



Eisbericht Nr. 31

Amtsblatt des BSH

Jahrgang 95

Nr. 31

Tuesday, 11.01.2022

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Übersicht

In den Schären der Bottenwiek liegt im Norden 20–40 cm dickes Festeis und im Süden 10–30 cm dickes Festeis. Auf See befindet sich dünnes, ebenes Eis oder sehr dichtes, 5–15 cm dickes Eis. Örtlich kommen dickere Schollen vor. In Norra Kvarken liegt in den Schären bis zu 30 cm dickes Festeis und auf See kommt lockeres bis sehr dichtes, 2–15 cm dickes, örtlich auch dickeres, Treibeis vor. Entlang der Küsten der Bottensee, dem Schärenmeer und der Ålandsee liegt Festeis oder dünnes ebenes Eis und etwas weiter außerhalb kommt insbesondere im Osten Neueis vor. Im Finnischen Meerbusen liegt entlang der Nordküste und im Osten bis 35 cm dickes Festeis. Im östlichen Teil treibt auf See dichtes bis sehr dichtes, 3–15 cm dickes Eis oder Neueis. Im Rigaischen Meerbusen befindet sich bis zu 25 cm dickes Eis im Moonsund und in der Pärnubucht sowie Neueis im nordöstlichen Teil. Neueis oder dünnes, ebenes Eis kommt in der nördlichen Ostsee und dem Vänern vor. Neueis kommt in geschützten Buchten der zentralen Ostsee und der südöstlichen Ostsee vor. In einigen inneren Fjorden des Skagerraks liegt Neueis oder Festeis.

Overview

In the archipelagos of the Bay of Bothnia, there is 20–40 cm thick fast ice in the north and 10–30 cm thick fast ice in the south. At sea, there is thin level ice or very close, 5–15 cm thick ice with thicker floes at places. In Norra Kvarken, there is up to 30 cm thick fast ice in the archipelagos and open to very close, 2–15 cm thick, at places thicker, ice at sea. Along the coasts of the Sea of Bothnia, the Archipelago Sea and Åland Sea, there is fast ice or thin level ice and, especially in the east, new ice further out. 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 close to very close, 3–15 cm thick ice or new ice. In the Gulf of Riga, there is up to 25 cm thick ice in Moonsund and Pärnu Bay and new ice in the northeastern part. New ice and thin level ice occurs at places in the northern Baltic and Lake Vänern. New ice occurs in sheltered areas of the central Baltic and the southeastern 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 20–40 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-2 and Oulu-3. In the southern Bay of Bothnia, there is 10–30 cm thick fast ice in the archipelagos. At sea, there is mostly

thin level ice or very close, 5–15 cm thick ice, partly ridged. In the southern bay of Bothnia, there are areas with thicker floes, 5–25 cm thick. Off Kokkola, a brash ice barrier is difficult to force.

The coming day, some ice formation and ice growth continues. The ice drifts to the north/northeast.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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Norra Kvarken

In the archipelagoes off Vaasa, there is 10–35 cm thick fast ice to Ensten and very close, 4–15 cm thick ice to Vaasa lighthouse. Along the Swedish coast, there is 10–20 cm thick fast in the inner archipelagos. At sea, there is 2–15 cm thick open

ice to Nordvalen. North of Nordvalen, there is very close ice, 5–25 cm thick.

There will be ice drift to the north/northeast, but else no larger changes.

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 10–25 cm fast ice or thin level ice in the archipelagos and bays. Further out

along the Finnish coast, there is a thin belt of new ice or thin close ice.

No larger changes are expected the coming day.

Archipelago and Åland Sea

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

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No larger changes are expected the coming day.

Gulf of Finland

From St. Petersburg up to the dike, there is 25–35 cm thick fast ice. Farther out to Tolbushin lighthouse, there is 20–30 cm thick fast ice. In the Bay of Vyborg, there is 25–35 cm fast ice. In the Bjerkesund, there is fast ice, 20–30 cm thick, or very close ice. At sea east of about 27° E, there is mostly close to very close, 3–15 cm thick ice and new ice in places at the western ice edge. In the archipelagos of the northern coast, there is 20–35

cm fast ice. Off the fast ice, there is very close ice in the eastern part and new ice or 3–8 cm thick, close ice to the line Porkkala – Kalbådgrund – Gogland. At the southern coast, new ice is in bays along the shore. In Lake Saimaa and the Saimaa Canal, there is 15–35 cm thick ice.

Ice formation and ice growth continues the coming day. Ice drift is mostly to the north/northeast.

Gulf of Riga

In Moonsund, there is very close, 10–25 cm thick ice and fast ice in the eastern bays. At the south coast of Saaremaa, there is thin level ice or very close ice. In Pärnu Bay, there is 10–25 cm thick fast ice or very close ice to Kihnu. Off the ice in the

northeastern part and around the large islands of Moonsund, there is new ice and new ice formation. In the port of Riga, there is some new ice.

Some new ice formation is expected the coming day. Ice drift is to the north/northeast.

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, 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.

Central Baltic

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

No major changes are expected.

Southeastern Baltic

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

Some new ice formation and ice growth is expected the coming day.

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.

No larger changes are expected the coming day.

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.

No major change is expected the coming day.

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	2000 dwt	IA	11.01.
	Tornio, Kemi and Oulu	4000 dwt	IA	16.01.
	Raahe	2000 dwt	IB	25.12
	Raahe	2000 dwt	IA	16.01.
	Vaasa	2000 dwt	I	22.12.
	Vaasa	2000 dwt	IB	16.01.
	Kokkola	2000 dwt	IB	11.01.
	Kalajoki and Pietarsaari	2000 dwt	IB	11.01.
	Kaskinen, Kristiinankaupunki, Pori, Rauma, Uusikaupunki, Naantali, Turku, Taalintehdas, Förby, Koverhar, Lappohja, Inkoo, Kantvik, 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.
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	IB	06.01.
	Haraholmen and Skelleftehamn	2000 dwt	IB	06.01.
	Holmsund, Rundvik and Husum	2000 dwt	II	22.12.
	Holmsund, Rundvik and Husum	2000 dwt	IC	15.01.
	Örnsköldsvik	2000 dwt	II	22.12
	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.
	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

Drammensfjord: Navigation dangerous for low powered vessels. (07.01.2022)

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)

Skåtøysund (Kragerø): Navigation difficult or dangerous for wooden vessels (10.01.22)

Langårsund and 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:</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, 11.01.2022

Shipping route from Narva-Jõssuu	51/2
Kunda, port and bay	3000
Muuga, port and bay	1//0
Tallinn, port and bay	1//0
Paernu, port and bay	7345
Moonsund	52/2

Finland, 11.01.2022

Roeyttae – Etukari	8846
Etukari – Ristinmatala	8846

Ajos – Ristinmatala	8846
Ristinmatala – Kemi 2	5746
Kemi 2 – Kemi 1	5246
Sea area SW of Kemi 1	5256
Kemi 2 – Ulkokrunni – Virpiniemi	7346
Oulu harbours – Kattilankalla	8846
Kattilankalla – Oulu 1	6846
Sea area SW of Oulu 1	5756
High Sea N of the latitude of Marjaniemi	5756
Raahe harbour – Heikinkari	7346
Heikinkari – Raahe lighthouse	5746

Raahelighthouse – Nahkiainen	5746	E-point Kotlin – long. lighth. Tolbukhin	83/3
Latitude Marjaniemi – Ulkokalla, Sea	5746	Lighth. Tolbukhin – lighth. –Šepelevskij	51/2
Rahja harbour – Välimatala	5366	Lighthouse Šepelevskij – island Sescar	52/3
Vaelimatala to line Ulkokalla – Ykskivi	5746	Island Sescar – Island Sommers	52/3
Sea betw. lat. of Ulkokalla –Pietarsaari	5746	Island Sommers– S-point island Gogland	51/2
Ykspihlaja – Repsaer	7366	Vyborg, port and bay	83/3
Repskaer – Kokkola lighthouse	5766	Island Vichrevoj – Island Sommers	52/3
Sea area off Kokkola lighthouse	5746	Strait Bjerkesund	51/2
Pietarsaari – Kallan	7766	E-point Bol'šoj Ber'ozovyj epelevskij	52/2
Sea area off Kallan	5246	Luga bay	52/3
Sea lat. Pietarsaari – NE Nordvalen	5746	Appr. Luga bay – line Mo–.—epel.	52/3
Sea area ENE of Nordvalen	5746		
Sea area Nordvalen to W of Norrskaer	3116	Sweden, 11.01.2022	
Vaskiluoto – Ensten	8846	Karlsborg – Maloeren	8446
Ensten – Vaasa lighthouse	5246	Sea area off Maloeren	5246
Vaasa lighthouse – Norrskaer	2216	Luleå – Bjoernklack	8446
Sea area SW of Norrskaer	1016	Bjoernklack – Farstugrunden	5246
Kaskinen – Sälgrund	5745	E and SE of Farstugrunden	5246
Sea area off Sälgrund	5145	Sandgroenn fairway	8446
Pori harb. to line Pori lighth. – Säppi	4145	Roedkallen – Norstroemsgrund	5246
Rauma, Harbour – Kymäpihlaja	5745	Haraholmen – Nygrån	8446
Kymäpihlaja – Rauma lighthouse	4145	Sea area off Nygrån	5246
Sea area W of Rauma lighthouse	3105	Skelleftehamn – Gåsoeren	5236
Uusikaupunki harbour – Kirsta	5245	Sea area off Gåsoeren	5246
Kirsta – Isokari	4245	Sea area off Bjuroeklubb	5246
Isokari – Sandbaeck	3005	NE of Nordvalen	3226
Naantali and Turku – Rajakari	3015	SW of Nordvalen	3226
Rajakari – Lövskär	3015	Western Quark (W of Holmoearna)	8246
Lövskär – Korra	2005	Umeå – Vaektaren	5266
Korra – Isokari	3005	SE of Vaektaren	5266
Lövskär – Berghamn	3005	Oernskoeldsvik – Hoernskaten	5246
Hanko – Vitgrund	4045	Ångermanaelven north Sandoe Bridge	8444
Koverhar – Hästö Busö	3005	Ångermanaelven south Sandoe Bridge	8444
Inkoo a. Kantvik – sea area Porkkala	5745	Haernoessand – Haernoen	5244
Helsinki harbours – Harmaja	5245	Sundsvall – Draghaellan	8346
Harmaja – Helsinki lighthouse	4045	Draghaellan – Åstholmsudde	5046
Fairway Helsinki – Porkkala – Rönnskär	4045	Hudiksvallfjaerden	5246
Vuosaari harbour – Eestiluoto	5245	Iggesund – Agoe	5246
Eestiluoto – Helsinki lighthouse	3005	Sandarne – Haellgrund	5146
Porvoo harbours – Varlax	5245	Gaevle – Eggegrund	5146
Varlax – Porvoo lighthouse	4045	Hallstavik – Svartklubben	5142
Porvoo lighthouse – Kalbådagrund	3005	Koeping – Kvicksund	8344
Valko Harbour – Täktarn	7746	Västerås – Grönsö	8344
Archipelago fairway Boistö – Glosholm	4145	Grönsö – Södertälje	5144
Archipelago fairway Glosholm–Helsinki	4145	Stockholm – Södertälje	5144
Kotka – Viikari	5246	Södertälje – Fifong	3124
Viikari – Orregrund	5246	Norrköping – Hargökalv	4041
Orregrund – Tiiskeri	4146	Uddevalla – Stenungsund	4041
Tiiskeri – Kalbådagrund	3016	Vänersborgsviken	2024
Hamina – Suurmusta	8846	Fairway to Karlstad	8344
Suurmusta – Merikari	5246	Fairway to Kristinehamn	8344
Merikari – Kaunissaari	5246	Fairway to Otterbäcken	2024

Latvia, 11.01.2022

Port of Riga	1100
Port of Ventspils	1000

Russian Federation, 11.01.2022

Port of St. Petersburg	83/3
St. Petersburg – E-point island Kotlin	83/3