



# Eisbericht Nr. 6

## Amtsblatt des BSH

Jahrgang 95

Nr. 6

Monday, 06.12.2021

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### Übersicht

In der nördlichen Bottenwiek liegt Festeis und dünnes ebenes Eis in den inneren Schären und weiter außerhalb Neueis. In der südlichen Bottenwiek, Norra Kvarken und der Bottensee befindet sich Neueis und örtlich dünnes, ebenes Eis in Schären und geschützten Buchten. Im Finnischen Meerbusen liegt dünnes, ebenes Eis ganz im Osten und Neueis entlang der nördlichen und vereinzelt entlang der südlichen Küste. Im Rigaischen Meerbusen befindet sich Neueis in geschützten Bereichen des Väinameris, der Pärnubucht und entlang der Küste im Norden und Nordosten. Eisbildung hat im Schärenmeer, der Ålandsee, dem Mälarsee, dem Vänern und vereinzelt entlang der schwedischen Küste in der nördlichen Ostsee eingesetzt.

### Overview

In the northern Bay of Bothnia, there is fast ice and thin level ice in the inner archipelagoes and new ice further out. In the southern Bay of Bothnia, Norra Kvarken and the Sea of Bothnia, there is new ice and, at places, thin level ice in the archipelagoes and sheltered bays. In the Gulf of Finland, thin level ice is present in the easternmost part and new ice along the northern coast and at places along the southern coast. In the Gulf of Riga, there is new ice sheltered areas of Väinameri, Pärnu Bay and along the northern and north-eastern coast. Ice formation has started in the Archipelago Sea, Åland Sea, Lake Mälaren, Lake Vänern and at places along the Swedish coast of the northern Baltic.

### Bay of Bothnia

In the northern Bay of Bothnia, there is up to 20 cm thick fast ice in the inner archipelagoes from Piteå to Oulu. Further out, there is a band of thin level ice that extends to Ulkokrunni and Hailuoto in the east. Of the level ice in the west, there are small areas with very close, 3–15 cm thick ice. Drifting new ice is present even further out to Gåsören –

Farstugrunden and Malören – Kemi-1 – Nahkiainen. In the southern Bay of Bothnia, there is new ice along the Swedish coast and thin level ice with new ice further out along the Finnish coast. New ice formation and ice growth is expected the coming days. Some ice drift to the northwest/west is expected.

### Norra Kvarken

Thin level ice is present in the inner archipelagoes at the Finnish coast. Else, new ice occurs in bays and archipelagoes.

Continued ice formation is expected the coming days.

### 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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### Eisankünfte / Ice Information

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

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**Sea of Bothnia**

On upper Ångermanälven and at places in the northern Bay of Bothnia and along the Finnish coast, there is thin level ice. Else, there is new ice

along the coast in the northern and southern Sea of Bothnia.

Ice formation continues the coming days.

**Archipelago and Åland Sea**

New ice is present in sheltered places in the Archipelago and Åland Sea. Thin level ice occurs at

places along the Finnish coast.

Ice formation will continue the coming days.

**Gulf of Finland**

From St. Petersburg to Kotlin, there is very close 5–10 cm thick ice. Further out, there is new ice to Šepelevskij. Thin level ice is present in the Bay of Vyborg. In the archipelagoes of the northern coast and at places along the southern coast, there is

new ice. In the northern lake Saimaa, there is thin level ice and new ice. In the southern Lake Saimaa and Saimaa Canal, new ice occurs at places.

Ice formation and ice growth will continue the coming days.

**Gulf of Riga**

New ice is present in coastal areas of Väinameri and in Pärnu Bay. Ice formation has started along

coastal areas in the north and northeast.

Ice formation will continue the coming days.

**Northern Baltic**

In Lake Mälaren, thin level ice is present in the westernmost part and some sheltered bays. Else, there is some new ice in Lake Mälaren and shel-

tered bays along the Swedish coast.

Ice formation will continue the coming days.

**Swedish Lakes**

Ice formation has started in sheltered bays of Lake Vänern.

Continued ice formation is expected the coming days.

Dr. W. Aldenhoff

### Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
<b>Finland</b>	Tornio, Kemi and Oulu	2000 dwt	II	04.12.
	<b>Tornio, Kemi and Oulu</b>	<b>2000dwt</b>	<b>I</b>	<b>11.12.</b>
	<b>Raahe, Kalajoki, Kokkola, Pietarsaari and Vaasa</b>	<b>2000 dwt</b>	<b>II</b>	<b>08.02.</b>
	Lake Saimaa and Saimaa Canal	1300 dwt	II	04.12.
<b>Sweden</b>	<b>Northern Lake Saimaa</b>	<b>2000dwt</b>	<b>II</b>	<b>08.12.</b>
	<b>Southern Lake Saimaa and Saimaa Canal</b>	<b>2000 dwt</b>	<b>II</b>	<b>11.12.</b>
	Karlsborg, Luleå, Haraholmen and Skelleftehamn	2000 dwt	II	04.12.
<b>Sweden</b>	<b>Karlsborg and Luleå</b>	<b>2000 dwt</b>	<b>IC</b>	<b>11.12.</b>
	Ångermanälven	1300/2000 dwt	IC/II	04.12.
	Köping and Västerås	1300/2000 dwt	IC/II	06.12.

### 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, ALE** assist in the Bay of Bothnia.

**CALYPSO, METEOR** assist in Lake Saimaa and the Saimaa Canal.

#### 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>
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**Estonia, 06.12.2021**

Shipping route from Narva-Jõssuu	2000
Kunda, port and bay	2000
Paernu, port and bay	5001
Moonsund	3001

**Finland, 06.12.2021**

Roeyttae – Etukari	5745
Etukari – Ristinmatala	5145
Ajos – Ristinmatala	5145
Ristinmatala – Kemi 2	5145
Kemi 2 – Kemi 1	5045
Sea area SW of Kemi 1	4045
Kemi 2 – Ulkokrunni – Virpiniemi	5245
Oulu harbours – Kattilankalla	5745
Kattilankalla – Oulu 1	5145
Sea area SW of Oulu 1	4145
High Sea N of the latitude of Marjaniemi	4045
Raahе harbour – Heikinkari	5241
Heikinkari – Raahе lighthouse	4041
Raahе lighthouse – Nahkiainen	4141
Latitude Marjaniemi – Ulkokalla, Sea	4041
Rahja harbour – Välimatala	3011
Välimatala to line Ulkokalla – Ykskivi	3011
Ykspihlaja – Repsaer	5141
Repskaer – Kokkola lighthouse	4041
Pietarsaari – Kallan	5142
Vaskiluoto – Ensten	5141

**Russian Federation, 06.12.2021**

Port of St. Petersburg	51/2
St. Petersburg – E-point island Kotlin	51/2
E-point Kotlin – long. lighth. Tolbuhkin	50/1
Lighth. Tolbuhkin – lighth. –Šepelevskij	3000
Vyborg, port and bay	61/2

**Sweden, 06.12.2021**

Karlsborg – Maloeren	8346
Luleå – Bjoernklack	8346
Bjoernklack – Farstugrunden	4046
Sandgroenn fairway	5236
Roedkallen – Norstroemsgrund	4046
Haraholmen – Nygrån	5246
Sea area off Nygrån	4046
Skelleftehamn – Gåsoeren	5046
Sea area off Gåsoeren	4046
Sea area off Bjuroeklubb	4041
Umeå – Vaektaren	4041
Oernskoeldsvik – Hoernskaten	5041
Hoernskaten – Skagsudde	5041
Ångermanaelven north Sandoe Bridge	5244
Ångermanaelven south Sandoe Bridge	5244
Haernoessand – Haernoen	5244
Sundsvall – Draghaellan	5142
Draghaellan – Åstholmsudde	4041
Hudiksvallfjaerden	4041
Iggesund – Agoe	5041
Gaevle – Eggegrund	4041

Hallstavig – Svartklubben	4041
Stockholm – Traelhavet – Kloevholmen	4041
Keoping – Kvicksund	5144
Västerås – Grönsö	5144
Stockholm – Södertälje	4044
Södertälje – Fifong	4044
Fairway to Karlstad	5041
Fairway to Kristinehamn	5041