



Eisbericht Nr. 66

Amtsblatt des BSH

Jahrgang 95

Nr. 66

Tuesday, 01.03.2022

1

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, aufgepresstes Eis vor und im Südwesten treibt meist sehr lockeres Eis. In Norra Kvarken liegt in den Schären bis zu 55 cm dickes Festeis. Auf See befindet sich meist offenes Wasser. 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 and in the southwest mostly very open ice. In Norra Kvarken, there is up to 55 cm thick fast ice in the archipelagos; at sea there is mostly open water. 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

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west, there is a lead with mostly very open ice from Norra Kvarken 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, 10–30 cm thick close ice to Hölmoar-

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 and level ice is present in the inner archipelagos of the coasts. On the fairways and in the outer archipelago of the eastern

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. 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 very open ice and open water to the

Gulf of Riga

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

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.

With temperature around 0°C the mayor change will come from the northeastward ice drift.

na and else open water further out. At sea, there is open water, and very open, 5–30 cm thick ice in the far north. north of Nordvalen.

Temperature slightly above 0°C will lead to some ice melt, while the ice will drift to the northeast.

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

Some ice melt with a northeastward ice drift is expected.

coast, there is open water. Around the Åland Islands, there is thin level ice.

No larger changes are expected the coming day.

west, passing Moščnyj, but not reaching Gogland. 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.

close ridged ice out to the line Manilaid – 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 Mussalo	2000 dwt 2000 dwt	I II	01.01. 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:</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, 01.03.2022

Paernu, port and bay 73/5

Moonsund 1//0

Russian Federation , 01.03.2022

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 , 01.03.2022

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 1306

SW of Nordvalen 1306

Western Quark (W of Holmoearna) 8346

Umeå – Vaektaren 8446

SE of Vaektaren 1306

Fairway to Husum 1306

Oernskoeldsvik – Hoernskaten 8446

Hoernskaten – Skagsudde 8446

Sea area off Skagsudde 1306

Fairway W of Ulvoearna 1306

Sea area E of Ulvoearna 1306

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 – Ageo	8446	Fairway Helsinki – Porkkala – Rönnskär	1105
Gaevle – 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
Finland , 28.02.2022		Hamina – Suurmusta	7846
Roeyttae – Etukari	8546	Suurmusta – Merikari	5346
Etukari – Ristinmatala	8846	Merikari – Kaunissaari	5346
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 – Kymäpihlaja	7745		
Kymäpihlaja – Rauma lighthouse	2115		
Uusikaupunki harbour – Kirsta	8745		
Kirsta – Isokari	4245		
Naantali and Turku – Rajakari	5245		
Rajakari – Lövskär	2115		
Lövskär – Korra	2115		
Korra – Isokari	0//5		
Lövskär – Berghamn	1105		
Lövskär – Grisselborg	1105		