



Eisbericht Nr. 30

Amtsblatt des BSH

Jahrgang 95

Nr. 30

Monday, 10.01.2022

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Übersicht

In den Schären der Bottenwiek liegt im Norden 20–35 cm dickes Festeis und im Süden 10–30 cm dickes Festeis. Auf See befindet sich dünnes, ebenes Eis oder sehr dichtes, 3–15 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 2–15 cm dickes, dichtes bis sehr dichtes 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 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. 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 20–35 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, 3–15 cm thick ice with thicker floes at places. In Norra Kvarken, there is up to 30 cm thick fast ice in the archipelagos and close to very close, 2–15 cm thick 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 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. 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 20–35 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-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, 3–15 cm thick ice. From Falkensgrund to the southwest, there are some thicker, up to 25 cm thick ice floes. Off Kokkola, a brash ice barrier is difficult to force.

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

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. Along the Swedish coast, there is 10–20 cm thick fast in the inner archipelagoes. At sea, there is 2–15 cm thick close to very

close ice.

New ice formation and ice growth is expected the coming day. The ice drifts to the north/northeast.

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.

Some ice formation and ice growth is expected the coming day especially along the eastern coast.

Archipelago and Åland Sea

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

gos.

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°20' E, there is mostly open to very close, 5–15 cm thick ice and new ice at places. In the archipelagos of the north-

ern coast, there is 20–35 cm fast and very close ice off the fast ice. Further out, there is new ice or close, 2–7 cm thick ice. 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.

Ice formation and ice growth continues the coming day. Ice drift is mostly to the south /southwest.

Gulf of Riga

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

and new ice further out. In the port of Riga, there is some new ice.

Some new ice formation is expected the coming day. Ice drift is to the west/southwest.

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

Some new ice formation and ice growth 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, Oulu and Raahе	2000 dwt	IB	25.12.
	Tornio, Kemi and Oulu	2000 dwt	IA	11.01.
	Kokkola and Vaasa	2000 dwt	I	22.12.
	Kokkola	2000 dwt	IB	11.01.
	Kalajoki and Pietarsaari	2000 dwt	I	25.12.
	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.
	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

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: 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>
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Estonia, 10.01.2022

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, 10.01.2022

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
Raahe lighthouse – Nahkiainen	5746
Latitude Marjaniemi – Ulkokalla, Sea	5746
Rahja harbour – Välimatala	5366
Vaelimatala to line Ulkokalla – Ykskivi	5746
Sea betw. lat. of Ulkokalla – Pietarsaari	5746
Ykspihlaja – Repsaer	7366
Repskaer – Kokkola lighthouse	5766
Sea area off Kokkola lighthouse	5746
Pietarsaari – Kallan	7766
Sea area off Kallan	5246
Sea lat. Pietarsaari – NE Nordvalen	5746
Sea area ENE of Nordvalen	5746

Sea area Nordvalen to W of Norrskær	4746	Björnklack – Farstugrunden	5246
Vaskiluoto – Ensten	8346	Farstugrunden, See im E und SE	5246
Ensten – Vaasa lighthouse	5246	Sandgrönn Fahrwasser	8446
Vaasa lighthouse – Norrskær	4246	Rödkaullen – Norströmsgrund	5246
Sea area SW of Norrskær	2016	Haraholmen – Nygrån	8446
Kaskinen – Sälgrund	5745	Nygrån, Seegebiet außerhalb	5246
Sea area off Sälgrund	5145	Skelleftehamn – Gåsören	5236
Pori harb. to line Pori lighth. – Säppi	3105	Gåsören, Seegebiet außerhalb	5246
Rauma, Harbour – Kylmäpihlaja	5745	Bjuröklubb, Seegebiet außerhalb	5246
Kylmäpihlaja – Rauma lighthouse	3105	Nordvalen, See im NE	5336
Sea area W of Rauma lighthouse	3105	Nordvalen, See im SW	5336
Uusikaupunki harbour – Kirsta	5245	Västra Kvarnen W-lich Holmöarna	8246
Kirsta – Isokari	4245	Umeå – Väktaren	4236
Isokari – Sandbaeck	3005	Väktaren, See im SE	4236
Naantali and Turku – Rajakari	1005	Sydostbrotten, See im NE u. SE	4236
Korra – Isokari	3005	Husum, Fahrwasser nach	4046
Hanko – Vitgrund	3005	Örnsköldsvik – Hörnskatén	5246
Koverhar – Hästö Busö	3005	Skagsudde, Seegebiet außerhalb	4041
Inkoo a. Kantvik – sea area Porkkala	5745	Ångermanälv oberhalb Sandöbrücke	8446
Helsinki harbours – Harmaja	5145	Ångermanälv unterhalb Sandöbrücke	8446
Harmaja – Helsinki lighthouse	3005	Härnösand – Härnön	5246
Fairway Helsinki – Porkkala – Rönnskär	3005	Sundsvall – Draghallan	8346
Vuosaari harbour – Eestiluoto	5145	Draghallan – Åstholmsudde	5046
Eestiluoto – Helsinki lighthouse	3005	Hudiksvallfjärden	5246
Porvoo harbours – Varlax	5245	Iggesund – Agö	5246
Varlax – Porvoo lighthouse	3005	Sandarne – Hällgrund	5146
Valko Harbour – Täktarn	7746	Gävle – Eggegrund	5146
Archipelago fairway Boistö – Glosholm	3005	Hallstavik – Svartklubben	5142
Archipelago fairway Glosholm–Helsinki	3005	Köping – Kvicksund	8346
Kotka – Viikari	5246	Västerås – Grönsö	8346
Viikari – Orregrund	5246	Grönsö – Södertälje	5144
Orregrund – Tiiskeri	4146	Stockholm – Södertälje	5144
Tiiskeri – Kalbådagrund	4046	Södertälje – Fifong	3122
Hamina – Suurmusta	8846	Norrköping – Hargökalv	4041
Suurmusta – Merikari	5246	Uddevalle – Stenungsund	4041
Merikari – Kaunissaari	5246	Vänernborgsviken	2026
		Karlstad, Fahrwasser nach	8346
		Kristinehamn, Fahrwasser nach	8346
		Otterbäcken, Fahrwasser nach	2026
Latvia, 10.01.2022			
Port of Riga	1100		
Port of Ventspils	1000		
Russian Federation, 10.01.2022			
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	51/2		
Lighthouse Šepelevskij – island Sescar	52/3		
Island Sescar – Island Sommers	52/3		
Island Sommers–S-point island Gogland	41/1		
Vyborg, port and bay	83/3		
Island Vichrevoj – Island Sommers	52/3		
Strait Bjerkesund	51/2		
E-point Bol'šoj Ber'ozovyj –Šepelevskij	41/2		
Luga bay	52/3		
Appr. Luga bay – line Mo.–epel.	52/3		
Sweden, 10.01.2022			
Karlsborg – Malören	8446		
Malören, Seegebiet außerhalb	5246		
Luleå – Björnklack	8446		