

# Eisbericht Nr. 53

## Amtsblatt des BSH

|                    |               |                           |          |
|--------------------|---------------|---------------------------|----------|
| <b>Jahrgang 94</b> | <b>Nr. 53</b> | <b>Monday, 01.03.2021</b> | <b>1</b> |
|--------------------|---------------|---------------------------|----------|

### Übersicht

In der Bottenwiek liegt in den Schären bis 55 cm dickes Festeis. Weiter außerhalb befindet sich im Westen eine Rinne mit sehr lockerem Eis oder offenem Wasser. Ansonsten kommt 15–40 cm dickes, übereinandergeschobenes, sehr dichtes Eis mit örtlichen Presseisrücken vor. An den Küsten von Norra Kvarken liegt Festeis, im Osten treibt dichtes bis sehr dichtes Eis, im Westen sehr lockeres Eis und offenes Wasser. In der Bottensee bis hinunter zum Schärenmeer kommt entlang der Küsten ebenes Eis und Festeis vor. Im Finnischen Meerbusen liegt an den Küsten im Norden und Osten bis zu 45 cm dickes Festeis und auf See kommt im Osten 10–30 cm dickes Eis, im Westen meist offenes Wasser vor. Im Rigaischen Meerbusen kommt im Gebiet Väinameri und bei Pärnu 10–25 cm dickes Festeis vor und auf See treibt im Nordosten meist sehr dichtes Eis. Weiter südlich kommt in geschützten Bereichen noch Eis vor. In einigen norwegischen Fjorden liegt örtlich 30 cm dickes Festeis.

### Overview

In the Bay of Bothnia, there is up to 55 cm thick fast ice the archipelagos. Farther out in the west, there is a lead with open water and very open ice. Otherwise, there is 15–40 cm thick, rafted and partly ridged, very close ice. In Norra Kvarken fast ice at the coast and at sea open water and very open ice in the west and very close ice in the east. In the Sea of Bothnia, down to the Archipelago Sea, there is level ice and fast ice at the coast. In the Gulf of Finland, there is up to 45 cm thick fast ice along the eastern and northern coast and 10–30 cm thick ice is present at sea in the east, in the west mostly open water. In the Gulf of Riga there is 10–25 cm thick fast ice in Väinameri and Pärnu Bay and off the northeastern coast, there is very close ice. Further south ice is still present in sheltered areas. In some Norwegian fjords there is 30 cm thick fast ice.

### Bay of Bothnia

In the northern Bay of Bothnia, there is 30–55 cm thick fast ice in the archipelago. Off the fast ice, there are narrow regions with up to 45 cm thick compact ice. Further out on the Swedish side, there is a lead with open water and very open ice all the way down south. Else, there is very close

and rafted ice that is 30–45 cm thick in the north and 15–35 cm thick in the south; the ice field is partly ridged and hard to force in places. Along the southern coast there is up to 40 cm thick fast ice. With temperatures mostly slightly above 0°C some ice melt can occur and the ice drifts eastwards.

### Norra Kvarken

In the archipelago off Vaasa, 15–35 cm thick fast

ice is present out to Ensten. On the Swedish side,

#### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)  
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there is 10–40 cm thick fast in bays along the coast and around Holmöarna. At sea there is 5–35cm thick close to very close ice in the east and open water and very open ice west of the line

### Sea of Bothnia

Along the Finnish coast, there is up to 25 cm thick fast and level ice in the archipelago. On the Swedish side, there is 10–30 cm fast ice or thin, level ice in bays, and off the southern and northern

### Archipelago and Åland Sea

There is 10–25 cm thick fast and level ice in the inner archipelagos and further out mostly open water, with close ice around some islands. At the

### Gulf of Finland

Fast ice is present along the northern and eastern coasts, with a thickness of 10–25 cm in the west, 20–40 cm thickness in the north, the Vyborg Bay and Bjerkesund and 35–45 cm thickness from St. Petersburg up to about Kotlin. Off the fast ice in the east, there is first compact, afterwards 15–30 cm thick very close, ridged ice out to the longitude of lighthouse Sommers. Then very open to open ice to Gogland; west/southwest of Gogland there is an area with 15–35cm thick, very close ice and

### Gulf of Riga

Väinameri is covered with 10–25 cm thick fast ice with areas of open to very close ice in between. There is 20–30 cm thick fast ice in the Pärnu Bay; further out there is up to 15cm thick, very close ice up to the line Sandla-Heinaste und still further out

### Northern and central Baltic

The Curonian Lagoon is covered by partly broken fast ice. In Lake Mälaren, there is mostly 10–40 cm thick, rotten and partly broken fast ice, with level ice towards the Baltic Proper. Very open to open ice is

### Southern and Western Baltic

There is open ice in the Vistula and Stettin lagoon.

### Skagerrak, Kattegat, Belts and Sound

Some ice remnants are still present in few places along the coasts. In the Norwegian fjords there is up to 30cm thick fast ice in places. In Oslo port

### Swedish Lakes

In Lake Vänern, there is rotten fast ice in sheltered bays in the north and south and at Mariestad. Further out very open ice is present in places. With

Sydostbrotten- Nordvalen. With temperatures above 0 °C, ice melt will occur and the ice drifts towards the east.

coast, there is open water. 30–50cm thick fast ice is present on Angermanälven. With day temperatures above 0 °C some ice may melt is expected.

Swedish coast, there is 5–15cm thick level. With day temperatures above 0 °C, further ice melt will occur.

south of Gogland an area with close ice. Outside the northern coast there is mostly very open ice, 5–20cm open ice is drifting in the central part around 25°30E and west of there is mostly open. At the southwestern coast, there is a narrow belt of close ice in Narva Bay, with very open to open ice further out. In Kunda Bay there is close ice and Muuga and Tallin bay are ice free. With temperatures mostly above and around 0°C some melt will occur and the ice drifts eastwards.

open water. Right at the eastern coast there is very open light nilas. With day temperatures above the freezing point, further ice retreat is expected. The ice will drift to the east.

present along the Swedish coast down to Karlskrona and 5–10 cm thick, very close ice is present in places at the western coast of Öland. With temperatures above 0°C, ice melt is expected.

Further ice retreat is expected.

there is very close new ice in places. Further ice melt is expected.

day temperatures above 5°C, further ice melt is expected.

## Restrictions to Navigation

|                | Harbour/District                                                                                                                                | At least<br>dwt/hp/kW | Ice Class | Begin         |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------|---------------|
| <b>Estonia</b> | Pärnu                                                                                                                                           | 1600 kW               | IC        | 25.01.        |
|                | Kunda and Sillamäe                                                                                                                              | 1600 kW               | IC        | 19.02.        |
| <b>Finland</b> | Tornio, Kemi and Oulu                                                                                                                           | 4000 dwt              | IA        | 20.02.        |
|                | Vaasa                                                                                                                                           | 2000 dwt              | IA        | 10.02.        |
|                | Raahe, Kalajoki, Kokkola and Pietarsaari                                                                                                        | 4000 dwt              | IA        | 20.02.        |
|                | Kaskinen                                                                                                                                        | 2000 dwt              | IB        | 10.02.        |
|                | Naantali and Turku                                                                                                                              | 2000 dwt              | I         | 28.02.        |
|                | Kristiinankaupunki, Pori, Rauma,<br>Uusikaupunki, Taalintehdas, Förby,<br>Koverhar, Lappohja, Inkoo, Kantvik,<br>Helsinki and Sköldvik          | 2000 dwt              | I         | 10.02.        |
|                | Loviisa and Mussalo                                                                                                                             | 2000 dwt              | I         | 03.02.        |
|                | Hanko                                                                                                                                           | 2000 dwt              | II        | 10.02.        |
|                | Kotka and Hamina                                                                                                                                | 2000 dwt              | IB        | 10.02.        |
|                | Szczecin                                                                                                                                        | 1200 kW               | PRS-L4    | 08.02.        |
|                | Fairway Szczecin- Swinoujscie                                                                                                                   | 1200 kW               | PRS-L4    | 13.02.        |
| <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<br>Skelleftehamn                                                                                               | 2000 dwt              | IA        | 08.02.        |
|                | <b>Karlsborg, Luleå, Haraholmen and<br/>Skelleftehamn</b>                                                                                       | <b>4000 dwt</b>       | <b>IA</b> | <b>02.03.</b> |
|                | Holmsund, Rundvik, Husum and<br>Örnsköldsvik                                                                                                    | 2000 dwt              | IB        | 08.02.        |
|                | Härnösand, Söråker, Sundsvall, Stocka,<br>Hudiksvall, Iggesund, Söderhamn,<br>Orrskär and Norrsundet                                            | 2000 dwt              | I         | 07.02.        |
|                | Gävle                                                                                                                                           | 2000/4000 dwt         | I/II      | 07.02.        |
|                | Ångermanälven                                                                                                                                   | 2000 dwt              | IB        | 06.02.        |
|                | Skutskär, Öregrund, Hargshamn and<br>Hallstavik                                                                                                 | 2000 dwt              | I         | 14.02.        |
|                | Grisslehamn                                                                                                                                     | 2000 dwt              | II        | 14.02.        |
|                | Mälaren                                                                                                                                         | 2000 dwt              | IC        | 22.02.        |
|                | Kappelskär, Stockholm, Nynäshamn,<br>Södertälje, Oxelösund, Norrköping,<br>Västervik, Oskarshamn, Mönsterås,<br>Kalmar, Bergkvara and Degerhamn | 2000 dwt              | II        | 14.02.        |
|                | Lake Vänern                                                                                                                                     | 1300/2000 dwt         | IB/IC     | 06.02.        |
|                | Tröllhätte canal and Göta alv                                                                                                                   | 2000 dwt              | IC        | 22.02.        |

## Information of the Icebreaker Services

**Estonia**

**Icebreaker:** EVA-316 assists in the port of Pärnu. BOTNICA assists in the ports of Kunda and Sillamae.

**Finland**

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.

Ice breaking season has ended in Lake Saimaa and Saimaa Canal. The Saimaa Canal is closed for traffic

on 8.2.2021.

**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 and FENNICA assist in the Gulf of Finland.

### Norway

Tønsberg inner harbour (Tønsberg): Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size. (25.01.21)

Vestfjorden (Tønsberg): Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size. (25.01.21)

**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.

For low powered vessels transit traffic through Kalmarsund is not recommended.

**Icebreaker:** ATLE, ODEN and FREJ assist in the Bay of Bothnia. YMER 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 Mitteltgroße 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 kompakte Eisbreiklumpchen 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 aufgebrochenen 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 , 01.03.2021**

|                                        |      |
|----------------------------------------|------|
| Narva-Jõesuu, Fahrwasser               | 5235 |
| Kunda, Hafen und Bucht                 | 4125 |
| Länge Kunda – Tallinn, Fahrwasser      | 4111 |
| Breite Tallinn – Osmussaar, Fahrwasser | 1100 |
| Pärnu, Hafen und Bucht                 | 8345 |
| Pärnu – Irbenstraße, Fahrwasser        | 5222 |
| Moonsund                               | 5282 |

**Finnland , 28.02.2021**

|                                          |      |
|------------------------------------------|------|
| Röyttä – Etukari                         | 8546 |
| Etukari – Ristinmatala                   | 8446 |
| Ajos – Ristinmatala                      | 8446 |
| Ristinmatala – Kemi 2                    | 5476 |
| Kemi 2 – Kemi 1                          | 5476 |
| Kemi 1, Seegebiet im SW                  | 5476 |
| Kemi 2 – Ulkokrunni – Virpiniemi         | 8846 |
| Oulu, Hafen – Kattilankalla              | 8446 |
| Kattilankalla – Oulu 1                   | 7446 |
| Oulu 1, Seegebiet im SW                  | 5856 |
| Offene See N-lich Breite Marjaniemi      | 5456 |
| Raahe, Hafen – Heikinkari                | 8846 |
| Heikinkari – Raahe Leuchtturm            | 6846 |
| Raahe Leuchtturm – Nahkiainen            | 5356 |
| Breitengrad Marjaniemi – Ulkokalla, See  | 5456 |
| Rahja, Hafen – Välimatala                | 8846 |
| Välimatala bis Linie Ulkokalla – Ykskivi | 5356 |
| Breitengrad Ulkokalla – Pietarsaari, See | 5876 |
| Ykspihlaja – Repskär                     | 8846 |
| Repskär – Kokkola Leuchtturm             | 7376 |
| Kokkola Leuchtturm, See außerhalb        | 5376 |
| Pietarsaari – Kallan                     | 8846 |
| Kallan, Seegebiet außerhalb              | 5356 |
| Breite Pietarsaari – Nordvalen im NE     | 4376 |
| Nordvalen, Seegebiet im ENE              | 2876 |
| Nordvalen – Norrskär, See im W           | 4876 |
| Vaskiluoto – Ensten                      | 8846 |
| Ensten – Vaasa Leuchtturm                | 9746 |
| Vaasa Leuchtturm – Norrskär              | 1706 |
| Norrskär, Seegebiet im SW                | 1306 |
| Kaskinen – Sälgrund                      | 2216 |
| Sälgrund, Seegebiet außerhalb            | 3216 |
| Pori – Linie Pori Leuchtturm – Säppi     | 3116 |
| Rauma, Hafen – Kylmäpihlaja              | 8746 |
| Uusikaupunki, Hafen – Kirsta             | 8746 |
| Kirsta – Isokari                         | 4266 |
| Naantali und Turku – Rajakari            | 5746 |
| Rajakari – Lövskär                       | 5246 |
| Lövskär – Korra                          | 5246 |
| Korra – Isokari                          | 1216 |
| Lövskär – Berghamn                       | 5246 |
| Berghamn – Stora Sottunga                | 1106 |
| Stora Sottunga – Ledskär                 | 2116 |
| Lövskär – Grisselborg                    | 5246 |
| Grisselborg – Norparskär                 | 5266 |
| Vidskär, Seegebiet                       | 1216 |
| Utö – Suomen Leijona                     | 1216 |
| Hanko, Hafen – Hanko 1                   | 1725 |
| Hanko 1, See im S                        | 3245 |
| Hanko – Vitgrund                         | 5245 |

|                                        |      |
|----------------------------------------|------|
| Vitgrund – Utö                         | 5245 |
| Koverhar – Hästö Busö                  | 8746 |
| Hästö Busö – Ajax                      | 9746 |
| Ajax, See im S                         | 2216 |
| Inkoo u. Kantvik – Porkkala See        | 7746 |
| Porkkala, Seegebiet                    | 9246 |
| Porkkala Leuchtturm, See im S          | 2226 |
| Helsinki, Hafen – Harmaja              | 7346 |
| Harmaja – Helsinki Leuchtturm          | 2736 |
| Helsinki Lt. – Porkkala Lt., See im S  | 3726 |
| Helsinki – Porkkala – Rönnskär, Fahrw. | 5746 |
| Vuosaari Hafen – Eestiluoto            | 7746 |
| Eestiluoto – Helsinki Leuchtturm       | 9726 |
| Porvoo, Hafen – Varlax                 | 8346 |
| Varlax – Porvoo Leuchtturm             | 9726 |
| Porvoo Leuchtturm – Kalbådagrund       | 3736 |
| Kalbådagrund – Helsinki Lt.            | 3736 |
| Valko, Hafen – Tåktarn                 | 8346 |
| Boistö – Glosholm, Schärenfahrwasser   | 8746 |
| Glosholm–Helsinki, Schärenfahrwasser   | 8746 |
| Kotka – Viikari                        | 8846 |
| Viikari – Orrengrund                   | 8846 |
| Orrengrund – Tiiskeri                  | 7776 |
| Tiiskeri – Kalbådagrund                | 2376 |
| Hamina – Suurmusta                     | 8446 |
| Suurmusta – Merikari                   | 8446 |
| Merikari – Kaunissaari                 | 8346 |

**Norwegen , 01.03.2021**

|                      |      |
|----------------------|------|
| Svinesund – Halden   | 32// |
| Drammensfjord        | 3312 |
| Tønsberg, Innenhafen | 8345 |
| Vestfjord (Tønsberg) | 8845 |
| Langårsund (Kragerø) | 8234 |
| Tromøysund (Arendal) | 3211 |
| Galtesund (Arendal)  | 3211 |

**Polen , 01.03.2021**

|                   |      |
|-------------------|------|
| Zalew Szczecinski | 100/ |
|-------------------|------|

**Russische Föderation , 01.03.2021**

|                                          |      |
|------------------------------------------|------|
| St. Petersburg, Hafen                    | 84/5 |
| St. Petersburg – Ostspitze Kotlin        | 84/5 |
| Ostspitze Kotlin – Länge Lt. Tolbuchin   | 64/5 |
| Lt. Tolbuchin – Lt. Šepelevskij          | 5332 |
| Lt. Šepelevskij – Seskar                 | 53/3 |
| Seskar – Sommers                         | 53/3 |
| Sommers – Südspitze Gogland              | 33/3 |
| S-Spitze Gogland – Länge Hf. Kunda       | 52/3 |
| Vyborg Hafen und Bucht                   | 84/5 |
| Vichrevoj – Sommers                      | 53/5 |
| Bjerkessund                              | 84/5 |
| E-Spitze Bol'soj Ber'ozovy – Šepelevskij | 53/5 |
| Luga Bucht                               | 63/3 |
| Zuf. Luga B. – Linie Mošcnjy-Šepel.      | 63/3 |

**Schweden , 01.03.2021**

|                              |      |
|------------------------------|------|
| Karlsborg – Malören          | 6456 |
| Malören, Seegebiet außerhalb | 6456 |
| Luleå – Björnklack           | 6476 |

|                                      |      |                               |      |
|--------------------------------------|------|-------------------------------|------|
| Björnklack – Farstugrunden           | 6476 | Gruvön, Fahrwasser nach       | 8392 |
| Farstugrunden, See im E und SE       | 5476 | Karlstad, Fahrwasser nach     | 8392 |
| Sandgrönn Fahrwasser                 | 6476 | Kristinehamn, Fahrwasser nach | 8392 |
| Rödkallen – Norströmsgrund           | 6476 | Otterbäcken, Fahrwasser nach  | 2372 |
| Haraholmen – Nygrån                  | 8446 | Lidköping, Fahrwasser nach    | 2372 |
| Nygrån, Seegebiet außerhalb          | 4476 |                               |      |
| Skelleftehamn – Gåsören              | 6376 |                               |      |
| Gåsören, Seegebiet außerhalb         | 6376 |                               |      |
| Bjuröklubb, Seegebiet außerhalb      | 6376 |                               |      |
| Nordvalen, See im NE                 | 2426 |                               |      |
| Nordvalen, See im SW                 | 2426 |                               |      |
| Västra Kvarnen W-lich Holmöarna      | 8446 |                               |      |
| Umeå – Väktaren                      | 2226 |                               |      |
| Väktaren, See im SE                  | 4456 |                               |      |
| Sydostbrotten, See im NE u. SE       | 4450 |                               |      |
| Husum, Fahrwasser nach               | 1206 |                               |      |
| Örnsköldsvik – Hörnskatan            | 8346 |                               |      |
| Hörnskatan – Skagsudde               | 8346 |                               |      |
| Skagsudde, Seegebiet außerhalb       | 1206 |                               |      |
| Ulvöarna, Fahrwasser im W            | 5246 |                               |      |
| Ulvöarna, Seegebiet im E             | 2226 |                               |      |
| Ångermanälv oberhalb Sandöbrücke     | 8444 |                               |      |
| Ångermanälv unterhalb Sandöbrücke    | 8444 |                               |      |
| Härnösand – Härnön                   | 1304 |                               |      |
| Härnön, Seegebiet außerhalb          | 1306 |                               |      |
| Sundsvall – Draghallan               | 5246 |                               |      |
| Draghallan – Ästholmsudde            | 2326 |                               |      |
| Ästholmsudde/Brämön, außerhalb       | 1306 |                               |      |
| Hudiksvallfjärden                    | 5246 |                               |      |
| Iggesund – Agö                       | 5246 |                               |      |
| Agö, Seegebiet außerhalb             | 1106 |                               |      |
| Sandarne – Hällgrund                 | 5246 |                               |      |
| Hällgrund, Seegebiet außerhalb       | 1106 |                               |      |
| Ljusnefjärden – Störjungfrun         | 5246 |                               |      |
| Störjungfrun, Seegebiet außerhalb    | 1106 |                               |      |
| Gävle – Eggegrund                    | 8346 |                               |      |
| Örskär, Seegebiet außerhalb          | 1106 |                               |      |
| Öregrundsgrepen                      | 5256 |                               |      |
| Understen, Durchfahrt bei            | 1106 |                               |      |
| Svartklubben, See außerhalb          | 1106 |                               |      |
| Hallstavik – Svartklubben            | 5256 |                               |      |
| Trälhavet – Furusund – Kapellskär    | 3122 |                               |      |
| Stockholm – Trälhavet – Klövholmen   | 3122 |                               |      |
| Köping – Kvicksund                   | 8494 |                               |      |
| Västerås – Grönsö                    | 8494 |                               |      |
| Grönsö – Södertälje                  | 8494 |                               |      |
| Stockholm – Södertälje               | 8494 |                               |      |
| Södertälje – Fifong                  | 2122 |                               |      |
| Norrköping – Hargökalv               | 3122 |                               |      |
| Hargökalv – Vinterklasen – N Kränkan | 2022 |                               |      |
| Oxelösund, Hafen                     | 2122 |                               |      |
| Järnverket-Lillhammaren – N Kränkan  | 2122 |                               |      |
| Västervik – Marsholmen – Idö         | 3022 |                               |      |
| Oskarshamn – Furön                   | 3152 |                               |      |
| Blå Jungfrun – Kalmar                | 5152 |                               |      |
| Kalmar – Utgrunden                   | 5152 |                               |      |
| Karlskrona – Aspö                    | 3152 |                               |      |
| Uddevalla – Stenungsund              | 3122 |                               |      |
| Vänersborgsviken                     | 2372 |                               |      |
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