

Eisbericht Nr. 25

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1

Übersicht

In den Schären der Bottenwiek befindet sich bis 30 cm dickes Festeis. Weiter außerhalb treibt im Nordosten 5–20 cm dickes, sehr dichtes Eis und im Westen 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 30 cm dickes Festeis und in geschützten Buchten entlang der Küsten kommt Neueis und dünnes ebenes Eis vor. Im Nordosten des Rigaischen Meerbusen befindet sich 10–20 cm dickes ebenes Eis oder Festeis entlang der Küsten und der Bucht von Pärnu. Im Kurischen Haff befindet sich sehr dichtes Treibeis.

Overview

In the archipelagos of the Bay of Bothnia there is up to 30 cm thick fast ice. Further out, there is 5–20 cm thick, very close ice in the northeast and in the west, there is thin very open ice. 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 30 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 Curonian lagoon there is very close drift ice.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 10–30 cm thick fast ice. Further out in the northeast, there is 5–20 cm thick close to very close drift ice approximately to the line Malören–Kemi-1 and new ice formation along the ice edge. Further out in the west, there is 2–10 cm thick very

open drift 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 new ice formation.

Some ice formation and ice growth is expected the coming day. The ice drifts slightly to the east.

The Quark

There is up to 20 cm thick fast or level ice in the Vaasa archipelago and mostly very open, 2–10 cm thick drift ice further out to about Vaasa lighthouse. On the Swedish side, there is thin level ice in shel-

tered regions and new ice around Holmöarna.

Some new ice formation and ice growth is expected the coming day.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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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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Sea of Bothnia

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

manälven, there is 5–15 cm thick fast or level ice. Some new ice formation may occur along the coasts the coming day.

Archipelago Sea

New ice is present in sheltered inner bays.

No major changes are expected the coming day.

Northern Baltic

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

es.
No major changes are expected the coming day.

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. Along the northern coast and in some 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. Some new ice formation may occur along the coasts.

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 port Peerni–Voiste. Latvian fairways are ice free.
No major changes are expected the coming day.

Central Baltic

New ice is present in few sheltered areas.

Melting continues the coming day.

Southeastern Baltic

In the Curonian lagoon, there is very close ice and in Vistula lagoon there is thin rotten ice in the

northern part.
Melting continues 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 new ice formation is expected the coming day along the Norwegian coast.

Swedish Lakes

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

Some new ice formation is possible in the northern part.

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.
	Tornio, Kemi and Oulu	2000 dwt	IB	07.01.
	Raahe and Vaasa	2000 dwt	II	24.12.
	Kalajoki, Kokkola and Pietarsaari	2000 dwt	II	01.01.
	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.
Sweden	Lake Saimaa and Saimaa Canal	2000 dwt	IB	27.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	IA	05.01.
	Karlsborg and Lulea	2000 dwt	IC	25.12.
	Haraholmen and Skelleftehamn	2000 dwt	IC	25.12.
	Holmsund, Rundvik, Husum and Örnköldvik	2000 dwt	II	21.12.
	Angermanälven	2000 dwt	IC	21.12.
	Angermanälven	2000 dwt	IB	07.01.
Köping	1300/2000 dwt	IC/II	17.12.	
Köping	2000 dwt	IC	07.01.	
Västeras and Balsta	1300/2000 dwt	IC/II	22.12.	
Västeras	2000 dwt	IC	07.01.	

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, 02.01.2023

Paernu, port and bay 7235

Hamina – Suurmusta

5145

Finland, 02.01.2023

Röyttä – Etukari 8346

Etukari – Ristinmatala 7756

Ajos – Ristinmatala 7756

Ristinmatala – Kemi 2 5756

Kemi 2 – Kemi 1 5756

Sea area SW of Kemi 1 0//6

Kemi 2 – Ulkokrunni – Virpiniemi 7756

Oulu harbours – Kattilankalla 8746

Kattilankalla – Oulu 1 3136

Sea area SW of Oulu 1 0//6

Raahe harbour – Heikinkari 0//5

Heikinkari – Raahe lighthouse 0//5

Raahe lighthouse – Nahkiainen 0//5

Rahja harbour – Välimatala 3025

Ykspihlaja – Repskär 5145

Repskär – Kakkola lighthouse 0//5

Pietarsaari – Kallan 5145

Sea area ENE of Nordvalen 0//5

Vaskiluoto – Ensten 5145

Ensten – Vaasa lighthouse 2125

Vaasa lighthouse – Norrskär 2005

Naantali and Turku – Rajakari 3001

Inkoo a. Kantvik – sea area Porkkala 3001

Valko Harbour – Täktarn 5145

Kotka – Viikari 4042

Norway, 02.01.2023

Svinesund – Halden 31//

Mossesund 9223

Drammensfjord 3112

Tønsberg, inner harbour 8101

Langårsund (Kragerø) 8144

Russian Federation, 02.01.2023

Port of St. Petersburg 63/3

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

E-point Kotlin – long. lighth. Tolbukhin 4101

Vyborg, port and bay 83/3

Sweden, 02.01.2023

Karlsborg – Malören 8346

Sea area off Malören 5136

Luleå – Björnklack 8346

Sandgrönn fairway 8346

Rödallen – Norströmsgrund 2126

Haraholmen – Nygrån 8246

Skelleftehamn – Gåsören 5246

Sea area off Bjuröklubb 5246

Örnköldsvik – Hörnskatan 5146

Ångermanälven north Sandö Bridge 8244

Ångermanälven south Sandö Bridge 8244

Sundsvall – Draghallan 5041

Hudiksvallfjärden 5142

Iggesund – Agö	5142
Sandarne – Hällgrund	4041
Ljusnefjärden – Storsjungfrun	4041
Gävle – Eggegrund	5142
Hallstavik – Svartklubben	4041
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Fairway to Karlstad	5041
Fairway to Kristinehamn	4041