



# Eisbericht Nr. 123

## Amtsblatt des BSH

Jahrgang 95

Nr. 123

Monday, 23.05.2022

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### Übersicht

In den Schären der nördlichen Bottenwiek kommen vereinzelt noch Reste morschen Festeises vor. Entlang 24°30'O treibt lockeres Eis und weiter südlich, entlang und knapp außerhalb der Küste, treibt bis Kalajoki sehr dichtes bis lockeres, 10–40 cm dickes Eis. Die restliche Ostsee ist eisfrei.

### Overview

In the archipelagos of the northern Bay of Bothnia, remnants of rotten ice are still present in places. Along about 24°30'E there is drifting open ice and further south, along and just outside the coast down to Kalajoki, there is 10–40 cm thick, very close to open ice. The rest of the Baltic Sea is ice free.

### Bay of Bothnia

Remnants of rotten ice are still present in places in the northern archipelagos. In the east there is a narrow zone of 10-40cm thick open ice between Välikivikko and Hailuoto. Southwest of Hailuoto there is a 5nm wide area with 10-40cm thick close ice. Along the coast from Raahe to Kalajoki there is open to very open ice and further out 10-40cm

thick, very close ice between 64°25'N and 64°55'N out to about Nahkiainen. Northwest of Kalajoki there is close ice. The ice is rotten or has started to rot, but in places there are thick floebits. Further out along the ice edge there is open water. With an only slight northward ice drift the ice continues to melt.

Dr. J.Holfort

### 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)

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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.

### 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 , 23.05.2022

Kemi 2 – Ulkokrunni – Virpiniemi	2815
Oulu harbours – Kattilankalla	1815
Kattilankalla – Oulu 1	1825
Sea area SW of Oulu 1	1815
Raahe harbour – Heikinkari	2886
Heikinkari – Raahe lighthouse	3876
Raahe lighthouse – Nahkiainen	5876
Latitude Marjaniemi – Ulkokalla, Sea	2815
Rahja harbour – Välimatala	1725
Vaelimatala to line Ulkokalla – Ykskivi	0//5