



# Eisbericht Nr. 110

## Amtsblatt des BSH

Jahrgang 95

Nr. 110

Wednesday, 04.05.2022

1

### Übersicht

In den Schären der Bottenwiek liegt im Norden 40–80 cm dickes, teilweise morsches Festeis und im Süden Reste morschen Festeises. Außerhalb des Festeises treibt im Osten sehr dichtes und teilweise aufgepresstes, 15–60 cm dickes Eis sowie lockeres bis dichtes Eis nordwestlich von Ulkokalla. Örtlich treten Risse und offene Stellen auf. Ansonsten kommt zumeist offenes Wasser und teilweise sehr lockeres Treibeis vor. In Norra Kvarken liegen in den inneren Schären Reste morschen Festeises und auf See ist es eisfrei. Die restliche Ostsee ist eisfrei.

### Overview

In the archipelagos of the Bay of Bothnia, there is 40–80 cm thick, partly rotten fast ice in the north and remnants of rotten fast ice in the south. Off the fast ice in the east, there is very close partly ridged, 15–60 cm ice and open to close ice northwest of Ulkokalla. There are leads and open areas in the ice field. Else, there is mostly open water with some very open drift ice. In Norra Kvarken, there are remnants of rotten fast ice in the archipelagos and at sea, it is ice free. The rest of the Baltic Sea is 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. Further south, there is rotting fast ice. In the northwestern archipelagos, there is rotten fast ice, 30–60 cm thick. Off the fast ice from Holma to Kokkola, there is very close, 15–60 cm thick ice to about 10 nm miles west of Nahkiainen and Ulkokalla. Further west, there is open to close, 15–60 cm thick drift

ice. In the ice field are large thick and ridged floes but also leads and open areas. Else at sea, there is open water with very open ice south of Farstugrunden and from Oulu-1 to Malören. Single drifting floes and patches of ice can occur at places.

In the southern Bay of Bothnia, there are remnants of rotten fast ice along the coast and open water or ice free further out.

Ice melt continues with a northerly ice drift.

### Norra Kvarken

At places in the inner Vaasa archipelago, there is rotten ice. Along the Swedish coast, there is rotten ice in some sheltered bays. At sea, it is ice free.

Ice melt continues the coming day.

### Sea of Bothnia

The area is mostly ice free.

Ice melt continues the coming day.

### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

[www.bsh.de/eis](http://www.bsh.de/eis)

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**Archipelago and Åland Sea**

The area is ice free.

**Gulf of Finland**

The area is mostly ice free. 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**

	<b>Harbour/District</b>	<b>At least dwt/hp/kW</b>	<b>Ice Class</b>	<b>Begin</b>
<b>Finland</b>	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.
<b>Sweden</b>	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 1<sup>st</sup> 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><b>A<sub>B</sub> Amount and arrangements of sea ice</b></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><b>T<sub>B</sub> Topography or form of ice</b></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><b>S<sub>B</sub> Stage of ice development</b></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><b>K<sub>B</sub> Navigation conditions in ice</b></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, 04.05.2022**

Röyttä – Etukari	8646
Etukari – Ristinmatala	8546
Ajos – Ristinmatala	8546
Ristinmatala – Kemi 2	6476
Kemi 2 – Kemi 1	9426
Sea area SW of Kemi 1	1716
Kemi 2 – Ulkokrunni – Virpiniemi	8546
Oulu harbours – Kattilankalla	8586
Kattilankalla – Oulu 1	6476
Sea area SW of Oulu 1	5476
High Sea N of the latitude of Marjaniemi	2716
Raahe harbour – Heikinkari	8586
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	1816
Ykspihlaja – Repskär	1806
Repskär – Kokkola lighthouse	1806
Sea area off Kokkola lighthouse	1706
Pietarsaari – Kallan	1706
Sea area off Kallan	1706
Vaskiluoto – Ensten	1790

**Sweden, 04.05.2022**

Karlsborg – Malören	8546
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Sea area off Malören	5576
Luleå – Björnklack	8496
Björnklack – Farstugrunden	2426
E and SE of Farstugrunden	2426
Sandgrönn fairway	5476
Rödkallen – Norströmsgrund	1406
Haraholmen – Nygrån	1406
Sea area off Nygrån	1406
Skelleftehamn – Gåsören	1406
Sea area off Gåsören	1406
Sea area off Bjuröklubb	1406