

Eisbericht Nr. 63

Amtsblatt des BSH

Jahrgang 95

Nr. 63

Thursday, 24.02.2022

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Übersicht

In den Schären der Bottenwiek liegt im Norden 40–70 cm dickes Festeis und im Süden 20–55 cm dickes Festeis. Außerhalb davon meist ebenes Eis, auf See treibt im Norden ein Gebiet mit 20–50 cm dickem, sehr dichtem und aufgepresstem Eis. Ansonsten befindet sich auf See sehr dichtes, 10–40 cm dickes Eis, im Westen aufgeschoben, im Osten mit Spalten und Rinnen. In Norra Kvarken kommt in den Schären bis zu 55 cm dickes Festeis vor. Auf See treibt im Osten meist dichtes, 5–30 cm dickes Eis und im Westen kommt meist dünnes ebenes 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 45 cm dickes Festeis. östlich der Linie Kaunissaari – Seskar – Šepelevskij 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. Outside mostly thin level ice. At sea there is an area with 20–50 cm thick, partly ridged and very close ice in the north, else there is mostly 10–40 cm thick, very close ice, rafted in the west and with leads and cracks in the east. In Norra Kvarken, there is up to 55 cm thick fast ice in the archipelagos. At sea, there is mostly 5-30cm thick close ice in the east and thin level ice in the west. 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 45 cm thick fast ice along the northern and eastern coast. At sea east of the line Kaunissaari – Seskar - Šepelevskij, 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 40–70 cm thick fast ice, reaching out to Kemi-3, Oulu-2 and Jaakko. In the northwestern archipelagos the fast ice is 20–50 cm thick. Off the fast ice in the east, there is 20–50 cm thick consolidated ice to Kemi-2 and Oulu-1. Outside this ice and also

outside the fast ice in the north and west there is a wide area of level ice stretching southwards to south off Raahe and to Gasören, with some very close ice outside Rödkaullen. At sea centered at around 65° N 23° E, there is an area with very close, ridged and 20–50 cm thick ice. Else at sea,

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there is mostly very close, 20–50 cm thick ice that is rafted in the northwest and elsewhere has cracks and small leads. In the southern Bay, 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 and a

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

Sea of Bothnia

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

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 east of the line Kaunis-saari – Seskar - Šepelevskij, there is mostly very close, 15–30 cm thick ice. South of Seskar open water or very open ice. In Luga Bay there is open

Gulf of Riga

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

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. In the central part, there are areas with open water. Along the Swedish coast,

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 5–20cm thick partly rotten fast ice in bays of the northern coast.

Dr. J.Holfort

narrow lead. At sea in the east 20-50cm thick very close ice with cracks and in the west a lead with level ice.

Minor ice formation and a northeasterly ice drift is expected.

the south an increasing concentrations going further north.

Overall no ice formation is expected, with a mostly northeastward ice drift.

coast, there is 10–40 cm fast ice in the inner archipelagos, followed by 5-20cm thick ice of varying concentrations at the edge.

No larger changes are expected.

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

Some ice melt is expected.

water. 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; further out ice 15-30cm thick ice of varying concentration is drifting out to the line Orregrund – Haapasaari.

Some ice melt is expected and the ice will drift north/northeastwards.

very close ice out to the line Manilaid – Häädemeeste.

Some ice melt with a northward, and later tomorrow northeastward, ice drift is expected.

there is partly broken thin level ice in some sheltered bays.

Some ice melt is expected.

Ice melt is expected.

Some ice ice melt is expected.

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, FREJ, SISU, 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: 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 , 24.02.2022

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

Finland , 24.02.2022

Roeyttae – Etukari 8546
 Etukari – Ristinmatala 8846
 Ajos – Ristinmatala 8846
 Ristinmatala – Kemi 2 6876
 Kemi 2 – Kemi 1 9236
 Sea area SW of Kemi 1 5246
 Kemi 2 – Ulkokrunni – Virpiniemi 8546
 Oulu harbours – Kattilankalla 8546
 Kattilankalla – Oulu 1 6876
 Sea area SW of Oulu 1 9236
 High Sea N of the latitude of Marjaniemi 5856
 Raahe harbour – Heikinkari 8346
 Heikinkari – Raahe lighthouse 9236
 Raahe lighthouse – Nahkiainen 9256
 Latitude Marjaniemi – Ulkokalla, Sea 5876
 Rahja harbour – Välimatala 6366
 Vaelimatala to line Ulkokalla – Ykskivi 9236
 Sea betw. lat. of Ulkokalla –Pietarsaari 5846

Ykspihlaja – Repskaer 8846
 Repskaer – Kokkola lighthouse 9336
 Sea area off Kokkola lighthouse 9336
 Pietarsaari – Kallan 7846
 Sea area off Kallan 9236
 Sea lat. Pietarsaari – NE Nordvalen 5356
 Sea area ENE of Nordvalen 3746
 Sea area Nordvalen to W of Norrskaer 1226
 Vaskiluoto – Ensten 8446
 Ensten – Vaasa lighthouse 5746
 Vaasa lighthouse – Norrskaer 2716
 Sea area SW of Norrskaer 3716
 Kaskinen – Sälgrund 5746
 Sea area off Sälgrund 4746
 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 1115
 Uusikaupunki harbour – Kirsta 8745
 Kirsta – Isokari 3215
 Isokari – Sandbaeck 0//5

Lövsjär – Korra	5145	Hudiksvallfjaerden	8446
Korra – Isokari	2105	Iggesund – Agoe	8446
Lövsjär – Berghamn	1105	Sea area off Agoe	1206
Lövsjär – Grisselborg	1105	Sandarne – Haellgrund	1206
Hanko – Vitgrund	1105	Sea area off Haellgrund	1206
Inkoo a. Kantvik – sea area Porkkala	7206	Ljusnefjaerden – Storjungfrun	1206
Helsinki harbours – Harmaja	2105	Sea area off Storjungfrun	1206
Vuosaari harbour – Eestiluoto	1105	Gaeve – Eggegrund	8446
Porvoo harbours – Varlax	1215	Sea area off Eggegrund	1206
Valko Harbour – Täktarn	7746	Sea area off Orskaer	1201
Archipelago fairway Boistö – Glosholm	2106	Oeregrundsgrepen	3222
Archipelago fairway Glosholm–Helsinki	1115	Hallstavik – Svartklubben	8342
Kotka – Viikari	5346	Koeping – Kvicksund	8344
Viikari – Orregrund	3316	Västerås – Grönsö	8344
Orregrund – Tiiskeri	2115	Grönsö – Södertälje	5244
Hamina – Suurmusta	7846	Stockholm – Södertälje	5244
Suurmusta – Merikari	5346	Södertälje – Fifong	1004
Merikari – Kaunissaari	4346	Fairway to Karlstad	8342
		Fairway to Kristinehamn	8342

Russian Federation , 24.02.2022

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 , 24.02.2022

Karlsborg – Maloeren	8546
Sea area off Maloeren	5456
Luleå – Bjoernklack	8546
Bjoernklack – Farstugrunden	5456
E and SE of Farstugrunden	5456
Sandgroenn fairway	8546
Roedkallen – 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	2326
SW of Nordvalen	2326
Western Quark (W of Holmoearna)	8346
Umeå – Vaektaren	8446
SE of Vaektaren	2326
Fairway to Husum	8446
Oernskoeldsvik – Hoernskaten	8446
Hoernskaten – Skagsudde	8446
Sea area off Skagsudde	1306
Fairway W of Ulvoearna	3326
Sea area E of Ulvoearna	1306
Ångermanaelven north Sandoe Bridge	5434
Ångermanaelven south Sandoe Bridge	5434
Sundsvall – Draghaellan	8346