinmatala – Kemi 2	7346
Kemi 2 – Kemi 1	3726
Sea area SW of Kemi 1	3726
Kemi 2 – Ulkokrunni – Virpiniemi	8346
Oulu harbours – Kattilankalla	8346
Kattilankalla – Oulu 1	3726
Sea area SW of Oulu 1	3726
High Sea N of the latitude of Marjaniemi	3726
Raahe harbour – Heikinkari	7246
Heikinkari – Raahe lighthouse	5146
Raahe lighthouse – Nahkiainen	5146
Rahja harbour – Välimatala	4045
Ykspihlaja – Repsaer	4745
Pietarsaari – Kallan	3125
Vaskiluoto – Ensten	5745
Kaskinen – Sälgrund	3232
Rauma, Harbour – Kymäpihlaja	5142
Uusikaupunki harbour – Kirsta	5142
Inkoo a. Kantvik – sea area Porkkala	3001
Helsinki harbours – Harmaja	1000
Valko Harbour – Täktarn	3132

Kotka – Viikari

1000

Hamina – Suurmusta

2001

Russian Federation , 20.12.2021

Port of St. Petersburg	51/2
St. Petersburg – E-point island Kotlin	51/2
E-point Kotlin – long. lighth. Tolbukhin	3000
Vyborg, port and bay	82/2

Sweden , 20.12.2021

Karlsborg – Maloeren	8346
Sea area off Maloeren	2356
Luleå – Bjoernklack	8346
E and SE of Farstugrunden	2356
Sandgroenn fairway	8346
Roedkallen – Norstroemsgrund	2356
Haraholmen – Nygrån	8346
Sea area off Nygrån	2356
Western Quark (W of Holmoearna)	5142
Oernskoeldsvik – Hoernskaten	5142
Ångermanaelven north Sandoe Bridge	5336
Ångermanaelven south Sandoe Bridge	2126
Sundsvall – Draghaellan	5142
Hudiksvallfjaerden	5142
Iggesund – Agoe	5142
Gaevle – Eggegrund	3122
Hallstavik – Svartklubben	3021
Koeping – Kvicksund	5246
Västerås – Grönsö	5246

Grönsö – Södertälje	5144
Stockholm – Södertälje	5144
Fairway to Karlstad	5242
Fairway to Kristinehamn	5242
Fairway to Otterbäcken	5041