

Eisbericht Nr. 54

Amtsblatt des BSH

Jahrgang 96

Nr. 54

Friday, 10.02.2023

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Übersicht

In den Schären der Bottenwiek befindet sich im Norden bis 55 cm dickes Festeis und im Süden bis 25 cm dickes Festeis. Auf das Festeis folgt im Nordosten sehr dichtes bis 30 cm dickes und örtlich aufgepresst Eis mit festgestampften Eis an der Kante. Weiter außerhalb und entlang der Küsten treibt sehr lockeres bis lockeres, bis 10 cm dickes Eis. In Norra Kvarken liegt bis 35 cm dickes Festeis in den Schären und Buchten und auf See treibt im Norden sehr lockeres, dünnes. 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 dichtes bis sehr dichtes Eis auf See im Osten. In den Schären und Buchten entlang der nördlichen Küste kommt Festeis vor. Im Nordosten des Rigaischen Meerbusen befindet sich 10–20 cm dickes Festeis oder sehr dichtes Eis und Neueis in geschützten Gebieten.

Overview

In the archipelagos of the Bay of Bothnia, there is up to 55 cm thick fast ice in the north and up to 25 cm thick fast ice in the south. In the northeast follows very close, up to 30 cm thick and partly ridged ice with a brash ice barrier at the ice edge. Further out and along the coasts is up to 10 cm thick, very open to open drift ice. In the Quark, there is up to 35 cm thick fast ice in the archipelagos and bays and thin ice at sea in the north. In the Sea of Bothnia and the Archipelago Sea, fast ice or thin level ice is present along the coasts. In Lake Mälaren, there is thin level ice and new ice. In the Gulf of Finland, up to 40 cm thick fast ice is present in the easternmost bays and close to very close ice at sea in the east. In the archipelagos and bays along the northern coast, there is fast ice. 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 compact, up to 45 cm thick ice towards Malören and off the eastern fast ice. Further out in the northeast, there is 5–20 cm thick very close, ridged ice to about Malören and Kemi-1. There is a brash ice barrier at the ice edge. Further out in the east there is 10–30 cm thick very close ridged ice to Oulun portti and west of Raahe lighthouse. A region with 3-10cm

thick open ice stretches from the entrance to Luleå and Kemi-1 out to about 65°N 23°20'E. In the southern Bay of Bothnia, there is 5–25 cm thick fast ice in the archipelagos and farther out a wider region of mostly very open ice with open ice west of Ulkokalla. A larger region in the central part south of about 65°10'N is ice free.

Some new ice formation is expected with a mostly southeastward ice drift. Later during the weekend

Herstellung und Vertrieb

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the new ice formation will cease and the ice drift

The Quark

There is 10–35 cm thick fast ice in the Vaasa archipelago out to Storhåsten. Further out to west of Ensten, there is very close, 5–20 cm thick ice. On the Swedish side, there is mostly fast ice in inner bays. Further out on both coasts, there is very

Sea of Bothnia

In the archipelagos along the eastern coast, there is 10–20 cm thick fast ice with open water further out. Along the western coast, there is thin level ice or new ice in sheltered bays in the south and up to 40 cm thick fast ice in inner bays in the north. Further out, there is open water in the north. On

Archipelago Sea and Åland Sea

At the eastern coast, there is 5–15 cm fast or level ice in the inner bays and new ice somewhat further out. In the western and central part new ice is pre-

Northern Baltic

In Lake Mälaren, there is 5–15 cm thick fast ice or thin level ice in the western part, with some area of partly open water. In the eastern part, there is thin

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 15–30 cm thick fast ice. In the Bjerkesund, there is 10–25 cm thick fast ice. East of the line Hamina – lighthouse Šepelevskij, there is very close, 10–20 cm thick drift ice. Further west there is very open drift ice stretching from Moščnyj and Seskar in north-eastward direction towards the very close ice. Along the northern coast, there is 10–25 cm thick fast ice in the eastern archipelagos. Further out,

Gulf of Riga

In Väinameri, there is 5–15 cm thick very close ice near the coast. On the fairway is very open ice or open water to about Kuralaid in the south. In the Bay of Pärnu, there is 10–20 cm thick fast ice along the coast. Further out to the line Sarnanina –

Skagerrak and Kattegat

Up to 15 cm thick ice or new ice is present in some inner Norwegian Fjords. At a few places thicker ice occurs.

Swedish Lakes

Thin level ice or new ice is present in some sheltered bays of Lake Vänern.

changes to northeastwards directions.

open drift ice, 3–10 cm thick.

The weekend starts with some possible ice formation and mostly southeasterly ice drift and ends with some possible ice melt and a northeasterly ice drift.

Ångermanälven, there is 10–40 cm thick fast or level ice.

With temperatures changing from slightly below to slightly above zero during the weekend, no larger change is expected.

sent along the coasts.

No larger change is expected the coming days.

ice in sheltered bays. New ice occurs in sheltered places along the outer coast.

No larger changes are expected the coming days.

there is open water west of Hamina. In the western archipelagos, there is 5–15 cm thick fast ice and new ice further out. At the southern coast there is very open drift ice from Luga eastwards and open water further out.

During today and towards the end of the weekend an eastward ice drift with at most minor ice formation is expected. But in between there is a time span with only light, variable ice drift and new ice formation.

Cape Pikla, there is very close ice followed by very open drift ice to Kihnu.

With variable winds and temperatures oscillating around zero, no larger changes are expected over the weekend.

Some ice melt but else no larger changes are expected.

Some ice melt is possible but else no larger changes are expected.

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	2000 dwt	IC	07.02.
	Rundvik, Husum and Örnsköldsvik	2000 dwt	II	21.12.
	Örnsköldsvik	2000 dwt	IC	13.02.
	Angermanälven	2000 dwt	IB	07.01.
	Söraker, Sundsvall and Söderhamn	2000 dwt	IC	13.02.
	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.

The traffic separation schemes in the Quark are temporarily out of use from 7 February due to ice conditions.

Icebreakers:

KONTIO, OTSO, SISU, 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. No sailing of barge by tug to Vyborg and Vysotsk.

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>
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Estonia , 10.02.2023

Paernu, port and bay	73/5
Moonsund	300/

Finland , 10.02.2023

Röyttä – Etukari	8446
Etukari – Ristinmatala	6456
Ajos – Ristinmatala	6456
Ristinmatala – Kemi 2	5756
Kemi 2 – Kemi 1	5766
Sea area SW of Kemi 1	5766
Kemi 2 – Ulkokrunni – Virpiniemi	6456
Oulu harbours – Kattilankalla	6456
Kattilankalla – Oulu 1	6456
Sea area SW of Oulu 1	5356
High Sea N of the latitude of Marjaniemi	3136
Raahe harbour – Heikinkari	5356
Heikinkari – Raahe lighthouse	5356
Raahe lighthouse – Nahkiainen	2126
Latitude Marjaniemi – Ulkokalla, Sea	3136
Rahja harbour – Välimatala	8746
Vaelimatala to line Ulkokalla – Ykskivi	3136
Sea betw. lat. of Ulkokalla – Pietarsaari	5756
Ykspihlaja – Repskär	2126
Repskär – Kokkola lighthouse	2126
Sea area off Kokkola lighthouse	2126
Pietarsaari – Kallan	5756
Sea area off Kallan	5756
Sea lat. Pietarsaari – NE Nordvalen	2126

Sea area ENE of Nordvalen	2126
Sea area Nordvalen to W of Norrskär	1006
Vaskiluoto – Ensten	7756
Ensten – Vaasa lighthouse	5756
Vaasa lighthouse – Norrskär	1006
Sea area SW of Norrskär	0//6
Kaskinen – Sälgrund	0//5
Sea area off Sälgrund	0//5
Uusikaupunki harbour – Kirsta	8142
Naantali and Turku – Rajakari	4041
Inkoo a. Kantvik – sea area Porkkala	8145
Helsinki harbours – Harmaja	1005
Fairway Helsinki – Porkkala – Rönnskär	0//5
Vuosaari harbour – Eestiluoto	0//5
Porvoo harbours – Varlax	0//5
Varlax – Porvoo lighthouse	0//5
Valko Harbour – Täktarn	8745
Archipelago fairway Boistö – Glosholm	1105
Archipelago fairway Glosholm–Helsinki	0//5
Kotka – Viikari	8345
Viikari – Orregrund	1105
Orregrund – Tiiskeri	1105
Hamina – Suurmusta	8345
Suurmusta – Merikari	1105
Merikari – Kaunissaari	1105

Norway , 10.02.2023

Svinesund – Halden	31//
Drammensfjord	4112

Husøysund – Tønsberg channel	8345	Fairway to Kristinehamn	5142
Tønsberg, inner harbour	8353		
Vestfjord (Tønsberg)	8555		
Langårsund (Kragerø)	8144		

Russian Federation , 10.02.2023

Port of St. Petersburg	84/3
St. Petersburg – E-point island Kotlin	54/3
E-point Kotlin – long. lighth. Tolbuhkin	4303
Lighth. Tolbuhkin – lighth. –Šepelevskij	42/2
Lighthouse Šepelevskij – island Sescar	4332
Island Sescar – Island Sommers	22/2
Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	42/3
Strait Bjerkesund	83/3
E-point Bol'šoj Ber'ozovyj – Šepelevskij	42/2
Luga bay	22/2
Appr. Luga bay – line Moš.-Šepel.	12/2

Sweden , 10.02.2023

Karlsborg – Malören	6456
Sea area off Malören	5366
Luleå – Björnklack	8446
Björnklack – Farstugrunden	3126
E and SE of Farstugrunden	3126
Sandgrönn fairway	5356
Rödkaullen – Norströmsgrund	2126
Haraholmen – Nygrån	5136
Sea area off Nygrån	2126
Skelleftehamn – Gåsören	5236
Sea area off Gåsören	2126
Sea area off Bjuröklubb	2126
NE of Nordvalen	1101
Western Quark (W of Holmöarna)	2126
Umeå – Väktaren	5146
SE of Väktaren	1106
Fairway to Husum	1106
Örnsköldsvik – Hörnskatan	8446
Hörnskatan – Skagsudde	1006
Sea area off Skagsudde	1106
Fairway W of Ulvöarna	1006
Sea area E of Ulvöarna	1006
Ångermanälven north Sandö Bridge	8444
Ångermanälven south Sandö Bridge	8444
Härnösand – Härnön	1004
Sundsvall – Draghallan	1000
Draghallan – Åstholmsudde	1000
Off Åstholmsudde and Brämön	1000
Hudiksvallfjärden	5242
Iggesund – Agö	5242
Sandarne – Hällgrund	8342
Ljusnefjärden – Storzungfrun	8342
Gävle – Eggegrund	5142
Hallstavik – Svartklubben	5142
Stockholm – Trälhavet – Klövholmen	4041
Köping – Kvicksund	8244
Västerås – Grönsö	8244
Stockholm – Södertälje	4044
Södertälje – Fifong	4044
Fairway to Karlstad	5142