

Eisbericht Nr. 15

Amtsblatt des BSH

Jahrgang 98

Nr. 15

Friday, 27.12.2024

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Übersicht

In der Bottenwiek liegt in den nördlichen Schären 5–20 cm dickes Festeis gefolgt von ebenem Eis und anschließend örtlich sehr lockeres bis sehr dichtes, dünnes Eis. Weiter südlich kommt bis in die Bottensee hinein dünnes ebenes Eis und Neueis in Schären und Buchten vor. Im östlichen Finnischen Meerbusen kommt 5–10 cm dickes Eis von St.Petersburg nach Kotlin und am Ende der Vyborg-Bucht vor. Ansonsten kommt in geschützten Gebieten örtlich Neueis an den Küsten des Schärenmeers, der Ålandsee, dem Mälarsee sowie im Norden des Finnischen Meerbusens, vor.

Overview

In the Bay of Bothnia, there is 5–20 cm thick, fast ice in the northern archipelagos, followed by level ice and further out locally very open to very close, thin ice. Further south there is thin level ice and new ice in bays and archipelagos down to the Sea of Bothnia. In the eastern Gulf of Finland, there is 5–10 cm thick ice from St.Petersburg to Kotlin and in the top of Vyborg bay. Else, there is new ice at some sheltered places along the northern coast of the Gulf of Finland, the Archipelago Sea, the Åland Sea and Lake Mälaren.

Bay of Bothnia

In the inner archipelagos of the norther Bay of Bothnia there is 5–20 cm thick fast and further out in the archipelago there is 5-15cm thick level ice. In the northeast there is 5-15cm thick, very close ice at the edge of the level ice. the ice is rated in places. Outside the narrower fast ice in the northwest there are stripes of very open to very close, thin ice drifting towards the northeast. In the south there is thin level ice in the archipelagos in the east and

further out thin shuga and some stripes of thin ice off the coast.

Over the weekend the expected air temperature fluctuates around 0°C with a westerly to south-westerly wind. Some ice may form in the night but the main expected change is due to the northeasterly ice drift with a possible further ridging and rafting at the ice edge in the northeast.

The Quark

In the Vaasa archipelago, there is 5-15cm thick level ice to west of Störhasten and further out to Ensten there is thin shuga in places. Along the Swedish coast, there is thin level ice and new ice in sheltered places.

Due to westerly to southwesterly winds the tem-

perature at the coast is expected to be slightly above 0°C in the east and slightly below in the west. So, some new ice may form over the weekend in the west, but overall no larger changes are expected. .

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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Sea of Bothnia

In the north there is thin level ice and new ice in inner bays, further south, there is new ice at some sheltered places. 5–15 cm thick, level ice is present on Ångermanälven.

With temperatures mostly above 0°C in the east and slightly colder at the western coast, no larger change is expected over the weekend.

Åland Sea

New ice is present in some sheltered places.

Ice melt is expected over the weekend.

Archipelago Sea

New ice is present in some sheltered places.

Ice melt is expected over the weekend.

Gulf of Finland

From St. Petersburg Kotlin there is very close, 5–10 cm thick ice. In the top of Vyborg Bay, there is 5-10cm thick level ice. In sheltered places along the northern coast there is new ice. In Lake Saimaa and Saimaa Canal, there is thin level ice

and new ice.

With temperatures first around 0°C and later slightly above 0°C no larger change is expected over the weekend.

Northern Baltic

In Lake Mälaren new ice is still present in places.

Ice melt is expected over the weekend.

Dr. J.Holfort

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi, Oulu, Kokkola, Pietarsaari and Vaasa	2000 dwt	II	21.12.
	Tornio, Kemi and Oulu	2000 dwt	I	31.12.
	Raahe and Kalajoki	2000 dwt	II	25.12.
	Raahe	2000 dwt	I	31.12.
	Lake Saimaa	2000 dwt	II	11.12.
	Saimaa Canal	2000 dwt	II	11.12.
Sweden	Karlsborg and Lulea	2000 dwt	II	07.12.
	Haraholmen	2000 dwt	II	22.12.
	Skeleftehamn	2000 dwt	II	23.12.
	Ångermanälven	2000 dwt	IC	22.12.
	Köping	1300/2000 dwt	IC/II	22.12.

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 and ALE assist in the Bay of Bothnia. **TYRSKY** assists in the Lake Saimaa.

Russia

Icebreakers: SEMYON DEZHNEV and K. PLAKHIN assist vessels to the port of St. Petersburg. K. IZMAYLOV assists to Vyborg and Vysotsk.

Baltic Sea Ice Code

First number: A_B Amount and arrangements of sea ice 0 Ice free 1 Open water – concentration less than 1/10 2 Very open ice - concentration 1/10 to 3/10 3 Open ice – concentration 4/10 to 6/10 4 Close ice – concentration 7/10 to 8/10 5 Very close ice – concentration 9/10 to 9+/10 6 Compact ice, including consolidated ice – concentration 10/10 7 Fast ice with drift ice outside 8 Fast ice 9 Lead in very close or compact drift ice or along the fast ice edge / Unable to report Third number: T_B Topography or form of ice 0 Pancake ice, ice cakes, brash ice – less than 20 m across 1 Small ice floes – 20 to 100 m across 2 Medium ice floes – 100 to 500 m 3 Big ice floes – 500 to 2000 m across 4 Vast or giant ice floes – more than 2000 m across – or level ice 5 Rafted ice 6 Compact slush or shuga, or compacted brash ice 7 Hummocked or ridged ice 8 Thaw holes or many puddles on the ice 9 Rotten ice / No information or unable to report	Second number: S_B Stage of ice development 0 New ice or dark nilas (less than 5 cm thick) 1 Light nilas (5 - 10 cm thick) or ice rind 2 Grey ice (10 - 15 cm thick) 3 Grey-white ice (15 - 30 cm thick) 4 White ice, first stage (30 - 50 cm thick) 5 White ice, second stage (50 - 70 cm thick) 6 Medium first year ice (70 - 120 cm thick) 7 Ice predominantly thinner than 15 cm with some thicker ice 8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice 9 Ice predominantly thicker than 30 cm with some thinner ice / No information or unable to report Fourth number: K_B Navigation conditions in ice 0 Navigation unobscured 1 Navigation difficult or dangerous for wooden vessels without ice sheathing 2 Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable 3 Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice 4 Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker 5 Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size 6 Icebreaker assistance can only be given to vessels of special ice class and of special size 7 Icebreaker assistance can only be given to vessels after special permission 8 Navigation temporarily closed 9 Navigation has ceased / Unknown
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Finland, 27.12.2024

Röyttä – Etukari	8745
Etukari – Ristinmatala	5155
Ajos – Ristinmatala	5155
Ristinmatala – Kemi 2	5155
Kemi 2 – Kemi 1	0//5
Sea area SW of Kemi 1	0//5
Kemi 2 – Ulkokorunni – Virpiniemi	8745
Oulu harbours – Kattilankalla	5155
Kattilankalla – Oulu 1	5155
Sea area SW of Oulu 1	0//5
High Sea N of the latitude of Marjaniemi	1105
Raahe harbour – Heikinkari	5155
Heikinkari – Raahe lighthouse	5155
Raahe lighthouse – Nahkiainen	0//5
Rahja harbour – Välimatala	2125
Ykspihlaja – Repskär	5145
Repskär – Kokkola lighthouse	2125
Sea area off Kokkola lighthouse	0//5
Pietarsaari – Kallan	5155
Sea area off Kallan	0//5
Sea lat. Pietarsaari – NE Nordvalen	0//5
Vaskiluoto – Ensten	5155
Ensten – Vaasa lighthouse	2025

Russian Federation, 27.12.2024

Port of St. Petersburg	510/
St. Petersburg – E-point island Kotlin	510/
E-point Kotlin – long. lighth. Tolbukhin	510/

Vyborg, port and bay

810/

Sweden, 27.12.2024

Karlsborg – Malören	5256
Sea area off Malören	1206
Luleå – Björnklack	8346
Björnklack – Farstugrunden	5256
E and SE of Farstugrunden	1206
Sandgrönn fairway	5256
Rödskallen – Norströmsgrund	4256
Haraholmen – Nygrån	5256
Sea area off Nygrån	2226
Skelleftehamn – Gåsören	4046
Sea area off Gåsören	1206
Sea area off Bjuröklubb	5142
Umeå – Väktaren	5142
Örnsköldsvik – Hörnskatan	4041
Ångermanälven north Sandö Bridge	5244
Ångermanälven south Sandö Bridge	5244
Härnösand – Härnön	4041
Sundsvall – Draghällan	5041
Draghällan – Åstholmsudde	5041
Hudiksvallfjärden	4041
Iggesund – Agö	4041
Köping – Kvicksund	5144
Fairway to Karlstad	4041