



Eisbericht Nr. 49

Amtsblatt des BSH

Jahrgang 96

Nr. 49

Friday, 03.02.2023

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Übersicht

In den Schären der Bottenwiek befindet sich bis 55 cm dickes Festeis. Auf See treibt im Norden 10–35 cm dickes, dichtes bis sehr dichtes Treibeis sowie Neueis. In der südlichen Bottenwiek befindet sich in den Buchten dünnes ebenes Eis oder Festeis. In Norra Kvarken liegt bis 35 cm dickes Festeis in den Schären und Buchten und dünnes Eis auf See. In der Bottensee und dem Schärenmeer kommt dünnes, ebenes Eis oder Festeis entlang der Küsten vor. Im Mälarsee liegt dünnes, ebenes Eis oder Neueis. Im Finnischen Meerbusen liegt in den östlichsten Buchten bis 40 cm dickes Festeis und sehr dichtes Eis weiter außerhalb. In den Schären und Buchten entlang der Küsten kommt im Norden Festeis vor. Im Nordosten des Rigaischen Meerbusen befindet sich 10–20 cm dickes Festeis oder sehr dichtes Eis in geschützten Buchten.

Overview

In the archipelagos of the Bay of Bothnia, there is up to 55 cm thick fast ice. At sea in the north, there is 10–35 cm thick, close to very close drifting ice and new ice. In the southern Bay of Bothnia, there is thin level ice or fast ice in the inner bays. In the Quark, there is up to 35 cm thick fast ice in the archipelagos and bays and thin ice at sea. In the Sea of Bothnia and the Archipelago Sea, there is fast ice or thin level ice along the coasts. In Lake Mälaren, there is thin level ice and new ice. In the Gulf of Finland, there is up to 40 cm thick fast ice in the easternmost bays and very close ice somewhat further out. In the archipelagos and bays along the coasts, there is fast ice in the north. In the northeastern Gulf of Riga, there is 10–20 cm thick fast ice or very close ice in sheltered bays.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 25–55 cm thick fast ice and very close, up to 40 cm thick ice to Malören and off the eastern fast ice. Further out in the north, there is thin level ice to about Kemi-1. Off the western fast ice, there is new ice to about Falkensgrund. Further east is mostly 10–30 cm thick, very close drift ice. Between 64°20'N and 64°50'N, there is mostly close,

8–20 cm thick drifting ice. In the southern Bay of Bothnia, there is 5–20 cm thick fast ice in the archipelagos. At the fast ice edge in the east, there is shuga in places. Further out at both coasts, there is new ice and ice formation.

New ice formation and ice growth will continue over the weekend. The ice will drift first to the south and later to the northeast.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

www.bsh.de/ice

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Eisaukünfte / 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 10–35 cm thick fast ice in the Vaasa archipelago out to Storhästen. Further out to Norrskär, there is thin drift ice with varying concentration. On the Swedish side, there is mostly fast ice in inner bays and new ice further out. At sea,

Sea of Bothnia

In the archipelagos along the eastern coast, there is 10–20 cm thick fast ice and new ice further out. Along the western coast, there is thin level ice or new ice in sheltered bays in the south and fast ice in inner bays in the north. Further out is new ice formation. On Ångermanälven, there is 10–30 cm

Archipelago Sea and Åland Sea

At the eastern coast, there is 3–10 cm fast or level ice in the inner bays and new ice somewhat further out. In the western part new ice is present along

Northern Baltic

In Lake Mälaren, 3–10 cm thick level ice and new ice are present in the western part. In the eastern part, there is new ice and open water. New ice

Gulf of Finland

From St. Petersburg out to Kotlin and in the bay north of Kotlin, there is 20–40 cm thick fast ice or compact ice. In the Bay of Vyborg, there is 15–25 cm thick fast ice. Further out, there is 5–20 cm thick, close to very close drift ice to about to about Nerva and eastwards to Šepelevskij. In the Bjerkesund, there is 10–25 cm thick fast ice with 5–15 cm thick, very close ice at the entrance. New ice forms

Gulf of Riga

In Väinameri, there is 10–20 cm thick fast ice or very close ice in sheltered bays. On the fairways, there is open water. In the Bay of Pärnu, there is 10–20 cm thick fast ice along the coast followed by an about 6 NM wide area of very open ice to the line Lindi – Suurna Nina. Further out to the line

Skagerrak and Kattegat

Up to 10 cm thick ice or new ice is present in some inner Norwegian Fjords.

Swedish Lakes

Thin level ice or new ice is present in few sheltered bays in the north and east of Lake Vänern.

there is new ice and new ice formation.

New ice formation and ice growth is expected over the weekend. The ice will drift to the south and from Saturday noon more to the north/northeast.

thick fast or level ice.

Some new ice formation or ice growth is expected in inner bays and along the coast over the weekend. The ice will drift to the south and from Saturday noon more to the northeast.

the coast.

Some ice formation and ice growth is expected in sheltered coastal areas over the weekend.

occurs in few sheltered places along the coast.

Over the weekend new ice formation and ice growth is expected along the coast.

east of Seskar. Along the northern coast, there is 5–20 cm thick fast ice in the eastern archipelagos. Further out, there is very open ice. In the western archipelagos is thin ice.

New ice formation and ice growth is expected over the weekend. The ice will drift to the south and from Sunday more to the northeast.

port of Munalaid – Voiste, there is 10–20 cm thick, close to very close ice. Further south to Kihnu is open water.

Some ice formation and ice growth is expected over the weekend. The ice will drift to the south and from Sunday more to the east.

Some ice formation in sheltered areas is expected over the weekend.

Some ice formation in sheltered areas is expected over the weekend.

Restrictions to Navigation

| | Harbour/District | At least dwt/hp/kW | Ice Class | Begin |
|----------------|--|-----------------------|--------------|---------------|
| Estonia | Pärnu | 1600 kW | 1 C | 23.12. |
| Finland | Tornio, Kemi and Oulu | 2000 dwt | IA | 01.02. |
| | Raahe, Kalajoki, Kokkola, Pietarsaari and Vaasa | 2000 dwt | I | 07.01. |
| | Kaskinen, Inkoo, Kantvik, Helsinki, Sköldvik and Mussalo | 2000 dwt | II | 07.01. |
| | Loviisa, Kotka and Hamina | 2000 dwt | II | 24.12. |
| Russia | Vyborg and Vysotsk | - | Ice 1 | 08.02. |
| Sweden | Karlsborg and Lulea | 2000 dwt | IB | 08.01. |
| | Haraholmen and Skelleftehamn | 2000 dwt | IC | 25.12. |
| | Holmsund, Rundvik, Husum and Örnköldvik | 2000 dwt | II | 21.12. |
| | Holmsund | 2000 dwt | IC | 07.02. |
| | Angermanälven | 2000 dwt | IB | 07.01. |
| | Köping and Västerås | 1300/2000 dwt | IC/II | 25.01. |
| | Balsta | 1300/2000 dwt | IC/II | 22.12. |

Estonia**Icebreakers:**

EVA-316 assists in the port of Pärnu.

Finland/Sweden

The Saimaa Canal is closed for traffic since 4th January.

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:

KONTIO, OTSO, **ATLE**, YMER and FREJ assist in the Bay of Bothnia. ZEUS assists in the Quark and the Sea of Bothnia. ALE assists in the Quark. CALYPSO assists in the region of Kotka and Hamina.

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:</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> |
|--|--|

Estonia, 03.02.2023

| | |
|----------------------|------|
| Paernu, port and bay | 7385 |
| Moonsund | 1//0 |

Finland, 02.02.2023

| | |
|--|------|
| Röyttä – Etukari | 8446 |
| Etukari – Ristinmatala | 7856 |
| Ajos – Ristinmatala | 7856 |
| Ristinmatala – Kemi 2 | 5246 |
| Kemi 2 – Kemi 1 | 5146 |
| Sea area SW of Kemi 1 | 5156 |
| Kemi 2 – Ulkokrunni – Virpiniemi | 7856 |
| Oulu harbours – Kattilankalla | 8446 |
| Kattilankalla – Oulu 1 | 7856 |
| Sea area SW of Oulu 1 | 5356 |
| High Sea N of the latitude of Marjaniemi | 5356 |
| Raahe harbour – Heikinkari | 5146 |
| Heikinkari – Raahe lighthouse | 4746 |
| Raahe lighthouse – Nahkiainen | 2006 |
| Latitude Marjaniemi – Ulkokalla, Sea | 4356 |
| Rahja harbour – Välimatala | 5146 |
| Vaelimatala to line Ulkokalla – Ykskivi | 2006 |
| Ykspihlaja – Repskär | 4046 |
| Repskär – Kokkola lighthouse | 3006 |
| Pietarsaari – Kallan | 5746 |
| Sea area off Kallan | 1106 |
| Sea lat. Pietarsaari – NE Nordvalen | 3136 |
| Sea area ENE of Nordvalen | 3136 |
| Sea area Nordvalen to W of Norrskär | 3136 |

| | |
|---|------|
| Vaskiluoto – Ensten | 8746 |
| Ensten – Vaasa lighthouse | 4746 |
| Vaasa lighthouse – Norrskär | 3136 |
| Sea area SW of Norrskär | 3136 |
| Kaskinen – Sälgrund | 8745 |
| Sea area off Sälgrund | 1005 |
| Pori harb. to line Pori lighth. – Säppi | 2000 |
| Rauma, Harbour – Kylmäpihlaja | 2000 |
| Uusikaupunki harbour – Kirsta | 8142 |
| Naantali and Turku – Rajakari | 4041 |
| Rajakari – Lövskär | 2000 |
| Inkoo a. Kantvik – sea area Porkkala | 8145 |
| Helsinki harbours – Harmaja | 2005 |
| Vuosaari harbour – Eestiluoto | 1005 |
| Porvoo harbours – Varlax | 1005 |
| Valko Harbour – Täktarn | 8745 |
| Archipelago fairway Boistö – Glosholm | 1005 |
| Kotka – Viikari | 8745 |
| Viikari – Orregrund | 3035 |
| Hamina – Suurmusta | 8745 |
| Suurmusta – Merikari | 3035 |
| Merikari – Kaunissaari | 3035 |

Norway, 03.02.2023

| | |
|------------------------------|------|
| Svinesund – Halden | 31// |
| Drammensfjord | 4112 |
| Husøysund – Tønsberg channel | 8345 |
| Tønsberg, inner harbour | 8353 |
| Vestfjord (Tønsberg) | 8555 |

Langårsund (Kragerø) 8144

Russian Federation, 03.02.2023

Port of St. Petersburg 84/3
St. Petersburg – E-point island Kotlin 54/2
E-point Kotlin – long. lighth. Tolbuhkin 4302
Lighth. Tolbuhkin – lighth. –Šepelevskij 40/2
Lighthouse Šepelevskij – island Sescar 11/1
Vyborg, port and bay 83/3
Island Vichrevoj – Island Sommers 42/3
Strait Bjerkesund 83/3
E-point Bol'šoj Ber'ozovyj – Šepelevskij 52/3

Sweden, 03.02.2023

Karlsborg – Malören 8446
Sea area off Malören 5146
Luleå – Björnklack 8446
Björnklack – Farstugrunden 5146
E and SE of Farstugrunden 4046
Sandgrönn fairway 5356
Rödkaullen – Norströmsgrund 4046
Haraholmen – Nygrån 4046
Sea area off Nygrån 4046
Skelleftehamn – Gåsören 5236
Sea area off Gåsören 4046
Sea area off Bjuröklubb 5046
NE of Nordvalen 5046
SW of Nordvalen 5046
Western Quark (W of Holmöarna) 5046
Umeå – Väktaren 5046
SE of Väktaren 5046
NE and SE of Sydostbrotten 5046
Fairway to Husum 5046
Örnsköldsvik – Hörnskatan 8246
Hörnskatan – Skagsudde 3226
Sea area off Skagsudde 5046
Ångermanälven north Sandö Bridge 8344
Ångermanälven south Sandö Bridge 8344
Härnösand – Härnön 4044
Sundsvall – Draghallan 5242
Hudiksvallfjärden 5242
Iggesund – Agö 5242
Sandarne – Hällgrund 5142
Ljusnefjärden – Storjungfrun 5142
Gävle – Eggegrund 4041
Öregrundsgrepen 4041
Hallstavik – Svartklubben 5142
Köping – Kvicksund 5144
Västerås – Grönsö 5144
Grönsö – Södertälje 1004
Stockholm – Södertälje 5044
Södertälje – Fifong 4044
Fairway to Karlstad 5142
Fairway to Kristinehamn 5142