



# Eisbericht Nr. 119

## Amtsblatt des BSH

Jahrgang 95	Nr. 119	Tuesday, 17.05.2022	1
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### Übersicht

In den Schären der nördlichen Bottenwiek liegt örtlich morsches Festeis. Außerhalb treibt im Osten örtlich 10–40 cm dickes Eis. Die restliche Ostsee ist eisfrei.

### Overview

In the archipelagos of the northern Bay of Bothnia, there rotten fast ice in places. Further out in the east, there is 10–40 cm thick ice in places. The rest of the Baltic Sea is ice free.

### Bay of Bothnia

In and outside the archipelagos from about Luleå to Oulu, there is rotten fast ice in places. On the fairways mainly open water. Farther out open water on the Swedish side. On the Finnish side there is 10-40cm thick ice of varying concentrations between Hailuoto and Kemi 1. Off Raahe there is 10-

40cm thick, very close ice out to Nahkiainen. Along the southeastern coast there is rotten ice and very open ice from off Kalajoki to Kaarlo. Else it is ice free.

The ice melt continues with an ice drifts in varying directions, but with a general eastward component.

### Gulf of Finland

The gulf is ice free. In Lake Saimaa, there is rotten ice in some places but else mostly open water.

The ice will disappear the next days.

Dr. J.Holfort

### Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
<b>Finland</b>	<b>Tornio, Kemi, Oulu</b>	<b>2000 dwt</b>	<b>I</b>	<b>17.05.</b>
	Raahe	2000 dwt	lb	16.05
	Kalajoki	2000 dwt	II	16.05.
<b>Sweden</b>	<b>Karlsborg</b>	<b>cancelled</b>	-	<b>17.05.</b>
	<b>Luleå</b>	<b>cancelled</b>	-	<b>17.05.</b>

#### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)  
[www.bsh.de/eis](http://www.bsh.de/eis)  
[www.bsh.de/ice](http://www.bsh.de/ice)

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### Information of the Icebreaker Services

#### Finland/Sweden

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 and KONTIO 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 , 17.05.2022

Röyttä – Etukari	1896
Etukari – Ristinmatala	1896
Ajos – Ristinmatala	1896
Ristinmatala – Kemi 2	1896
Kemi 2 – Kemi 1	3876
Kemi 2 – Ulkokrunni – Virpiniemi	5896
Oulu harbours – Kattilankalla	2826
Kattilankalla – Oulu 1	2896
Sea area SW of Oulu 1	4476
Raahe harbour – Heikinkari	2896
Heikinkari – Raahe lighthouse	4876
Raahe lighthouse – Nahkiainen	5876

Latitude Marjaniemi – Ulkokalla, Sea	1816
Rahja harbour – Välimatala	5375
Vaelimatala to line Ulkokalla – Ykskivi	1305

#### Sweden , 17.05.2022

Karlsborg – Malören	1402
Luleå – Björnklack	1402
Björnklack – Farstugrunden	1402
Sandgrönn fairway	1402