

# Eisbericht Nr. 72

## Amtsblatt des BSH

|             |        |                    |   |
|-------------|--------|--------------------|---|
| Jahrgang 94 | Nr. 72 | Friday, 26.03.2021 | 1 |
|-------------|--------|--------------------|---|

### Übersicht

In der Bottenwiek liegt in den Schären bis 70 cm dickes Festeis. An der Festeiskante liegt ein Streifen kompaktes Eis. Im Osten und zentralen Teil befindet sich 15–45 cm dickes, sehr dichtes und aufgepresstes Eis unter Druck. Entlang der schwedischen Küste ist eine weite Rinne mit sehr lockerem, 5–30 cm dicken Eis. An den Küsten von Norra Kvarken liegt Festeis und auf See meist offenes Wasser. In der Bottensee bis hinunter zum Schärenmeer kommt entlang der Küsten ebenes Eis und Festeis vor und außerhalb der Küste örtlich auch offenes Wasser. Im Finnischen Meerbusen liegt an den Küsten im Norden und Osten bis zu 45 cm dickes Festeis. Auf See treibt ganz im Osten 10–30 cm dickes, sehr dichtes Eis, westlich davon zumeist offenes Wasser örtlich aber auch sehr lockeres Eis. Im Rigaischen Meerbusen kommt an den Küsten von Väinameri und in der Pärnu Bucht 5–20 cm dickes Festeis oder sehr dichtes Eis vor. Weiter südlich ist zumeist eisfrei und in einigen inneren norwegischen Fjorden liegt örtlich noch Festeis.

### Overview

In the Bay of Bothnia, there is up to 70 cm thick fast ice in the archipelagos. Off the fast ice is a band of compact ice. In the eastern and central part, there is 15–45 cm thick, very close and ridged ice under pressure. Along the Swedish coast, there is a wide lead with very open, 10–30 cm thick ice. In Norra Kvarken, there is fast ice at the coast and at sea, there is mostly open water. In the Sea of Bothnia, down to the Archipelago Sea, there is level ice and fast ice at the coast and open water in places further out. In the Gulf of Finland, there is up to 45 cm thick fast ice along the eastern and northern coast. At sea, 10–30 cm thick very close ice is present in the far east and further west mostly open water with very open ice at places. In the Gulf of Riga, there is 5–20 cm thick fast or very close ice in Pärnu Bay and at the coast of Väinameri. Further south ice is mostly ice free and in some inner Norwegian fjords, there is fast ice in places.

### Bay of Bothnia

In the northern Bay of Bothnia, there is 30–70 cm thick fast ice in the archipelago. In the southern Bay of Bothnia, there is up to 60 cm thick fast ice. Off the fast ice, there are regions with up to 50 cm thick compact ice. On the Swedish side, there is a wide lead with very open, 5–30 cm thick ice in the north and mostly open water in the south; with 15–

40 cm thick, open ice northeast of Holmöarna. Else, there is mostly very close, 25–45 cm thick ice in the northern part and 15–40 cm thick, very close ice in the southern part. The ice field is ridged, under pressure and hard to force in places. Continued ice melt is expected over the weekend. The ice will drift in northerly directions.

### Norra Kvarken

In the archipelago off Vaasa, 20–40 cm thick fast

ice is present out to Ensten with compact shuga at

#### 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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the edge. On the Swedish side, there is 15–40 cm thick fast ice in bays along the coast and inside

### Sea of Bothnia

Along the Finnish coast, there is 10–25 cm thick fast and level ice in the archipelago, which is beginning to rot. Further out, there is thin shuga in places and open water. On the Swedish side, there is 10–30 cm fast ice or thin, level ice in northern bays with open water at places further out. On

### Archipelago and Åland Sea

At the eastern coast, there is 10–25 cm thick rotting fast and level ice in the inner archipelagos with open water at places. Along the fairways is mainly open water. Out to the Åland Islands, there

### Gulf of Finland

Fast ice is present along the northern and eastern coasts, with a thickness of 10–25 cm in the west, 20–45 cm thickness in the north, 30–40 cm thickness in the Vyborg Bay and Bjerkesund and up to 45 cm from St. Petersburg up to about the dike. The fast ice in the northwestern part is beginning to rot. At sea, there is mostly 10–30 cm thick very close and partly ridged ice east of the

### Gulf of Riga

In Väinameri, there is 5–15 cm thick rotten fast ice near the coasts and further out, in the central part and southern entrance, there is open water with stripes of ice. In the Pärnu Bay, east of 24°15' E, there is mostly 5–25 cm thick, very close ice with

### Northern and Central Baltic

In Lake Mälaren, there is mostly open water with rotten ice in some bays. Elsewhere is mostly ice

### Skagerrak

Although most Norwegian fjords are ice free, ice is present in sheltered places of some inner fjords.

### Swedish Lakes

In Lake Vänern, there is rotten ice in sheltered bays in the northeast, else ice free. Continued ice

Holmöarna. At sea, there is mostly open water. The ice melt will continue.

upper Angermanälven, there is 30–50 cm thick fast ice in bays and else 15–30 cm thick, close ice. At the lower part, there is 15–30 cm thick very open ice or open water. Further south, rotten ice is present in sheltered bays. The ice melt will continue over the weekend.

is mostly open water. At the Swedish coast, there is rotting, very open ice in some bays of the archipelago. The ice melt will continue over the weekend.

island Seskar. Stripes and patches of ice are present south of Seskar to Luga Bay and along the northeastern fast ice edge. Else, there is mostly open water to the island Moščnyj and along the northern coast. In Lake Saimaa, there is 40–70 cm thick ice and in the Saimaa Canal 30–50 cm thick ice. Some ice melt is expected over the weekend and the ice will drift in northerly directions.

some openings. In the western part, there is mostly open water. Very close ice is also found north of the island Kihnu. Ice melt will continue over the weekend and the ice is drifting in northerly directions.

free. Further ice melt will occur over the weekend.

Ice melt is expected over the weekend.

melt is expected over the weekend.

## Restrictions to Navigation

|                | Harbour/District                               | At least<br>dwt/hp/kW | Ice Class        | Begin         |
|----------------|------------------------------------------------|-----------------------|------------------|---------------|
| <b>Estonia</b> | Pärnu                                          | 1200 kW               | II               | 08.03.        |
| <b>Finland</b> | Tornio, Kemi and Oulu                          | 4000 dwt              | IA               | 20.02.        |
|                | Vaasa                                          | 2000 dwt              | IB               | 24.03.        |
|                | Raahe, Kalajoki, Kokkola and Pietarsaari       | 4000 dwt              | IA               | 20.02.        |
|                | <b>Uusikaupunki, Naantali and Turku</b>        | -                     | <b>cancelled</b> | <b>26.03.</b> |
|                | Taalintehdas, Förby, Kantvik and Loviisa       | 2000 dwt              | II               | 09.03.        |
|                | <b>Koverhar and Lappohja</b>                   | -                     | <b>cancelled</b> | <b>26.03.</b> |
|                | <b>Kotka</b>                                   | <b>2000 dwt</b>       | <b>II</b>        | <b>26.03.</b> |
|                | Hamina                                         | 2000 dwt              | I                | 10.02.        |
|                | Lake Saimaa and Saimaa canal                   | 2000 dwt              | IB               | 22.03.        |
| <b>Russia</b>  | Primorsk                                       | -                     | Ice 1            | 28.01.        |
|                | Ust-Luga                                       | -                     | Ice 1            | 13.02.        |
|                | Vyborg                                         | -                     | Ice 1            | 13.02.        |
|                | Vysotsk                                        | -                     | Ice 1            | 13.02.        |
| <b>Sweden</b>  | Karlsborg, Luleå, Haraholmen and Skelleftehamn | 4000 dwt              | IA               | 02.03.        |
|                | Holmsund                                       | 2000 dwt              | IC               | 23.03.        |
|                | Rundvik, Husum and Örnköldsvik                 | 2000 dwt              | II               | 23.03.        |
|                | Ångermanälven                                  | 2000 dwt              | IC               | 23.03.        |

## Information of the Icebreaker Services

**Estonia**

**Icebreaker:** EVA-316 assists in the port of Pärnu.

**Finland**

The Saimaa Canal has been opened for traffic on 22<sup>nd</sup> March.

Vessels bound for Gulf of Bothnia ports in which assistance restrictions apply, shall when passing latitude 60°00' N report their nationality, name, port of 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 a Finnish or Swedish ports in the Quark or in the Bay of Bothnia shall report to Bothnia VTS 20 nautical miles before Nordvalen Lighthouse (63° 32.15' N 20° 46.60' E) on VHF channel 67.

The traffic separation scheme in the Quark is temporarily out of use due to ice conditions.

**Icebreaker:** OTSO, URHO, POLARIS and KONTIO assist in the Bay of Bothnia. SISU assists in the southern Bay of Bothnia. ZEUS assists in the Quark. VOIMA assists in the Gulf of Finland. PROTECTOR and METEOR assist in Lake Saimaa and the Saimaa canal.

**Norway**

Hellefjorden (Kragerø): Navigation temporarily closed. (01.03.21)

**Russia**

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

From 25<sup>th</sup> of January tow boat-barges will not be assisted to Vyborg. Vessels without ice class may navigate with icebreaker assistance only.

From 25<sup>th</sup> of January tow boat-barges will not be assisted to Vysotsk. Vessels without ice class may navigate with icebreaker assistance only.

From 28<sup>th</sup> of January tow boat-barges will not be assisted to Primorsk. Vessels without ice class may navigate with icebreaker assistance only.

From 13<sup>th</sup> of February tow boat-barges will not be assisted to St. Petersburg.

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

**Sweden**

The transit traffic west of Holmöarna is temporarily prohibited.

**Icebreaker:** ODEN, FREJ and YMER assist in the Bay of Bothnia. ALE assists in the Quark.

## Schlüssel für die Meldungen der Eis- und Schifffahrtsverhältnisse

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| <p>Erste Zahl:</p> <p><b>A<sub>B</sub> Menge und Anordnung des Meereises</b></p> <p>0 Eisfrei</p> <p>1 Offenes Wasser– Bedeckungsgrad kleiner 1/10</p> <p>2 Sehr lockeres Eis– Bedeckungsgrad 1/10 bis 3/10</p> <p>3 Lockeres Eis– Bedeckungsgrad 4/10 bis 6/10</p> <p>4 Dichtes Eis– Bedeckungsgrad 7/10 bis 8/10</p> <p>5 Sehr dichtes Eis– Bedeckungsgrad 9/10 bis 9+/10</p> <p>6 Zusammengeschobenes oder zusammenhängendes Eis– Bedeckungsgrad 10/10</p> <p>7 Eis außerhalb der Festeiskante</p> <p>8 Festeis</p> <p>9 Rinne in sehr dichtem oder zusammengeschobenem Eis oder entlang der Festeiskante</p> <p>/ Außerstande zu melden</p> <p>Dritte Zahl:</p> <p><b>T<sub>B</sub> Topographie oder Form des Eises</b></p> <p>0 Pfannkucheneis, Eisbruchstücke, Trümmereis – Durchmesser unter 20 m</p> <p>1 Kleine Eisschollen – Durchmesser 20 bis 100 m</p> <p>2 Mittelfgroße Eisschollen – Durchmesser 100 bis 500 m</p> <p>3 Große Eisschollen – Durchmesser 500 bis 2000 m</p> <p>4 Sehr große oder riesig große Eisschollen – Durchmesser über 2000 m oder ebenes Eis</p> <p>5 Übereinandergeschobenes Eis</p> <p>6 Kompakter Schnee- oder Eiskompakt – kompakte Eiskompaktklumpchen oder kompaktes Trümmereis</p> <p>7 Aufgepresstes Eis (in Form von Hügeln oder Wällen)</p> <p>8 Schmelzwasserlöcher oder viele Pfützen auf dem Eis</p> <p>9 Morsches Eis</p> <p>/ Keine Information oder außerstande zu melden</p> | <p>Zweite Zahl:</p> <p><b>S<sub>B</sub> Entwicklungszustand des Eises</b></p> <p>0 Neueis oder dunkler Nilas (weniger als 5 cm dick)</p> <p>1 Heller Nilas(5 bis 10 cm dick) oder Eishaut</p> <p>2 Graues Eis(10 bis 15 cm dick)</p> <p>3 Grauweißes Eis(15 bis 30 cm dick)</p> <p>4 Weißes Eis, 1. Stadium(30 bis 50 cm dick)</p> <p>5 Weißes Eis, 2. Stadium(50 bis 70 cm dick)</p> <p>6 Mitteldickes erstjähriges Eis(70 bis 120 cm dick)</p> <p>7 Eis, das überwiegend dünner als 15 cm ist, mit etwas dickerem Eis</p> <p>8 Eis, das überwiegend 15 bis 30 cm dick ist, mit etwas dickerem Eis</p> <p>9 Eis, überwiegend dicker als 30 cm, mit etwas dünnerem Eis</p> <p>/ Keine Information oder außerstande zu melden</p> <p>Vierte Zahl:</p> <p><b>K<sub>B</sub> Schifffahrtsverhältnisse im Eis</b></p> <p>0 Schifffahrt unbehindert</p> <p>1 Für Holzschiffe ohne Eisschutz schwierig oder gefährlich.</p> <p>2 Schifffahrt für nichteisverstärkte Schiffe oder für Stahlschiffe mit niedriger Maschinenleistung schwierig, für Holzschiffe sogar mit Eisschutz nicht ratsam.</p> <p>3 Ohne Eisbrecherhilfe nur für stark gebaute und für die Eisfahrt geeignete Schiffe mit hoher Maschinenleistung möglich.</p> <p>4 Schifffahrt verläuft in einer Rinne oder in einem aufgetroffenen Fahrwasser ohne Eisbrecherunterstützung.</p> <p>5 Eisbrecherunterstützung kann nur für die Eisfahrt geeigneten Schiffen von bestimmter Größe (tdw) gegeben werden.</p> <p>6 Eisbrecherunterstützung kann nur für die Eisfahrt verstärkten Schiffen von bestimmter Größe (tdw) gegeben werden.</p> <p>7 Eisbrecherunterstützung nur nach Sondergenehmigung</p> <p>8 Schifffahrt vorübergehend eingestellt.</p> <p>9 Schifffahrt hat aufgehört.</p> <p>/ Unbekannt</p> |
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## Estland , 26.03.2021

|                                 |      |
|---------------------------------|------|
| Pärnu, Hafen und Bucht          | 5875 |
| Pärnu – Irbenstraße, Fahrwasser | 4383 |
| Moonsund                        | 2//0 |

## Finnland , 26.03.2021

|                                          |      |
|------------------------------------------|------|
| Röyttä – Etukari                         | 8546 |
| Etukari – Ristinmatala                   | 8446 |
| Ajos – Ristinmatala                      | 8446 |
| Ristinmatala – Kemi 2                    | 6446 |
| Kemi 2 – Kemi 1                          | 5476 |
| Kemi 1, Seegebiet im SW                  | 5476 |
| Kemi 2 – Ulkokrunni – Virpiniemi         | 8846 |
| Oulu, Hafen – Kattilankalla              | 8546 |
| Kattilankalla – Oulu 1                   | 7446 |
| Oulu 1, Seegebiet im SW                  | 5476 |
| Offene See N-lich Breite Marjaniemi      | 5476 |
| Raahe, Hafen – Heikinkari                | 8846 |
| Heikinkari – Raahe Leuchtturm            | 6866 |
| Raahe Leuchtturm – Nahkiainen            | 5476 |
| Breitengrad Marjaniemi – Ulkokalla, See  | 5476 |
| Rahja, Hafen – Välimatala                | 7446 |
| Välimatala bis Linie Ulkokalla – Ykskivi | 5476 |
| Breitengrad Ulkokalla – Pietarsaari, See | 5476 |
| Ykspihlaja – Repskär                     | 8446 |
| Repskär – Kokkola Leuchtturm             | 7476 |
| Kokkola Leuchtturm, See außerhalb        | 5476 |
| Pietarsaari – Kallan                     | 8846 |
| Kallan, Seegebiet außerhalb              | 5876 |

|                                        |      |
|----------------------------------------|------|
| Breite Pietarsaari – Nordvalen im NE   | 3876 |
| Nordvalen, Seegebiet im ENE            | 1316 |
| Vaskiluoto – Ensten                    | 8846 |
| Ensten – Vaasa Leuchtturm              | 5766 |
| Vaasa Leuchtturm – Norrskär            | 1716 |
| Pori – Linie Pori Leuchtturm – Säppi   | 1010 |
| Rauma, Hafen – Kylmäpihlaja            | 2211 |
| Uusikaupunki, Hafen – Kirsta           | 4742 |
| Kirsta – Isokari                       | 1002 |
| Naantali und Turku – Rajakari          | 2711 |
| Rajakari – Lövskär                     | 2111 |
| Lövskär – Korra                        | 1011 |
| Korra – Isokari                        | 1001 |
| Lövskär – Berghamn                     | 1001 |
| Berghamn – Stora Sottunga              | 1001 |
| Stora Sottunga – Ledskär               | 1101 |
| Lövskär – Grisselborg                  | 2101 |
| Grisselborg – Norparskär               | 1101 |
| Hanko – Vitgrund                       | 2211 |
| Vitgrund – Utö                         | 1101 |
| Koverhar – Hästö Busö                  | 1711 |
| Inkoo u. Kantvik – Porkkala See        | 7792 |
| Helsinki, Hafen – Harmaja              | 1000 |
| Harmaja – Helsinki Leuchtturm          | 1000 |
| Helsinki – Porkkala – Rönnskär, Fahrw. | 1000 |
| Vuosaari Hafen – Eestiluoto            | 1201 |
| Porvoo, Hafen – Varlax                 | 2112 |
| Varlax – Porvoo Leuchtturm             | 1701 |
| Valko, Hafen – Täktarn                 | 7745 |

|                                      |      |
|--------------------------------------|------|
| Boistö – Glosholm, Schärenfahrwasser | 1200 |
| Glosholm–Helsinki, Schärenfahrwasser | 1200 |
| Kotka – Viikari                      | 6865 |
| Viikari – Orrengrund                 | 1715 |
| Orrengrund – Tiiskeri                | 1705 |
| Hamina – Suurmusta                   | 8446 |
| Suurmusta – Merikari                 | 7866 |
| Merikari – Kaunissaari               | 1206 |

#### **Russische Föderation , 26.03.2021**

|                                          |      |
|------------------------------------------|------|
| St. Petersburg, Hafen                    | 84/5 |
| St. Petersburg – Ostspitze Kotlin        | 84/5 |
| Ostspitze Kotlin – Länge Lt. Tolbuchin   | 63/5 |
| Lt. Tolbuchin – Lt. Šepelevskij          | 53/2 |
| Lt. Šepelevskij – Seskar                 | 53/2 |
| Seskar – Sommers                         | 1310 |
| Vyborg Hafen und Bucht                   | 84/5 |
| Vichrevoj – Sommers                      | 53/2 |
| Bjerkesund                               | 84/5 |
| E-Spitze Bol'soj Ber'ozovy – Šepelevskij | 53/2 |
| Luga Bucht                               | 1310 |
| Zuf. Luga B. – Linie Moščnyj-Šepel.      | 1310 |

#### **Schweden , 26.03.2021**

|                                   |      |
|-----------------------------------|------|
| Karlsborg – Malören               | 6476 |
| Malören, Seegebiet außerhalb      | 5476 |
| Luleå – Björnklack                | 8546 |
| Björnklack – Farstugrunden        | 2356 |
| Farstugrunden, See im E und SE    | 2356 |
| Sandgrönn Fahrwasser              | 6456 |
| Rödkallen – Norströmsgrund        | 2356 |
| Haraholmen – Nygrån               | 6356 |
| Nygrån, Seegebiet außerhalb       | 2356 |
| Skelleftehamn – Gåsören           | 8446 |
| Gåsören, Seegebiet außerhalb      | 6376 |
| Bjuröklubb, Seegebiet außerhalb   | 2356 |
| Nordvalen, See im NE              | 1406 |
| Nordvalen, See im SW              | 1406 |
| Västra Kvarnen W-lich Holmöarna   | 5356 |
| Umeå – Väktaren                   | 1406 |
| Örnsköldsvik – Hörnskatan         | 8346 |
| Hörnskatan – Skagsudde            | 1206 |
| Ulvöarna, Fahrwasser im W         | 1206 |
| Ångermanälv oberhalb Sandöbrücke  | 5334 |
| Ångermanälv unterhalb Sandöbrücke | 2324 |
| Härnösand – Härnön                | 1204 |
| Sundsvall – Draghällan            | 2221 |
| Draghällan – Åstholmsudde         | 1201 |
| Hudiksvallfjärden                 | 8292 |
| Iggesund – Agö                    | 8292 |
| Sandarne – Hällgrund              | 8292 |
| Köping – Kviksund                 | 1392 |
| Västerås – Grönsö                 | 8392 |
| Grönsö – Södertälje               | 1392 |
| Stockholm – Södertälje            | 1392 |
| Karlstad, Fahrwasser nach         | 8392 |
| Kristinehamn, Fahrwasser nach     | 8392 |