



Eisbericht Nr. 27

Amtsblatt des BSH

Jahrgang 95

Nr. 27

Wednesday, 05.01.2022

1

Übersicht

In der nördlichen Bottenwiek liegt in den Schären 20–35 cm dickes Festeis. Weiter außerhalb treibt im Osten lockeres bis dichtes, 5–30 cm dickes Eis oder Neueis und im Westen Neueis. In der südlichen Bottenwiek und Norra Kvarken liegt in den Schären bis zu 30 cm dickes Festeis. Weiter außerhalb kommt zu meist Neueis vor und auf See treibt in Norra Kvarken lockeres Eis oder Neueis. Entlang der Küsten der Bottensee, dem Schärenmeer und der Ålandsee liegt Festeis oder dünnes ebenes Eis und etwas Treibeis weiter außerhalb in der Bottensee. Im Finnischen Meerbusen liegt entlang der Nordküste und im Osten Festeis. Im östlichen Teil treibt auf See lockeres Eis oder Neueis. Im Rigaischen Meerbusen befindet sich bis zu 25 cm dickes Eis im Moonsund und in der Pärnubucht. Neueis oder dünnes, ebenes Eis kommt in der nördlichen Ostsee, den Haffgebieten der südöstlichen Ostsee und dem Vänern vor. Neueis kommt in geschützten Buchten der zentralen Ostsee und der südlichen Ostsee vor. In einigen inneren Fjorden des Skagerraks liegt Neueis oder Festeis.

Overview

In the northern Bay of Bothnia, there is 20–35 cm thick fast ice in the archipelagos. Further out in the east, there is open to close, 5–30 cm thick drift ice or new ice, and in the west new ice. In the southern Bay of Bothnia and Norra Kvarken, there is up to 30 cm thick fast ice in the archipelagos. Further out, there is mostly new ice and at sea in Norra Kvarken, there is open drift ice or new ice. Along the coasts of the Sea of Bothnia, the Archipelago Sea and Åland Sea, there is fast ice or thin level ice and some drift ice further out in the Sea of Bothnia. In the Gulf of Finland, there is fast ice along the northern coast and in the easternmost part. At sea in the east, there is open ice and new ice. In the Gulf of Riga, there is up to 25 cm 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. New ice occurs in sheltered areas of the central Baltic and the southern Baltic. Fast ice or new ice is present in some inner fjords of the Skagerrak.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 20–35 cm thick fast ice, from the Finnish coast reaching out to Hebe and Kattilankalla. Off the fast ice in the east, there is 10–30 cm thick consolidated ice to Kemi-3 and Oulu-3. Further out, there is new ice to approximately the line Kemi-1 – Nahkianinen and 5–30 cm thick, open to close ice to about 23° E. Off the fast ice in the west, there is

first thin level ice and then new ice to Farstugrunden – Norströmsgrund – Simpgrund. In the southern Bay of Bothnia, there is 10–30 cm thick fast ice in the archipelagos. Further out in the east, there is new ice and thin, very open ice, and in the west a band of new ice. Further ice growth and ice formation and a southward ice drift is expected the coming days.

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

Norra Kvarken

In the archipelagoes off Vaasa, there is 10–35 cm thick fast ice to Ensten. Further out to Norrskär, there is thin open ice. Along the Swedish coast, there is 10–20 cm thick fast in the inner archipela-

Sea of Bothnia

On Ångermanälven, there is 15–35 cm thick fast ice in the upper part and 5–20 cm level ice in the lower part. Else, there is 10–20 cm fast ice or thin level ice in the archipelagos and bays. Further out

Archipelago and Åland Sea

Thin level ice is present in inner archipelagos of the coasts. Else, there is new ice in the archipela-

Gulf of Finland

From St. Petersburg up to the dike, there is 20–30 cm thick fast ice. Farther out, there is first 15–25cm thick, very close ice to about 29°30'E followed by 5–10cm thick open. In the Bay of Vyborg, there is 20–30 cm fast ice. In the Bjerkesund, there is fast ice or thin level ice. In the archipelagos of the northern coast, there is 10–30 cm fast ice and

Gulf of Riga

In Moonsund, there is very close, 10–25 cm thick ice. In the central part, there is very open to close ice. At the south coast of Saaremaa, there is thin level ice and very open ice further out. In Pärnu

Northern Baltic

In Lake Mälaren, there is 10–20 cm thick fast ice or level ice in the western part. The central part is mostly ice free and in sheltered bays further east,

Central Baltic

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

Southeastern Baltic

In the Curonian Lagoon, there is very close ice in the eastern part. In the Vistula Lagoon, there is

Southern Baltic

In the Szczecin Lagoon, rest ice is present in places along the northern shore.

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. Else, it is mostly ice free. Some ice for-

Swedish Lakes

New ice as well as thin level ice is present in sheltered bays of Lake Vänern. Along the northern

gos. At sea, there is 3–15 cm thick very open to open ice and new ice. Ice formation and growth is expected the coming days. The ice will drift southwards.

along the Finnish coast, there is a thin belt of 3–10 cm thick, close drift ice in the north and open drift ice in the south. Southward drifting ice and Ice growth is expected the coming days.

gos. Some smaller ice formation and growth is expected the coming days.

thin level ice further out. At sea, there is open, 3–10 cm thick open to very open ice east of 27°50' E. At the southern coast, new ice is present Narva Bay and in places near the shore. In Lake Saimaa and the Saimaa Canal, there is 15–35 cm thick ice. Some ice formation is expected and the ice drift is in southeasterly directions.

Bay, there is 10–25 cm thick fast ice or very close ice to Kihnu. No larger changes are expected. Ice drift is mostly to the north/northeast.

there is thin level or new ice. Along the Swedish coast, there is new ice or shuga in some sheltered bays. No major changes the coming days.

No major changes are expected.

thin ice in places.
Ice melt continues the coming days.

Ice melt continues.

mation is expected in the northern fjords, else no larger changes are expected.

coast, there is 5–20 cm thick fast ice.
No major 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 Raahe	2000 dwt	IB	25.12.
	Kokkola and Vaasa	2000 dwt	I	22.12.
	Kalajoki and Pietarsaari	2000 dwt	I	25.12.
	Kaskinen, Kristiinankaupunki, Pori, Rauma, Uusikaupunki, Naantali, Turku, Taalintehdas, Förby, Koverhar, Lappohja, Inkoo, Kantvik, Helsinki and Sköldvik	2000 dwt	II	01.01.
	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	I	22.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	IB	06.01.
Russia	Vyborg	-	Ice 1	30.12.
	Vysotsk	-	Ice 1	27.12.
	Primorsk	-	Ice 1	12.01.
	Ust-Luga	-	Ice 1	04.01.
	St. Petersburg	-	required	31.12.
Sweden	Karlsborg and Luleå	2000 dwt	IC	11.12.
	Karlsborg and Luleå	2000 dwt	IB	06.01.
	Haraholmen and Skelleftehamn	2000 dwt	IC	22.12.
	Haraholmen and Skelleftehamn	2000 dwt	IB	06.01.
	Holmsund, Rundvik and Husum	2000 dwt	II	22.12.
	Örnsköldsvik	2000 dwt	II	22.12.
	Ångermanälven	2000 dwt	IC	22.12.
	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.
	Trollhätte Canal and Göta Älv	1300/2000 dwt	IC/II	03.01.
	Vänern	1300/2000 dwt	IC/II	03.01.

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, URHO, FREJ and YMER assist in the Bay of Bothnia. ALE and **ZEUS** assist in the Quark and SISU in the eastern Gulf of Finland. PROTECTOR and METEOR assist in the northern Lake Saimaa. CALYPSO assists in the southern 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)

Langårsund and Hellefjorden (Kragerø): Navigation temporarily closed. (27.12.21)

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 , 05.01.2022

Shipping route from Narva-Jõssuu	30/1
Kunda, port and bay	2000
Muuga, port and bay	1//0
Tallinn, port and bay	1//0
Paernu, port and bay	7345
Moonsund	2212

Finland , 04.01.2022

Roeyttae – Etukari	8346
Etukari – Ristinmatala	8346
Ajos – Ristinmatala	8346
Ristinmatala – Kemi 2	5746
Kemi 2 – Kemi 1	4746
Sea area SW of Kemi 1	4746
Kemi 2 – Ulkokrunni – Virpiniemi	7346

Oulu harbours – Kattilankalla	8346
Kattilankalla – Oulu 1	6346
Sea area SW of Oulu 1	4146
High Sea N of the latitude of Marjaniemi	4746
Raahe harbour – Heikinkari	7746
Heikinkari – Raahe lighthouse	5746
Raahe lighthouse – Nahkiainen	4146
Latitude Marjaniemi – Ulkokalla, Sea	3726
Rahja harbour – Välimatala	5766
Välimatala to line Ulkokalla – Ykskivi	3026
Sea betw. lat. of Ulkokalla –Pietarsaari	2116
Ykspihlaja – Repsaer	7766
Repskaer – Kokkola lighthouse	3116
Sea area off Kokkola lighthouse	3116
Pietarsaari – Kallan	7746
Sea area off Kallan	2016

Sea lat. Pietarsaari – NE Nordvalen	4046	NE of Nordvalen	4046
Sea area ENE of Nordvalen	3016	SW of Nordvalen	1106
Sea area Nordvalen to W of Norrskaer	2226	Western Quark (W of Holmoearna)	8246
Vaskiluoto – Ensten	8346	Umeå – Vaektaren	4046
Ensten – Vaasa lighthouse	2016	SE of Vaektaren	1106
Vaasa lighthouse – Norrskaer	3126	Fairway to Husum	2026
Kaskinen – Sälgrund	5245	Oernskoeldsvik – Hoernskaten	5246
Sea area off Sälgrund	2115	Ångermanaelven north Sandoe Bridge	8444
Pori harb. to line Pori lighth. – Säppi	1015	Ångermanaelven south Sandoe Bridge	8444
Rauma, Harbour – Kylmäpihlaja	5745	Haernoessand – Haernoen	5244
Kylmäpihlaja – Rauma lighthouse	1105	Sundsvall – Draghaellan	8346
Uusikaupunki harbour – Kirsta	5245	Draghaellan – Åstholsudde	3126
Kirsta – Isokari	2225	Hudiksvallfjaerden	5246
Naantali and Turku – Rajakari	1005	Iggesund – Agoe	5246
Koverhar – Hästö Busö	1005	Sandarne – Haellgrund	5146
Inkoo a. Kantvik – sea area Porkkala	5745	Ljusnefjaerden – Storzungfrun	2026
Helsinki harbours – Harmaja	5145	Gaeve – Eggegrund	5146
Harmaja – Helsinki lighthouse	0//5	Oeregrundsgrepen	2121
Fairway Helsinki – Porkkala – Rönnskär	1005	Hallstavik – Svartklubben	5142
Vuosaari harbour – Eestiluoto	5145	Koeping – Kvicksund	8344
Eestiluoto – Helsinki lighthouse	0//5	Västerås – Grönsö	8344
Porvoo harbours – Varlax	5245	Grönsö – Södertälje	5144
Varlax – Porvoo lighthouse	0//5	Stockholm – Södertälje	5244
Valko Harbour – Täktarn	5766	Södertälje – Fifong	3124
Archipelago fairway Boistö – Glosholm	0//5	Norrköping – Hargökalv	4041
Archipelago fairway Glosholm–Helsinki	5245	Karlskrona – Aspö	3021
Kotka – Viikari	5246	Fairway to Karlshamn	3021
Viikari – Orregrund	1015	Uddevalla – Stenungsund	4041
Orregrund – Tiiskeri	0//5	Vänernborgsviken	2024
Hamina – Suurmusta	8346	Fairway to Karlstad	8344
Suurmusta – Merikari	5246	Fairway to Kristinehamn	8344
Merikari – Kaunissaari	1016	Fairway to Otterbäcken	3024

Russian Federation , 05.01.2022

Port of St. Petersburg	63/3
St. Petersburg – E-point island Kotlin	83/3
E-point Kotlin – long. lighth. Tolbukhin	83/3
Lighth. Tolbukhin – lighth. –Šepelevskij	3222
Lighthouse Šepelevskij – island Sescar	2001
Island Sescar – Island Sommers	2001
Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	2001
Strait Bjerkesund	4002
E-point Bol'šoj Ber'ozovyj –Šepelevskij	4102
Luga bay	1000
Apr. Luga bay – line Mo.–epel.	1000

Sweden , 05.01.2022

Karlsborg – Maloeren	8446
Sea area off Maloeren	4356
Luleå – Bjoernklack	8446
Bjoernklack – Farstugrunden	4046
E and SE of Farstugrunden	4046
Sandgroenn fairway	8446
Roedkallen – Norstroemgrund	5136
Haraholmen – Nygrån	8446
Sea area off Nygrån	4046
Skelleftehamn – Gåsoeren	5136
Sea area off Gåsoeren	5136
Sea area off Bjueroeklubb	4046