



# Eisbericht Nr. 3

## Amtsblatt des BSH

Jahrgang 98

Nr. 3

Monday, 09.12.2024

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### Übersicht

In der nördlichen Bottenwiek befindet sich in den inneren Schären 5–10 cm dickes, ebenes Eis sowie Neueis weiter außerhalb. In der südlichen Bottenwiek, Norra Kvarken, der Bottensee, der Ålandsee, dem Schärenmeer, im Finnischen Meerbusen und im Mälarsee kommt Neueis in geschützten Gebieten vor.

### Overview

In the northern Bay of Bothnia, there is 5–10 cm thick, level ice in the inner archipelagos and new ice further out. In the southern Bay of Bothnia, the Quark, the Sea of Bothnia, the Åland Sea, the Archipelago Sea, the Gulf of Finland and Lake Mälaren, new ice is present in sheltered places.

### Bay of Bothnia

In the inner archipelagos of the Bay of Bothnia, there is 5–10 cm thick, level ice. New ice is present further out in the north and in sheltered places in

the southern Bay of Bothnia.

With temperatures rising to above 0 °C no larger changes are expected the coming day.

### The Quark

New ice is present in sheltered places along the coast.

With temperatures rising to above 0°C no larger changes are expected the coming day.

### Sea of Bothnia

New ice is present in sheltered places along the Swedish coast and along the northern Finnish coast. 5–10 cm thick, level ice and new ice is pre-

sent on the upper part of Ångermanälven.

With mostly light frost some ice formation is possible especially along the Swedish coast.

### Åland Sea

New ice is present in some sheltered places. With temperatures around 0°C no larger changes

are expected the coming day.

### Archipelago Sea

New ice is forming in few sheltered places. With temperatures around 0°C no larger changes

are expected the coming day.

### Gulf of Finland

Some new ice is present in the Bay of Vyborg and

at a few places along the northern coast. In Lake

### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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

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Saimaa and Saimaa Canal, there is thin level ice and new ice at places.

With temperatures mostly around 0°C no larger changes are expected the coming day.

#### **Northern Baltic**

In Lake Mälaren new ice is present at sheltered places.

With temperatures mostly around or slightly below 0°C some ice formation may occur.

Dr. W. Aldenhoff

### **Restrictions to Navigation**

|                | <b>Harbour/District</b> | <b>At least<br/>dwt/hp/kW</b> | <b>Ice Class</b> | <b>Begin</b>  |
|----------------|-------------------------|-------------------------------|------------------|---------------|
| <b>Finland</b> | <b>Lake Saimaa</b>      | <b>2000 dwt</b>               | <b>II</b>        | <b>11.12.</b> |
|                | <b>Saimaa Canal</b>     | <b>2000 dwt</b>               | <b>II</b>        | <b>11.12.</b> |
| <b>Sweden</b>  | Karlsborg and Lulea     | 2000 dwt                      | II               | 07.12.        |
|                | Angermanälven           | 1300/2000 dwt                 | IC/II            | 07.12.        |

#### **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 82. 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.

## Baltic Sea Ice Code

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <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, 09.12.2024**

|                               |      |
|-------------------------------|------|
| Röyttä – Etukari              | 5142 |
| Etukari – Ristinmatala        | 2001 |
| Ajos – Ristinmatala           | 2001 |
| Oulu harbours – Kattilankalla | 3011 |

**Sweden, 09.12.2024**

|                                  |      |
|----------------------------------|------|
| Karlsborg – Malören              | 4046 |
| Luleå – Björnklack               | 5146 |
| Örnsköldsvik – Hörnskatan        | 4041 |
| Ångermanälven north Sandö Bridge | 5144 |
| Ångermanälven south Sandö Bridge | 5144 |
| Härnösand – Härnön               | 4041 |
| Sundsvall – Draghällan           | 4041 |
| Hudiksvallfjärden                | 4041 |
| Iggesund – Agö                   | 4041 |
| Gävle – Eggegrund                | 4041 |
| Hallstavig – Svartklubben        | 4041 |
| Köping – Kviksund                | 5041 |