

# Eisbericht Nr. 119

## Amtsblatt des BSH

Jahrgang 96	Nr. 119	Friday, 19.05.2023	1
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### Übersicht

In den Schären ganz im Norden der Bottenwiek kommt sehr lockeres Eis und bis zu 50 cm dickes, morsches Festeis vor. In den Zufahrten nach Raahe und Oulu kommt offenes Wasser vor.

### Overview

In the archipelagos of the northernmost Bay of Bothnia, there is very open ice and up to 50 cm thick rotten fast ice. In the fairways to Oulu and Raahe open water.

### Bay of Bothnia

In the northernmost Bay of Bothnia, there is very open ice in the inner archipelagos and up to 50 cm thick rotten fast ice in places of the outer archipelago. There on the fairways some thick floebits in places, but also openings. In the fairways to Oulu

and Raahe there is open water.

With a slight northerly ice drift, most ice will stay within the northern archipelagos over the weekend, but disappear in some places due to melting.

Dr. J.Holfort

### Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi and Oulu	2000 dwt	IA	05.05.
	Raahe	2000 dwt	IB	26.04.
Sweden	Karlsborg	2000 dwt	IC	10.05.

### 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.

#### 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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 E-Mail: [ice@bsh.de](mailto:ice@bsh.de)

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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.

The traffic separation schemes in the Quark are again in use.

#### Icebreakers:

KONTIO assists in the Bay of Bothnia.

### Baltic Sea Ice Code

<p>First number:  <b>A<sub>B</sub> Amount and arrangements of sea ice</b>            0 Ice free            1 Open water – concentration less than 1/10            2 Very open ice - concentration 1/10 to 3/10            3 Open ice – concentration 4/10 to 6/10            4 Close ice – concentration 7/10 to 8/10            5 Very close ice – concentration 9/10 to 9+/10            6 Compact ice, including consolidated ice – concentration 10/10            7 Fast ice with drift ice outside            8 Fast ice            9 Lead in very close or compact drift ice or along the fast ice edge            / Unable to report</p> <p>Third number:  <b>T<sub>B</sub> Topography or form of ice</b>            0 Pancake ice, ice cakes, brash ice – less than 20 m across            1 Small ice floes – 20 to 100 m across            2 Medium ice floes – 100 to 500 m            3 Big ice floes – 500 to 2000 m across            4 Vast or giant ice floes – more than 2000 m across – or level ice            5 Rafted ice            6 Compact slush or shuga, or compacted brash ice            7 Hummocked or ridged ice            8 Thaw holes or many puddles on the ice            9 Rotten ice            / No information or unable to report</p>	<p>Second number:  <b>S<sub>B</sub> Stage of ice development</b>            0 New ice or dark nilas (less than 5 cm thick)            1 Light nilas (5 - 10 cm thick) or ice rind            2 Grey ice (10 - 15 cm thick)            3 Grey-white ice (15 - 30 cm thick)            4 White ice, first stage (30 - 50 cm thick)            5 White ice, second stage (50 - 70 cm thick)            6 Medium first year ice (70 - 120 cm thick)            7 Ice predominantly thinner than 15 cm with some thicker ice            8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice            9 Ice predominantly thicker than 30 cm with some thinner ice            / No information or unable to report</p> <p>Fourth number:  <b>K<sub>B</sub> Navigation conditions in ice</b>            0 Navigation unobscured            1 Navigation difficult or dangerous for wooden vessels without ice sheathing            2 Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable            3 Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice            4 Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker            5 Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size            6 Icebreaker assistance can only be given to vessels of special ice class and of special size            7 Icebreaker assistance can only be given to vessels after special permission            8 Navigation temporarily closed            9 Navigation has ceased            / Unknown</p>
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#### Finland, 19.05.2023

Röyttä – Etukari	2726
Etukari – Ristinmatala	5396
Ajos – Ristinmatala	5396
Ristinmatala – Kemi 2	5396
Kemi 2 – Kemi 1	5396
Kemi 2 – Ulkokrunni – Virpiniemi	5396
Oulu harbours – Kattilankalla	1706
Kattilankalla – Oulu 1	1706
Sea area SW of Oulu 1	0//6
Raahe harbour – Heikinkari	1706
Heikinkari – Raahe lighthouse	0//6

#### Sweden, 19.05.2023

Karlsborg – Malören	3426
Luleå – Björklack	2422
Björklack – Farstugrunden	1302
Sandgrönn fairway	1302