



Eisbericht Nr. 102

Amtsblatt des BSH

Jahrgang 95

Nr. 102

Friday, 22.04.2022

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Übersicht

In den Schären der Bottenwiek liegt im Norden 45–85 cm dickes Festeis und im Süden 30–55 cm dickes Festeis. Auf See treibt zumeist 15–80 cm dickes, sehr dichtes, aufgeschobenes und aufgepresstes Eis bis etwas südlich von Pietarsaari. Örtlich kommt aber auch sehr lockeres Eis oder offenes Wasser vor. 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 und des Schärenmeeres liegt morsches Eis. Im Finnischen Meerbusen liegt entlang der Küste im Norden morsches Eis. Im Osten treibt auf See 15–30 cm dickes, sehr dichtes Eis und entlang der Südküste bis St. Petersburg ist zumeist offenes Wasser. 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. At sea, there is mostly 15–80 cm thick, very close, ridged and rafted ice to slightly south of Pietarsaari. At places, there is also open water or very open ice. In Norra Kvarken, there is up to 55 cm thick fast ice in the archipelagos and at sea, there is mostly 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 rotting ice along the northern coast. 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 mostly open water. 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. Off the fast ice in the north, there is an about 20 NM wide area with open water or very open ice in the west and close or very open, 15–60 cm thick ice east of 23°15'E. Off the western fast ice from Nygrån to Blackkallen, there is an up to 8 NM wide lead with open water or very open ice. 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 a larger area

with 40–80 cm thick, ridged and very close ice. The ice field is difficult to force in places but there are also cracks and leads. 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 and close ice at the ice edge. The ice edge runs approximately from south of Pietarsaari to the northwest. Further south very open, 15–40 cm thick ice in the east and open water in the west. Some ice melt is expected over the weekend and the ice will drift slowly to the south.

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

Sea of Bothnia

On Ångermanälven, there is partly broken, rotten fast ice in the upper part and open water in the lower part. Along the Swedish coast, there is rot-

Archipelago and Åland Sea

Rotten ice is present in the inner archipelagos and sheltered areas of the eastern coast. Further out

Gulf of Finland

From St. Petersburg up to the dike, there is open water or it is ice free. In the Bay of Vyborg and the Bjerkesund, there is mostly 15–30 cm rotting ice and drift ice in the entrances. At sea east of 27°40'E and north of about 60°00'N, there is mostly 10–30 cm thick, very close and partly ridged ice. East of 28°50' mostly open or very open ice, 10–40 cm thick. Further south, there is open water or it is

Gulf of Riga

The Gulf of Riga is ice free.

Northern Baltic

The area is ice free.

Nordvalen and along the coasts.

Ice melt continues over the weekend and ice drift will be to the south/southwest.

ten, partly broken fast ice sheltered bays. Along the Finnish coast, there is rotten fast ice.

Ice melt continues over the weekend.

and along the Swedish coast it is mostly ice free.

Ice melt continues over the weekend.

ice free to St. Petersburg. In the archipelagos of the northern coast, there is rotting fast ice in the west and 20–50 cm thick, rotting fast ice in the east.

In Lake Saimaa, there is rotting ice, 5–50 cm thick with some openings in the north.

Ice melt continues over the weekend and the ice will drift to the southwest.

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	II	20.04.
	Northern Lake Saimaa	2000 dwt	IA	19.04.
	Southern Lake Saimaa	2000 dwt	II	22.04.
Russia	Primorsk	-	cancelled	22.04.
Sweden	Karlsborg	2000 dwt	IA	20.04.
	Luleå	2000 dwt	IA	20.04.
	Haraholmen and Skelleftehamn	2000 dwt	IA	20.04.
	Ångermanälven	1300/2000 dwt	IC/II	20.04.

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, POLARIS, SISU, ODEN, FREJ and ALE assist in the Bay of Bothnia. 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

<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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Finland, 22.04.2022

Röyttä – Etukari	8646
Etukari – Ristinmatala	8546
Ajos – Ristinmatala	8546
Ristinmatala – Kemi 2	6476
Kemi 2 – Kemi 1	9226
Sea area SW of Kemi 1	3726
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	4476
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	5476
Ykspihlaja – Repskär	8846
Repskär – Kokkola lighthouse	5476
Sea area off Kokkola lighthouse	4476
Pietarsaari – Kallan	7856
Sea area off Kallan	4876
Sea lat. Pietarsaari – NE Nordvalen	1326
Sea area ENE of Nordvalen	0//6
Vaskiluoto – Ensten	7445
Ensten – Vaasa lighthouse	0//5

Uusikaupunki harbour – Kirsta	1100
Hamina – Suurmusta	1701
Suurmusta – Merikari	1701

Russian Federation, 22.04.2022

Lighth. Tolbukhin – lighth. – Šepelevskij	3322
Lighthouse Šepelevskij – island Sescar	2311
Vyborg, port and bay	53/2
Island Vichrevoj – Island Sommers	42/2
Strait Bjerkesund	3211
E-point Bol'šoj Ber'ozovyj – Šepelevskij	52/2

Sweden, 22.04.2022

Karlsborg – Malören	6576
Sea area off Malören	5576
Luleå – Björnklack	6576
Björnklack – Farstugrunden	6576
E and SE of Farstugrunden	4576
Sandgrönn fairway	6576
Rödskallen – Norströmsgrund	5676
Haraholmen – Nygrån	6456
Sea area off Nygrån	6456
Skelleftehamn – Gåsören	2576
Sea area off Gåsören	2576
Sea area off Bjuröklubb	5556
NE of Nordvalen	1402
SW of Nordvalen	1402
Western Quark (W of Holmöarna)	1402

Umeå – Väktaren	1402
SE of Väktaren	1402
Örnsköldsvik – Hörnskatan	2392
Hörnskatan – Skagsudde	2392
Ångermanälven north Sandö Bridge	8494
Ångermanälven south Sandö Bridge	1404
Hudiksvallfjärden	3492