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BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Eisbericht Nr. 99

Amtsblatt des BSH

Jahrgang 95	Nr. 99	Tuesday, 19.04.2022	1

Übersicht

In den Schären der Bottenwiek liegt im Norden 45–85 cm dickes Festeis und im Süden 30–55 cm dickes Festeis. Entlang des Festeises im Norden liegt eine bis15 sm breite Rinne mit offenem Wasser, örtlich aber auch dichtem Eis. Auf See treibt 20–80 cm dickes, sehr dichtes, aufgeschobenes und aufgepresstes Eis bis etwa Pietarsaari. In Norra Kvarken liegt in den Schären bis zu 50 cm dickes Festeis. Auf See kommt offenes Wasser vor. Entlang der Küsten und in den Schären der Bottensee und des Schärenmeeres liegt morsches Eis. Im Finnischen Meerbusen liegt entlang der Nordküste im Westen morsches Eis und im Osten bis 45 cm dickes Festeis. Im Osten treibt auf See 15–30 cm dickes, sehr dichtes Eis und entlang der Südküste bis St. Petersburg dichtes bis sehr lockeres Eis. Ansonsten ist die Ostsee zumeist eisfrei.

Overview

In the archipelagos of the Bay of Bothnia, there is 45–85 cm thick fast ice in the north and 30–55 cm thick fast ice in the south. Outside the fast ice in the north, there is a 15 NM wide open water with close ice at places. At sea, there is mostly 20–80 cm thick, very close, ridged and rafted ice to about Pietarsaari. In Norra Kvarken, there is up to 50 cm thick fast ice in the archipelagos. At sea, there is open water. Along the coasts and archipelagos of the Sea of Bothnia and the Archipelago Sea, there is rotting ice. In the Gulf of Finland, there is up to 45 cm thick fast ice along the northern and eastern coast and rotten ice in the western part. At sea in the east, there is mostly very close, 15–30 cm thick ice and along the southern coast to St. Petersburg, there is close to very open ice. Else, the Baltic Sea is mostly ice free.

Bay of Bothnia

In and outside the northeastern archipelagos, there is 40–80 cm thick fast ice and consolidated ice, reaching out to Kemi-2, Oulu-2 and Johan. In the northwestern archipelagos the fast ice and consolidated ice is 45–85 cm thick. Further out in the north, there is an up to 15 NM wide lead with open water. South of Malören, there is an area with close, 15–60 cm thick drift ice. From Nygrån to Blackkallen, there is an up to 5 NM wide lead with open water and close to open, 15–60 cm thick ice further south. Else at sea, there is mostly 15–60 cm thick, very close, ridged and rafted ice. Around 64°50'N 22°40'E, there is an area with 50-80 cm thick, ridged and very close to close ice. The ice field is difficult to force in places. In the southern Bay of Bothnia, there is 30–50 cm thick fast ice along the Swedish coast and along the eastern coast, there is 30–55 cm thick fast ice or consolidated ice. At sea, there is mostly 15–60 cm thick, very close ice. The ice edge runs approximately from Pietarsaari to the northwest.
Some ice melt is expected the coming day and the ice will drift slightly to the north.

Herstellung und Vertrieb
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Norra Kvarken
In the archipelagos off Vaasa, there is 20–55 cm thick fast ice to about Storhästen. Along the Swedish coast, there is 20–50 cm thick fast ice in the archipelagos. At sea, there is open water to Nordvalen and along the coasts.
Ice melt continues the coming day.

Sea of Bothnia
On Ångermanälven, there is 20–50 cm thick very close ice in the upper part and open water in the lower part. Along the Swedish coast there is rotting fast ice in places in the south and in sheltered bays in the north. Along the Finnish coast, there is rotten fast ice.
Ice melt is expected the coming day.

Archipelago and Åland Sea
Rotten ice is present in the inner archipelagos and sheltered areas of the eastern coast. Further out and along the Swedish coast it is mostly ice free.
Continued ice melt is expected the coming day.

Gulf of Finland
From St. Petersburg up to the dike, there is 15-25 cm thick, very open drift ice and open water in the harbours. In the Bay of Vyborg and the Bjerkesund, there is mostly 15–35 cm thick compact or fast ice and close to very open ice somewhat further out. At sea east of 28°00'E and north of about 60°00'N, there is 10–30 cm thick, very close and partly ridged ice. Along the southern coast, there is close to very open ice from about 29°00'E to the dike. Off the ice, there is open water. In the archipelagos of the northern coast, there is rotting fast ice in the west and 5–50 cm thick, partly rotting fast ice in the east. Further out in the east, there is mostly open water or very open ice.
Ice melt continues the coming day and the ice will drift to the west/southwest.

Gulf of Riga
The Gulf of Riga is ice free.

Northern Baltic
The area is 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	21.03.
	Raahe and Kalajoki	4000 dwt	IA	08.03.
	Kokkola and Pietarsaari	2000 dwt	IA	01.02.
	Vaasa	2000 dwt	I	31.03.
	Hamina	2000 dwt	II	29.03.
	Lake Saimaa	**2000 dwt**	**IA**	**19.04.**
Russia	**Vyborg**	**-**	**cancelled**	**15.04.**
	Vysotsk	-	Ice 1	01.04.
	Primorsk	-	Ice 1	06.04.
	Ust-Luga	**-**	**cancelled**	**15.04.**
	St. Petersburg	**-**	**cancelled**	**13.04.**
Sweden	Karlsborg	4000 dwt	IA	12.04.
	Luleå	4000 dwt	IA	19.02.
	Haraholmen and Skelleftehamn	4000 dwt	IA	19.02.
	Holmsund, Rundvik and Husum	2000 dwt	II	07.04.
	Örnsköldsvik	2000 dwt	II	30.03.
	Ångermanälven	2000 dwt	IB	06.01.
	Härnösand	2000 dwt	II	22.12.

Information of the Icebreaker Services

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, ODEN, FREJ and ALE assist in the Bay of Bothnia. ZEUS assists in the Quark. **TYRSKY** assists in the Lake Saimaa.

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

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

Finland, 19.04.2022

Röyttä – Etukari	8646
Etukari – Ristinmatala	8546
Ajos – Ristinmatala	8546
Ristinmatala – Kemi 2	6476
Kemi 2 – Kemi 1	9226
Sea area SW of Kemi 1	1216
Kemi 2 – Ulkokrunni – Virpiniemi	8546
Oulu harbours – Kattilankalla	8546
Kattilankalla – Oulu 1	6476
Sea area SW of Oulu 1	5446
High Sea N of the latitude of Marjaniemi	9476
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	9426
Sea betw. lat. of Ulkokalla –Pietarsaari	5476
Ykspihlaja – Repskär	8846
Repskär – Kokkola lighthouse	9426
Sea area off Kokkola lighthouse	5476
Pietarsaari – Kallan	7856
Sea area off Kallan	9816
Sea lat. Pietarsaari – NE Nordvalen	1326
Sea area ENE of Nordvalen	1326
Vaskiluoto – Ensten	7446
Ensten – Vaasa lighthouse	1316
Uusikaupunki harbour – Kirsta	1100
Inkoo a. Kantvik – sea area Porkkala	1790
Valko Harbour – Täktarn	2712
Hamina – Suurmusta	2725
Suurmusta – Merikari	1715

Russian Federation, 19.04.2022

Port of St. Petersburg	1311
St. Petersburg – E-point island Kotlin	2311
E-point Kotlin – long. lighth. Tolbuhkin	2311
Lighth. Tolbuhkin – lighth. –Šepelevskij	1311
Lighthouse Šepelevskij – island Sescar	43/2
Island Sescar – Island Sommers	43/2
Vyborg, port and bay	83/2
Island Vichrevoj – Island Sommers	3322
Strait Bjerkesund	3312
E-point Bol'šoj Ber'ozovyj – Šepelevskij	52/2
Appr. Luga bay – line Moš.-Šepel.	1210

Sweden, 19.04.2022

Karlsborg – Malören	6576
Sea area off Malören	5576
Luleå – Björnklack	6576
Björnklack – Farstugrunden	6576
E and SE of Farstugrunden	1506
Sandgrönn fairway	6576
Rödkallen – Norströmsgrund	4676
Haraholmen – Nygrån	6456

Sea area off Nygrån	6456
Skelleftehamn – Gåsören	6456
Sea area off Gåsören	6456
Sea area off Bjuröklubb	5556
NE of Nordvalen	1406
SW of Nordvalen	1406
Western Quark (W of Holmöarna)	1406
Umeå – Väktaren	1406
SE of Väktaren	1406
Örnsköldsvik – Hörnskaten	2326
Hörnskaten – Skagsudde	2326
Ångermanälven north Sandö Bridge	5434
Ångermanälven south Sandö Bridge	1404
Hudiksvallfjärden	8492