

Eisbericht Nr. 86 Amtsblatt des BSH

Jahrgang 95	Nr. 86	Tuesday, 29.03.2022	1

Übersicht

In den Schären der Bottenwiek liegt im Norden 40–85 cm dickes Festeis und im Süden 30–55 cm dickes Festeis. Auf See treibt im Norden 30–70 cm dickes, sehr dichtes, aufgeschobenes und aufgepresstes Eis. Im Süden ist meist offenes Wasser. In Norra Kvarken liegt in den Schären bis zu 55 cm dickes Festeis und auf See kommt offenes Wasser vor. 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 Moščnyj treibt auf See im Süden sehr dichtes bis dichtes, 15–30 cm dickes Eis und im Norden lockeres Eis und Neueis. Im Rigaischen Meerbusen kommt an der Küste bis zu 25 cm dickes Eis im Moonsund und in der Pärnubucht vor. Dünnes, teilweise morsches Eis kommt örtlich in der nördlichen Ostsee und dem Vänern vor.

Overview

In the archipelagos of the Bay of Bothnia, there is 40–85 cm thick fast ice in the north and 30–55 cm thick fast ice in the south. At sea in the north, there is mostly 30–70 cm thick, very close, ridged and rafted ice. In the southern part, there is mostly open water. In Norra Kvarken, there is up to 55 cm thick fast ice in the archipelagos and open water at sea. 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 Moščnyj, there is mostly very close to close, 15–30 cm thick ice in the south and open ice and new ice in the north. In the Gulf of Riga, there is up to 25 cm thick ice at the coasts of Moonsund and in Pärnu Bay. Thin, partly rotten ice occurs at places in the northern Baltic and Lake Vänern.

Bay of Bothnia

In and outside the northeastern archipelagos, there is 55–85 cm thick fast ice, reaching out to Kemi-3, Oulu-2 and Jaakko. In the northwestern archipelagos the fast ice is 40–70 cm thick. Off the fast ice in the north and east, there is 40–70 cm thick consolidated ice, in the east to Kemi-2 and Oulu-1. Off the fast ice in the west, there is very close or consolidated, 30–50 cm thick ice. Further out runs a lead covered with new ice from Skellefte Bay to Oulu-1. At sea, there is an area with very close, ridged and 40–70 cm thick ice around 65°00' N

23°20' E. Else at sea, there is very close, 30–60 cm thick, ridged and rafted ice north of the line Bjuröklubb – Kallan. There are leads and cracks in the ice field. In the southern Bay of Bothnia, there is 30–50 cm thick fast ice along the Swedish coast; on the eastern coast there is 30–55 cm thick fast ice followed by a narrow fringe of consolidated or very close ice. At sea, there is mostly open water. With mostly moderate frost, new ice formation is expected the coming day. With a fresh breeze from the north, the ice will drift in southerly directions.

Herstellung und Vertrieb

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Norra Kvarken

In the archipelagoes off Vaasa, there is 30–55 cm thick fast ice to Ensten. Along the Swedish coast, there is 20–40 cm thick fast ice in the archipelagos. At sea, there is open water in the northern part and

Sea of Bothnia

On Ångermanälven, there is 20–50 cm thick very close ice in the upper part and mostly open water 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 the north. Along the eastern coast, there is 20–45 cm fast ice in the inner archi-

Archipelago and Åland Sea

10–35 cm thick rotting fast ice and level ice are present in the inner archipelagos and bays of both coasts. At the eastern coast, there is mostly open water on the fairways and in the outer archipelagos. Around the Åland Islands, there is rotting level

Gulf of Finland

From St. Petersburg up to the easternmost tip of Kotlin, there is 35–45 cm thick fast ice. In the Bay of Vyborg and the Bjerkesund, there is mostly 25–45 cm thick compact or fast ice and very close ice in the entrance to Vyborg Bay. At sea east of Moščnyj, there is mostly very close to close, 15–30 cm thick drift ice in the south and open to very open ice and new ice in the north. In the archipela-

Gulf of Riga

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

Northern Baltic

In Lake Mälaren, there is rotten fast or level ice in sheltered bays and else mostly open water. Along the Swedish coast, there is partly broken and rotten thin level ice in the Stockholm archipelago.

Swedish Lakes

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

Dr. W. Aldenhoff

along the coasts.

Some ice formation is possible in sheltered coastal areas. With a fresh breeze from the north, ice formation is unlikely at sea.

pelagos, followed by a narrow belt of 10–30 cm thick ice of varying concentrations.

With mostly slight frost some ice formation is possible in sheltered areas but overall no larger changes are expected.

ice

Overall no larger changes are expected but some ice formation is possible in sheltered areas with slight frost.

gos of the northern coast, there is fast ice, 15–35 cm thick in the west and 30–55 cm thick in the east. Further out east of Kotka, there is new ice and very open ice to Haapasaari and open water further west.

Some ice formation is possible with slight to moderate frost. Ice drift will mostly be in easterly directions.

there is narrow belt of close ice. In the western part is mostly open water.

With slight frost, no larger changes are expected with some new ice formation possible in sheltered areas.

No larger changes are expected the coming day, but some new ice formation is possible with temperatures slightly below 0 °C.

With night frost no larger changes are expected the coming day.

Restrictions to Navigation

	Harbour/District	At least	Ice Class	Begin
		dwt/hp/kW		
Estonia	Pärnu	1600 kW	1C	17.12.
Finland	Tornio, Kemi and Oulu	4000 dwt	IA	21.03.
	Raahe and Kalajoki	4000 dwt	IA	08.03.
	Kokkola, Pietarsaari and Vaasa	2000 dwt	IA	01.02.
	Kaskinen	2000 dwt		16.01.
	Kristiinankaupunki, Pori, Rauma,	2000 dwt	II	01.01.
	Uusikaupunki, Naantali and Turku			
	Loviisa	2000 dwt	II	24.03.
	Kotka and Hamina	2000 dwt	II	29.03.
	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	4000 dwt (4000 t)	IA	23.03.
	Luleå	4000 dwt	IA	19.02.
	Haraholmen and Skelleftehamn	4000 dwt	IA	19.02.
	Holmsund, Rundvik and Husum	2000 dwt	IC	14.03.
	Örnsköldsvik	2000 dwt	IC	15.01.
	Ångermanälven	2000 dwt	IB	06.01.
	Härnösand	2000 dwt	II	22.12.

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, NORDICA, SISU, FREJ, ODEN, ALE and YMER assist in the Bay of Bothnia. ZEUS assist in the Sea of Bothnia, VOIMA 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

A 0123456 789	First number: Amount and arrangements of sea ice lce free Open water – concentration less than 1/10 Very open ice - concentration 1/10 to 3/10 Open ice – concentration 4/10 to 6/10 Close ice – concentration 7/10 to 8/10 Very close ice – concentration 9/10 to 9+/10 Compact ice, including consolidated ice – concentration 10/10 Fast ice with drift ice outside Fast ice Lead in very close or compact drift ice or along the fast lce edge Unable to report
TE 0 1 2 3 4 5	Third number: Topography or form of ice Pancake ice, ice cakes, brash ice – less than 20 m across Small ice floes – 20 to 100 m across Medium ice floes – 100 to 500 m Big ice foes – 500 to 2000 m across Vast or giant ice floes – more than 2000 m across – or level ice Rafted ice Compact slush or shuga, or compacted brash ice

Hummocked or ridged ice

Rotten ice

Thaw holes or many puddles on the ice

No information or unable to report

Second number:

Second number:

Second number:

Second number:

Second number:

New ice or dark nilas (less than 5 cm thick)

Light nilas (5 - 10 cm thick) or ice rind

Grey ice (10 - 15 cm thick)

Grey-white ice (15 - 30 cm thick)

White ice, first stage (30 - 50 cm thick)

White ice, second stage (50 - 70 cm thick)

Medium first year ice (70 - 120 cm thick)

Ice predominantly thinner than 15 cm with some thicker

Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice

9 Ice predominantly thicker than 30 cm with some thinner

No information or unable to report

Fourth number:

K_B Navigation conditions in ice

Navigation unobscured

Navigation difficult or dangerous for wooden vessels without ice sheathing

Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice

for navigation in ice

Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker

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

Icebreaker assistance can only be given to vessels after after special permission

Navigation temporarily closed

Navigation has ceased

Unknown

Estonia, 29.03.2022		Sea lat. Pietarsaari – NE Nordvalen	1716
Paernu, port and bay	7375	Sea area ENE of Nordvalen	1216
Moonsund	1//0	Sea area Nordvalen to W of Norrskaer	1216
		Vaskiluoto – Ensten	8446
Finland, 29.03.2022		Ensten – Vaasa lighthouse	2716
Roeyttae – Etukari	8646	Vaasa lighthouse – Norrskaer	1716
Etukari – Ristinmatala	8546	Kaskinen – Sälgrund	1716
Ajos – Ristinmatala	8546	Sea area off Sälgrund	2716
Ristinmatala – Kemi 2	6476	Pori harb. to line Pori lighth. – Säppi	1215
Kemi 2 – Kemi 1	9026	Rauma, Harbour – Kylmäpihlaja	7765
Sea area SW of Kemi 1	4476	Uusikaupunki harbour – Kirsta	8745
Kemi 2 – Ulkokrunni – Virpiniemi	8546	Naantali and Turku – Rajakari	1205
Oulu harbours – Kattilankalla	8546	Rajakari – Lövskär	1205
Kattilankalla – Oulu 1	6476	Lövskär – Korra	1205
Sea area SW of Oulu 1	5476	Lövskär – Berghamn	1105
High Sea N of the latitude of Marjaniemi	5476	Lövskär – Grisselborg	1105
Raahe harbour – Heikinkari	8546	Inkoo a. Kantvik – sea area Porkkala	7201
Heikinkari – Raahe lighthouse	7476	Vuosaari harbour – Eestiluoto	1000
Raahe lighthouse – Nahkiainen	4476	Porvoo harbours – Varlax	1000
Latitude Marjaniemi – Ulkokalla, Sea	5476	Varlax – Porvoo lighthouse	1000
Rahja harbour – Välimatala	6366	Porvoo lighthouse – Kalbådagrund	1000
Vaelimatala to line Ulkokalla – Ykskivi	4046	Valko Harbour – Täktarn	7715
Sea betw. lat. of Ulkokalla –Pietarsaari	5456	Archipelago fairway Boistö – Glosholm	1105
Ykspihlaja – Repskaer	8846	Archipelago fairway Glosholm-Helsinki	1105
Repskaer – Kokkola lighthouse	6866	Kotka – Viikari	1315
Sea area off Kokkola lighthouse	5846	Viikari – Orrengrund	1715
Pietarsaari – Kallan	7856	Orrengrund – Tiiskeri	0//5
Sea area off Kallan	5876	Hamina – Suurmusta	7845

Suurmusta – Merikari Merikari – Kaunissaari	2715 1715
Russian Federation, 29.03.2022 Port of St. Petersburg St. Petersburg – E-point island Kotlin E-point Kotlin – long. lighth. Tolbuhkin Lighth. Tolbuhkin – lighth. –Šepelevskij Lighthouse Šepelevskij – island Sescar Island Sescar – Island Sommers Vyborg, port and bay Island Vichrevoj – Island Sommers Strait Bjerkesund E-point Bol'šoj Ber'ozovyj – Šepelevskij Luga bay Appr. Luga bay – line MošŠepel.	54/3 54/3 53/3 53/2 43/3 23/3 84/3 53/3 63/3 2312 52/2 32/2
Sweden, 29.03.2022 Karlsborg – Maloeren Sea area off Maloeren Luleå – Bjoernklack Bjoernklack – Farstugrunden E and SE of Farstugrunden Sandgroenn fairway Roedkallen – Norstroemsgrund Haraholmen – Nygrån Sea area off Nygrån Skelleftehamn – Gåsoeren Sea area off Gåsoeren Sea area off Bjuroeklubb NE of Nordvalen SW of Nordvalen Western Quark (W of Holmoearna) Umeå – Vaektaren SE of Vaektaren Oernskoeldsvik – Hoernskaten Hoernskaten – Skagsudde Fairway W of Ulvoearna Ångermanaelven north Sandoe Bridge Ångermanaelven south Sandoe Bridge Haernoesand – Haernoen Sundsvall – Draghaellan Hudiksvallfjaerden Hallstavik – Svartklubben Koeping – Kvicksund Västerås – Grönsö Grönsö – Södertälje Stockholm – Södertälje Fairway to Karlstad Fairway to Kristinehamn	6476 5576 6476 6476 5576 6476 4046 6456 2326 4376 5456 1306 1306 8446 1306 8446 1306 8446 1306 5434 1304 1304 1301 1201 1201 1201 1201 1201 1201 8392 8392