

Eisbericht Nr. 24

Amtsblatt des BSH

Jahrgang 96

Nr. 24

Friday, 30.12.2022

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Übersicht

In den Schären der Bottenwiek befindet sich bis 25 cm dickes Festeis sowie 5–15 cm dickes ebenes Eis. Weiter außerhalb treibt im Nordosten 5–15 cm dickes, sehr dichtes Eis und weiter südliche sehr lockeres dünnes Eis. In Norra Kvarken liegt bei Vaasa bis 20 cm dickes Festeis, ansonsten kommt an den Küsten Neueis oder dünnes ebenes Eis vor. In der Bottensee, dem Schärenmeer und dem Mälarsee kommt entlang der Küsten dünnes, ebenes Eis oder Neueis vor. Im Finnischen Meerbusen kommt in den östlichsten Buchten bis 20 cm dickes Festeis und in geschützten Buchten entlang der Küsten kommt Neueis und dünnes ebenes Eis vor. Im Nordosten des Rigaischen Meerbusen befindet sich 5–15 cm dickes ebenes Eis oder Festeis entlang der Küsten und der Bucht von Pärnu. In den Haffgebieten der Südöstlichen Ostsee befindet sich Neueis oder dünnes, ebenes Eis.

Overview

In the archipelagos of the Bay of Bothnia there is up to 25 cm thick fast ice as well as 5–15 cm thick level ice. Further out, there is 5–15 cm thick, very close ice in the northeast and thin, very open drift ice further south. In the Quark there is up to 20 cm thick fast ice near Vaasa and else new ice or thin level ice along the coasts. In the Sea of Bothnia, the Archipelago Sea and Lake Mälaren, there is thin level ice und new ice along the coasts. In the Gulf of Finland, there is up to 20 cm thick fast ice in the easternmost bays. In sheltered places along the coasts, there is new ice and thin level ice. In the northeastern Gulf of Riga, there is 5–15 cm thick level ice or fast ice is present along the coasts and in the Bay of Pärnu. In the lagoons of the southeastern Baltic there is new ice or thin level ice.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 10–25 cm thick fast ice and thin level ice further out. In the northeast, there is 5–15 cm thick very close ice approximately to the line Malören–Kemi-1. Further south in the east, there is thin very open to open drift ice off the fast ice. In the southern Bay of Bothnia, there is thin level ice or in

places 5–15 cm thick fast ice in the inner bays. Further out in the east there is thin very open drift ice.

Some ice formation and ice growth is expected especially in the northern part. The ice will drift to the northwest/north and from Sunday to the west.

The Quark

There is up to 20 cm thick fast or level ice in the Vaa-

sa archipelago and mostly very open, 2–10 cm

Herstellung und Vertrieb

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thick drift ice further out to about Norrskär. On the Swedish side, there is thin level ice in sheltered regions and new ice around Holmöarna.

Sea of Bothnia

In the archipelagos along the coasts there is mostly thin level ice and new ice on the Finnish side and new ice on the Swedish side. On the Ånger-

Archipelago Sea

New ice is present in sheltered inner bays.

Northern Baltic

In Lake Mälaren, 2–10 cm thick level ice is present in the western part and new ice in sheltered places.

Gulf of Finland

15–30 cm thick compact ice is present east of the island Kotlin. In the bay to the north of Kotlin, there is 10–20 cm thick very close ice. Further out, there is new ice. In the top of Vyborg Bay, there is 15–25 cm thick fast ice. In places along the northern coast and in sheltered places along the southern

Gulf of Riga

In Väinameri, there is 10–20 cm thick fast ice in sheltered bays and very close ice between Hiiumaa and Saaremaa. On the fairway it is ice free. In the Bay of Pärnu, there is a 10–20 cm thick fast ice out to the line Lindi-Uulu and further out very close

Central Baltic

New ice is present in some sheltered areas.

Southeastern Baltic

In the Curonian lagoon there is level ice and in the Vistula lagoon there is new ice.

Western and Southern Baltic

The area is ice mostly free.

Skagerrak and Kattegat

Up to 10 cm thick ice is present in some Norwegian fjords near Halden, Moss, Tønsberg and Kragerø.

Swedish Lakes

New ice and thin level ice is present in some sheltered bays of Lake Vänern.

No larger changes are expected over the weekend.

manälven, there is 5–15 cm thick fast or level ice. Some melting but else no larger changes are expected over the weekend.

Some melting is expected over the weekend.

Some melting but else no larger changes are expected over the weekend.

coast, there is thin level ice and new ice. On Lake Saimaa, there is 5–20 cm thick ice and new ice, in the southern part also places with open water. Some melting is expected in the ester parts but else no large changes over the weekend.

ice to the line port Peerni–Voiste. Latvian fairways are ice free.

Some melting but else no larger changes are expected over the weekend.

Melting continues over the weekend.

Melting continues over the weekend.

Over the weekend, some melting is expected along the coasts. In the top of Oslofjord some ice formation may occur.

Some melting 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	I	24.12.
	Raahe and Vaasa	2000 dwt	II	24.12.
	Loviisa, Kotka and Hamina	2000 dwt	II	24.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	IB	27.12.
	Kalajoki, Kokkola and Pietarsaari	2000 dwt	II	01.01.
Sweden	Karlsborg and Lulea	2000 dwt	I	25.12.
	Haraholmen and Skelleftehamn	2000 dwt	I	25.12.
	Holmsund, Rundvik, Husum and Örnsköldvik	2000 dwt	II	21.12.
	Angermanälven	2000 dwt	IC	21.12.
	Köping	1300/2000 dwt	IC/II	17.12.
	Västerås and Balsta	1300/2000 dwt	IC/II	22.12.

Estonia**Icebreakers:**

EVA-316 assists in the port of Pärnu.

Finland/Sweden

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, ATLE, OTSO and ALE assist in the Bay of Bothnia. TYRSKY assists in the Lake Saimaa.

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>
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Norway, 28.12.2022

Svinesund – Halden	31//
Mossesund	9223
Drammensfjord	3112
Tønsberg, inner harbour	8101
Skåtøysund (Kragerø)	8143
Langårsund (Kragerø)	8144

Estonia, 30.12.2022

Paernu, port and bay	7235
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Finland, 30.12.2022

Röyttä – Etukari	8346
Etukari – Ristinmatala	7756
Ajos – Ristinmatala	7756
Ristinmatala – Kemi 2	5756
Kemi 2 – Kemi 1	5756
Sea area SW of Kemi 1	3136
Kemi 2 – Ulkokrunni – Virpiniemi	7756
Oulu harbours – Kattilankalla	8746
Kattilankalla – Oulu 1	2126
Sea area SW of Oulu 1	3136
High Sea N of the latitude of Marjaniemi	2126
Raahe harbour – Heikinkari	5145
Heikinkari – Raahe lighthouse	2125
Raahe lighthouse – Nahkiainen	2125
Latitude Marjaniemi – Ulkokalla, Sea	2125
Rahja harbour – Välimatala	2121
Vaelimatala to line Ulkokalla – Ykskivi	2121

Sea betw. lat. of Ulkokalla –Pietarsaari	2121
Ykspihlaja – Repskär	5142
Repskär – Kokkola lighthouse	2121
Pietarsaari – Kallan	5142
Sea area off Kallan	2121
Sea area ENE of Nordvalen	2121
Sea area Nordvalen to W of Norrskär	2125
Vaskiluoto – Ensten	5145
Ensten – Vaasa lighthouse	2125
Vaasa lighthouse – Norrskär	2125
Naantali and Turku – Rajakari	4042
Inkoo a. Kantvik – sea area Porkkala	4042
Helsinki harbours – Harmaja	4042
Valko Harbour – Täktarn	5145
Kotka – Viikari	5042
Hamina – Suurmusta	5145

Russian Federation, 30.12.2022

Port of St. Petersburg	63/3
St. Petersburg – E-point island Kotlin	53/2
E-point Kotlin – long. lighth. Tolbuhkin	4101
Lighth. Tolbuhkin – lighth. –Šepelevskij	2001
Vyborg, port and bay	83/3

Sweden, 30.12.2022

Karlsborg – Malören	8346
Luleå – Björnklack	8346
Sandgrönn fairway	5136
Haraholmen – Nygrån	8246

Skelleftehamn – Gåsören	5136
Sea area off Bjuröklubb	5246
Umeå – Väktaren	5146
Örnsköldsvik – Hörnskatan	5146
Hörnskatan – Skagsudde	5146
Ångermanälven north Sandö Bridge	8244
Ångermanälven south Sandö Bridge	8244
Sundsvall – Draghällan	5041
Hudiksvallfjärden	5142
Iggesund – Agö	5142
Sandarne – Hällgrund	4041
Ljusnefjärden – Storjungfrun	4041
Gävle – Eggegrund	5142
Hallstavig – Svartklubben	4041
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Fairway to Karlstad	5041
Fairway to Kristinehamn	4041