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BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Eisbericht Nr. 21

Amtsblatt des BSH

Jahrgang 98	Nr. 21	Wednesday, 08.01.2025	1

Übersicht

In der Bottenwiek liegt in den nördlichen Schären 20–35 cm dickes Festeis gefolgt von ebenem Eis und anschließend dichtes bis sehr dichtes, dünnes Eis entlang der Küste bis in die Bottensee. Im östlichen Finnischen Meerbusen kommt 5–10 cm dickes Eis von St.Petersburg nach Kotlin und 5-15 cm dickes Festeis am Ende der Vyborg-Bucht vor. Ansonsten tritt ebenes Eis und Neueis lokal in geschützten Gebieten an den Küsten des Schärenmeeres, der Ålandsee, sowie im nördlichen Finnischen Meerbusen und im Rigaischen Meerbusen auf.

Overview

In the Bay of Bothnia, there is 20–35 cm thick, fast ice in the northern archipelagos, followed by level ice and further out close to very close, thin ice along the coasts 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 5-15 cm thick fast ice. Else, there is thin level ice and new ice at some sheltered places along the northern coast of the Gulf of Finland, the Archipelago Sea, the Åland Sea, Lake Mälaren and the Gulf of Riga.

Bay of Bothnia

In the northern Bay of Bothnia 20-35 cm thick fast ice approximately to Kemi 3 and Kattilankalla. Farther out 10-25 cm thick, in places rafted ice, new ice and shuga approximately 15 nautical miles to southwest of Bothnia-buoy. Off Raahe 5-20 cm thick ice approximately to Jaakko. Farther out first shuga and then thin drift ice to west of Nahkiainen.

In the southern Bay of Bothnia 5-20 cm thick fast ice in the archipelago. Off the coast thin drift ice and shuga. With moderate to light frost expected over the next few days, new ice formation and ice growth will occur.

The Quark

In the Vaasa archipelago, there is 5-15 cm thick of fast ice as far as Ensten. Further out thin open and very open drift ice.

With light to moderate frost expected the next days, new ice formation will occur. Winds from the north-east, ice drifting to south-west is possible.

Sea of Bothnia

In the west, there is new ice along the coast. On the Ångermanälven there is 5-20 cm thick fast ice. To the east, there is thin level ice along the coast.

With mostly light frost some new ice formation at the coast is expected.

Herstellung und Vertrieb
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Åland Sea
New ice is present in some sheltered places. With air temperatures around 0°C no larger changes are expected.

Archipelago Sea
New ice is present along the eastern coast. With air temperatures around 0°C no larger changes are expected.

Gulf of Finland
From St Petersburg to Kotlin there is very close ice, 5-10 cm thick, and new ice further out. In the upper part of Vyborg Bay, there is 5-15 cm of fast ice. Along the north coast, there is thin level ice in inner bays and new ice further out. In Lake Saimaa and Saimaa Canal, there is thin level ice with local areas of open water due to currents. With air temperatures around 0°C, no major changes are expected.

Gulf of Riga
In Väinameri, there is new ice and thin level ice in some sheltered areas. With temperatures slightly above the freezing point, some slow ice melt is possible the coming day.

Northern Baltic
On Lake Mälaren there is thin level ice that is 2-10 cm thick. Locally there is very open ice present. In sheltered places along the coast new ice formation. With air temperatures around 0°C no larger changes are expected.

Skagerrak and Kattegat
New ice may be found in very few sheltered Norwegian fjords. With air temperatures around 0°C no larger changes are expected.

Swedish Lakes
New ice is present in the northeast and at some sheltered places of Lake Vänern. With air temperatures around 0°C no larger changes are expected.

Central Baltic
New ice is present at some sheltered places on the Swedish coast. With temperatures slightly above the freezing point, some slow ice melt is possible the coming day.

X. Lange

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi, Oulu and Raahe	2000 dwt	IB	08.01.
	Kalajoki	2000 dwt	I	07.01.
	Kokkola, Pietarsaari and Vaasa	2000 dwt	I	07.01.
	Kaskinen, Kotka and Hamina	2000 dwt	II	07.01.
	Lake Saimaa and Saimaa Canal	2000 dwt	II	11.12.
	Lake Saimaa and Saimaa Canal	**2000 dwt**	**I**	**11.01.**
Sweden	Karlsborg and Luleå	2000 dwt	IB	07.01.
	Haraholmen and Skelleftehamn	2000 dwt	IC	07.01.
	Holmsund, Rundvik, Husum Örnskölds-vik and Köpmanholmen	2000 dwt	II	07.01.
	Ångermanälven	2000 dwt	IB	07.01.
	Härnösand, Söråker, Sundsvall, Stocka, Hudiksvall, Iggesund, Söder-hamn, Orrskär, Norrsundet, Gävle, Skutskär, Öregrund, Hargshamn, Hallstavik, Grisslehamn, Kappelskär, Stockholm, Nynäshamn and Söder-tälje	**2000 dwt**	**II**	**11.01.**
	Köping and Västerås	2000 dwt	IC	07.01.
	Oxelösund, Norrköping, Stenungsund and Uddevalla	**2000 dwt**	**II**	**11.01.**
	Trollhätte Canal and Göta Älv	**2000 dwt**	**II**	**11.01.**
	Vänern	**2000 dwt**	**II**	**11.01.**

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, ALE, OTSO and SISU assist in the Bay of Bothnia. ZEUS assists in the Quark. 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 foes – 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 after special permission
8 Navigation temporarily closed
9 Navigation has ceased
/ Unknown

Estonia, 07.01.2025

Paernu, port and bay	1//0
Moonsund	1//0

Finland, 07.01.2025

Röyttä – Etukari	8346
Etukari – Ristinmatala	7776
Ajos – Ristinmatala	7776
Ristinmatala – Kemi 2	5776
Kemi 2 – Kemi 1	5746
Sea area SW of Kemi 1	5756
Kemi 2 – Ulkokrunni – Virpiniemi	7776
Oulu harbours – Kattilankalla	8376
Kattilankalla – Oulu 1	5756
Sea area SW of Oulu 1	5746
High Sea N of the latitude of Marjaniemi	5746
Raahe harbour – Heikinkari	8246
Heikinkari – Raahe lighthouse	5246
Raahe lighthouse – Nahkiainen	5246
Latitude Marjaniemi – Ulkokalla, Sea	5746
Rahja harbour – Välimatala	5756
Vaelimatala to line Ulkokalla – Ykskivi	4146
Sea betw. lat. of Ulkokalla –Pietarsaari	4146
Ykspihlaja – Repskär	8746
Repskär – Kokkola lighthouse	4146
Sea area off Kokkola lighthouse	4146
Pietarsaari – Kallan	8746
Sea area off Kallan	4146
Sea lat. Pietarsaari – NE Nordvalen	4146
Sea area ENE of Nordvalen	3146
Sea area Nordvalen to W of Norrskär	3146
Vaskiluoto – Ensten	8146
Ensten – Vaasa lighthouse	5146
Vaasa lighthouse – Norrskär	4146
Sea area SW of Norrskär	3146
Kaskinen – Sälgrund	4145
Sea area off Sälgrund	4145
Pori harb. to line Pori lighth. – Säppi	3001
Rauma, Harbour – Kylmäpihlaja	3001
Naantali and Turku – Rajakari	4041
Inkoo a. Kantvik – sea area Porkkala	4041
Helsinki harbours – Harmaja	4041
Valko Harbour – Täktarn	5142
Kotka – Viikari	4045
Hamina – Suurmusta	4045
Suurmusta – Merikari	0//5

Russian Federation, 06.01.2025

Port of St. Petersburg	530/
St. Petersburg – E-point island Kotlin	530/
E-point Kotlin – long. lighth. Tolbuhkin	530/
Vyborg, port and bay	820/
Island Vichrevoj – Island Sommers	300/
Strait Bjerkesund	300/
E-point Bol'šoj Ber'ozovyj – Šepelevskij	300/

Sweden, 07.01.2025

Karlsborg – Malören	8446
Sea area off Malören	5246
Luleå – Björnklack	8346
Björnklack – Farstugrunden	5246
E and SE of Farstugrunden	5246
Sandgrönn fairway	5346
Rödkallen – Norströmsgrund	5246
Haraholmen – Nygrån	8346
Sea area off Nygrån	5246
Skelleftehamn – Gåsören	8246
Sea area off Gåsören	5246
Sea area off Bjuröklubb	8242
NE of Nordvalen	4041
SW of Nordvalen	4041
Western Quark (W of Holmöarna)	5142
Umeå – Väktaren	8246
SE of Väktaren	4046
Örnsköldsvik – Hörnskaten	5046
Ångermanälven north Sandö Bridge	8344
Ångermanälven south Sandö Bridge	8344
Sundsvall – Draghällan	5041
Hudiksvallfjärden	4041
Iggesund – Agö	4041
Sandarne – Hällgrund	4041
Ljusnefjärden – Storjungfrun	4041
Gävle – Eggegrund	4041
Sea area off Eggegrund	4041
Öregrundsgrepen	4041
Hallstavik – Svartklubben	4041
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Stockholm – Södertälje	4041
Södertälje – Fifong	4041
Norrköping – Hargökalv	4041
Fairway to Karlstad	4041
Fairway to Kristinehamn	4041