



Eisbericht Nr. 97

Amtsblatt des BSH

Jahrgang 97

Nr. 97

Friday, 05.04.2024

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Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 80 cm dickes, in den südlichen bis 70 cm dickes Festeis. Im Osten verläuft außerhalb des Festeises eine Neueis-Rinne mit örtlich etwas Treibeis. Auf See treibt im Nordwesten zumeist 40–70 cm dickes, sehr dichtes, örtlich aufgepresstes und übereinandergeschobenes Eis, das teilweise schwer zu passieren ist. Weiter südlich treibt auf See im Westen bis 40 cm dickes, sehr dichtes oder dichtes Eis, um im Osten kommt offenes Wasser vor. An den Küsten von Norra Kvarken liegt bis 60 cm dickes Festeis; auf See treibt sehr lockeres bis lockeres, 10–40 cm dickes Eis. An den Küsten der Bottensee kommt im Osten bis 55 cm und im Westen bis 40 cm dickes Festeis vor und im Nordwesten treibt vor der Küste 10–40 cm dickes, dichtes Eis. Im Schärenmeer kommt morsches Festeis und offenes Wasser vor. Im Norden des Finnischen Meerbusens liegt meist morsches Festeis; auf See treibt ganz im Nordosten 10–35 cm dickes Eis. Im Väinameri und Mälären kommt örtlich morsches Festeis vor.

Overview

In the Bay of Bothnia there is fast ice in the archipelagos, up to 80 cm thick in the north and up to 70 cm thick in the south. Outside the fast ice in the east there is a lead with some drift ice at places. At sea in the northwest, there is mostly 40–70 cm thick, very close, ridged and rafted ice that is difficult to force at places. Further south there is up to 40 cm thick very close and close ice in the west and open water in the east. In the Quark there is up to 60 cm thick fast ice at the coasts and at sea there is 10–40 cm thick, very open to open ice. At the coasts of the Sea of Bothnia there is fast ice, up to 55 cm thick in the east and up to 40 cm thick in the west and 20-40cm thick, close ice is present outside the northwestern coast. Rotten fast ice and open water is present in the Archipelago Sea. There is fast ice, mostly rotten, at the northern coast of the Gulf of Finland. At sea in the northeast there is 10–35 cm thick ice. In Väinameri and Malären there is rotten fast ice at places.

Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast ice; 50–80 cm thick in the north and 40–70 cm thick in the south. In the northeast the fast ice stretches out to Malören, Kemi-3, Oulu-3 and Raahelighthouse. West of about 23°15'E, there is 30–70 cm thick, ridged and rafted, very close ice between about 65°N and 64°10'N. The ice field is difficult to force at places. North of this ice field

there are areas with new ice. Further south to Holmöarna there is close to very close, 10–40 cm thick drift ice. In the eastern part runs a 10-25nm wide, new ice covered lead with some thicker drift ice around Ulkokalla, further south open water.

With slowly increasing temperatures and variable winds no substantial change is expected over the weekend.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)
www.bsh.de/eis
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

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The Quark

There is 35–60 cm thick fast ice in the Vaasa archipelago out to Ensten. Along the Swedish coast there is up to 40 cm thick fast ice. At sea there is 10–40 cm thick, very open to open ice; but very close ice, in places ridged, is present north of

Sea of Bothnia

Along the coasts there is mostly fast ice in the inner bays; 20–55 cm thick in the east and 5–40 cm thick in the west. The fast ice in the south is partly rotten. On Ångermanälven, there is 15–40 cm thick fast ice. Off the Swedish coast north of

Archipelago Sea and Åland Sea

In the Archipelago Sea there is rotten fast ice in the archipelago and around the Åland Islands with open water in between and on the larger fairways.

Northern Baltic

In Lake Mälaren there is rotten fast ice in bays and near the coast and open water elsewhere. Along the outer Swedish coast there is open water and locally some broken ice.

Gulf of Finland

Along the northern coast there is fast ice in the archipelago, rotten in the west and beginning to rot in the east. On the fairways in the west there is mainly open water. Outside the archipelagos mainly open water with some floes broken off the fast ice in the east and 10–35 cm thick close ice is present around Sommers. In the Vyborg Bay there

Gulf of Riga

In Väinameri there is rotten fast ice in places near the coasts. On the fairways it is ice-free.

Nordvalen.

With increasing temperatures, reaching values above 0°C during Sunday, overall no larger change is expected over the weekend.

about Brämön, there is open to close, 10–40 cm thick ice, partly ridged. Off the coast in the east there is open water.

With increasing temperatures over the weekend, ice melt is expected also in the north.

In the Åland Sea there is rotten fast ice in bays along the coast.

Ice melt is expected over the weekend.

Accelerating ice melt is expected over the weekend.

is 10–20 cm thick fast ice and in the Bjerkesund there is very open ice. From St. Petersburg to Kotlin there is very open ice and open ice is present north of Kotlin. In Lake Saimaa is 25–50 cm thick ice with open areas.

Ice melt is expected over the weekend.

Accelerating ice melt is expected over the weekend.

Dr. J. Holfort

Restrictions to Navigation

| | Harbour/District | At least dwt/hp/kW | Ice Class | Begin |
|----------------|--|-----------------------|-------------------|---------------|
| Finland | Tornio, Kemi and Oulu | 4000 dwt | IA | 02.04. |
| | Raahe, Kalajoki, Kokkola and Pietarsaari | 4000 dwt | IA | 13.01. |
| | Vaasa | 2000 dwt | IB | 02.04. |
| | Mussalo, Loviisa and Kotka | 2000 dwt | II | 02.04. |
| | Hamina | 2000 dwt | I | 25.03. |
| | Lake Saimaa | 2000 dwt | IA | 08.01. |
| | Saimaa Canal | 2000 dwt | IA | 08.01. |
| Russia | Vyborg | - | Ice 1 (see below) | 28.03. |
| | Vysotsk | - | Ice 1 (see below) | 28.03. |
| | Primorsk | - | Ice 1 (see below) | 25.03. |
| Sweden | Karlsborg | 4000 dwt | IA (2000 t) | 14.01. |
| | Lulea, Haraholmen and Skelleftehamn | 4000 dwt | IA | 14.01. |
| | Rundvik, Husum and Örnköldsvik | 2000 dwt | IA | 19.02. |
| | Holmsund | 2000 dwt | IA | 17.02. |
| | Angermanälven | 2000 dwt | IB | 27.03. |
| | Stocka, Hudiksvall, Iggesund, Söderhamn | 2000 dwt | II | 05.04. |
| | Orrskär, Norrsundet, Gävle and Skutskär | 2000 dwt | II | 18.03. |
| | Härnösand | 2000 dwt | IB | 26.02. |
| | Söråker and Sundsvall | 2000 dwt | IC | 22.03. |

Finland/Sweden

The transit traffic west of Holmöarna is temporarily prohibited.

The traffic separation schemes in the Quark are temporarily out of use from 20 December due to ice conditions.

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: YMER, ODEN, FREJ, ATLE, POLARIS and URHO assist in the Bay of Bothnia. OTSO assists in the southern Bay of Bothnia. ZEUS and ALE assist in the Quark. CALYPSO assists the Gulf of Finland.

Russia

There are restrictions for small crafts going to St. Petersburg, Vyborg, Vysotsk and Primorsk. Barge towed by tug not allowed to navigate in ice. Vessels without ice class to Vyborg, Vysotsk and Primorsk are only allowed with icebreaker assistance, with ice class Ice 1 or higher according to instructions.

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

Baltic Sea Ice Code

| | |
|--|--|
| <p>First number:</p> <p>A_B Amount and arrangements of sea ice</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>T_B Topography or form of ice</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>S_B Stage of ice development</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>K_B Navigation conditions in ice</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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Russian Federation, 05.04.2024

| | |
|--|------|
| Port of St. Petersburg | 11// |
| St. Petersburg – E-point island Kotlin | 11// |
| E-point Kotlin – long. lighth. Tolbuhkin | 21// |
| Lighth. Tolbuhkin – lighth. –Šepelevskij | 21// |
| Lighthouse Šepelevskij – island Sescar | 22// |
| Vyborg, port and bay | 88// |
| Island Vichrevoj – Island Sommers | 53// |
| Strait Bjerkesund | 11// |
| E-point Bol'šoj Ber'ozovyj – Šepelevskij | 11// |

Finland, 04.04.2024

| | |
|--|------|
| Röyttä – Etukari | 8546 |
| Etukari – Ristinmatala | 8546 |
| Ajos – Ristinmatala | 8546 |
| Ristinmatala – Kemi 2 | 7476 |
| Kemi 2 – Kemi 1 | 5676 |
| Sea area SW of Kemi 1 | 5676 |
| Kemi 2 – Ulkokrunni – Virpiniemi | 7476 |
| Oulu harbours – Kattilankalla | 8546 |
| Kattilankalla – Oulu 1 | 7476 |
| Sea area SW of Oulu 1 | 5676 |
| High Sea N of the latitude of Marjaniemi | 9006 |
| Raahe harbour – Heikinkari | 8546 |
| Heikinkari – Raahe lighthouse | 6476 |
| Raahe lighthouse – Nahkiainen | 3006 |
| Latitude Marjaniemi – Ulkokalla, Sea | 9416 |
| Rahja harbour – Välimatala | 8446 |

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|--|------|
| Vaelimatala to line Ulkokalla – Ykskivi | 3836 |
| Sea betw. lat. of Ulkokalla –Pietarsaari | 9326 |
| Ykspihlaja – Repskär | 7476 |
| Repskär – Kokkola lighthouse | 5476 |
| Sea area off Kokkola lighthouse | 1306 |
| Pietarsaari – Kallan | 8446 |
| Sea area off Kallan | 1306 |
| Sea lat. Pietarsaari – NE Nordvalen | 5356 |
| Sea area ENE of Nordvalen | 5356 |
| Sea area Nordvalen to W of Norrskär | 3356 |
| Vaskiluoto – Ensten | 7356 |
| Ensten – Vaasa lighthouse | 3356 |
| Vaasa lighthouse – Norrskär | 3356 |
| Sea area SW of Norrskär | 3356 |
| Kaskinen – Sälgrund | 8442 |
| Sea area off Sälgrund | 1302 |
| High sea from N to latitude Yttergrund | 1312 |
| Pori harb. to line Pori lighth. – Säppi | 1302 |
| Rauma, Harbour – Kylmäpihlaja | 1302 |
| Uusikaupunki harbour – Kirsta | 1302 |
| Naantali and Turku – Rajakari | 5392 |
| Rajakari – Lövskär | 1302 |
| Lövskär – Korra | 8392 |
| Korra – Isokari | 1302 |
| Lövskär – Berghamn | 1302 |
| Berghamn – Stora Sottunga | 1302 |
| Stora Sottunga – Ledskär | 1302 |
| Lövskär – Grisselborg | 1302 |

| | | | |
|--|------|------------------------------------|------|
| Grisselborg – Norparskär | 1302 | Trälhavet – Furusund – Kapellskär | 1000 |
| Hanko – Vitgrund | 1302 | Stockholm – Trälhavet – Klövholmen | 1000 |
| Vitgrund – Utö | 1302 | Köping – Kvikksund | 1101 |
| Koverhar – Hästö Busö | 1302 | Västerås – Grönsö | 1101 |
| Inkoo a. Kantvik – sea area Porkkala | 1302 | Grönsö – Södertälje | 1101 |
| Helsinki harbours – Harmaja | 1302 | Stockholm – Södertälje | 1101 |
| Harmaja – Helsinki lighthouse | 1302 | | |
| Fairway Helsinki – Porkkala – Rönnskär | 1302 | | |
| Vuosaari harbour – Eestiluoto | 1302 | | |
| Eestiluoto – Helsinki lighthouse | 1302 | | |
| Porvoo harbours – Varlax | 1302 | | |
| Varlax – Porvoo lighthouse | 1302 | | |
| Valko Harbour – Täktarn | 8445 | | |
| Archipelago fairway Boistö – Glosholm | 1305 | | |
| Archipelago fairway Glosholm–Helsinki | 1302 | | |
| Kotka – Viikari | 1305 | | |
| Viikari – Orregrund | 1305 | | |
| Orregrund – Tiiskeri | 1305 | | |
| Hamina – Suurmusta | 8446 | | |
| Suurmusta – Merikari | 1306 | | |
| Merikari – Kaunissaari | 2326 | | |

Sweden, 04.04.2024

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|----------------------------------|------|
| Karlsborg – Malören | 8646 |
| Sea area off Malören | 5676 |
| Luleå – Björnklack | 8646 |
| Björnklack – Farstugrunden | 5576 |
| E and SE of Farstugrunden | 5576 |
| Sandgrönn fairway | 6556 |
| Rödkallen – Norströmsgrund | 5576 |
| Haraholmen – Nygrån | 6556 |
| Sea area off Nygrån | 5556 |
| Skelleftehamn – Gåsören | 8446 |
| Sea area off Gåsören | 5576 |
| Sea area off Bjuröklubb | 5576 |
| NE of Nordvalen | 3456 |
| SW of Nordvalen | 3456 |
| Western Quark (W of Holmöarna) | 2456 |
| Umeå – Väktaren | 2456 |
| SE of Väktaren | 2456 |
| NE and SE of Sydostbrotten | 3456 |
| Fairway to Husum | 5456 |
| Örnsköldsvik – Hörnskatan | 8446 |
| Hörnskatan – Skagsudde | 8446 |
| Sea area off Skagsudde | 3456 |
| Fairway W of Ulvöarna | 8446 |
| Sea area E of Ulvöarna | 4456 |
| Ångermanälven north Sandö Bridge | 8444 |
| Ångermanälven south Sandö Bridge | 8444 |
| Härnösand – Härnön | 4454 |
| Sea area off Härnön | 4454 |
| Sundsvall – Draghällan | 2426 |
| Draghällan – Åstholmsudde | 2426 |
| Off Åstholmsudde and Brämön | 3456 |
| Hudiksvallfjärden | 8346 |
| Iggesund – Agö | 8346 |
| Sandarne – Hällgrund | 8346 |
| Ljusnefjärden – Storjungfrun | 8346 |
| Gävle – Eggegrund | 1306 |
| Hallstavik – Svartklubben | 8392 |