



Eisbericht Nr. 64

Amtsblatt des BSH

Jahrgang 95

Nr. 64

Friday, 25.02.2022

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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, aufgepresstes Eis vor. In Norra Kvarken liegt in den Schären bis zu 55 cm dickes Festeis. Auf See befindet sich im Süden offenes Wasser und nach Norden hin nimmt die Eiskonzentration stetig zu. 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 – Kotlin treibt auf See meist sehr dichtes, 15–30 cm dickes Eis, südlich davon meist offenes Wasser. 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 inneren Fjorden des Skagerraks liegt dünnes Eis oder Festeis.

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 increasing ice concentrations northwards. 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 – Kotlin, there is mostly very close, 15–30 cm thick ice, south of it mostly 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 some 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 20–50 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 in the northeast and in the south small cracks and

leads occur. Centered at around 65° N 23° E, there is an area with very close, ridged and 30–50 cm thick ice. From Rödkallen to Simpgrund in the east and Gåsören in the south, there is thin level 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

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east, there is 20–50cm thick, very close ice with cracks and in the west a lead with mostly very open ice from Holmöarna to Skellefte Bay.

Norra Kvarken

In the archipelagoes off Vaasa, there is 25–55 cm thick fast ice to Ensten and then 5–25 cm thick ice of varying concentration to Vaasa lighthouse. Along the Swedish coast, there is 20–40 cm thick fast ice in the archipelagos. At sea, there is open water in the south and increasing concentrations

Sea of Bothnia

On Ångermanälven, there is 20–50 cm thick fast 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 10–40 cm fast ice

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 ice. In the outer archipelago at the eastern coast,

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 – Kotlin, there is mostly very close, 15–30 cm thick ice. Further out to Luga Bay, Moščnyj and Haapasaari, there is mainly open water. In the archipelagos of the northern coast, there is fast

Gulf of Riga

In Moonsund, there is 10–20 cm thick fast near the coasts. Further out in the east, there is very close ice. 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 – Häädemeeste.

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-

Skagerrak and Kattegat

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

Swedish Lakes

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

Some ice formation is expected over the weekend. The ice drift will first be to the southeast and is shifting to northeast on Saturday.

going further north with very close, 20–50 cm thick ice in the entrance to the Bay of Bothnia. Minor ice formation is possible in the beginning of the weekend. The ice drift will be first to the southeast shifting to northeast on Saturday.

in the inner archipelagos, followed by 5–20 cm thick very close ice. Over the weekend no larger changes are expected. Ice drift will first be to the southeast shifting to northeast on Saturday.

there is open water.

Over the weekend no larger changes are expected.

ice, 10–30 cm thick in the west and 20–45 cm thick in the east; further out open water.

Over the weekend some ice formation is expected in the eastern part. On Friday there is a strong ice drift to the north shifting to eastwards later on. Ice drift ceases on Saturday and shifts to southeast and on Sunday to northeast.

On Friday ice melt and a strong easterly ice drift are expected. With dropping temperatures on Saturday minor ice formation is possible over the weekend. The ice drift shifts to southeast on Saturday and to northeast on Sunday. Ice drift ceases over the weekend.

dish coast, there is partly broken thin level ice in some sheltered bays. Over the weekend some ice melt is expected.

Ice melt is expected over the weekend.

Some ice melt is expected over the weekend.

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, ALE, ODEN and YMER assist in the Bay of Bothnia. ATLE assist in the Quark and ZEUS in the eastern Sea of Bothnia, NORDICA 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:</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, 25.02.2022

Paernu, port and bay 73/5

Moonsund 1//0

Finland, 25.02.2022

Roeyttae – Etukari 8546

Etukari – Ristinmatala 8846

Ajos – Ristinmatala 8846

Ristinmatala – Kemi 2 6876

Kemi 2 – Kemi 1 5246

Sea area SW of Kemi 1 5746

Kemi 2 – Ulkokrunni – Virpiniemi 8546

Oulu harbours – Kattilankalla 8546

Kattilankalla – Oulu 1 6876

Sea area SW of Oulu 1 5746

High Sea N of the latitude of Marjaniemi 5856

Raahe harbour – Heikinkari 8346

Heikinkari – Raahe lighthouse 5746

Raahe lighthouse – Nahkiainen 5856

Latitude Marjaniemi – Ulkokalla, Sea 5876

Rahja harbour – Välimatala 6366

Vaelimatala to line Ulkokalla – Ykskivi 5756

Sea betw. lat. of Ulkokalla –Pietarsaari 5846

Ykspihlaja – Repskaer 8846

Repskaer – Kokkola lighthouse 9336

Sea area off Kokkola lighthouse 5846

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 1226

Vaskiluoto – Ensten 8446

Ensten – Vaasa lighthouse 5746

Vaasa lighthouse – Norrskaer 1716

Sea area SW of Norrskaer 0//6

Kaskinen – Sälgrund 5746

Sea area off Sälgrund 5746

High sea from N to latitude Yttergrund 0//6

Pori harb. to line Pori lighth. – Säppi 4245

Sea W of line Pori lighthouse – Säppi 0//5

Rauma, Harbour – Kylmäpihlaja 7745

Kylmäpihlaja – Rauma lighthouse 3115

Sea area W of Rauma lighthouse 0//5

Uusikaupunki harbour – Kirsta 8745

Kirsta – Isokari	3215	Sundsvall – Draghaellan	8346
Isokari – Sandbaeck	0//5	Draghaellan – Åstholmsudde	3226
Lövsjär – Korra	5145	Hudiksvallfjaerden	8446
Korra – Isokari	2105	Iggesund – Agoe	8446
Lövsjär – Berghamn	1105	Gaevle – Eggegrund	8446
Lövsjär – Grisselborg	1105	Oeregrundsgrepen	3222
Hanko – Vitgrund	1105	Hallstavik – Svartklubben	8342
Inkoo a. Kantvik – sea area Porkkala	7206	Koeping – Kviksund	8344
Helsinki harbours – Harmaja	2105	Västerås – Grönsö	8344
Vuosaari harbour – Eestiluoto	1105	Grönsö – Södertälje	5244
Porvoo harbours – Varlax	4245	Stockholm – Södertälje	5244
Varlax – Porvoo lighthouse	1215	Södertälje – Fifong	1004
Valko Harbour – Täktarn	7346	Fairway to Karlstad	8392
Archipelago fairway Boistö – Glosholm	1106	Fairway to Kristinehamn	8392
Archipelago fairway Glosholm–Helsinki	1115		
Kotka – Viikari	5346		
Viikari – Orregrund	4346		
Orregrund – Tiiskeri	1115		
Hamina – Suurmusta	7846		
Suurmusta – Merikari	5366		
Merikari – Kaunissaari			
	2316		
Russian Federation, 25.02.2022			
Port of St. Petersburg	84/3		
St. Petersburg – E-point island Kotlin	84/3		
E-point Kotlin – long. lighth. Tolbukhin	3413		
Lighth. Tolbukhin – lighth. –Šepelevskij	42/2		
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, 25.02.2022			
Karlsborg – Maloeren	8546		
Sea area off Maloeren	5456		
Luleå – Bjoernklack	8546		
Bjoernklack – Farstugrunden	5476		
E and SE of Farstugrunden	5476		
Sandgroenn fairway	8546		
Roedkallen – Norstroemgrund	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	8446		
Oernskoeldsvik – Hoernskaten	8446		
Hoernskaten – Skagsudde	8446		
Fairway W of Ulvoearna	2326		
Ångermanaelven north Sandoe Bridge	5434		
Ångermanaelven south Sandoe Bridge	5434		