



Eisbericht Nr. 39

Amtsblatt des BSH

Jahrgang 95

Nr. 39

Friday, 21.01.2022

1

Übersicht

In den Schären der Bottenwiek liegt im Norden 20–50 cm dickes Festeis und im Süden 10–30 cm dickes Festeis. Auf See treibt im Nordosten sehr dichtes, 10–40 cm dickes, örtlich aufgepresstes Eis. Entlang des Eisrandes im Osten befindet sich festgestampftes Eis. Außerhalb des Festeises im Westen treibt zumeist sehr lockeres bis lockeres Eis. In Norra Kvarken liegt in den Schären bis zu 35 cm dickes Festeis und auf See treibt lockeres Eis. Entlang der Küsten und in den Schären der Bottensee, dem Schärenmeer und der Ålandsee liegt Festeis oder dünnes ebenes Eis. Im Finnischen Meerbusen liegt entlang der Nordküste und im Osten bis 35 cm dickes Festeis. Im östlichen Teil treibt auf See sehr dichtes, 10–20 cm dickes Eis und weiter außerhalb lockeres Eis. Im Rigaischen Meerbusen befindet sich bis zu 25 cm dickes Eis im Moonsund und in der Pärnubucht. Dünnes, teilweise ebenes Eis kommt örtlich in der nördlichen Ostsee, dem Vänern und der südöstlichen Ostsee vor. Dünnes Eis kommt in geschützten Buchten der zentralen Ostsee vor. In einigen inneren Fjorden des Skagerraks liegt dünnes Eis oder Festeis.

Overview

In the archipelagos of the Bay of Bothnia, there is 20–50 cm thick fast ice in the north and 10–30 cm thick fast ice in the south. At sea in the northeast, there is very close, 10–40 cm thick ice, partly ridged. Along the eastern ice edge, there is a brash ice barrier. Off the fast ice in the west, there is mostly very open to open drift ice. In Norra Kvarken, there is up to 35 cm thick fast ice in the archipelagos and open ice at sea. Along the coasts and archipelagos of the Sea of Bothnia, the Archipelago Sea and Åland Sea, there is fast ice or thin level ice. In the Gulf of Finland, there is up to 35 cm thick fast ice along the northern coast and in the easternmost part. At sea in the east, there is mostly very close, 10–20 cm thick ice and open ice further out. In the Gulf of Riga, there is up to 25 cm thick ice in Moonsund and Pärnu Bay. Thin ice and thin level ice occurs at places in the northern Baltic, Lake Vänern and the southeastern Baltic. Thin ice occurs in sheltered areas of the central Baltic. Fast ice or thin ice is present in some inner fjords of the Skagerrak.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 20–50 cm thick fast ice, from the Finnish coast reaching out to Hebe and Kattilankalla. Off the fast ice in the east, there is 10–35 cm thick consolidated ice to Kemi-3 and Oulu-4. Further out to the line Kemi-1 – Nahkiainen, there is close 10–40 cm thick ice, partly ridged and in places difficult to force. A brash ice barrier has formed along the

eastern ice edge from Raahe southwards that is difficult to force. Off the fast ice in the west, approximately to the line Bjuröklubb – Falkensgrund – Kemi-1, there is open, 2–15 cm thick ice in the north and very open, 5–15 cm thick ice in the south. Some thicker, 20–30 cm thick, close ice is present south of the line Kemi-1 – Farstugrunden. In the southern Bay of Bothnia, there is 10–35 cm

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

thick fast ice in the archipelagos. Further out on the Finnish side, there is a belt of 10–30 cm very close ice with difficult to force brash ice barriers and very open ice further out.

Norra Kvarken

In the archipelagoes off Vaasa, there is 10–35 cm thick fast ice to Ensten. Further out to Norra Globsten, there is 5–20 cm thick very close ice. Along the Swedish coast, there is 10–25 cm thick fast in the inner archipelagos and very close ice at the western coast of Holmöarna. At sea from Norrskär

Sea of Bothnia

On Ångermanälven, there is 15–35 cm thick fast ice and 5–15 cm level ice in the entrance. Else, there is 10–25 cm fast ice or thin level ice in the eastern archipelagos and in the bays in the northwest; in the southwestern bays, there is mostly 5–20 cm level or fast ice. Along the eastern ice edge,

Archipelago and Åland Sea

Thin level ice is present in inner archipelagos of the coasts and around the Åland islands. On the larger fairways and the outer archipelago at the

Gulf of Finland

From St. Petersburg up to the longitude of Tolbuchin lighthouse there is 25–35 cm thick fast ice. In the Bay of Vyborg, there is 20–35 cm fast ice. In the Bjerkesund, there is 20–35 cm thick fast ice or 10–20 cm thick very close ice. At sea east of Seskar, there is very close, 10–20 cm thick ice. Further west to the island Moščnyj, there is open ice. In the archipelagos of the northern coast, there is fast ice, 10–25 cm thick in the west and 20–35 cm thick in the east. Off the fast ice in the northeast, there is

Gulf of Riga

In Moonsund, there is very close, 10–25 cm thick ice or fast ice along the coasts, in the central part there is very open or open ice. The northern entrance is mostly ice free. In Pärnu Bay, there is 10–25 cm thick fast ice or partly ridged very close ice

Northern Baltic

In Lake Mälaren, there is 5–20 cm thick fast ice or level ice in the western part; the central part is mostly ice free and in sheltered bays further east, there is thin level or new ice. Along the Swedish

Central Baltic

New ice occurs in some sheltered bays along the Swedish coast.

Southeastern Baltic

In the Curonian Lagoon, there is very close, 5–10 cm thick ice in the eastern part.

Over the weekend, there will be some ice formation. The ice drift will first be to the south, changing to north/northeast on Saturday.

northwards, there is mostly 2–10 cm thick open ice.

Over the weekend, some new ice formation in coastal areas is possible. The ice drift will first be to the south, changing to north/northeast on Saturday.

there is thin very close ice and brash ice barriers occur at places.

Over the weekend, there will be some new ice formation along the coast. Ice drift will first be southwards changing to northward on Saturday.

eastern coast, there is mainly open water.

Over the weekend, some ice formation is possible in sheltered places.

very open ice. At the southern coast, thin ice is present in some sheltered bays along the shore, in Luga and Narva Bay there is fast ice along the coast and further out a fringe with very close ice and open ice at sea. In Lake Saimaa and the Saimaa Canal, there is 25–40 cm thick ice.

Over the weekend, some new ice formation is expected. The ice drift will first be to the south, changing to northward on Sunday.

in the eastern part. In the western part, there is mostly very open ice.

Over the weekend, some new ice formation is expected. The ice drift is first southwards changing to northward on Sunday.

coast, there is new ice or shuga in some sheltered bays.

Some new ice formation is possible over the weekend but else no larger changes are expected.

No larger changes are expected over the weekend.

No larger changes are expected over the weekend.

Skagerrak and Kattegat

In some inner fjords of the Skagerrak, there is fast ice, up to 30 cm thick at a few places, and new ice at places.

Over the weekend, no larger changes are expected.

Swedish Lakes

New ice as well as thin level ice is present in sheltered bays of Lake Vänern. Along the northern coast, there is 5–20 cm thick fast ice.

Over the weekend, there might be some new ice formation in coastal areas but else no larger changes.

Dr. W. Aldenhoff

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1600 kW	1C	17.12.
Finland	Tornio, Kemi and Oulu	4000 dwt	IA	16.01.
	Raahe	2000 dwt	IA	16.01.
	Vaasa	2000 dwt	IB	16.01.
	Kokkola, Kalajoki and Pietarsaari	2000 dwt	IB	11.01.
	Kristiinankaupunki, Pori, Rauma, Uusikaupunki, Naantali, Turku, Koverhar, Lappohja, Helsinki and Sköldvik	2000 dwt	II	01.01.
	Kaskinen, Taalintehdas, Förby, Inkoo, Kantvik	2000 dwt	I	16.01.
	Loviisa and Kotka	2000 dwt	I	04.01.
	Hamina	2000 dwt	I	01.01.
	Mussalo	2000 dwt	II	25.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	IB	06.01.
	Lake Saimaa and Saimaa Canal	2000 dwt	IA	22.01.
Russia	Vyborg	-	Ice 1	30.12.
	Vysotsk	-	Ice 2	14.01.
	Primorsk	-	Ice 1	12.01.
	Primorsk	-	Ice 2	27.01.
	Ust-Luga	-	Ice 1	04.01.
	St. Petersburg	-	required	31.12.
Sweden	Karlsborg and Luleå	2000 dwt	IB	06.01.
	Haraholmen and Skelleftehamn	2000 dwt	IB	06.01.
	Holmsund, Rundvik and Husum	2000 dwt	IC	15.01.
	Örnsköldsvik	2000 dwt	IC	15.01.
	Ångermanälven	2000 dwt	IB	06.01.
	Härnösand - Skutskär	2000 dwt	II	22.12.
	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

The traffic separation schemes in the Quark are temporarily out of use from 15 January 2022.

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, URHO, POLARIS, FREJ and YMER assist in the Bay of Bothnia. ALE and ZEUS assist in the Quark and VOIMA in the eastern Gulf of Finland. CALYPSO and PROTECTOR assist in the Lake Saimaa and the Saimaa Canal.

Norway

Husøysund, Tønsberg indre havn and Vestfjorden (Tønsberg): Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size. (28.12.21)

Hellefjorden (Kragerø): Navigation temporarily closed. (10.01.22)

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: A_B Amount and arrangements of sea ice 0 Ice free 1 Open water – concentration less than 1/10 2 Very open ice - concentration 1/10 to 3/10 3 Open ice – concentration 4/10 to 6/10 4 Close ice – concentration 7/10 to 8/10 5 Very close ice – concentration 9/10 to 9+/10 6 Compact ice, including consolidated ice – concentration 10/10 7 Fast ice with drift ice outside 8 Fast ice 9 Lead in very close or compact drift ice or along the fast ice edge / Unable to report</p> <p>Third number: T_B Topography or form of ice 0 Pancake ice, ice cakes, brash ice – less than 20 m across 1 Small ice floes – 20 to 100 m across 2 Medium ice floes – 100 to 500 m 3 Big ice floes – 500 to 2000 m across 4 Vast or giant ice floes – more than 2000 m across – or level ice 5 Rafted ice 6 Compact slush or shuga, or compacted brash ice 7 Hummocked or ridged ice 8 Thaw holes or many puddles on the ice 9 Rotten ice / No information or unable to report</p>	<p>Second number: S_B Stage of ice development 0 New ice or dark nilas (less than 5 cm thick) 1 Light nilas (5 - 10 cm thick) or ice rind 2 Grey ice (10 - 15 cm thick) 3 Grey-white ice (15 - 30 cm thick) 4 White ice, first stage (30 - 50 cm thick) 5 White ice, second stage (50 - 70 cm thick) 6 Medium first year ice (70 - 120 cm thick) 7 Ice predominantly thinner than 15 cm with some thicker ice 8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice 9 Ice predominantly thicker than 30 cm with some thinner ice / No information or unable to report</p> <p>Fourth number: K_B Navigation conditions in ice 0 Navigation unobscured 1 Navigation difficult or dangerous for wooden vessels without ice sheathing 2 Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable 3 Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice 4 Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker 5 Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size 6 Icebreaker assistance can only be given to vessels of special ice class and of special size 7 Icebreaker assistance can only be given to vessels after special permission 8 Navigation temporarily closed 9 Navigation has ceased / Unknown</p>
--	--

Estonia , 21.01.2022

Shipping route from Narva-Jõssuu 72/2
 Kunda, port and bay 10/0

Paernu, port and bay 7347
 Shipp. route from Paernu to Irben Strait 42/2
 Moonsund 32/2

Finland , 21.01.2022

Roeyttae – Etukari	8446
Etukari – Ristinmatala	8846
Ajos – Ristinmatala	8846
Ristinmatala – Kemi 2	5876
Kemi 2 – Kemi 1	5376
Sea area SW of Kemi 1	4776
Kemi 2 – Ulkokrunni – Virpiniemi	7876
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	6846
Sea area SW of Oulu 1	5756
High Sea N of the latitude of Marjaniemi	4756
Raahe harbour – Heikinkari	8346
Heikinkari – Raahe lighthouse	6766
Raahe lighthouse – Nahkiainen	5766
Latitude Marjaniemi – Ulkokalla, Sea	3006
Rahja harbour – Välimatala	6366
Vaelimatala to line Ulkokalla – Ykskivi	2716
Sea betw. lat. of Ulkokalla – Pietarsaari	2006
Ykspihlaja – Repsaer	7366
Repskaer – Kokkola lighthouse	6766
Sea area off Kokkola lighthouse	1006
Pietarsaari – Kallan	7346
Sea area off Kallan	6266
Sea lat. Pietarsaari – NE Nordvalen	3216
Sea area ENE of Nordvalen	3216
Sea area Nordvalen to W of Norrskaer	2116
Vaskiluoto – Ensten	8846
Ensten – Vaasa lighthouse	5746
Vaasa lighthouse – Norrskaer	1116
Kaskinen – Sälgrund	2716
Sea area off Sälgrund	4266
Pori harb. to line Pori lighth. – Säppi	3145
Rauma, Harbour – Kylmäpihlaja	5745
Uusikaupunki harbour – Kirsta	8745
Kirsta – Isokari	2215
Naantali and Turku – Rajakari	3015
Rajakari – Lövskär	1005
Lövskär – Korra	1005
Korra – Isokari	1005
Lövskär – Berghamn	1005
Hanko – Vitgrund	1005
Koverhar – Hästö Busö	1005
Inkoo a. Kantvik – sea area Porkkala	7106
Helsinki harbours – Harmaja	2705
Harmaja – Helsinki lighthouse	0//5
Fairway Helsinki – Porkkala – Rönnskär	0//5
Vuosaari harbour – Eestiluoto	2715
Eestiluoto – Helsinki lighthouse	1005
Porvoo harbours – Varlax	2115
Varlax – Porvoo lighthouse	1115
Valko Harbour – Täktarn	7746
Archipelago fairway Boistö – Glosholm	1105
Archipelago fairway Glosholm–Helsinki	1105
Kotka – Viikari	2216
Viikari – Orregrund	1205
Orregrund – Tiiskeri	1105
Hamina – Suurmusta	8846
Suurmusta – Merikari	1216
Merikari – Kaunissaari	1216

Russian Federation , 21.01.2022

Port of St. Petersburg	83/3
St. Petersburg – E-point island Kotlin	83/3
E-point Kotlin – long. lighth. Tolbuhkin	83/3
Lighth. Tolbuhkin – lighth. –Šepelevskij	52/3
Lighthouse Šepelevskij – island Sescar	52/3
Island Sescar – Island Sommers	1201
Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	1201
Strait Bjerkesund	42/2
E-point Bol'šoj Ber'ozovyj – –epelevskij	42/3
Luga bay	42/3
Appr. Luga bay – line Mo–.—epel.	2211

Sweden , 21.01.2022

Karlsborg – Maloeren	8446
Sea area off Maloeren	3226
Luleå – Bjoernklack	8446
Bjoernklack – Farstugrunden	3226
E and SE of Farstugrunden	3226
Sandgroenn fairway	8446
Roedkallen – Norstroemsgrund	3226
Haraholmen – Nygrån	8446
Sea area off Nygrån	2226
Skelleftehamn – Gåsoeren	2226
Sea area off Gåsoeren	3226
Sea area off Bjuroeklubb	3226
NE of Nordvalen	3126
SW of Nordvalen	3126
Western Quark (W of Holmoearna)	8346
Umeå – Vaektaren	3126
SE of Vaektaren	3126
Oernskoeldsvik – Hoernskaten	8346
Ångermanaelven north Sandoe Bridge	8444
Ångermanaelven south Sandoe Bridge	8444
Haernoessand – Haernoen	5244
Sundsvall – Draghaellan	8346
Hudiksvallfjaerden	5246
Iggesund – Agoe	5246
Sandarne – Haellgrund	5146
Ljusnefjaerden – Storjungfrun	1106
Gaeve – Eggegrund	8346
Hallstavik – Svartklubben	5142
Koeping – Kvicksund	8344
Västerås – Grönsö	8344
Fairway to Karlstad	8342
Fairway to Kristinehamn	8342