



Eisbericht Nr. 51

Amtsblatt des BSH

Jahrgang 95

Nr. 51

Tuesday, 08.02.2022

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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 lockeres Eis 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 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, there is 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 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 Gogland, there is mostly 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 Kemi-2 – Oulu-1 – Raahe light-house. Off the fast in the north, there is very close,

rafted ice, 10–25 cm thick, and in the west, very close, rafted ice, 10–20 cm thick. Off the consolidated ice in the east, there is a narrow lead with new ice or thin close ice followed by close, 5–25 cm thick ice with some heavier floes. In the central part from Falkensgrund to Farstugrunden, there is

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very close ice with large, partly ridged floes, 20–50 cm thick. Else at sea, there is mostly very close ice, 5–35 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 very close 5–

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 and close ice further

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°40' E, there is mostly very open to open and in places close, 10–25 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 ice near the coasts and on the fairways, there is open ice or open water. In Pärnu Bay, there is 15–25 cm thick fast or very close ice along the coast. In the central

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 very close, 5–15 cm thick ice along the coast in the eastern part and

35 cm thick ice. Off the Finnish coast, there is a wide lead with thin open ice and larger ice floes, 20–50 cm thick.

The ice formation will continue with increasing ice drift to the northeast.

out. Between the mainland and Holmöarna, there is mostly very close, 5–30 cm thick ice. At sea, there is mainly open ice, 5–25 cm thick.

Some ice formation will occur and increasing ice drift to the east/northeast is expected.

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.

Minor ice formation is possible along the coast, but else no larger changes.

mainly open water.

No larger changes are expected.

ice, 10–30 cm thick in the west and 20–40 cm thick in the east. 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 to open ice is present somewhat further out. Else, there is open water in the bay of Kunda.

Some new ice formation especially in the eastern part is expected, but else no larger changes. Some ice drift first to the north and later to the east.

part, there is very close drift ice to Kihnu and very open ice further out.

No larger changes are expected.

there is new ice or thin open ice in sheltered bays. Some ice melt but else no larger changes are expected.

Some ice melt is expected.

very open ice in the central part.

Some ice melt is expected.

Skagerrak and Kattegat

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

Some ice melt but else 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.

Some ice melt is expected.

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	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, ODEN 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: 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 foes – 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, 08.02.2022

Shipping route from Narva-Jõssuu	71/1
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, 08.02.2022

Roeyttae – Etukari	8446
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Etukari – Ristinmatala	8846
Ajos – Ristinmatala	8846
Ristinmatala – Kemi 2	6876
Kemi 2 – Kemi 1	5756
Sea area SW of Kemi 1	5756
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	5756	St. Petersburg – E-point island Kotlin	84/3
Raahe harbour – Heikinkari	8346	E-point Kotlin – long. lighth. Tolbuhkin	84/3
Heikinkari – Raahe lighthouse	9846	Lighth. Tolbuhkin – lighth. –Šepelevskij	51/2
Raahe lighthouse – Nahkiainen	9846	Lighthouse Šepelevskij – island Sescar	53/3
Latitude Marjaniemi – Ulkokalla, Sea	5876	Island Sescar – Island Sommers	53/3
Rahja harbour – Välimatala	6366	Island Sommers– S-point island Gogland	53/3
Vaelimatala to line Ulkokalla – Ykskivi	9846	Vyborg, port and bay	84/3
Sea betw. lat. of Ulkokalla –Pietarsaari	5346	Island Vichrevoj – Island Sommers	53/3
Ykspihlaja – Repskaer	8846	Strait Bjerkesund	53/3
Repskaer – Kokkola lighthouse	6366	E-point Bol'šoj Ber'ozovyj – –epelevskij	53/3
Sea area off Kokkola lighthouse	9846	Luga bay	1311
Pietarsaari – Kallan	7846	Appr. Luga bay – line Mo–.—epel.	1311
Sea area off Kallan	1126		
Sea lat. Pietarsaari – NE Nordvalen	3726	Sweden, 08.02.2022	
Sea area ENE of Nordvalen	3716	Karlsborg – Maloeren	8546
Sea area Nordvalen to W of Norrskaer	3706	Sea area off Maloeren	5356
Vaskiluoto – Ensten	8446	Luleå – Bjoernklack	8446
Ensten – Vaasa lighthouse	2316	Bjoernklack – Farstugrunden	5476
Vaasa lighthouse – Norrskaer	3726	E and SE of Farstugrunden	5476
Kaskinen – Sälgrund	4746	Sandgroenn fairway	8446
Sea area off Sälgrund	3216	Roedkallen – Norstroemsgrund	5356
Pori harb. to line Pori lighth. – Säppi	3125	Haraholmen – Nygrån	8446
Rauma, Harbour – Kylmäpihlaja	7745	Sea area off Nygrån	5356
Kylmäpihlaja – Rauma lighthouse	3125	Skelleftehamn – Gåsoeren	5256
Uusikaupunki harbour – Kirsta	8745	Sea area off Gåsoeren	5256
Kirsta – Isokari	5245	Sea area off Bjuroeklubb	5456
Naantali and Turku – Rajakari	7245	NE of Nordvalen	5336
Rajakari – Lövskär	2115	SW of Nordvalen	3226
Lövskär – Korra	5145	Western Quark (W of Holmoearna)	8346
Korra – Isokari	3005	Umeå – Vaektaren	8446
Lövskär – Berghamn	5145	SE of Vaektaren	4236
Lövskär – Grisselborg	2115	Oernskoeldsvik – Hoernskaten	8446
Hanko – Vitgrund	5145	Hoernskaten – Skagsudde	8446
Koverhar – Hästö Busö	1115	Ångermanaelven north Sandoe Bridge	8444
Inkoo a. Kantvik – sea area Porkkala	7206	Ångermanaelven south Sandoe Bridge	8444
Helsinki harbours – Harmaja	5145	Haernoessand – Haernoen	1004
Vuosaari harbour – Eestiluoto	3015	Sundsvall – Draghaellan	8346
Porvoo harbours – Varlax	5145	Draghaellan – Åstholmsudde	1006
Valko Harbour – Tåktarn	7746	Off Åstholmsudde and Braemoen	1006
Archipelago fairway Boistö – Glosholm	0//5	Hudiksvallfjaerden	8346
Archipelago fairway Glosholm–Helsinki	2105	Iggesund – Agoe	8346
Kotka – Viikari	5346	Sandarne – Haellgrund	8346
Viikari – Orregrund	5346	Sea area off Haellgrund	2026
Orregrund – Tiiskeri	0//5	Ljusnefjaerden – Störjungfrun	2026
Tiiskeri – Kalbådagrund	0//5	Sea area off Störjungfrun	2026
Hamina – Suurmusta	7846	Gaeve – Eggegrund	8346
Suurmusta – Merikari	5346	Sea area off Orskaer	2022
Merikari – Kaunissaari	5346	Oeregrundsgrepen	3222
		Hallstavik – Svartklubben	8342
Norway, 07.02.2022		Stockholm – Traelhavet – Kloevholmen	4041
Svinesund – Halden	31//	Koeping – 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
		Fairway to Karlstad	8342
Russian Federation, 08.02.2022		Fairway to Kristinehamn	8342
Port of St. Petersburg	84/3	Fairway to Otterbäcken	5041