



Eisbericht Nr. 79

Amtsblatt des BSH

Jahrgang 95

Nr. 79

Friday, 18.03.2022

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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 im Norden und Osten 30–70 cm dickes, sehr dichtes, aufgeschobenes und aufgespresstes Eis. Im Südwesten meist offenes Wasser. In Norra Kvarken liegt in den Schären bis zu 55 cm dickes Festeis und auf See kommt zumeist 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 27°30' E treibt auf See sehr dichtes, 15–30 cm dickes Eis und weiter westlich örtlich sehr lockeres, dünnes Eis. Im Rigaischen Meerbusen kommt an der Küste bis zu 25 cm dickes Eis im Moonsund und in der Pärnubucht vor. Dünnes 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 in the north and east, 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 mostly 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 about 27°30' E, there is very close 15–30 cm thick ice and areas with thin, very open ice further west. In the Gulf of Riga, there is up to 25 cm thick ice at the coasts of Moonsund and in Pärnu Bay. Thin 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 or consolidated, 20–40 cm thick ice. At sea, there is an area with very close, ridged, 40–70 cm thick ice around 65°15' N 23°30' E. Else at sea, there is

very close, 30–60 cm thick, ridged and rafted ice east of the line Simpgrund – Kokkola. There is pressure in the ice field and it is difficult to force in places. A brash ice barrier is present along the western ice edge. In the southern Bay of Bothnia, there is 20–40 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 ice. At sea, there is mostly open water with some areas with 10–30 m thick, very open ice northeast

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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of Bjuröklubb and along the eastern fast ice edge. Some ice melt is expected over the weekend and the ice will drift towards the northeast, later east. , but overall no larger changes are expected. The

Norra Kvarken

In the archipelagoes off Vaasa, there is 30–55 cm thick fast ice to Ensten and then 10–35 cm thick, very close drift ice to Grynge. Along the Swedish coast, there is 20–40 cm thick fast ice in the archipelagos and 10–30 cm thick, very close ice inside Holmöarna. At sea, there is mostly open water

Sea of Bothnia

On Ångermanälven, there is 20–50 cm thick very close ice in the upper part and 15–35 cm open 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. Along the eastern coast, there is 10–40 cm fast ice in the inner archi-

Archipelago and Åland Sea

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

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. Outside a lead with level ice. At sea, east of a line from Haapasaari to Narva there is mostly very close, 15–30 cm thick ice; further west a narrow area with very open ice stretching all the way to Kunda along the southern

Gulf of Riga

In Moonsund, there is 10–20 cm thick fast ice at the eastern coast, followed by very close ice. Further out and on the fairways, there is mostly open water. In Pärnu Bay, there is 15–30 cm thick fast ice near the coast. Very close, ridged ice with new

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

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

Swedish Lakes

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

ice will drift to the north/northeast. Overall the ice will clear in the southwest but will stay difficult in the northeast.

South of Nordvalen it is mostly ice free with open water along the coasts.

With mostly northeasterly ice drift, there will be some ice melt over the weekend; and most ice at sea will be melting or drifting away.

pelagos, followed by a very narrow belt of 10–35 cm thick, very close ice and very open ice further out. In the north, there is a brash ice barriers at the ice edge.

With day temperatures surpassing 5°C in many regions, ice melt is expected over the weekend.

archipelagos. Around the Åland Islands, there is thin level ice.

Over the weekend air temperatures can go up to around 10°C in places, so ice melt is expected.

coast. In Luga Bay there is 10–20 cm thick, very close ice. In the archipelagos of the northern coast, there is fast ice, 10–35 cm thick in the west and 30–55 cm thick in the east. Off the fast ice east of Loviisa, there is close to open, 5–30 cm thick ice. Ice melt is expected in the west, but in the east this will not lead to no larger changes over the weekend.

ice at places is present out to the line Manilaid – Häädemeeste.

Ice melt, but overall no larger changes are expected over the weekend.

dish coast, there is partly broken, thin level ice at a few sheltered places.

Ice melt is expected over the weekend.

ice. Else it is mostly ice free.

Ice melt is expected over the weekend.

Ice melt will continue 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	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 and Förby	2000 dwt	I	16.01.
	Inkoo and Kantvik	2000 dwt	II	15.03.
	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	IC	14.03.
	Örnsköldsvik	2000 dwt	IC	15.01.
	Ångermanälven	2000 dwt	IB	06.01.
	Härnösand	2000 dwt	II	22.12.
	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:</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, 18.03.2022

Shipping route from Narva-Jõssuu	30//
Paernu, port and bay	7375
Moonsund	1//1

Russian Federation , 18.03.2022

Port of St. Petersburg	84/3
St. Petersburg – E-point island Kotlin	84/3
E-point Kotlin – long. lighth. Tolbuhkin	53/3
Lighth. Tolbuhkin – lighth. –Šepelevskij	52/2
Lighthouse Šepelevskij – island Sescar	53/3
Island Sescar – Island Sommers	53/3
Island Sommers– S-point island Gogland	30/1
Vyborg, port and bay	84/3
Island Vichrevoj – Island Sommers	53/3
Strait Bjerkesund	53/3
E-point Bol'šoj Ber'ozovyj – Šepelevskij	51/2
Luga bay	52/2
Appr. Luga bay – line Moš.-Šepel.	52/2

Sweden , 18.03.2022

Karlsborg – Maloeren	6456
Sea area off Maloeren	5576
Luleå – Bjoernklack	6456
Bjoernklack – Farstugrunden	6456
E and SE of Farstugrunden	5576
Sandgroenn fairway	6456
Roedkallen – Norstroemgrund	5456

Haraholmen – Nygrån	8546
Sea area off Nygrån	5456
Skelleftehamn – Gåsoeren	5456
Sea area off Gåsoeren	5456
Sea area off Bjuroeklubb	6456
NE of Nordvalen	1206
SW of Nordvalen	1201
Western Quark (W of Holmoearna)	5356
Umeå – Vaektaren	8446
Fairway to Husum	1206
Oernskoeldsvik – Hoernskaten	8446
Hoernskaten – Skagsudde	8446
Fairway W of Ulvoearna	1206
Ångermanaelven north Sandoe Bridge	5434
Ångermanaelven south Sandoe Bridge	4434
Haernoessand – Haernoen	1206
Sundsvall – Draghaellan	1201
Draghaellan – Åstholmsudde	1201
Hudiksvallfjaerden	8442
Iggesund – Agoe	4432
Sandarne – Haellgrund	1000
Ljusnefjaerden – Storzungrun	1000
Gaeve – Eggegrund	8442
Oeregrundsgrepen	1000
Hallstavik – Svartklubben	8342
Koeping – Kvicksund	8344
Våsterås – Grönsö	8344
Grönsö – Södertälje	5244

Stockholm – Södertälje 5242
 Fairway to Gruvön 5041
 Fairway to Karlstad 8392
 Fairway to Kristinehamn 8392

Finland , 17.03.2022

Roeyttae – Etukari 8546
 Etukari – Ristinmatala 8546
 Ajos – Ristinmatala 8546
 Ristinmatala – Kemi 2 6476
 Kemi 2 – Kemi 1 5476
 Sea area SW of Kemi 1 5476
 Kemi 2 – Ulkokrunni – Virpiniemi 8546
 Oulu harbours – Kattilankalla 8546
 Kattilankalla – Oulu 1 6476
 Sea area SW of Oulu 1 5476
 High Sea N of the latitude of Marjaniemi 5476
 Raahe harbour – Heikinkari 8546
 Heikinkari – Raahe lighthouse 7476
 Raahe lighthouse – Nahkiainen 5476
 Latitude Marjaniemi – Ulkokalla, Sea 5476
 Rahja harbour – Välimatala 6366
 Vaelimatala to line Ulkokalla – Ykskivi 5476
 Sea betw. lat. of Ulkokalla –Pietarsaari 5456
 Ykspihlaja – Repskaer 8846
 Repskaer – Kokkola lighthouse 6866
 Sea area off Kokkola lighthouse 9836
 Pietarsaari – Kallan 7856
 Sea area off Kallan 5856
 Sea lat. Pietarsaari – NE Nordvalen 1726
 Sea area ENE of Nordvalen 2216
 Sea area Nordvalen to W of Norrskaer 0//6
 Vaskiluoto – Ensten 8446
 Ensten – Vaasa lighthouse 5326
 Vaasa lighthouse – Norrskaer 1216
 Kaskinen – Sälgrund 5746
 Sea area off Sälgrund 5766
 Pori harb. to line Pori lighth. – Säppi 5245
 Rauma, Harbour – Kymäpihlaja 7765
 Kymäpihlaja – Rauma lighthouse 1205
 Uusikaupunki harbour – Kirsta 8745
 Kirsta – Isokari 1715
 Naantali and Turku – Rajakari 7245
 Rajakari – Lövskär 3215
 Lövskär – Korra 3215
 Korra – Isokari 1105
 Lövskär – Berghamn 1105
 Lövskär – Grisselborg 1105
 Koverhar – Hästö Busö 3005
 Inkoo a. Kantvik – sea area Porkkala 7205
 Sea area at Porkkala 3005
 Helsinki harbours – Harmaja 4045
 Harmaja – Helsinki lighthouse 3005
 Fairway Helsinki – Porkkala – Rönnskär 3005
 Vuosaari harbour – Eestiluoto 4045
 Eestiluoto – Helsinki lighthouse 3005
 Porvoo harbours – Varlax 4045
 Varlax – Porvoo lighthouse 3005
 Porvoo lighthouse – Kalbådagrund 3005
 Valko Harbour – Täktarn 7116

Archipelago fairway Boistö – Glosholm 3005
 Archipelago fairway Glosholm–Helsinki 4045
 Kotka – Viikari 5346
 Viikari – Orregrund 3725
 Orregrund – Tiiskeri 3005
 Tiiskeri – Kalbådagrund 3005
 Hamina – Suurmusta 7846
 Suurmusta – Merikari 4746
 Merikari – Kaunissaari 4746
 Fairway to Karlstad 8392
 Fairway to Kristinehamn 8392

Norway , 16.03.2022

Svinesund – Halden 31//
 Tønsberg, inner harbour 8031
 Vestfjord (Tønsberg) 8031