



# Eisbericht Nr. 121

## Amtsblatt des BSH

Jahrgang 95	Nr. 121	Thursday, 19.05.2022	1
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### Übersicht

In den Schären der nördlichen Bottenwiek kommen vereinzelt noch Reste morschen Festeises vor. 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, remnants of rotten fast ice are still present 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

Remnants of fast ice can still be found in places in the northern archipelagos. On the Swedish side, there is open water around Luleå. On the Finnish side, there is 10–40cm thick and ridged close ice around Oulu-1 and northwards. Off Raahe, there is 10–40cm thick, very close ice out to Nahkiainen.

The ice in the ice field has started to rot, but in places there are thick floebits. Off Kalajoki, there is very close, 10–40 cm thick ice to Pohjanpauho and open ice further out to Ulkokalla. Else it is ice free. The ice melt continues with only minor ice drift.

### 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. W. Aldenhoff

### Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi and Oulu	2000 dwt	II	19.05.
	Raahe	2000 dwt	I	18.05.
	Kalajoki	2000 dwt	II	16.05.

#### 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 assists 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, 19.05.2022

Röyttä – Etukari	0//5
Etukari – Ristinmatala	0//5
Ajos – Ristinmatala	0//5
Ristinmatala – Kemi 2	0//5
Kemi 2 – Kemi 1	0//5
Kemi 2 – Ulkokrunni – Virpiniemi	5895
Oulu harbours – Kattilankalla	1825
Kattilankalla – Oulu 1	2895
Sea area SW of Oulu 1	4475
Raahe harbour – Heikinkari	2896
Heikinkari – Raahe lighthouse	4876

Raahe lighthouse – Nahkiainen	5876
Latitude Marjaniemi – Ulkokalla, Sea	1815
Rahja harbour – Välimatala	5375
Vaelimatala to line Ulkokalla – Ykskivi	3325

#### Sweden, 19.05.2022

Luleå – Björnklack	1402
Björnklack – Farstugrunden	1402
Sandgrönn fairway	1402