



Eisbericht Nr. 50

Amtsblatt des BSH

Jahrgang 95

Nr. 50

Monday, 07.02.2022

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Übersicht

In den Schären der Bottenwiek liegt im Norden 40–60 cm dickes Festeis und im Süden 20–55 cm dickes Festeis. Außerhalb des Festeises liegt aufgeschobenes, ebenes Eis und entlang der finnischen Küste kommt eine Rinne und dann lockeres bis dichtes Eis vor. Auf See treibt in der zentralen Bottenwiek im Norden 20–50 cm dickes, sehr dichtes, aufgedichtetes Eis und im Süden 5–35 cm dickes, sehr dichtes Eis. In Norra Kvarken liegt in den Schären bis zu 55 cm dickes Festeis und auf See kommt offenes Wasser vor. 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 40 cm dickes Festeis, östlich von Gogland treibt auf See im Norden meist dichtes bis sehr dichtes, 10–30 cm dickes Eis und im Süden lockeres bis sehr 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 40–60 cm thick fast ice in the north and 20–55 cm thick fast ice in the south. Off the fast ice, there is rafted level ice and in the east a lead followed by open to close ice. In the central part there is very close, 20–50 cm thick, ridged ice in the north and 5–35 cm thick, very close ice in the south. In Norra Kvarken, there is up to 55 cm thick fast ice in the archipelagos, and open water 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 and new ice. In the Gulf of Finland, there is up to 40 cm thick fast ice along the northern and eastern coast. At sea, east of Gogland, there is mostly close or very close, 10–30 cm thick ice in the north and open to very open ice in the south. 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 40–60 cm thick fast ice, from the Finnish coast reaching out to Kemi-3, Oulu-2 and Johan. Off the fast ice in the east, there is 20–50 cm thick consolidated ice to Lallinmöly – Oulu-1 – Raahe

lighthouse. At sea, there is rafted level ice in the northeast and off the fast ice in the west, there is 10–20 cm thick, very close ice. In the east there is very open to close ice and in the central part, around Falkensgrund, there is very close ice with

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large, partly ridged floes, 20–50 cm thick. In the southern Bay of Bothnia, there is 20–40 cm thick fast ice along the Swedish coast and 25–55 cm thick fast ice in the eastern archipelagos. At sea, there is mostly close 5–35 cm thick ice, but along

Norra Kvarken

In the archipelagoes off Vaasa, there is 25–55 cm thick fast ice to Ensten; further out to Vaasa lighthouse there is 10–30 cm thick, very open ice. Along the Swedish coast, there is 20–40 cm thick fast ice in the archipelagos. Between the mainland and

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 10–35 cm thick fast ice and new ice or very open ice is present further out. Along the

Archipelago and Åland Sea

5–20 cm thick ice is present in inner archipelagos of the coasts and around the Åland islands. In the outer archipelago at the eastern coast, there is

Gulf of Finland

From St. Petersburg up to the longitude of Tolbuchin lighthouse, there is 30–40 cm thick fast ice. In the Bay of Vyborg, there is 25–35 cm fast ice. In the Bjerkesund, there is 20–40 cm thick fast ice or 15–25 cm thick compact ice. At sea north of about 60° N and east of Gogland, there is mostly very close, 15–30 cm thick ice. South of 60° N and east of about 27°30' E, there is mostly very open to open, 10–25 cm thick ice. In the archipelagos of the northern coast, there is fast ice, 10–30 cm thick

Gulf of Riga

In Moonsund, there is 10–20 cm thick fast ice near the coasts and on the fairways there is open ice. In Pärnu Bay, there is 15–25 cm thick fast or very close ice along the coast. In the central part is a

Northern Baltic

In Lake Mälaren, there is 5–30 cm thick fast ice or level ice in the western part; further east there is thin level or new ice. 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 open to very close, 5–15 cm thick ice in the eastern part.

Skagerrak and Kattegat

In some inner fjords of the Skagerrak, there is open water and also up to 30 cm thick fast ice at

the Finnish coast there is a lead, followed by thin, open to close ice.

The ice formation will continue, with an only weak ice drift.

Holmöarna there is close to very close ice. At sea, there is open water with area of close ice in the north.

New ice formation will continue, with an only weak ice drift.

eastern coast, there is 10–30 cm fast ice in the inner archipelagos and outside a 5–10 nm wide area with thin open ice.

Some new ice may form, especially in the north-west, but else no larger changes are expected.

mainly open water.

Minor ice formation is possible, but else no larger changes are expected.

in the west and 20–40 cm thick in the east, outside there is thin level ice and new ice east of 26° E. In Luga bay, there is fast ice near the coast and 15–25 cm thick, very open ice further out; in Narva Bay, there is narrow band of fast ice near the coast, very open ice is present somewhat further out. Else, there is open water in the bay of Kunda. Some new ice formation is expected, but else no larger changes.

band of very close drift ice.

Some minor ice formation is possible, but overall no larger changes are expected.

there is new ice or thin open ice in sheltered bays. No larger changes are expected.

No larger changes are expected.

Some ice melt is expected.

a few places.

No larger changes are 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.

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 and Oulu	4000 dwt	IA	16.01.
	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	IB	06.01.
	Karlsborg and Luleå	2000 dwt	IA	08.02.
	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 Saimaa Canal was closed for traffic on 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, ALE and YMER assist in the Bay of Bothnia. ATLE and ZEUS assist in the Quark, SISU and 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:</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 , 07.02.2022

Shipping route from Narva-Jõssuu	72/1
Kunda, port and bay	1/0
Paernu, port and bay	73/5
Shipp. route from Paernu to Irben Strait	52/3
Moonsund	72/3

Finland , 07.02.2022

Roeyttae – Etukari	8446
Etukari – Ristinmatala	8846
Ajos – Ristinmatala	8846
Ristinmatala – Kemi 2	6876
Kemi 2 – Kemi 1	4146

Sea area SW of Kemi 1	5146
Kemi 2 – Ulkokrunni – Virpiniemi	8446
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	6876
Sea area SW of Oulu 1	3126
High Sea N of the latitude of Marjaniemi	5746
Raahe harbour – Heikinkari	8346
Heikinkari – Raahe lighthouse	9846
Raahe lighthouse – Nahkiainen	9846
Latitude Marjaniemi – Ulkokalla, Sea	5876
Rahja harbour – Välimatala	6366
Vaelimatala to line Ulkokalla – Ykskivi	9846
Sea betw. lat. of Ulkokalla –Pietarsaari	5346

Ykspihlaja – Repskaer	8846	St. Petersburg – E-point island Kotlin	84/3
Repskaer – Kokkola lighthouse	6366	E-point Kotlin – long. lighth. Tolbuhkin	84/3
Sea area off Kokkola lighthouse	9846	Lighth. Tolbuhkin – lighth. –Šepelevskij	51/2
Pietarsaari – Kallan	7846	Lighthouse Šepelevskij – island Sescar	53/3
Sea area off Kallan	1126	Island Sescar – Island Sommers	53/3
Sea lat. Pietarsaari – NE Nordvalen	3726	Island Sommers– S-point island Gogland	53/3
Sea area ENE of Nordvalen	3716	Vyborg, port and bay	84/3
Sea area Nordvalen to W of Norrskaer	1706	Island Vichrevoj – Island Sommers	53/3
Vaskiluoto – Ensten	8446	Strait Bjerkesund	53/3
Ensten – Vaasa lighthouse	2316	E-point Bol'šoj Ber'ozovyj – epelevskij	53/3
Vaasa lighthouse – Norrskaer	3726	Luga bay	1311
Kaskinen – Sälgrund	5726	Appr. Luga bay – line Mo–.–epel.	1311
Sea area off Sälgrund	4246		
Pori harb. to line Pori lighth. – Säppi	3125	Sweden , 07.02.2022	
Rauma, Harbour – Kylmäpihlaja	7745	Karlsborg – Malören	8546
Kylmäpihlaja – Rauma lighthouse	3125	Malören, Seegebiet außerhalb	5356
Sea area W of Rauma lighthouse	0//5	Luleå – Björnklack	8446
Uusikaupunki harbour – Kirsta	8745	Björnklack – Farstugrunden	5476
Kirsta – Isokari	5245	Farstugrunden, See im E und SE	5476
Naantali and Turku – Rajakari	5145	Sandgrönn Fahrwasser	8446
Rajakari – Lövsjär	2115	Rödkallen – Norströmsgrund	5356
Lövsjär – Korra	5145	Haraholmen – Nygrån	8446
Korra – Isokari	3005	Nygrån, Seegebiet außerhalb	5356
Lövsjär – Berghamn	5145	Skelleftehamn – Gåsören	5256
Lövsjär – Grisselborg	2115	Gåsören, Seegebiet außerhalb	5256
Hanko – Vitgrund	5145	Bjuröklubb, Seegebiet außerhalb	5456
Koverhar – Hästö Busö	1115	Nordvalen, See im NE	1006
Inkoo a. Kantvik – sea area Porkkala	7206	Nordvalen, See im SW	1006
Helsinki harbours – Harmaja	3005	Västra Kvarnen W-lich Holmöarna	8346
Fairway Helsinki – Porkkala – Rönnskär	0//5	Umeå – Våktaren	8446
Vuosaari harbour – Eestiluoto	3015	Våktaren, See im SE	1006
Eestiluoto – Helsinki lighthouse	0//6	Örnsköldsvik – Hörnskatan	8446
Porvoo harbours – Varlax	3005	Hörnskatan – Skagsudde	8446
Varlax – Porvoo lighthouse	0//5	Ångermanälvs oberhalb Sandöbrücke	8444
Porvoo lighthouse – Kalbådagrund	0//5	Ångermanälvs unterhalb Sandöbrücke	8444
Valko Harbour – Täktarn	7746	Härnösand – Härnön	1004
Archipelago fairway Boistö – Glosholm	0//5	Sundsvall – Draghällan	8346
Archipelago fairway Glosholm–Helsinki	2105	Draghällan – Åstholmsudde	1006
Kotka – Viikari	5246	Åstholmsudde/Brämön, außerhalb	1006
Viikari – Orregrund	5246	Hudiksvallfjärden	8346
Orregrund – Tiiskeri	1105	Iggesund – Agö	8346
Tiiskeri – Kalbådagrund	0//5	Sandarne – Hällgrund	8346
Hamina – Suurmusta	7846	Hällgrund, Seegebiet außerhalb	2020
Suurmusta – Merikari	5246	Ljusnefjärden – Storzungfrun	2026
Merikari – Kaunissaari	5246	Storzungfrun, Seegebiet außerhalb	2026
		Gävle – Eggegrund	8346
Latvia , 05.02.2022		Örskär, Seegebiet außerhalb	2020
Port of Riga	1000	Öregrundsgrepen	3222
		Hallstavik – Svartklubben	8342
Norway , 07.02.2022		Stockholm – Trälhavet – Klövholmen	4041
Svinesund – Halden	31//	Köping – Kvicksund	8344
Mossesund	1//1	Västerås – Grönsö	8344
Drammensfjord	2111	Grönsö – Södertälje	5244
Husøysund – Tønsberg channel	8245	Stockholm – Södertälje	5244
Tønsberg, inner harbour	8345	Södertälje – Fifong	5041
Vestfjord (Tønsberg)	8345	Norrköping – Hargökalv	4041
Frierfjorden (Porsgrunn, Skien)	2212	Västervik – Marsholmen – Idö	4041
		Karlstad, Fahrwasser nach	8342
Russian Federation , 07.02.2022		Kristinehamn, Fahrwasser nach	8342
Port of St. Petersburg	84/3	Otterbäcken, Fahrwasser nach	5041