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BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Eisbericht Nr. 95

Amtsblatt des BSH

Jahrgang 97	Nr. 95	Wednesday, 03.04.2024	1

Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 80 cm dickes, in den südlichen bis 70 cm dickes Festeis. Im Osten verläuft außerhalb des Festeises eine Rinne mit örtlich etwas Treibeis. Auf See treibt im Nordwesten zumeist 40–70 cm dickes, sehr dichtes, örtlich aufgepresstes und übereinandergeschobenes Eis, das teilweise schwer zu passieren ist. Weiter südlich treibt auf See im Westen bis 40 cm dickes, sehr dichtes oder dichtes Eis, um im Osten kommt offenes Wasser vor. An den Küsten von Norra Kvarken liegt bis 60 cm dickes Festeis; auf See treibt sehr lockeres bis sehr dichtes, 10–40 cm dickes Eis. An den Küsten der Bottensee kommt im Osten bis 55 cm und im Westen bis 40 cm dickes Festeis vor und im Nordwesten treibt vor der Küste 10–40 cm dickes, sehr dichtes Eis. Im Schärenmeer kommt morsches Festeis und offenes Wasser vor. Im Osten und Norden des Finnischen Meerbusens liegt bis 55 cm dickes Festeis; auf See treibt ganz im Nordosten 10–35 cm dickes Eis. Im Väinameri und Mälaren kommt örtlich morsches Festeis und offenes Wasser vor.

Overview

In the Bay of Bothnia there is fast ice in the archipelagos, up to 80 cm thick in the north and up to 70 cm thick in the south. Outside the fast ice in the east there is a lead with some drift ice at places. At sea in the northwest, there is mostly 40–70 cm thick, very close, ridged and rafted ice that is difficult to force at places. Further south there is up to 40 cm thick very close and close ice in the west and open water in the east. In the Quark there is up to 60 cm thick fast ice at the coasts and at sea there is 10–40 cm thick, very open to very close ice. At the coasts of the Sea of Bothnia there is fast ice, up to 55 cm thick in the east and up to 40 cm thick in the west and 20-40cm thick, very close ice is present outside the northwestern coast. Rotten fast ice and open water is present in the Archipelago Sea. There is up to 55 cm thick fast ice at the eastern and northern coast of the Gulf of Finland. At sea in the extreme northeast there is 10–35 cm thick ice. In Väinameri and Malären there is rotten fast ice at places and open water.

Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast ice; 50–80 cm thick in the north and 40–70 cm thick in the south. In the northeast the fast ice stretches out to Malören, Kemi-3, Oulu-3 and Raahe lighthouse. West of about 23°20'E, there is 40–70 cm thick, ridged and rafted, very close ice to about 64°10'N in the south. The ice field is difficult to force at places. Further south to Holmöarna there is close to very close, 10–40 cm thick drift ice. In the eastern part runs a wide lead with some drift ice around and southwest of Nahkianinen and at places elsewhere.

With light to moderate frost new ice formation is expected and the ice will drift to the south/southwest.

Herstellung und Vertrieb
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The Quark

There is 35–60 cm thick fast ice in the Vaasa archipelago out to Ensten. Along the Swedish coast there is up to 40 cm thick fast ice. At sea there is very open to open ice in the west and close to very close, 10–40 cm thick drift ice east of Nordvalen and stretching to Norrskär in the south.
With light to moderate frost some new ice formation is expected and the ice will drift to the south/southwest.

Sea of Bothnia

Along the coasts there is mostly fast ice in the inner bays; 20–55 cm thick in the east and 5–40 cm thick in the west. The fast ice in the far south is partly rotten. On Ångermanälven, there is 15–40 cm thick fast ice. Off the coast north of about Brämön, there is open 10–40 cm thick ice and north of the latitude of about Sundsvall, there is 10–40 cm thick, very close ice. Off the coast in the east there is open water.
With light frost and northeasterly winds, some new ice formation may occur in the north and the ice will drift to the south.

Archipelago Sea and Åland Sea

In the Archipelago Sea there is rotten fast ice in the archipelago and around the Åland Islands with open water in between. In the Åland Sea there is rotten fast ice in bays along the coast.
No mayor change is expected.

Northern Baltic

In Lake Mälaren there is rotten fast ice in bays and near the coast and open water elsewhere. Along the outer Swedish coast there is open water and locally some broken ice.
No mayor change is expected.

Gulf of Finland

Along the northern coast there is fast ice in the archipelago, rotten in the west and up to 55 cm thick in the east. In the Vyborg Bay there is 20–30 cm thick fast ice and in the Bjerkesund there is very open ice; very close ice is present in both entrances. Off the northern fast ice, there is 10–35 cm thick, partly ridged, close to very close ice east of about Kotka and open water further west. From St. Petersburg to Kotlin there is very open ice, with areas of very close ice north and south of Kotlin. Further west is open water. In Lake Saimaa is 30–55 cm thick ice with open areas.
With light frost along the northern and eastern coast ice formation is possible in sheltered places. The ice will drift to the south.

Gulf of Riga

In Väinameri there is rotten fast ice in places near the coasts. On the fairways it is ice-free. The Bay of Pärnu is ice-free.

Some night frost is expected the coming day, but overall the remaining ice will slowly melt.

Swedish Lakes

Lake Vänern is mostly ice-free.

Dr. W. Aldenhoff

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi and Oulu	4000 dwt	IA	02.04.
	Raahe, Kalajoki, Kokkola and Pietarsaari	4000 dwt	IA	13.01.
	Vaasa	2000 dwt	IB	02.04.
	Mussalo, Loviisa and Kotka	2000 dwt	II	02.04.
	Hamina	2000 dwt	I	25.03.
	Lake Saimaa	2000 dwt	IA	08.01.
	Saimaa Canal	2000 dwt	IA	08.01.
Russia	Vyborg	-	Ice 1	28.03.
	Vysotsk	-	Ice 1	28.03.
	Primorsk	-	Ice 1	25.03.
Sweden	Karlsborg	4000 dwt	IA (2000 t)	14.01.
	Lulea, Haraholmen and Skelleftehamn	4000 dwt	IA	14.01.
	Rundvik, Husum and Örnsköldsvik	2000 dwt	IA	19.02.
	Holmsund	2000 dwt	IA	17.02.
	Angermanälven	2000 dwt	IB	27.03.
	Stocka, Hudiksvall, Iggesund, Söderhamn	2000 dwt	IC	26.02.
	Orrskär, Norrsundet, Gävle and Skutskär	2000 dwt	II	18.03.
	Härnösand	2000 dwt	IB	26.02.
	Söråker and Sundsvall	2000 dwt	IC	22.03.
	Hargshamn, Öregrund, Hallstavik and Grisslehamn	**-**	**cancelled**	**03.04.**
	Köping, Västeras and Balsta	**-**	**cancelled**	**03.04.**

Finland/Sweden

The transit traffic west of Holmöarna is temporarily prohibited.
Öregrundsgrepen: Transit traffic for low powered vessels is not recommended.
The traffic separation schemes in the Quark are temporarily out of use from 20 December due to ice conditions.
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 82. 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: YMER, ODEN, FREJ, ATLE, POLARIS and URHO assist in the Bay of Bothnia. OTSO assists in the southern Bay of Bothnia. ZEUS and ALE assist in the Quark. CALYPSO assists the Gulf of Finland.

Russia

There are restrictions for small crafts going to St. Petersburg, Vyborg, Vysotsk, Primorsk and Ust-Luga.
Barge towed by tug not allowed to navigate in ice.

Icebreakers: Several icebreakers assist vessels to the port of St. Petersburg, Vyborg, Vysotsk and Primorsk.

Baltic Sea Ice Code

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

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

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 foes – 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

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 after special permission
8 Navigation temporarily closed
9 Navigation has ceased
/ Unknown

Estonia, 02.04.2024

Moonsund	1//1

Finland, 03.04.2024

Röyttä – Etukari	8546
Etukari – Ristinmatala	8546
Ajos – Ristinmatala	8546
Ristinmatala – Kemi 2	7476
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Kemi 2 – Ulkokrunni – Virpiniemi	7476
Oulu harbours – Kattilankalla	8546
Kattilankalla – Oulu 1	7476
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Raahe harbour – Heikinkari	8546
Heikinkari – Raahe lighthouse	6476
Raahe lighthouse – Nahkiainen	2426
Latitude Marjaniemi – Ulkokalla, Sea	9416
Rahja harbour – Välimatala	8446
Vaelimatala to line Ulkokalla – Ykskivi	2456
Sea betw. lat. of Ulkokalla –Pietarsaari	9326
Ykspihlaja – Repskär	7476
Repskär – Kokkola lighthouse	5476
Sea area off Kokkola lighthouse	1306
Pietarsaari – Kallan	8446
Sea area off Kallan	1306
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Sea area ENE of Nordvalen	5356
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Vaasa lighthouse – Norrskär	4356
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Kaskinen – Sälgrund	8442
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Pori harb. to line Pori lighth. – Säppi	1302
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Rauma, Harbour – Kylmäpihlaja	1302
Kylmäpihlaja – Rauma lighthouse	1302
Uusikaupunki harbour – Kirsta	8842
Kirsta – Isokari	1302
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Naantali and Turku – Rajakari	5392
Rajakari – Lövskär	5392
Lövskär – Korra	8392
Korra – Isokari	1302
Lövskär – Berghamn	1302
Berghamn – Stora Sottunga	1302
Stora Sottunga – Ledskär	1302
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Grisselborg – Norparskär	1302
Hanko – Vitgrund	1302
Vitgrund – Utö	1302
Koverhar – Hästö Busö	1302

Inkoo a. Kantvik – sea area Porkkala	8392
Helsinki harbours – Harmaja	8892
Harmaja – Helsinki lighthouse	1302
Fairway Helsinki – Porkkala – Rönnskär	1302
Vuosaari harbour – Eestiluoto	1302
Eestiluoto – Helsinki lighthouse	1302
Porvoo harbours – Varlax	1302
Varlax – Porvoo lighthouse	1302
Valko Harbour – Täktarn	8445
Archipelago fairway Boistö – Glosholm	1305
Archipelago fairway Glosholm–Helsinki	1302
Kotka – Viikari	1305
Viikari – Orrengrund	1305
Orrengrund – Tiiskeri	1305
Hamina – Suurmusta	8446
Suurmusta – Merikari	8446
Merikari – Kaunissaari	3716

Russian Federation, 03.04.2024

Port of St. Petersburg	21//
St. Petersburg – E-point island Kotlin	21//
E-point Kotlin – long. lighth. Tolbuhkin	21//
Lighth. Tolbuhkin – lighth. –Šepelevskij	21//
Lighthouse Šepelevskij – island Sescar	32//
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Sweden, 03.04.2024

Karlsborg – Malören	8646
Sea area off Malören	5676
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Björnklack – Farstugrunden	5576
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Sea area off Nygrån	5556
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Stockholm – Trälhavet – Klövholmen	1000
Köping – Kvicksund	1101
Västerås – Grönsö	8392
Grönsö – Södertälje	1101
Stockholm – Södertälje	1101