

# Eisbericht Nr. 15

## Amtsblatt des BSH

Jahrgang 96

Nr. 15

Friday, 16.12.2022

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### Übersicht

In den Schären der Bottenwiek befindet sich bis 20cm dickes Festeis und weiter außerhalb kommt Neueis vor. In Norra Kvarken, der Bottensee, dem Schärenmeer und dem Mälarsee kommt in geschützten Gebieten Neueis und dünnes Eis vor. Im Finnischen Meerbusen kommt in den östlichsten Buchten bis 20cm dickes Festeis, außerhalb davon und in geschützten Buchten entlang der Küsten kommt Neueis vor. Im Nordosten des Rigaischen Meerbusen befindet sich dünnes ebenes Eis oder Neueis entlang der Küsten und der Bucht von Pärnu. Weiter südlich, bis hin zur westlichen Ostsee, kommt örtlich Neueis vor.

### Overview

In the archipelagos of the Bay of Bothnia there is up to 20cm thick fast ice and new ice is present further out. In the Quark, the Sea of Bothnia, the Archipelago Sea and Lake Mälaren, there is thin and new ice in sheltered bays. In the Gulf of Finland, there is up to 20cm thick fast ice in the easternmost bays. Outside the fast ice and in sheltered places along the coasts there is new ice. In the northeastern Gulf of Riga thin level ice or new ice is present along the coasts and in the Bay of Pärnu. Further south, all the way to the western Baltic, there is new ice and new ice formation in sheltered areas.

### Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 5–20 cm thick fast or level ice. There is 5–15 cm thick fast ice between Hailuoto and Oulu. Further out, there is new ice and new ice formation up to 15-20nm away from the coast. New ice is

present along the shores of the southern bay.

With warmer air entering the region from the southwest over the weekend, the ice formation will slow down. The ice will drift slowly towards the northeast.

### The Quark

There is 3-10cm thick level ice and new ice in the inner bays and archipelagos. On the Finnish side some new ice and ice formation is present also

further out.

With warmer air entering the region over the weekend new ice formation will begin to cease.

### Sea of Bothnia

New ice is present in places in the inner archipelagos along the Finnish coast. On the upper part of Ångermanälven, there is 5–15 cm thick level ice and new ice is present in the lower part.

Over the weekend temperatures will read values around and above 0°C at most coasts, so ice formation will be only small.

### 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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**Archipelago Sea**

New ice is present in sheltered inner bays. No significant ice formation is expected over the

weekend.

**Northern Baltic**

In Lake Mälaren 3-8cm thick level ice is present in the western part and else new ice sheltered places.

No significant ice formation is expected over the weekend.

**Gulf of Finland**

10-20cm thick compact ice is present east of the island Kotlin, further out to the longitude of lighthouse Šepelevskij there is open water with nilas and new ice. In the top of Vyborg Bay, there is 10–20 cm thick fast ice and in the entrance there is open new ice. In places along the norther coast and in sheltered places along the southern coast, there is new ice. On Lake Saimaa, there is 5–20

cm thick ice and new ice, in places also open water.

In the east temperatures will remain below zero over the weekend, so ice formation will continue. More to the west temperatures will reach values above zero at the end of the weekend, so ice formation is also expected until Saturday.

**Gulf of Riga**

In Väinameri there is fast ice near the coast and on the fairways there is new ice in the north and open water in the south. In the Bay of Pärnu, there is a narrow belt of 5–15 cm thick fast ice along the coast and further out very close light nilas to about

58°08'N. Further south open water with new ice in places.

Some ice may form until tomorrow, but cease towards the end of the weekend.

**Central Baltic**

New ice and new ice formation in some sheltered areas. Some ice may form until tomorrow, but

cease towards the end of the weekend.

**Southeastern Baltic**

In the Curonian lagoon as well as in the Vistula lagoon there is new ice and new ice formation.

Some ice may form until tomorrow, but cease towards the end of the weekend.

**Western Baltic**

New ice and light nilas in some sheltered areas. The Stettin lagoon is almost completely covered by

new ice. Ice formation is still expected over the weekend, but then ice melt will set in.

**Skagerrak and Kattegat**

New ice and new ice formation in some sheltered areas. Thicker, up to 10cm thick ice is present in some Norwegian fjords near Halden, Moss and

Tønsberg. No larger ice formation is expected over the weekend.

**Swedish Lakes**

New ice and thin level ice is present in some sheltered areas. Overall no larger ice formation is ex-

pected over the weekend.

**North Sea**

Ice formed on the Wadden at low tide drifts at sea at high tide. Some ice formation is still expected

over the weekend, but then ice melt will set in.

## Restrictions to Navigation

|                | Harbour/District                               | At least<br>dwt/hp/kW | Ice Class    | Begin         |
|----------------|--|-----------------------|--------------|---------------|
| <b>Finland</b> | Tornio and Kemi                                | 2000 dwt              | II           | 01.12.        |
|                | Oulu   | 2000 dwt              | II           | 12.12.        |
|                | Lake Saimaa and Saimaa Canal                   | 2000 dwt              | II           | 12.12.        |
| <b>Sweden</b>  | Karlsborg and Lulea                            | 2000 dwt              | II           | 05.12.        |
|                | Haraholmen and Skelleftehamn                   | 2000 dwt              | II           | 12.12.        |
|                | <b>Holmsund, Rundvik, Husum and Örnköldvik</b> | <b>2000 dwt</b>       | <b>II</b>    | <b>21.12.</b> |
|                | Angermanälven                                  | 1300/2000 dwt         | IC/II        | 14.12.        |
|                | <b>Angermanälven</b>                           | <b>2000 dwt</b>       | <b>IC</b>    | <b>21.12.</b> |
|                | <b>Köping</b>                                  | <b>1300/2000 dwt</b>  | <b>IC/II</b> | <b>17.12.</b> |
|                | <b>Trollhätte Canal and Göta Älv</b>           | <b>1300/2000 dwt</b>  | <b>IC/II</b> | <b>17.12.</b> |
|                | <b>Vänern</b>                                  | <b>1300/2000 dwt</b>  | <b>IC/II</b> | <b>17.12.</b> |

**Estonia****Icebreakers:**

EVA-316 assists in the port of Pärnu.

**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:**

OTSO assists in the Bay of Bothnia.

**Russia**

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

**Icebreakers:** Several icebreakers assist vessels to the port of Vyborg, Vysotsk, Primorsk, Ust-Luga and St. Petersburg.

## Baltic Sea Ice Code

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

**Estonia , 16.12.2022**

Paernu, port and bay 5113  
Moonsund 4112

**Finland , 16.12.2022**

Röyttä – Etukari 8745  
Etukari – Ristinmatala 7745  
Ajos – Ristinmatala 5145  
Ristinmatala – Kemi 2 4045  
Kemi 2 – Kemi 1 0//5  
Kemi 2 – Ulkokrunni – Virpiniemi 5245  
Oulu harbours – Kattilankalla 8245  
Kattilankalla – Oulu 1 5145  
Sea area SW of Oulu 1 4045  
High Sea N of the latitude of Marjaniemi 0//5  
Raahe harbour – Heikinkari 5142  
Heikinkari – Raahe lighthouse 3001  
Rahja harbour – Välimatala 3001  
Ykspihlaja – Repskär 5142  
Repskär – Kakkola lighthouse 3001  
Pietarsaari – Kallan 3001  
Vaskiluoto – Ensten 5142  
Kaskinen – Sälgrund 3001  
Pori harb. to line Pori lighth. – Säppi 2000  
Uusikaupunki harbour – KIRSTA 3001  
Helsinki harbours – Harmaja 1000  
Vuosaari harbour – Eestiluoto 1000  
Valko Harbour – Täktarn 3001

Archipelago fairway Boistö – Glosholm 2001  
Kotka – Viikari 5042  
Viikari – Orregrund 2001  
Hamina – Suurmusta 4042  
Merikari – Kaunissaari 2001

**Germany , 16.12.2022**

Wismar – Walfisch 1000  
Walfisch – Timmendorf 1000  
Flensburg – Holnis 1000

**Latvia , 16.12.2022**

Riga to the Cape of Mersrags, fairway 2000  
Mersrags to Irben Strait, fairway 2000  
Irben Strait, fairway 1000  
Ventspils port to Liepaja port 1000  
Liepaya harbour – sea border Lithuania 1000

**Norway , 16.12.2022**

Svinesund – Halden 31//  
Mossesund 9223  
Drammensfjord 3111  
Tønsberg, inner harbour 8101  
Skåtøysund (Kragerø) 8143  
Langårsund (Kragerø) 8144

**Russian Federation , 16.12.2022**

Port of St. Petersburg 62/3

|  |      |
|--|------|
| St. Petersburg – E-point island Kotlin   | 52/2 |
| E-point Kotlin – long. lighth. Tolbukhin | 3001 |
| Lighth. Tolbukhin – lighth. –Šepelevskij | 20/0 |
| Vyborg, port and bay                     | 83/3 |
| Island Vichrevoj – Island Sommers        | 2000 |

**Sweden , 16.12.2022**

|                                  |      |
|----------------------------------|------|
| Karlsborg – Malören              | 8246 |
| Luleå – Björnklack               | 8246 |
| Björnklack – Farstugrunden       | 4046 |
| E and SE of Farstugrunden        | 4046 |
| Sandgrönn fairway                | 5046 |
| Rödkaullen – Norströmsgrund      | 5046 |
| Haraholmen – Nygrån              | 5046 |
| Sea area off Nygrån              | 4046 |
| Skelleftehamn – Gåsören          | 4046 |
| Sea area off Gåsören             | 4046 |
| Sea area off Bjuröklubb          | 4041 |
| Western Quark (W of Holmöarna)   | 4041 |
| Umeå – Väktaren                  | 4041 |
| Örnsköldsvik – Hörnskatan        | 4041 |
| Hörnskatan – Skagsudde           | 4041 |
| Ångermanälven north Sandö Bridge | 5244 |
| Ångermanälven south Sandö Bridge | 5244 |
| Hudiksvallfjärden                | 4041 |
| Iggesund – Agö                   | 4041 |
| Sandarne – Hällgrund             | 4041 |
| Gävle – Eggegrund                | 5041 |
| Köping – Kvicksund               | 5142 |
| Västerås – Grönsö                | 5142 |
| Norrköping – Hargökalv           | 5041 |
| Vänersborgsviken                 | 5142 |
| Fairway to Karlstad              | 5041 |
| Fairway to Kristinehamn          | 4041 |
| Fairway to Lidköping             | 4041 |