



# Eisbericht Nr. 3

## Amtsblatt des BSH

Jahrgang 97

Nr. 3

Thursday, 16.11.2023

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### Übersicht

In den inneren Schären der nördlichen Bottenwiek befindet sich bis 20 cm dickes Festeis oder ebenes Eis. Weiter außerhalb im Norden und in geschützten Gebieten bis nach Norra Kvarken ist Neueis. Schifffahrtsbeschränkungen treten kommenden Dienstag in Kraft.

### Overview

In the inner archipelagos of the northern Bay of Bothnia, there is up to 20 cm thick fast ice or level ice. Further out and in sheltered places to The Quark, new ice is present. Traffic restrictions start Tuesday next week.

### Bay of Bothnia

In the inner archipelagos of the northern Bay of Bothnia, up to 20 cm thick fast ice or level ice is present. Further out, new ice and new ice formation; in the west to about Rödkallen und Malören. Along the Finnish coast further south,

there is thin level and new ice.

With continuous moderate to severe frost, ice formation will continue the coming days.

### The Quark

New ice is present in sheltered places in the Vaasa archipelago.

With mostly light frost some new ice formation is expected in sheltered areas the coming days.

### Gulf of Finland

Some ice formation takes place in Lake Saimaa. Some new ice formation is expected in Lake Saimaa and even in the Gulf itself some ice for-

mation could be possible in sheltered areas the coming days.

Dr. W. Aldenhoff

**From Monday 20.11.2023 the ice report will be published on workdays.**

### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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

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### Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Sweden	Karlsborg, Lulea and Haraholmen	2000 dwt	II	21.11.

### 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 foes – 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 after special permission</p> <p>8 Navigation temporarily closed</p> <p>9 Navigation has ceased</p> <p>/ Unknown</p>
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#### Finland, 16.11.2023

Röyttä – Etukari	5142
Etukari – Ristinmatala	3021
Ajos – Ristinmatala	4041
Kemi 2 – Ulkokrunni – Virpiniemi	2111
Oulu harbours – Kattilankalla	4041
Kattilankalla – Oulu 1	2000
Raahe harbour – Heikinkari	5142
Heikinkari – Raahe lighthouse	3011

#### Sweden, 16.11.2023

Karlsborg – Malören	8242
Luleå – Björnklack	5142
Sandgrönn fairway	4041
Rödkallen – Norströmsgrund	4041
Haraholmen – Nygrån	4041