

Eisbericht Nr. 19

Amtsblatt des BSH

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1

Übersicht

In den Schären der Bottenwiek befindet sich bis 25cm dickes Festeis sowie 5-15cm dickes ebenes Eis. Weiter außerhalb treibt im Nordosten 5-15cm dickes, sehr dichtes Eis; ansonsten Neueis und dünnes Eis bis 5-15sm Entfernung der Küste. In Norra Kvarken liegt bei Vaasa 10cm dickes Festeis, ansonsten kommt an den Küsten Neueis vor. In der Bottensee, dem Schärenmeer und dem Mälarsee kommt an geschützten Stellen dünnes ebenes Eis und entlang den Küsten Neueis. Im Finnischen Meerbusen kommt in den östlichsten Buchten bis 20cm dickes Festeis, außerhalb davon und in geschützten Buchten entlang der Küsten kommt Neueis vor. Im Nordosten des Rigaischen Meerbusen befindet sich 5-15cm dickes ebenes Eis oder Neueis entlang der Küsten und der Bucht von Pärnu. Weiter südlich, bis hin zur westlichen Ostsee, kommt in geschützten inneren Bereichen örtlich Neueis und morsches Eis vor.

Overview

In the archipelagos of the Bay of Bothnia there is up to 25cm thick fast ice as well as 5-15cm thick level ice. Further out there 5-15cm thick, very close ice in the northeast, else there is new ice and thin ice out to about 5-15nm distance from the shore. In the Quark there is 10cm thick fast ice near Vaasa and else new ice along the coasts. In the Sea of Bothnia, the Archipelago Sea and Lake Mälaren, there is thin level ice in sheltered areas and new ice along the coast. In the Gulf of Finland, there is up to 20cm thick fast ice in the easternmost bays. Outside the fast ice and in sheltered places along the coasts there is new ice. In the northeastern Gulf of Riga 5-15cm thick level ice or new ice is present along the coasts and in the Bay of Pärnu. Further south, all the way to the western Baltic, there is new ice or rotten ice in inner sheltered areas.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 10–25 cm thick fast and 5-15cm thick level ice. Further out, there is new ice and 5-15cm thick very close ice east of 24°15'N and somewhat north of the line Kemi-1 to Malören. Further out in the west there is thin close ice to east of Rödkallen and to west of Nörströmsgrund and Simpgrundet. There is 10–20 cm thick fast ice between Hailuoto and Oulu. Level ice, and in places 5-15cm thick fast ice, is

present in the inner archipelagos south of about 65°N. Further out a 5nm wide zone of new ice on the Finnish side and on the Swedish side there is 3-7cm thick very open ice out to 5nm from the coast.

Ice formation is expected and the ice will drift eastwards. Some ice growth but overall no major change in the ice distribution is expected.

The Quark

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

www.bsh.de/ice

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There is up to 10cm thick fast or level ice in the Vasa archipelago. On the Swedish side thin level ice is present in sheltered regions and new ice and very open

thin ice further out and around Holmöarna. Some ice formation will occur, but overall no larger change is expected.

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 ice may again form in the west and north, but overall no larger change is expected.

Archipelago Sea

New ice is present in sheltered inner bays. Some

melting may occur.

Northern Baltic

In Lake Mälaren 2-10cm thick level ice is present in the western part and elsewhere at sheltered

regions at the coast new ice in places. Some melting is expected.

Gulf of Finland

10-25cm thick compact ice is present east of the island Kotlin, further out to about 29°23'E there is open water with nilas and new ice. In the top of Vyborg Bay, there is 15–25 cm thick fast ice and in the entrance there is very open new 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. Some melting may occur, but overall no larger change is expected.

Gulf of Riga

In Väinameri there is fast ice and light nilas, on the fairways there is open water. In the Bay of Pärnu, there is a 10–15 cm thick fast ice out to the line Lindi-Uulu (~58°17'N) and further out very close

nilas to the line Liu-Voiste (~58°12'N). Further south open water. In the port of Riga and further on the fairway to Mersrags is open water. Some melting is expected.

Central Baltic

New ice in some sheltered areas. Some melting is

expected.

Southeastern Baltic

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

expected.

Western Baltic

Rotten ice is present in the Stettin lagoon, the Peenestrom as well as the inner water around

Rügen, south of Darss and Zingst and on the Schlei. Further ice melt is expected.

Skagerrak and Kattegat

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

No larger change is expected.

Swedish Lakes

New ice and thin level ice is present in some shel-

tered areas. Some ice melt is expected.

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1600 kW	1 C	23.12.
Finland	Tornio and Kemi	2000 dwt	II	01.12.
	Oulu	2000 dwt	II	12.12.
	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	IC	22.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	IB	27.12.
Sweden	Karlsborg and Lulea	2000 dwt	II	05.12.
	Karlsborg and Lulea	2000 dwt	I	25.12.
	Haraholmen and Skelleftehamn	2000 dwt	II	12.12.
	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.
	Västeras and Balsta	1300/2000 dwt	IC/II	22.12.
	Trollhätte Canal and Göta Älv	1300/2000 dwt	IC/II	17.12.
	Vänern	1300/2000 dwt	IC/II	17.12.

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:

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 , 22.12.2022

Paernu, port and bay	7233
Moonsund	2101

Finland , 22.12.2022

Röyttä – Etukari	8345
Etukari – Ristinmatala	7745
Ajos – Ristinmatala	7745
Ristinmatala – Kemi 2	5745
Kemi 2 – Kemi 1	5745
Sea area SW of Kemi 1	2125
Kemi 2 – Ulkokrunni – Virpiniemi	7745
Oulu harbours – Kattilankalla	8745
Kattilankalla – Oulu 1	5245
Sea area SW of Oulu 1	5745
Raahe harbour – Heikinkari	3132
Heikinkari – Raahe lighthouse	3132
Raahe lighthouse – Nahkiainen	1000
Rahja harbour – Välimatala	2021
Vaelimatala to line Ulkokalla – Ykskivi	1000
Ykspihlaja – Repskär	5142
Repskär – Kokkola lighthouse	4042
Pietarsaari – Kallan	5142
Vaskiluoto – Ensten	5142
Rauma, Harbour – Kymäpihlaja	3001
Uusikaupunki harbour – KIRSTA	3001
Helsinki harbours – Harmaja	1000
Valko Harbour – Täktarn	5042
Kotka – Viikari	5142

Hamina – Suurmusta 5042

Germany , 22.12.2022

Stralsund – Palmer Ort	6000
Wolgast – Peenemünde	1000

Latvia , 22.12.2022

Port of Riga	1000
Riga to the Cape of Mersrags, fairway	1000

Norway , 22.12.2022

Svinesund – Halden	31//
Mossesund	9223
Drammensfjord	3212
Tønsberg, inner harbour	8101
Skåtøysund (Kragerø)	8143
Langårsund (Kragerø)	8144

Russian Federation , 22.12.2022

Port of St. Petersburg	63/3
St. Petersburg – E-point island Kotlin	53/2
E-point Kotlin – long. lighth. Tolbuhkin	3001
Lighth. Tolbuhkin – lighth. –Šepelevskij	20/0
Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	2000

Sweden , 22.12.2022

Karlsborg – Malören	8346
Luleå – Björnklack	8246

Sandgrönn fairway	4156
Rödkaullen – Norströmsgrund	4156
Haraholmen – Nygrån	4156
Sea area off Nygrån	4156
Skelleftehamn – Gåsören	4156
Sea area off Gåsören	4156
Sea area off Bjuröklubb	4156
Western Quark (W of Holmöarna)	4046
Umeå – Väktaren	5046
Fairway to Husum	2126
Örnsköldsvik – Hörnskatan	5146
Hörnskatan – Skagsudde	5146
Ångermanälven north Sandö Bridge	8244
Ångermanälven south Sandö Bridge	8244
Härnösand – Härnön	2124
Sundsvall – Draghällan	4041
Draghällan – Åstholmsudde	4041
Hudiksvallfjärden	4041
Iggesund – Agö	4041
Sandarne – Hällgrund	4041
Ljusnefjärden – Storjungfrun	4041
Gävle – Eggegrund	5142
Öregrundsgrepen	4041
Hallstavik – Svartklubben	4041
Köping – Kvikksund	5144
Västerås – Grönsö	5142
Stockholm – Södertälje	4041
Södertälje – Fifong	4041
Norrköping – Hargökalv	4041
Oskarshamn – Furön	4041
Fairway to Karlstad	5046
Fairway to Kristinehamn	4046