



Eisbericht Nr. 59

Amtsblatt des BSH

Jahrgang 95

Nr. 59

Friday, 18.02.2022

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Übersicht

In den Schären der Bottenwiek liegt im Norden 40–70 cm dickes Festeis und im Süden 20–55 cm dickes Festeis. Auf See treibt im Norden ein Gebiet mit 20–50 cm dickem, sehr dichtem und aufgepresstem Eis. Ansonsten befindet sich auf See sehr dichtes, 10–40 cm dickes und aufgepresstes Eis. Im Westen kommt allerdings dünnes, ebenes Eis vor. In Norra Kvarken kommt in den Schären bis zu 55 cm dickes Festeis vor. Auf See treibt im Norden dichtes, 5–25 cm dickes Eis sowie sehr lockeres Eis und offenes Wasser weiter südlich. Entlang der Küsten und in den Schären der Bottensee, dem Schärenmeer und der Ålandsee liegt Festeis oder dünnes, ebenes Eis und Neueis. Im Finnischen Meerbusen liegt entlang der Nordküste und im Osten bis 45 cm dickes Festeis. Östlich der Linie Kotka – Seskar - Sosnowy Bor treibt auf See meist sehr dichtes, 15–30 cm dickes Eis sowie sehr lockeres Eis und offenes Wasser weiter westlich. 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 und dem Vänern 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 40–70 cm thick fast ice in the north and 20–55 cm thick fast ice in the south. At sea there is an area with 20–50 cm thick, partly ridged and very close ice in the north, else there is mostly ridged, 10–40 cm thick and very close ice, but in the western part, there is thin level ice. In Norra Kvarken, there is up to 55 cm thick fast ice in the archipelagos. At sea, there is close ice in the north and very open ice and open water further south. Along the coasts and archipelagos of the Sea of Bothnia, the Archipelago Sea and Åland Sea, there is fast ice or thin level ice and new ice. In the Gulf of Finland, there is up to 45 cm thick fast ice along the northern and eastern coast. At sea east of the line Kotka – Seskar - Sosnowy Bor, there is mostly very close, 15–30 cm thick ice and very open ice and open water further west. 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 and Lake Vänern. 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 and outside the northeastern archipelagos there is 40–70 cm thick fast ice, reaching out to Kemi-3, Oulu-2 and Johan. In the northwestern archipelagos the fast ice is 20–50 cm thick. Off the fast ice in the east, there is 20–50 cm thick consolidated

ice to Kemi-2 and Oulu-1 and later a wide lead with new ice from Kemi-1 to Kalajoki. At sea centered at around 65°15' N 22°40' E, there is an area with very close, ridged and 20–50 cm thick ice. Else at sea, there is mostly very close, 10–40 cm thick ice

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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that is ridged at places. But in the west south of Simpgrund, there is 5–15 cm thick level ice. In the southern Bay of Bothnia, there is 20–40 cm thick fast ice along the Swedish coast; on the eastern coast there is 20–55 cm thick fast ice followed by a fringe of consolidated ice and in places a lead with

Norra Kvarken

In the archipelagoes off Vaasa, there is 25–55 cm thick fast ice to Ensten; further out there is 5–30 cm thick ice of varying concentration to Sydostbrotten. Along the Swedish coast, there is 20–40 cm thick fast ice in the archipelagos. At sea, there is

Sea of Bothnia

On Ångermanälven, there is 20–50 cm thick fast ice in the upper part and 20–35 cm fast or level ice in the lower part. In the bays along the western coast, there is 10–40 cm thick fast ice or new ice. Further out in the south, there is open water. Along the eastern coast, there is 10–40 cm fast ice in the

Archipelago and Åland Sea

10–30 cm thick fast ice is present in the inner archipelagos of the coasts. Further out in the east and around the Åland Islands, there is thin level ice. In the outer archipelago at the eastern coast,

Gulf of Finland

From St. Petersburg up to the longitude of Tolbushin lighthouse, there is 30–45 cm thick fast ice. In the Bay of Vyborg and the Bjerkesund, there is 20–45 cm thick fast ice. At sea east of the line Kotka – Seskar – Sosnowy Bor, there is mostly very close, 15–30 cm thick ice. Further west to Moščnyj, there is very open, 5–20 cm thick ice. In the archipelagos of the northern coast, there is fast

Gulf of Riga

In Moonsund, there is 10–20 cm thick fast near the coasts. Between the islands is close ice and on the fairways is mostly open water. In Pärnu Bay, there is 15–25 cm thick fast or very close ice to the south

Northern Baltic

In Lake Mälaren, there is 10–30 cm thick fast ice or level ice in the western part, and further east, there is mostly thin level. In the central part, there are areas with open water. Along the Swedish coast,

Central Baltic

Thin open ice or new ice occurs in sheltered bays along the Swedish coast.

Southeastern Baltic

In the Curonian Lagoon, there is a narrow band of very close ice along the eastern coast.

Skagerrak and Kattegat

In some inner fjords of the Skagerrak, there is up

new ice. At sea, there is very close 10–35 cm thick ice in the east, 5–15 cm thick level ice in the west and 5–25 cm thick close ice in the far south.

Over the weekend, ice formation will continue and the ice drift will mostly be to the southeast.

5–25 cm thick close ice north of about 63°20' N and further south, there is very open ice.

Over the weekend, there will be ice formation and the ice drift will be to the southeast.

inner archipelagos and 2–15 cm thick, very open to close ice further out.

Over the weekend, some ice formation is expected. The ice drift will be mostly to the southeast.

there is mainly open water.

Over the weekend, some ice formation is possible in coastal areas.

ice, 10–30 cm thick in the west and 20–45 cm thick in the east. In Luga Bay, there is fast ice near the coast and 5–20 cm thick, very open ice further out. In Narva Bay, there is mostly open water.

Over the weekend, some ice formation is possible in the eastern part with slight frost. The ice drift is mostly to the east and decreasing during the weekend. On Saturday, there are shifting winds.

tip of the island Manilaid.

Over the weekend, no larger changes are expected and the ice drift will be mostly to the east.

there is new ice or thin open ice in sheltered bays.

Over the weekend no larger changes are expected.

Ice melt continues over the weekend.

Ice melt continues over the weekend.

to 30 cm thick fast ice at a few places.

Over the weekend, some ice melt is expected.

Swedish Lakes

In Lake Vänern, there is 5–20cm thick fast ice or new ice in bays of the northern coast.

No larger changes are expected over the weekend.

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	2000/4000 dwt	IA Super(5000kW)/IA	09.02.
	Raahe	2000 dwt	IA	16.01.
	Kokkola, Kalajoki, Pietarsaari and Vaasa	2000 dwt	IA	01.02.
	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.
Russia	Vyborg	-	Ice 1	30.12.
	Vysotsk	-	Ice 2	14.01.
	Primorsk	-	Ice 2	27.01.
	Ust-Luga	-	Ice 1	04.01.
	St. Petersburg	-	required	31.12.
Sweden	Karlsborg and Luleå	2000 dwt	IA	08.02.
	Karlsborg and Luleå	4000 dwt	IA	19.02.
	Haraholmen and Skelleftehamn	2000 dwt	IB	06.01.
	Haraholmen and Skelleftehamn	4000 dwt	IA	19.02.
	Holmsund, Rundvik and Husum	2000 dwt	IC	15.01.
	Holmsund, Rundvik and Husum	2000 dwt	IB	19.02.
	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 Saimaa Canal is closed for traffic from 30th of January.

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, SISU, ALE, ODEN and YMER assist in the Bay of Bothnia.
ATLE and ZEUS assist in the Quark, VOIMA in the eastern Gulf of Finland.

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 after special permission 8 Navigation temporarily closed 9 Navigation has ceased / Unknown</p>
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Estonia, 18.02.2022

Shipping route from Narva-Jõssuu	1//0
Paernu, port and bay	73/5
Moonsund	2//1

Finland, 18.02.2022

Roeyttae – Etukari	8446
Etukari – Ristinmatala	8846
Ajos – Ristinmatala	8846
Ristinmatala – Kemi 2	6876
Kemi 2 – Kemi 1	9106
Sea area SW of Kemi 1	5356
Kemi 2 – Ulkokrunni – Virpiniemi	8446

Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	6876
Sea area SW of Oulu 1	9106
High Sea N of the latitude of Marjaniemi	5856
Raahe harbour – Heikinkari	8346
Heikinkari – Raahe lighthouse	9106
Raahe lighthouse – Nahkiainen	9256
Latitude Marjaniemi – Ulkokalla, Sea	5876
Rahja harbour – Välimatala	6366
Vaelimatala to line Ulkokalla – Ykskivi	9256
Sea betw. lat. of Ulkokalla – Pietarsaari	5346
Ykspihlaja – Repskaer	8846
Repskaer – Kokkola lighthouse	6366

Sea area off Kokkola lighthouse	5356	Haraholmen – Nygrån	8446
Pietarsaari – Kallan	7846	Sea area off Nygrån	5456
Sea area off Kallan	9006	Skelleftehamn – Gåsoeren	5256
Sea lat. Pietarsaari – NE Nordvalen	5756	Sea area off Gåsoeren	5256
Sea area ENE of Nordvalen	4746	Sea area off Bjuroeklubb	5256
Sea area Nordvalen to W of Norrskaer	4746	NE of Nordvalen	4336
Vaskiluoto – Ensten	8446	SW of Nordvalen	4336
Ensten – Vaasa lighthouse	3716	Western Quark (W of Holmoearna)	8346
Vaasa lighthouse – Norrskaer	4746	Umeå – Vaektaren	8446
Sea area SW of Norrskaer	3116	SE of Vaektaren	4336
Kaskinen – Sälgrund	5746	NE and SE of Sydostbrotten	3326
Sea area off Sälgrund	4746	Fairway to Husum	3326
Pori harb. to line Pori lighth. – Säppi	4245	Oernskoeldsvik – Hoernskaten	8446
Rauma, Harbour – Kylmäpihlaja	7745	Hoernskaten – Skagsudde	8446
Kylmäpihlaja – Rauma lighthouse	0//5	Sea area off Skagsudde	3326
Uusikaupunki harbour – Kirsta	8745	Fairway W of Ulvoearna	2326
Kirsta – Isokari	3215	Sea area E of Ulvoearna	2326
Naantali and Turku – Rajakari	7245	Ångermanaelven north Sandoe Bridge	5434
Rajakari – Lövskär	3115	Ångermanaelven south Sandoe Bridge	5434
Lövskär – Korra	5145	Haernoessand – Haernoen	1004
Korra – Isokari	2105	Sundsvall – Draghaellan	8346
Lövskär – Berghamn	1105	Draghaellan – Åstholmsudde	1106
Lövskär – Grisselborg	1105	Hudiksvallfjaerden	8446
Hanko – Vitgrund	1105	Iggesund – Agoe	5146
Inkoo a. Kantvik – sea area Porkkala	7206	Sandarne – Haellgrund	8346
Helsinki harbours – Harmaja	5145	Ljusnefjaerden – Storzjungfrun	1206
Vuosaari harbour – Eestiluoto	1105	Gaevle – Eggegrund	8446
Porvoo harbours – Varlax	5245	Sea area off Eggegrund	0//6
Valko Harbour – Täktarn	7746	Oeregrundsgrepen	3222
Archipelago fairway Boistö – Glosholm	1106	Hallstavik – Svartklubben	8342
Archipelago fairway Glosholm–Helsinki	1115	Koeping – Kvikksund	8344
Kotka – Viikari	5346	Västerås – Grönsö	8344
Viikari – Orregrund	5346	Grönsö – Södertälje	5234
Orregrund – Tiiskeri	1115	Stockholm – Södertälje	5244
Hamina – Suurmusta	7846	Södertälje – Fifong	5044
Suurmusta – Merikari	5346	Fairway to Karlstad	8342
Merikari – Kaunissaari	5346	Fairway to Kristinehamn	8342

Russian Federation, 18.02.2022

Port of St. Petersburg	84/3
St. Petersburg – E-point island Kotlin	84/3
E-point Kotlin – long. lighth. Tolbukhin	84/3
Lighth. Tolbukhin – lighth. – Šepelevskij	52/2
Lighthouse Šepelevskij – island Sescar	53/3
Island Sescar – Island Sommers	53/3
Vyborg, port and bay	84/3
Island Vichrevoj – Island Sommers	53/3
Strait Bjerkesund	53/3
E-point Bol'šoj Ber'ozovyj – Šepelevskij	53/3
Luga bay	1311
Appr. Luga bay – line Moš.-Šepel.	1311

Sweden, 18.02.2022

Karlsborg – Maloeren	8546
Sea area off Maloeren	5456
Luleå – Bjoernklack	8446
Bjoernklack – Farstugrunden	5476
E and SE of Farstugrunden	5476
Sandgroenn fairway	8446
Roedkallen – Norstroemsgrund	5476