

Eisbericht Nr. 71

Amtsblatt des BSH

Jahrgang 95

Nr. 71

Tuesday, 08.03.2022

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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 20–60 cm dickes, sehr dichtes Eis, aufgeschobenen und aufgepresst im Norden und mit Rinnen im Süden. In Norra Kvarken liegt in den Schären bis zu 55 cm dickes Festeis. Auf See befindet dichtes Eis oder Neueis. 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. Östlich von 27°30' E treibt auf See sehr dichtes bis dichtes, 15–30 cm dickes Eis. Weiter westlich im Norden folgt lockeres Eis und Neueis. 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 20–60 cm thick, very close ice, ridged and rafted in the north and with leads in the south. In Norra Kvarken, there is up to 55 cm thick fast ice in the archipelagos; at sea there is mostly close ice or new ice. 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 east of about 27°30' E, there is very close to close, 15–30 cm thick ice. Further west in the north, there is open ice and new ice. 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 north and east, there is 40–60 cm thick consolidated ice, in the east to Kemi-2 and Oulu-1. Off the fast ice in the west, there is very close, 20–40 cm thick consolidated ice. At sea, there is an area with very close, ridged, 40–60 cm thick ice around 65°10' N 23°20' E, else very close, 20–60 cm thick,

rafted ice, in the east reaching south to about 64° N. In the southern Bay of Bothnia, there is 20–45 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, there is 5–20 cm thick very close ice in the east. In the west, there is lead with open water in the south and new ice and thin level ice further north. Ice formation is expected, with a slight southwest and later northerly ice drift.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)
www.bsh.de/eis
www.bsh.de/ice

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Eisankünfte / Ice Information

Telefon: +49 (0) 381 4563 -780
 Telefax: +49 (0) 381 4563 -949
 E-Mail: ice@bsh.de

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Norra Kvarken

In the archipelagoes off Vaasa, there is 25–55 cm thick fast ice to Ensten and then 10–35 cm thick, very close ice to Norra Gloppsten. Along the Swedish coast, there is 20–40 cm thick fast ice in the archipelagos. At sea, there is 10–30 cm thick,

close ice west of Nordvalen and east of 21° E. Else, there is new ice and new ice formation followed by open water south of Norrskär. Some ice formation is possible, but overall no larger changes are expected.

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, further out there is open water in

places. Along the eastern coast, there is 10–40 cm fast ice in the inner archipelagos, followed by a narrow belt of 10–35 cm thick, very close and in places ridged ice. No larger changes are expected.

Archipelago and Åland Sea

10–30 cm thick fast ice and level ice is present in the inner archipelagos of the coasts. At the eastern coast, there is very open ice on the fairways and

open water in the outer archipelagos. Around the Åland Islands, there is thin level ice. No larger changes are expected.

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 compact or fast ice and very close ice in the entrance to Vyborg Bay. Outside a lead with new ice. At sea north of a line from past Moščnyj to Šepelevskij, there is mostly very close, 15–30 cm thick ice. Further south, there is 10–20 cm thick close ice. In the archipelagos of the northern coast,

there is fast ice, 10–35 cm thick in the west and 20–45 cm thick in the east. Off the fast ice east of 26° E, there is new ice and open ice out to Tiiskeri and Gogland. Further west, there is open water. Along the southern coast, there is new ice along the coast. In the eastern part new ice formation is expected, with an overall slow ice drift to the north.

Gulf of Riga

In Moonsund, there is 10–20 cm thick very close ice or fast ice near the coasts and very open ice or open water further out. In Pärnu Bay, there is 20–40 cm thick fast ice near the coast and very close ice out to the line Manilaid –Häädemeeste. Further out between Kihnu and Ainazi, there is very close

ice in the central part and else open to very open ice. In the southwest, there is very open ice and new ice along the coast near Mersrags. Some ice may form, but overall no larger changes are expected.

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 open water or new ice. Along the Swe-

dish coast, there is partly broken, thin level ice at a few sheltered places. No larger changes are expected, but night frost can cause some new ice formation.

Skagerrak and Kattegat

Near Tønsberg there is thin fast ice and in Hellefjorden near Kragerø there is 15–30 cm thick fast

ice. Else it is mostly ice free. No larger changes are expected.

Swedish Lakes

In Lake Vänern, there is rotten ice in bays of the northern coast.

No larger changes are expected, but some night frost.

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	4000 dwt	IA	08.03.
	Kokkola, Pietarsaari and Vaasa	2000 dwt	IA	01.02.
	Kalajoki	4000 dwt	IA	08.03.
	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	2000 dwt	II	22.12.
	Söråker-Skutskär	-	cancelled	08.03.
	Köping and Västerås	1300/2000 dwt	IC/II	02.03.

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, NORDICA, SISU, FREJ and YMER assist in the Bay of Bothnia. ATLE und ALE assist in the Quark and ZEUS in the Sea of Bothnia, FENNICA in the eastern Gulf of Finland.

Norway

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, 08.03.2022

Shipping route from Narva-Jõssuu	20//
Paernu, port and bay	7375
Moonsund	1//0

Finland, 08.03.2022

Roeyttae – Etukari	8546
Etukari – Ristinmatala	8846
Ajos – Ristinmatala	8846
Ristinmatala – Kemi 2	6876
Kemi 2 – Kemi 1	5876
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	5876
Raahe harbour – Heikinkari	8446
Heikinkari – Raahe lighthouse	7446
Raahe lighthouse – Nahkiainen	5856
Latitude Marjaniemi – Ulkokalla, Sea	5876
Rahja harbour – Välimatala	6366
Vaelimatala to line Ulkokalla – Ykskivi	5456

Sea betw. lat. of Ulkokalla –Pietarsaari	5846
Ykspihlaja – Repskaer	8846
Repskaer – Kokkola lighthouse	6366
Sea area off Kokkola lighthouse	5846
Pietarsaari – Kallan	7846
Sea area off Kallan	5846
Sea lat. Pietarsaari – NE Nordvalen	4746
Sea area ENE of Nordvalen	4246
Sea area Nordvalen to W of Norrskaer	4146
Vaskiluoto – Ensten	8446
Ensten – Vaasa lighthouse	5326
Vaasa lighthouse – Norrskaer	1106
Sea area SW of Norrskaer	1106
Kaskinen – Sälgrund	5746
Sea area off Sälgrund	5746
Pori harb. to line Pori lighth. – Säppi	5245
Rauma, Harbour – Kylmäpihlaja	7745
Uusikaupunki harbour – Kirsta	8745
Kirsta – Isokari	7745
Naantali and Turku – Rajakari	7245
Rajakari – Lövskär	1115
Lövskär – Korra	2115
Korra – Isokari	1115

Lövsjär – Berghamn	1105	Fairway to Husum	1206
Lövsjär – Grisselborg	1105	Oernskoeldsvik – Hoernskaten	8446
Hanko – Vitgrund	1105	Hoernskaten – Skagsudde	8446
Inkoo a. Kantvik – sea area Porkkala	7206	Sea area off Skagsudde	1206
Helsinki harbours – Harmaja	2115	Fairway W of Ulvoearna	1206
Harmaja – Helsinki lighthouse	1005	Sea area E of Ulvoearna	1206
Fairway Helsinki – Porkkala – Rönnskär	1105	Ångermanaelven north Sandoe Bridge	5434
Porvoo harbours – Varlax	1115	Ångermanaelven south Sandoe Bridge	4434
Varlax – Porvoo lighthouse	1015	Sundsvall – Draghaellan	8342
Valko Harbour – Tåktarn	7116	Draghaellan – Åstholmsudde	2221
Archipelago fairway Boistö – Glosholm	2006	Hudiksvallfjaerden	8442
Archipelago fairway Glosholm–Helsinki	2115	Iggesund – Agoe	8442
Kotka – Viikari	5346	Ljusnefjaerden – Storzjungfrun	5041
Viikari – Orregrund	3005	Gaevle – Eggegrund	8442
Orregrund – Tiiskeri	2115	Oeregrundsgrepen	1000
Hamina – Suurmusta	7846	Hallstavik – Svartklubben	8342
Suurmusta – Merikari	4746	Koeping – Kvicksund	8344
Merikari – Kaunissaari	3006	Västerås – Grönsö	8344
		Grönsö – Södertälje	5244
Germany, 08.03.2022		Stockholm – Södertälje	5242
Flensburg – Holnis	1000	Södertälje – Fifong	5041
		Fairway to Karlstad	8392
		Fairway to Kristinehamn	8392
Latvia, 08.03.2022			
Riga to the Cape of Mersrags, fairway	2000		
Mersrags to Irben Strait, fairway	2000		
Russian Federation, 08.03.2022			
Port of St. Petersburg	84/3		
St. Petersburg – E-point island Kotlin	84/3		
E-point Kotlin – long. lighth. Tolbuhkin	54/3		
Lighth. Tolbuhkin – lighth. –Šepelevskij	52/2		
Lighthouse Šepelevskij – island Sescar	53/3		
Island Sescar – Island Sommers	53/3		
Island Sommers– S-point island Gogland	3312		
Vyborg, port and bay	84/3		
Island Vichrevoj – Island Sommers	53/3		
Strait Bjerkesund	53/3		
E-point Bol'šoj Ber'ozovyj – Šepelevskij	4002		
Luga bay	53/2		
Appr. Luga bay – line Moš.-Šepel.	53/2		
Sweden, 08.03.2022			
Karlsborg – Maloeren	6456		
Sea area off Maloeren	5576		
Luleå – Bjoernklack	6456		
Bjoernklack – Farstugrunden	6456		
E and SE of Farstugrunden	5576		
Sandgroenn fairway	6456		
Roedkallen – Norstroemsgrund	6456		
Haraholmen – Nygrån	8546		
Sea area off Nygrån	5456		
Skelleftehamn – Gåsoeren	5456		
Sea area off Gåsoeren	6456		
Sea area off Bjuroeklubb	6456		
NE of Nordvalen	4046		
SW of Nordvalen	4046		
Western Quark (W of Holmoearna)	8346		
Umeå – Vaektaren	8446		
SE of Vaektaren	4356		
NE and SE of Sydostbrotten	4046		