



Eisbericht Nr. 108

Amtsblatt des BSH

Jahrgang 95

Nr. 108

Monday, 02.05.2022

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Übersicht

In den Schären der Bottenwiek liegt im Norden 40–80 cm dickes Festeis und im Süden morsches Festeis. Auf See treibt südlich von 65°00'N und östlich der Linie Simpgrund – Kokkola, zumeist 15–70 cm dickes, lockeres bis sehr dichtes, aufgepresstes Eis, in dem aber auch Risse und offene Stellen vorkommen. Ansonsten ist auf See offenes Wasser mit einigen Schollen und kleinen Eisfeldern. In Norra Kvarken liegt in den Schären morsches Festeis und auf See ist es größtenteils eisfrei. In Buchten der nördlichen Bottensee kommt örtlich morsches Festeis vor. Im östlichen Finnischen Meerbusen liegt an der Küste im Norden örtlich morsches Eis und davor kommt offenes Wasser vor.

Overview

In the archipelagos of the Bay of Bothnia, there is 40–80 cm thick fast ice in the north and rotten fast ice in the south. At sea, there is mostly 15–70 cm thick, open to very close, ridged ice between 65°00'N and east of the line Simpgrund – Kokkola; cracks and openings are present in the ice field. Else at sea, there is open water with some floes and patches of ice. In Norra Kvarken, there is rotten fast ice in the archipelagos and at sea, it is mostly ice free. In bays of the northern Sea of Bothnia, there is rotten fast ice at places. In the eastern Gulf of Finland, there is rotting ice along the northern coast and further out, there is open water.

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. The ice is rotting between Oulu and Hailuoto. In the northwestern archipelagos the fast ice and consolidated ice is 45–65 cm thick and partly rotten. South of 65°00'N and east of the line Simpgrund – Kokkola, there is mostly open to very close, 20–70 cm thick ridged ice with larger leads in the west. In the east,

there is very close, 15–50 cm thick ridged ice. Else at sea, there is open water with some single drifting floes and strips and patches at places.

In the southern Bay of Bothnia, there is rotten fast ice along the eastern coast, very open ice slightly further out and open water at sea.

Some ice melt is expected the coming day. The ice drift will first be to the east/northeast and later to the southeast/south.

Norra Kvarken

In the Vaasa archipelago, there is rotten fast ice with open water further out. Along the Swedish coast, there is rotten fast ice in sheltered bays. At

sea, it is mostly ice free.

Ice melt continues the coming day.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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Sea of Bothnia

On upper Ångermanälven, as well as in some other sheltered bays, there is broken and rotten fast ice. In the archipelagos along the Finnish coast, it

is mostly ice free.

Ice melt continues the coming day.

Archipelago and Åland Sea

The area is ice free.

Gulf of Finland

In the inner Bay of Vyborg and the eastern inner archipelagos of the northern coast, there are remnants of rotten ice and open water further out. In

Lake Saimaa, there is rotting ice, 5–30 cm thick with many openings.

The ice melt continues the coming day.

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	2000 dwt	IB	02.05.
	Pietarsaari	2000 dwt	I	02.05.
	Northern Lake Saimaa	2000 dwt	II	30.04.
	Southern Lake Saimaa	2000 dwt	II	22.04.
Sweden	Karlsborg	2000 dwt	IB	28.04.
	Luleå	2000 dwt	IB	28.04.
	Haraholmen and Skelleftehamn	2000 dwt	IC	02.05.

Information of the Icebreaker Services**Finland/Sweden**

The Saimaa Canal is open for traffic since 30.04.2022.

The traffic separation scheme in the Quark has been taken into use again on May 1st 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, ODEN and ALE assist in the Bay of Bothnia. TYRSKY assists in the Lake Saimaa.

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, 02.05.2022

Röyttä – Etukari	8646
Etukari – Ristinmatala	8546
Ajos – Ristinmatala	8546
Ristinmatala – Kemi 2	6476
Kemi 2 – Kemi 1	9226
Sea area SW of Kemi 1	1716
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	1316
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	2806
Repskär – Kokkola lighthouse	2806
Sea area off Kokkola lighthouse	1706
Pietarsaari – Kallan	2706
Sea area off Kallan	1706
Vaskiluoto – Ensten	1790

Sweden, 02.05.2022

Karlsborg – Malören	6576
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Sea area off Malören	6576
Luleå – Björnklack	6576
Björnklack – Farstugrunden	1506
E and SE of Farstugrunden	1506
Sandgrönn fairway	6576
Rödkallen – Norströmsgrund	1506
Haraholmen – Nygrån	5456
Sea area off Nygrån	5456
Skelleftehamn – Gåsören	1506
Sea area off Gåsören	1506
Sea area off Bjuröklubb	1506
Ångermanälven north Sandö Bridge	1402
Ångermanälven south Sandö Bridge	1402