

Eisbericht Nr. 49

Amtsblatt des BSH

Jahrgang 95

Nr. 49

Friday, 04.02.2022

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Übersicht

In den Schären der Bottenwiek liegt im Norden 25–55 cm dickes Festeis und im Süden 20–55 cm dickes Festeis. Außerhalb des Festeises kommt zuerst ebenes Eis und dann treibt auf See in der zentralen Bottenwiek 20–50 cm dickes, sehr dichtes, aufgepresstes Eis und dichtes, 5–25 cm dickes Eis weiter westlich. Im Süden treibt auf See 5–30 cm dickes, dichtes bis sehr dichtes Eis. In Norra Kvarken liegt in den Schären bis zu 55 cm dickes Festeis und auf See treibt 5–25 cm dickes, dichtes Eis und Neueis. 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 etwa 26°30' treibt auf See meist dichtes bis sehr dichtes, 10–30 cm dickes Eis und weiter westlich Neueis bis 25° E. 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 25–55 cm thick fast ice in the north and 20–55 cm thick fast ice in the south. Off the fast ice, there is level ice followed by very close, 20–50 cm thick, ridged ice in the central part and close, 5–25 cm thick ice further west. In the southern part, there is 5–30 cm thick close to very close ice. In Norra Kvarken, there is up to 55 cm thick fast ice in the archipelagos, and close 5–25 cm thick ice and new ice 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 about 26°30'E there is mostly close or very close, 10–30 cm thick ice and new ice further west to 25°E. 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 25–55 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 Lallinmöyly – Oulu-1 – Raahe lighthouse. Off the fast ice in the west, there is 5–

20 cm thick, very close ice. Farther out, there is thin level ice north of about 65°10' N and east of 23°30' E. In the central part from Norströmsgrund to about 64° N, there is very close ice with large, partly ridged floes, 10–50 cm thick. Further west, there is close, 5–25 cm thick ice. In the southern

Herstellung und Vertrieb

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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

Norra Kvarken

In the archipelagoes off Vaasa, there is 25–55 cm thick fast ice to Ensten; further out to Norra Globsten, there is 10–30 cm thick very close ice. Along the Swedish coast, there is 20–40 cm thick fast in the inner archipelagos. At sea, there is mostly 5–

Sea of Bothnia

On Ångermanälven, there is 20–50 cm thick fast ice in the upper part and 10–35 cm fast or level ice in the lower part. In the bays along the western coast, there is 10–30 cm thick fast ice and new ice is present further out. Along the eastern coast,

Archipelago and Åland Sea

5–20cm 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 mainly open water.

Gulf of Finland

From St. Petersburg up to the longitude of Tolbushin 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, 10–30 cm thick ice and new ice at places. South of 60° N and east of about 26°30' E, there is mostly close, 10–25 cm thick ice and new ice. Further west, there is first thin ice and then new ice to about 25° E. In the archipelagos of the northern

Gulf of Riga

In Moonsund, there is 10–20 cm thick fast ice near the coasts and on the fairways, there is new ice; in Suur strait, there is very close drift ice. In Pärnu Bay, there is 15–25 cm thick fast or very close ice along the coast. In the central part is a band of very close drift ice and new ice elsewhere. New

Northern Baltic

In Lake Mälaren, there is 10–30 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 very close, 5–15 cm thick ice in the eastern part.

mostly close 5–25 cm thick ice.

Over the weekend, there will be some ice formation and the ice drift will be to north/northwest.

25 cm thick close ice and new ice off the coasts.

Over the weekend, there will be some new ice formation. The ice drift will be in northerly directions.

there is 10–30 cm fast ice in the inner archipelagos and outside a 20 nm wide area with new ice.

Over the weekend, no larger changes are expected. The ice drift will first be mostly to north/northeast.

Over the weekend, no larger changes are expected. Ice drift will be first to north and then east/northeast.

coast, there is fast ice, 10–30 cm thick in the west and 20–40 cm thick in the east, outside there is thin ice east of 25° E. In Luga bay, 15–25 cm thick, very close ice is present with close ice in the entrance; in Narva Bay, there is fast ice near the coast, new ice and close ice are present further out. Else, there is new ice in the bays of Kunda, Muuga and Tallin.

Over the weekend, new ice formation will continue in the eastern part but cease in the western part. The ice will drift mostly to the north.

ice is present at sea in the northeast. On the fairway from Riga to the Lithuanian border, there is open water. The port of Riga is ice free.

Over the weekend, there will be ice drift mostly to the north but on Saturday also to the east. Ice formation will cease on Friday.

there is new ice or thin open ice in sheltered bays. Over the weekend, no larger changes are expected.

Some ice melt might occur over the weekend but else no larger changes are expected.

Some ice melt might occur over the weekend but else no larger changes are expected.

Skagerrak and Kattegat

In some inner fjords of the Skagerrak, there is fast ice, up to 30 cm thick at 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.

Over the weekend, some ice melt may occur.

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	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 icebreaking season has ended in Lake Saimaa and Saimaa Canal.
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 and YMER assist in the Bay of Bothnia. ALE and ZEUS assist in the Quark 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: 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, 04.02.2022

Shipping route from Narva-Jõssuu	73/2
Kunda, port and bay	30/0
Muuga, port and bay	1000
Tallinn, port and bay	1000
Paernu, port and bay	73/5
Shipp. route from Paernu to Irben Strait	52/3

Moonsund

72/3

Finland, 04.02.2022

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

Kemi 2 – Kemi 1	5146	Valko Harbour – Täktarn	7746
Sea area SW of Kemi 1	5146	Archipelago fairway Boistö – Glosholm	3015
Kemi 2 – Ulkokrunni – Virpiniemi	8446	Archipelago fairway Glosholm–Helsinki	3005
Oulu harbours – Kattilankalla	8446	Kotka – Viikari	3006
Kattilankalla – Oulu 1	6876	Viikari – Orregrund	3005
Sea area SW of Oulu 1	5146	Orregrund – Tiiskeri	3005
High Sea N of the latitude of Marjaniemi	5746	Tiiskeri – Kalbådagrund	2005
Raahe harbour – Heikinkari	8346	Hamina – Suurmusta	7846
Heikinkari – Raahe lighthouse	6366	Suurmusta – Merikari	3006
Raahe lighthouse – Nahkiainen	5146	Merikari – Kaunissaari	3006
Latitude Marjaniemi – Ulkokalla, Sea	5876		
Rahja harbour – Välimatala	6366	Latvia, 04.02.2022	
Välimatala to line Ulkokalla – Ykskivi	5146	Riga to the Cape of Mersrags, fairway	1000
Sea betw. lat. of Ulkokalla –Pietarsaari	5346	Mersrags to Irben Strait, fairway	1000
Ykspihlaja – Repsaer	8846	Liepaya harbour – sea border Lithuania	1000
Repskaer – Kokkola lighthouse	6366		
Sea area off Kokkola lighthouse	5146	Russian Federation, 04.02.2022	
Pietarsaari – Kallan	7846	Port of St. Petersburg	84/3
Sea area off Kallan	5146	St. Petersburg – E-point island Kotlin	84/3
Sea lat. Pietarsaari – NE Nordvalen	4746	E-point Kotlin – long. lighth. Tolbuhkin	84/3
Sea area ENE of Nordvalen	4746	Lighth. Tolbuhkin – lighth. –Šepelevskij	51/2
Sea area Nordvalen to W of Norrskaer	4746	Lighthouse Šepelevskij – island Sescar	53/3
Vaskiluoto – Ensten	8446	Island Sescar – Island Sommers	53/3
Ensten – Vaasa lighthouse	6346	Island Sommers – S-point island Gogland	43/2
Vaasa lighthouse – Norrskaer	5146		
Sea area SW of Norrskaer	3006	S-point isl. Gogland – long. p. Kunda	3322
Kaskinen – Sälgrund	5726	Vyborg, port and bay	84/3
Sea area off Sälgrund	3126	Island Vichrevoj – Island Sommers	52/2
High sea from N to latitude Yttergrund	3016	Strait Bjerkesund	53/3
Pori harb. to line Pori lighth. – Säppi	5155	E-point Bol'šoj Ber'ozovyj – epelevskij	53/3
Sea W of line Pori lighthouse – Säppi	3015	Luga bay	53/3
High sea betw. lat. Yttergrund a. Rauma	2005	Appr. Luga bay – line Mo.–epel.	43/2
Rauma, Harbour – Kymäpihlaja	7745		
Kymäpihlaja – Rauma lighthouse	5145	Sweden, 04.02.2022	
Sea area W of Rauma lighthouse	3015	Karlsborg – Maloeren	8546
Uusikaupunki harbour – Kirsta	8745	Sea area off Maloeren	5256
Kirsta – Isokari	5245	Luleå – Bjoernklack	8546
Isokari – Sandbaeck	3015	Bjoernklack – Farstugrunden	5256
Sea area off Sandbaeck	2005	E and SE of Farstugrunden	5256
Naantali and Turku – Rajakari	4145	Sandgroenn fairway	8546
Rajakari – Lövskär	3005	Roedkallen – Norstroemsgrund	4336
Lövskär – Korra	3005	Haraholmen – Nygrån	8446
Korra – Isokari	4145	Sea area off Nygrån	5256
Lövskär – Berghamn	3005	Skelleftehamn – Gåsoeren	4336
Stora Sottunga – Ledskär	2005	Sea area off Gåsoeren	4336
Lövskär – Grisselborg	3005	Sea area off Bjuroeklubb	4336
Grisselborg – Norparskär	3005	NE of Nordvalen	4336
Hanko – Vitgrund	3005	SW of Nordvalen	4336
Koverhar – Hästö Busö	2005	Western Quark (W of Holmoearna)	8346
Inkoo a. Kantvik – sea area Porkkala	7206	Umeå – Vaektaren	4046
Sea area at Porkkala	1005	SE of Vaektaren	4336
Helsinki harbours – Harmaja	3005	NE and SE of Sydostbrotten	4336
Harmaja – Helsinki lighthouse	2005	Fairway to Husum	4046
Fairway Helsinki – Porkkala – Rönnskär	2005	Oernskoeldsvik – Hoernskaten	8446
Vuosaari harbour – Eestiluoto	3015	Hoernskaten – Skagsudde	8446
Eestiluoto – Helsinki lighthouse	1005	Sea area off Skagsudde	4046
Porvoo harbours – Varlax	3005	Ångermanaelven north Sandoe Bridge	8444
Varlax – Porvoo lighthouse	2005	Ångermanaelven south Sandoe Bridge	8444
Porvoo lighthouse – Kalbådagrund	2005	Haernoessand – Haernoen	5044
Sea Kalbådagrund – Helsinki lighthouse	1005	Sea area off Haernoen	4046

Sundsvall – Draghaellan	8346
Draghaellan – Åstholmsudde	5046
Off Åstholmsudde and Braemoen	4046
Hudiksvallfjaerden	8346
Iggesund – Agoe	8346
Sandarne – Haellgrund	8346
Ljusnefjaerden – Storjungfrun	4046
Sea area off Storjungfrun	4046
Gaevle – Eggegrund	8346
Oeregrundsgrepen	4041
Hallstavik – Svartklubben	8342
Traelhavet – Furusund – Kapellskaer	4041
Stockholm – Traelhavet – Kloevholmen	4041
Koeping – Kvicksund	8344
Västerås – Grönsö	8344
Grönsö – Södertälje	5244
Stockholm – Södertälje	5244
Södertälje – Fifong	5041
Norrköping – Hargökalv	4041
Västervik – Marsholmen – Idö	4041
Fairway to Karlstad	8342
Fairway to Kristinehamn	8342
Fairway to Otterbäcken	5041