



Eisbericht Nr. 65

Amtsblatt des BSH

Jahrgang 95

Nr. 65

Monday, 28.02.2022

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Übersicht

In den Schären der Bottenwiek liegt im Norden 30–70 cm dickes Festeis und im Süden 20–55 cm dickes Festeis. Auf See treibt zumeist 20–50 cm dickes, sehr dichtes Eis, im Norden aufgeschoben und im Süden mit Rinnen und Rissen. Im zentralen nördlichen Teil kommt örtlich dickeres, aufgedichtetes Eis vor. In Norra Kvarken liegt in den Schären bis zu 55 cm dickes Festeis. Auf See befindet sich im Süden offenes Wasser und lockeres bis dichtes Eis weiter nördlich. Entlang der Küsten und in den Schären der Bottensee, dem Schärenmeer und der Ålandsee liegt Festeis oder dünnes, ebenes Eis. Im Finnischen Meerbusen liegt entlang der Nordküste und im Osten bis 45 cm dickes Festeis. Nördlich der Linie Kotka – Šepelevskij treibt auf See meist sehr dichtes, 15–30 cm dickes Eis. Weiter außerhalb kommt sehr lockeres Eis oder offenes Wasser vor. 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. In einigen wenigen inneren Fjorden des Skagerraks liegt Festeis oder dünnes Eis.

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 mostly 20–50 cm thick, very close ice, rafted in the north and with cracks and leads in the south. In the northern central part, there is an area of thicker and ridged ice. In Norra Kvarken, there is up to 55 cm thick fast ice in the archipelagos. At sea, there is open water in the south and open to close ice further north. Along the coasts and archipelagos of the Sea of Bothnia, the Archipelago Sea and Åland Sea, there is fast ice or thin level ice. In the Gulf of Finland, there is up to 45 cm thick fast ice along the northern and eastern coast. At sea north or the line Kotka – Šepelevskij, there is mostly very close, 15–30 cm thick ice. Further out, there is very open ice or open water. 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. Fast ice or thin ice is present in a few inner fjords of the Skagerrak.

Bay of Bothnia

In and outside the northeastern archipelagos, there is 50–70 cm thick fast ice, reaching out to Kemi-3, Oulu-2 and Jaakko. In the northwestern archipelagos the fast ice is 30–60 cm thick. Off the fast ice in the east, there is 40–60 cm thick consolidated ice to Kemi-2 and Oulu-1. At sea, there is very close, 20–50 cm thick ice. The ice field is rafted and at places difficult to force. In the southern part

also cracks and leads occur. Centered at around 65°10' N 23°20' E, there is an area with very close, ridged and 30–50 cm thick 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. At sea in the east, there is 20–50 cm thick, close to very close ice with cracks and in the

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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Nachdruck, auch auszugsweise, verboten

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west, there is a lead with mostly very open ice from Holmöarna to Nygrån.

Norra Kvarken

In the archipelagoes off Vaasa, there is 25–55 cm thick fast ice to Ensten and then 5–25 cm thick, very close ice to Norra Glopsten. Along the Swedish coast, there is 20–40 cm thick fast ice in the archipelagos and open, 10–30 cm thick ice further out. At sea, there is open water in the south and

Sea of Bothnia

On Ångermanälven, there is 20–50 cm thick fast ice or very close ice in the upper part and 15–35 cm fast or very close ice in the lower part. In the bays along the western coast, there is 10–40 cm thick fast ice. Along the eastern coast, there is 10–

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

Gulf of Finland

From St. Petersburg up to the easternmost tip of Kotlin, there is 30–40 cm thick fast ice. In the Bay of Vyborg and the Bjerkesund, there is mostly 25–35 cm thick fast ice. At sea north of the line Kotka – Šepelevskij, there is mostly very close, 15–30 cm thick ice. Further south and east of Seskar, there is

Gulf of Riga

In Moonsund, there is 10–20 cm thick fast near the coasts and on the fairways is mainly open water. In Pärnu Bay, there is 15–25 cm thick fast ice near the coast and very close ice out to the line Manilaid

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 ice. In the central part, there are areas with thin, very open ice. Along the Swedish

Skagerrak and Kattegat

In some inner fjords of the Skagerrak, there is fast ice or thin ice at places.

Swedish Lakes

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

Dr. W. Aldenhoff

There will be an increasing ice drift to the north-east, but else no larger changes.

open to close, 10–30 cm thick ice north of Nordvalen. West of Holmöarna there is close ice, 10–30 cm thick.

There will be an increasing ice drift to the north-east, but else no larger changes.

40 cm fast ice in the inner archipelagos, followed by a belt 10–30 cm thick, very close ice.

No larger changes are expected the coming day. There will be an increasing ice drift to the north-east.

ice. In the outer archipelago at the eastern coast, there is open water.

No larger changes are expected the coming day.

very open ice. In the archipelagos of the northern coast, there is fast ice, 10–30 cm thick in the west and 20–45 cm thick in the east. Open water is present along the entire ice edge.

In the eastern part some ice formation is possible with light frost. The ice drift is to the northeast/east.

–Häädemeeste.

With some night frost, no larger changes are expected.

coast, there is partly broken, thin level ice at a few sheltered places.

Some night frost is possible in Lake Mälaren else some ice melt is expected.

Ice melt is expected the coming day.

Some ice melt 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 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	4000 dwt	IA	19.02.
	Haraholmen and Skelleftehamn	4000 dwt	IA	19.02.
	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, SISU, FREJ, ODEN and YMER assist in the Bay of Bothnia. ATLE und ALE assist in the Quark and ZEUS in the eastern Sea of Bothnia, NORDICA in the eastern Gulf of Finland.

Norway

Tønsberg indre havn and Vestfjorden (Tønsberg): Navigation difficult or dangerous for wooden vessels. (28.02.2022)

Hellefjorden (Kragerø): Navigation temporarily closed. (28.02.22)

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, 28.02.2022

Paernu, port and bay 73/5
 Moonsund 1//0

Finland, 28.02.2022

Roeyttae – Etukari 8546
 Etukari – Ristinmatala 8846
 Ajos – Ristinmatala 8846
 Ristinmatala – Kemi 2 6876
 Kemi 2 – Kemi 1 5356
 Sea area SW of Kemi 1 5356
 Kemi 2 – Ulkokrunni – Virpiniemi 8546
 Oulu harbours – Kattilankalla 8546
 Kattilankalla – Oulu 1 6876
 Sea area SW of Oulu 1 5476
 High Sea N of the latitude of Marjaniemi 5856
 Raahe harbour – Heikinkari 8346
 Heikinkari – Raahe lighthouse 5376
 Raahe lighthouse – Nahkiainen 5856
 Latitude Marjaniemi – Ulkokalla, Sea 5876
 Rahja harbour – Välimatala 6366

Vaelimatala to line Ulkokalla – Ykskivi 5356
 Sea betw. lat. of Ulkokalla –Pietarsaari 5846
 Ykspihlaja – Repskaer 8846
 Repskaer – Kokkola lighthouse 6366
 Sea area off Kokkola lighthouse 4846
 Pietarsaari – Kallan 7846
 Sea area off Kallan 5846
 Sea lat. Pietarsaari – NE Nordvalen 4346
 Sea area ENE of Nordvalen 2716
 Sea area Nordvalen to W of Norrskaer 1216
 Vaskiluoto – Ensten 8446
 Ensten – Vaasa lighthouse 5746
 Vaasa lighthouse – Norrskaer 1716
 Kaskinen – Sälgrund 5746
 Sea area off Sälgrund 5746
 Pori harb. to line Pori lighth. – Säppi 5245
 Rauma, Harbour – Kylmäpihlaja 7745
 Kylmäpihlaja – Rauma lighthouse 2115
 Uusikaupunki harbour – Kirsta 8745
 Kirsta – Isokari 4245
 Naantali and Turku – Rajakari 5245

Rajakari – Lövsjär	2115	Hoernskaten – Skagsudde	8446
Lövsjär – Korra	2115	Sea area off Skagsudde	3356
Korra – Isokari	0//5	Fairway W of Ulvoearna	1306
Lövsjär – Berghamn	1105	Sea area E of Ulvoearna	1306
Lövsjär – Grisselborg	1105	Ångermanaelven north Sandoe Bridge	5434
Hanko – Vitgrund	1105	Ångermanaelven south Sandoe Bridge	5434
Inkoo a. Kantvik – sea area Porkkala	7206	Sundsvall – Draghaellan	8346
Sea area at Porkkala	1106	Draghaellan – Åstholmsudde	3226
Helsinki harbours – Harmaja	2105	Hudiksvallfjaerden	8446
Harmaja – Helsinki lighthouse	1105	Iggesund – Agoe	8446
Fairway Helsinki – Porkkala – Rönnskär	1105	Gaeve – Eggegrund	8446
Vuosaari harbour – Eestiluoto	1105	Oeregrundsgrepen	3222
Eestiluoto – Helsinki lighthouse	0//5	Hallstavik – Svartklubben	8342
Porvoo harbours – Varlax	4145	Koeping – Kviksund	8344
Varlax – Porvoo lighthouse	1015	Västerås – Grönsö	8344
Valko Harbour – Tåktarn	7346	Grönsö – Södertälje	5244
Archipelago fairway Boistö – Glosholm	1006	Stockholm – Södertälje	5244
Archipelago fairway Glosholm–Helsinki	3115	Södertälje – Fifong	1004
Kotka – Viikari	5346	Fairway to Karlstad	8392
Viikari – Orregrund	4745	Fairway to Kristinehamn	8392
Orregrund – Tiiskeri	1115		
Tiiskeri – Kalbådagrund	0//5		
Hamina – Suurmusta	7846		
Suurmusta – Merikari	5346		
Merikari – Kaunissaari	5346		

Russian Federation, 28.02.2022

Port of St. Petersburg	84/3
St. Petersburg – E-point island Kotlin	84/3
E-point Kotlin – long. lighth. Tolbuhkin	44/3
Lighth. Tolbuhkin – 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, 28.02.2022

Karlsborg – Maloeren	8546
Sea area off Maloeren	5456
Luleå – Bjoernklack	8546
Bjoernklack – Farstugrunden	5456
E and SE of Farstugrunden	5456
Sandgroenn fairway	8546
Roedkallen – Norstroemsgrund	5456
Haraholmen – Nygrån	8546
Sea area off Nygrån	5456
Skelleftehamn – Gåsoeren	5456
Sea area off Gåsoeren	5456
Sea area off Bjuroeklubb	5456
NE of Nordvalen	3356
SW of Nordvalen	1306
Western Quark (W of Holmoearna)	8346
Umeå – Vaektaren	8446
SE of Vaektaren	4356
Fairway to Husum	3356
Oernskoeldsvik – Hoernskaten	8446