

Eisbericht Nr. 22

Amtsblatt des BSH

Jahrgang 96

Nr. 22

Wednesday, 28.12.2022

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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 Neueis entlang der Eiskante. 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 5–15cm dickes ebenes Eis oder Festeis und Neueis entlang der Küsten und der Bucht von Pärnu. Weiter südlich kommt örtlich in geschützten Buchten Neueis vor.

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 new ice along the ice edge in the east. 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 and new ice is present along the coasts and in the Bay of Pärnu. Further south, there is new ice in some inner sheltered areas.

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 5–15cm thick very close ice approximately to the line Malören–Kemi-1 and Oulu-1. There is 10–20 cm thick fast ice between Hailuoto and Oulu. In the southern

Bay of Bothnia, there is thin level ice or in places 5–15 cm thick fast ice in the inner bays. Off the ice on the Finnish side there is a belt of new ice. Ice formation and ice growth is expected the coming day. The ice will drift slightly to the north/northwest.

The Quark

There is up 20 cm thick fast or level ice in the Vaasa archipelago and very open drift ice further out to

Norrskär. On the Swedish side, there is thin level ice in sheltered regions and new ice around

Herstellung und Vertrieb

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Holmöarna.

Some ice formation and ice growth is expected the

coming day.

Sea of Bothnia

In the archipelagos along the coasts there is mostly thin level ice on the Finnish side and new ice on the Swedish side. On the upper Ångermanälven, there is 5–15 cm thick fast or level ice and new ice

is present in the lower part.

Some new ice formation may occur especially along the Swedish coast but overall no larger changes are expected.

Archipelago Sea

New ice is present in sheltered inner bays.

No larger change is expected the coming day.

Northern Baltic

In Lake Mälaren 2-10 cm thick level ice is present in the western part.

Some new ice may form in the Mälaren, but else no larger change is expected the coming day.

Gulf of Finland

10–25 cm thick compact ice is present east of the island Kotlin. In the bay to the north of Kotlin there is 5–15 cm thick very close ice along the coast. 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 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.

No major changes are expected the coming day.

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 ice to the line northern point of island Manilaid–Voiste. Latvian fairways are ice free.

No larger changes are expected the coming day.

Central Baltic

New ice is present in some sheltered areas.

Melting is expected the coming day.

Southeastern Baltic

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

Melting is expected the coming day.

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.

Some melting but overall no larger changes are expected the coming day.

Swedish Lakes

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

No larger changes are expected the coming day.

Dr. W. Aldenhoff

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 Örnköldvik	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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Estonia, 28.12.2022

Paernu, port and bay 7235

Finland, 28.12.2022

Röyttä – Etukari 8346

Etukari – Ristinmatala 8346

Ajos – Ristinmatala 8346

Ristinmatala – Kemi 2 5156

Kemi 2 – Kemi 1 5156

Sea area SW of Kemi 1 5156

Kemi 2 – Ulkokrunni – Virpiniemi 8746

Oulu harbours – Kattilankalla 8746

Kattilankalla – Oulu 1 5146

Sea area SW of Oulu 1 5156

High Sea N of the latitude of Marjaniemi 1116

Raahe harbour – Heikinkari 5145

Heikinkari – Raahe lighthouse 4045

Raahe lighthouse – Nahkiainen 4045

Latitude Marjaniemi – Ulkokalla, Sea 1005

Rahja harbour – Välimatala 4042

Vaelimatala to line Ulkokalla – Ykskivi 1000

Sea betw. lat. of Ulkokalla – Pietarsaari 4042

Ykspihlaja – Repskär 5142

Repskär – Kokkola lighthouse 4042

Pietarsaari – Kallan 5142

Sea area off Kallan 4042

Vaskiluoto – Ensten 5145

Ensten – Vaasa lighthouse 2125

Vaasa lighthouse – Norrskär 2125

Kaskinen – Sälgrund 4042

Sea area off Sälgrund 4042

Pori harb. to line Pori lighth. – Säppi 4042

Rauma, Harbour – Kymäpihlaja 4042

Naantali and Turku – Rajakari 4042

Inkoo a. Kantvik – sea area Porkkala 4042

Valko Harbour – Täktarn 5145

Kotka – Viikari 1000

Hamina – Suurmusta 5145

Latvia, 26.12.2022

Riga to the Cape of Mersrags, fairway 1000

Norway, 28.12.2022

Svinesund – Halden 31//

Mossesund 9223

Drammensfjord 3112

Tønsberg, inner harbour 8101

Skåtøysund (Kragerø) 8143

Langårsund (Kragerø) 8144

Russian Federation, 28.12.2022

Port of St. Petersburg 63/3

St. Petersburg – E-point island Kotlin 53/2

E-point Kotlin – long. lighth. Tolbukhin 4001

Vyborg, port and bay 83/3

Sweden, 28.12.2022

Karlsborg – Malören 8346

Luleå – Björnklack	8346
Sandgrönn fairway	5246
Haraholmen – Nygrån	8246
Skelleftehamn – Gåsören	5246
Sea area off Gåsören	2126
Sea area off Bjuröklubb	5246
Western Quark (W of Holmöarna)	2126
Umeå – Väktaren	5046
Örnsköldsvik – Hörnskatan	5146
Hörnskatan – Skagsudde	5146
Ångermanälven north Sandö Bridge	8244
Ångermanälven south Sandö Bridge	8244
Härnösand – Härnön	4044
Sundsvall – Draghällan	4041
Hudiksvallfjärden	4041
Iggesund – Agö	4041
Sandarne – Hällgrund	4041
Ljusnefjärden – Störjungfrun	4041
Gävle – Eggegrund	5142
Hallstavig – Svartklubben	4041
Köping – Kvicksund	5142
Västerås – Grönsö	5142
Södertälje – Fifong	4041
Karlskrona – Aspö	4041
Fairway to Karlstad	5041
Fairway to Kristinehamn	4041