

# Eisbericht Nr. 9

## Amtsblatt des BSH

Jahrgang 96	Nr. 9	Thursday, 08.12.2022	1
-------------	-------	----------------------	---

### Übersicht

In den Schären der Bottenwiek befindet sich dünnes, ebenes Eis und Neueis weiter außerhalb. In Kvarken, der Bottensee und dem Schärenmeer bildet sich Eis in geschützten Gebieten. Im Finnischen Meerbusen befindet sich dünnes, ebenes Eis in den östlichsten Buchten sowie Neueis in geschützten Buchten entlang der Küsten. Im Nordosten des Rigaischen Meerbusen bildet sich Eis entlang der Küste und der Bucht von Pärnu.

### Overview

In the inner archipelagos of the Bay of Bothnia, there is thin level ice or new ice further out. In the Quark, the Sea of Bothnia and the Archipelago Sea new ice forms in sheltered bays. In the Gulf of Finland, there is thin level ice in the easternmost bays and new ice in sheltered places along the coasts. In the northeastern Gulf of Riga new ice is forming along the coast and the Bay of Pärnu.

### Bay of Bothnia

In the inner archipelagos of the northern Bay of Bothnia, there is 5–15 cm thick level ice and new ice further out. 5–10 cm thick level ice is between Hailuoto and the mainland. New ice is forming in

sheltered areas of the southern bay. New ice formation and ice growth is expected the coming day.

### The Quark

New ice formation takes place in sheltered inner bays.

Some new ice formation is expected the coming day.

### Sea of Bothnia

New ice formation takes place in sheltered inner bays in the north and along the Finnish coast.

Some new ice formation is expected the coming day.

### Archipelago Sea

New ice formation takes place in sheltered inner bays.

Some new ice formation is expected the coming day.

### Gulf of Finland

5–10 cm thick level ice is present from St. Peters-

burg to the island Kotlin. North of Kotlin and in the

### 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)

© BSH - Alle Rechte vorbehalten  
Nachdruck, auch auszugsweise, verboten

### Eisankünfte / Ice Information

Telefon: +49 (0) 381 4563 -780  
Telefax: +49 (0) 381 4563 -949  
E-Mail: [ice@bsh.de](mailto:ice@bsh.de)

© BSH - All rights reserved  
Reproduction in whole or in part prohibited

Bay of Vyborg, there is new ice and thin level ice in places. In sheltered places along the coasts, there is new ice. On Lake Saimaa, there is 5–15 cm thick ice in places.

Some new ice formation is expected the coming day in the east and in sheltered places along the coasts.

#### **Gulf of Riga**

New ice is forming in sheltered bays of Väinameri and the northeastern Gulf of Riga. In the Bay of Pärnu, there is thin level ice along the coast and

new ice to the line Liu – Haademeste.  
No major changes are expected the coming day.

Dr. W. Aldenhoff

#### **Restrictions to Navigation**

	<b>Harbour/District</b>	<b>At least dwt/hp/kW</b>	<b>Ice Class</b>	<b>Begin</b>
<b>Finland</b>	Tornio and Kemi	2000 dwt	II	01.12.
	Oulu	<b>2000 dwt</b>	<b>II</b>	<b>12.12.</b>
	Lake Saimaa	<b>2000 dwt</b>	<b>II</b>	<b>12.12.</b>
<b>Sweden</b>	Karlsborg and Lulea	2000 dwt	II	05.12.
	Haraholmen and Skelleftehamn	<b>2000 dwt</b>	<b>II</b>	<b>12.12.</b>
	Angermanälven	<b>1300/2000 dwt</b>	<b>IC/II</b>	<b>14.12.</b>

#### **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.

#### **Icebreakers:**

Tugboats assist in the Bay of Bothnia.

#### **Russia**

There are restrictions for small crafts going to Vysotsk, Vyborg, St. Petersburg, Ust-Luga and Primorsk.

## 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>
--	--

**Estonia, 08.12.2022**

Paernu, port and bay 5101

Moonsund 1000

Örnsköldsvik – Hörnskatan 4041

Ångermanälven north Sandö Bridge 4041

Ångermanälven south Sandö Bridge 4041

Iggesund – Agö 4041

**Finland, 08.12.2022**

Röyttä – Etukari 5245

Etukari – Ristinmatala 3005

Ajos – Ristinmatala 3005

Kemi 2 – Ulkokrunni – Virpiniemi 4045

Oulu harbours – Kattilankalla 5142

Kattilankalla – Oulu 1 3012

Vaskiluoto – Ensten 4042

Pori harb. to line Pori lighth. – Säppi 3000

Rauma, Harbour – Kylmäpihlaja 3000

Kotka – Viikari 4042

**Russian Federation, 08.12.2022**

Port of St. Petersburg 51/2

St. Petersburg – E-point island Kotlin 51/2

E-point Kotlin – long. lighth. Tolbukhin 3000

Vyborg, port and bay 81/2

**Sweden, 08.12.2022**

Karlsborg – Malören 5246

Luleå – Björnlack 5146

Sandgrönn fairway 3026

Umeå – Väktaren 4041