



Eisbericht Nr. 69

Amtsblatt des BSH

Jahrgang 95

Nr. 69

Friday, 04.03.2022

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 20–60 cm dickes, sehr dichtes und aufgeschobenes Eis. Im zentralen nördlichen Teil kommt örtlich dickeres, aufgedrücktes 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 Sommers – Sosnowy Bor treibt auf See meist sehr dichtes, 15–30 cm dickes Eis. Weiter außerhalb treibt bis etwa Moščnyj örtlich dichtes Eis, aber zumeist kommt 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 and rafted ice. In the northern central part, there is an area of thicker and ridged ice and in the southwest, there is 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 Sommers – Sosnowy Bor, there is mostly very close, 15–30 cm thick ice. Further out to about Moščnyj, there is some drifting close ice, but else 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 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 20–60 cm thick consolidated ice, in the east to Kemi-2 and Oulu-1. Off the fast ice in the west, there is very close, 20–35 cm thick ice followed by a narrow lead of very open

ice from Nygrån to Malören. At sea, there is very close, 20–60 cm thick ice. The ice field is rafted and at places difficult to force. Centered at around 65°10' N 23°20' E, there is an area with very close, ridged and 40–60 cm thick ice. In the southern Bay of Bothnia, there is 20–45 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 con-

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)
www.bsh.de/eis
www.bsh.de/ice

© BSH - Alle Rechte vorbehalten
Nachdruck, auch auszugsweise, verboten

Eisauskünfte / Ice Information

Telefon: +49 (0) 381 4563 -780
Telefax: +49 (0) 381 4563 -949
E-Mail: ice@bsh.de

© BSH - All rights reserved
Reproduction in whole or in part prohibited

solidated ice. At sea in the east, there is 20–45 cm thick, very close ice, and west of about 22°15' E, there is a wide lead with mostly very open, 2–25 cm thick 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 Glöppsten. Along the Swedish coast, there is 20–40 cm thick fast ice in the archipelagos. Further out to Nordvalen and Holmöarna, there is very open to close, 10–30 cm

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, further out there is, north of about Högbonden, very open to close ice. Along the eastern coast, there is 10–40 cm fast ice in the

Archipelago and Åland Sea

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

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 and very close ice in the entrance to Vyborg Bay. Outside a lead with very open ice. At sea north of a line from a point between some miles northeast of Sommers to Sosnowy Bor, there is mostly very close, 15–30 cm thick ice. Further south and reaching Moščnyj,

Gulf of Riga

In Moonsund, there is 10–20 cm thick fast near the coasts and open to very 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 close ridged ice out to the line Manilaid –

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. Along the Swedish coast,

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.

With constant moderate frost and only light winds, ice formation is expected over the weekend. The ice will drift only slowly to the north and later to the east.

thick ice. At sea, there is mostly open water and in the north also very open ice, 5–25 cm thick.

With temperatures around or just slightly below 0°C some ice formation is possible over the weekend and there will be a slight ice drift to the east.

inner archipelagos, followed by a narrow belt of 10–35 cm thick, very close and in places ridged ice.

With temperatures around 0°C and only slight eastward ice drift expected over the weekend, no larger changes are expected.

open water in the outer archipelagos. Around the Åland Islands, there is thin level ice.

No larger changes are expected the coming day.

there is close ice. In the archipelagos of the northern coast, there is fast ice, 10–35 cm thick in the west and 20–45 cm thick in the east. Open water is present along the entire ice edge with very open ice east of about 26°E..

In the eastern part some ice formation with an overall eastwards ice drift is expected over the weekend.

Häädemeeste and very open ice still a little bit further out.

With temperatures increasing over the weekend, but staying around 0° C, ice may form over night, but overall no larger changes are expected.

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

No larger changes are expected over the weekend.

ice. Else it is mostly ice free.

Some ice melt is expected over the weekend.

Some ice melt, but overall no larger changes are 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.
	Raahe	4000 dwt	IA	08.03.
	Kokkola, Kalajoki, 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, 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	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, SISU, FREJ, ATLE and YMER assist in the Bay of Bothnia. ALE assist in the Quark and ZEUS in the Sea of Bothnia, FENNICA and NORDICA 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>
---	--

Estonia , 04.03.2022

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

Finland , 04.03.2022

Roeyttae – Etukari	8546
Etukari – Ristinmatala	8846
Ajos – Ristinmatala	8846
Ristinmatala – Kemi 2	6876
Kemi 2 – Kemi 1	5376
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	5876
Raahe harbour – Heikinkari	8446
Heikinkari – Raahe lighthouse	7446
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	5846
Pietarsaari – Kallan	7846
Sea area off Kallan	5846
Sea lat. Pietarsaari – NE Nordvalen	2326
Sea area ENE of Nordvalen	1716
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	4746
Pori harb. to line Pori lighth. – Säppi	5245
Rauma, Harbour – Kylmäpihlaja	7745
Kylmäpihlaja – Rauma lighthouse	1115
Naantali and Turku – Rajakari	7245
Rajakari – Lövskär	2115
Lövskär – Korra	2115
Korra – Isokari	1115
Lövskär – Berghamn	1105
Lövskär – Grisselborg	1105
Hanko – Vitgrund	1105
Inkoo a. Kantvik – sea area Porkkala	7206
Sea area at Porkkala	0//6

Helsinki harbours – Harmaja	2105
Fairway Helsinki – Porkkala – Rönnskär	1105
Vuosaari harbour – Eestiluoto	1105
Porvoo harbours – Varlax	2145
Varlax – Porvoo lighthouse	1015
Valko Harbour – Tåktarn	7346
Archipelago fairway Boistö – Glosholm	1006
Archipelago fairway Glosholm–Helsinki	2115
Kotka – Viikari	5346
Viikari – Orrengrund	2725
Orrengrund – Tiiskeri	2115
Hamina – Suurmusta	7846
Suurmusta – Merikari	4346
Merikari – Kaunissaari	2326

Iggesund – Agoe	8446
Gaeve – Eggegrund	8446
Hallstavig – Svartklubben	8342
Koeeping – Kvicksund	8344
Västerås – Grönsö	8344
Grönsö – Södertälje	5244
Stockholm – Södertälje	5242
Fairway to Karlstad	8392
Fairway to Kristinehamn	8392

Russian Federation , 04.03.2022

Port of St. Petersburg	84/3
St. Petersburg – E-point island Kotlin	84/3
E-point Kotlin – long. lighth. Tolbuhkin	54/3
Lighth. Tolbuhkin – lighth. – Šepelevskij	52/2
Lighthouse Šepelevskij – island Sescar	53/3
Island Sescar – Island Sommers	53/3
Island Sommers - S-point island Gogland	43/3
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.	53/2

Sweden , 04.03.2022

Karlsborg – Maloeren	6456
Sea area off Maloeren	5576
Luleå – Bjoernklack	6456
Bjoernklack – Farstugrunden	6456
E and SE of Farstugrunden	5576
Sandgroenn fairway	6456
Roedkallen – Norstroemsggrund	6456
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	4356
NE and SE of Sydostbrotten	1306
Fairway to Husum	2326
Oernskoeldsvik – Hoernskaten	8446
Hoernskaten – Skagsudde	8446
Sea area off Skagsudde	2326
Fairway W of Ulvoearna	2326
Sea area E of Ulvoearna	2326
Ångermanaelven north Sandoe Bridge	5434
Ångermanaelven south Sandoe Bridge	5434
Sundsvall – Draghaellan	8346
Draghaellan – Åstholmsudde	2226
Hudiksvallfjaerden	8446