



# Eisbericht Nr. 118

## Amtsblatt des BSH

|             |         |                    |   |
|-------------|---------|--------------------|---|
| Jahrgang 95 | Nr. 118 | Monday, 16.05.2022 | 1 |
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### Übersicht

In den Schären der Bottenwiek liegt im Norden morsches Festeis. Außerhalb treibt im Osten sehr dichtes 10–50 cm dickes Eis. Die restliche Ostsee ist eisfrei.

### Overview

In the archipelagos of the Bay of Bothnia, there rotten fast ice in the north. Further out in the east, there is very close 10–50 cm thick ice. 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 with openings. Farther out open water with some strips and patches on the Swedish side. On the Finnish side there is 10-50cm thick very close ice from off Kemi to 3 nm southwest of Kemi-2 and off Raahe to Nahkiainen.

On the fairways to Tornio and Oulu there is open water and drifting floes in places. Along the south-eastern coast there is rotten ice and very open ice from off Kalajoki to Ulkokalla. Else it is ice free. The ice melt continues and the ice drifts towards the south/southeast.

### 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<br>dwt/hp/kW | Ice Class | Begin  |
|---------|------------------------------|-----------------------|-----------|--------|
| Finland | Tornio, Kemi, Oulu and Raahe | 2000 dwt              | IB        | 16.05. |
|         | Kalajoki                     | 2000 dwt              | II        | 16.05. |
|         | Kokkola                      | -                     | cancelled | 16.05. |
| Sweden  | Karlsborg                    | 2000 dwt              | II        | 13.05. |
|         | Luleå                        | 2000 dwt              | II        | 11.05. |

#### 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 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 , 16.05.2022

|  |      |
|--|------|
| Röyttä – Etukari                       | 7496 |
| Etukari – Ristinmatala                 | 5496 |
| Ajos – Ristinmatala                    | 8496 |
| Ristinmatala – Kemi 2                  | 5476 |
| Kemi 2 – Kemi 1                        | 5476 |
| Kemi 2 – Ulkokorunni – Virpiniemi      | 5496 |
| Oulu harbours – Kattilankalla          | 3426 |
| Kattilankalla – Oulu 1                 | 4496 |
| Sea area SW of Oulu 1                  | 4476 |
| Raahe harbour – Heikinkari             | 2496 |
| Heikinkari – Raahe lighthouse          | 5476 |
| Raahe lighthouse – Nahkiainen          | 5476 |
| Latitude Marjaniemi – Ulkokorunni, Sea | 1416 |

|  |      |
|--|------|
| Rahja harbour – Välimatala               | 2395 |
| Välimatala to line Ulkokorunni – Ykskivi | 1305 |

#### Sweden , 16.05.2022

|                            |      |
|----------------------------|------|
| Karlsborg – Malören        | 8496 |
| Sea area off Malören       | 1406 |
| Luleå – Björnklack         | 1406 |
| Björnklack – Farstugrunden | 1406 |
| Sandgrönn fairway          | 1406 |