



Eisbericht Nr. 48

Amtsblatt des BSH

Jahrgang 98

Nr. 48

Friday, 14.02.2025

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Übersicht

In der Bottenwiek liegt in den nördlichen Schären 30–70 cm dickes Festeis. Auf See treibt im Norden 10–45 cm dickes, sehr dichtes, teilweise aufgeschobenes oder aufgedrücktes Eis. In der zentralen Bottenwiek ist offenes Wasser sowie bis 20 cm dickes Treibeis verschiedener Konzentration entlang der Küsten. In den südlichen Schären liegt bis 30 cm dickes Festeis. Auf See treibt dichtes, bis 15 cm dickes Eis. In Norra Kvarken liegt bis 35 cm dickes Festeis in den Schären. Auf See treibt dichtes Eis und Neueis. In der Bottensee kommt entlang der Küste im Norden Festeis und im Süden Neueis vor. Im östlichen Finnischen Meerbusen kommt 20–35 cm dickes Festeis bis Kotlin sowie bis 15 cm dickes, dichtes Eis weiter westlich vor. In der Vyborg-Bucht liegt bis 20 cm dickes Festeis. Ansonsten tritt ebenes Eis und Neueis lokal in geschützten Gebieten an den Küsten des Schärenmeeres, der Ålandsee, im nördlichen Finnischen Meerbusen, im Rigaischen Meerbusen und dem Kurischen Haff sowie im Mälaren und Vänern auf.

Overview

In the Bay of Bothnia, there is 30–70 cm thick fast ice in the northern archipelagos. At sea in the north, there is very close, 10–45 cm thick and partly ridged or rafted ice. In the central Bay of Bothnia is open water and up to 20 cm thick drift ice of varying concentration along the coasts. In the southern archipelagos, there is up to 30 cm thick fast ice. At sea, there is close, up to 20 cm thick drift ice. In the Quark, there is up to 35 cm thick fast ice in the inner archipelagos and close ice at sea. Along the coast of the Sea of Bothnia there is mostly fast ice in the north and new ice in the south. In the eastern Gulf of Finland, there is 20–35 cm thick fast ice to Kotlin and very close, up to 15 cm thick ice further west. In the Vyborg Bay, there is up to 20 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, the Gulf of Riga and the Curonian Lagoon as well as Lake Mälaren and Vänern.

Bay of Bothnia

In the northern Bay of Bothnia, there is 30–70 cm thick fast ice to Kemi 3 and Oulu 3 in the east. Off the fast ice, there is 15–45 cm consolidated ice in the east and rafted thin level ice in the west. Further out, there is 15–45 cm thick ridged very close ice with adjacent close ice up to about Falkensgrund. In the central part of the Bay of Bothnia there is open water or ice formation with close, 3–

15 cm thick ice. In the southern Bay of Bothnia, there is up to 30 cm thick fast ice in the archipelagos. Further out and at sea there is 5–15 cm thick close ice with very close ice at places.

With continuous moderate and some severe frost, ice formation will continue over the weekend. The ice will drift to the south.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

www.bsh.de/ice

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The Quark

In the Vaasa archipelago, there is 15–35 cm thick fast ice to Ensten and new ice to west of Vaasa lighthouse. Along the Swedish coast, there is 10–30 cm fast ice in bays and new ice and thin ice

further out. At sea, there is new ice or thin close ice. With continuous light to moderate frost, ice formation will continue over the weekend. The ice will drift in southerly directions.

Sea of Bothnia

In the east, there is 5–20 cm thick fast or thin level ice in sheltered places along the coast, with new ice formation and open water at places further out. In the west, there is thin level ice or fast ice in sheltered places and new ice further out along the coast. On Ångermanälven there is 10–40 cm thick

fast ice and in the bay to Hudiksvall is up to 30 cm thick ice.

With continuous light to moderate frost, ice formation will continue over the weekend. The ice may drift slightly southwards.

Åland Sea

Very thin or new ice is present in sheltered places along the coast.

With continuous light to moderate frost, ice formation will continue over the weekend.

Archipelago Sea

In the inner archipelagos, there is new ice or thin level ice in sheltered places.

With continuous light to moderate frost, ice formation will continue over the weekend.

Gulf of Finland

From St Petersburg to Kotlin, there is fast ice, 20–35 cm thick. Further west, there is mainly very close, 5–15 cm thick ice to lighthouse Šepelevskij and new ice or ice formation to about Seskar. In Vyborg Bay, there is 10–20 cm thick fast ice and thin level ice in the entrance. Along the northern coast there is thin level ice in sheltered places, up

to 15 cm thick in the eastern part. New ice is present further out in the east. In Lake Saimaa and Saimaa Canal, there is 10–40 cm thick ice.

With continuous light to moderate frost, ice formation will continue over the weekend. The ice may drift slightly southwards.

Gulf of Riga

In Väinameri, there is thin ice or new ice in bays along the coast. The Fairway is ice-free. In Pärnu Bay, there is new ice to about Kihnu. New ice or

open water is present in Latvian harbours.

With continuous light to moderate frost, ice formation will continue over the weekend.

Northern Baltic

On Lake Mälaren there 3–10 cm thick level ice. The central part is ice-free. New ice may be found in the archipelagos along the outer coast.

With continuous light to moderate frost, ice formation will continue over the weekend.

Swedish Lakes

New or thin level ice is present along the north and eastern coast of Lake Vänern.

With continuous light to moderate frost, ice formation will continue over the weekend.

Central Baltic

New ice may be found in sheltered places along the Swedish coast.

With continuous light to moderate frost, ice formation will continue over the weekend.

Southeastern Baltic

New ice or 2–10 cm thick level ice is present with varying concentration in the Curonian Lagoon and in Vistula Lagoon.

With continuous light frost, ice formation will continue over the weekend.

Skagerrak and Kattegat

New ice or thin level ice may be found in sheltered places along the Norwegian coast.

With continuous light to moderate frost, ice formation will continue over the weekend.

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Raahe	2000 dwt	IB	08.01.
	Tornio, Kemi and Oulu	2000 dwt	IA	12.02.
	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	IB	16.01.
	Lake Saimaa and Saimaa Canal	2000 dwt	IA	16.02.
Russia	St. Petersburg	-	Ice 1	25.02.
	Vyborg	-	Ice 1	15.02.
	Vysotsk	-	Ice 1	15.02.
	Primorsk	-	Ice 1	25.02.
Sweden	Karlsborg	4000 dwt	IA	11.02.
	Luleå	2000 dwt	IA	12.02.
	Haraholmen and Skelleftehamn	2000 dwt	IB	12.02.
	Holmsund, Rundvik, Husum Örnsköldsvik and Köpmanholmen	2000 dwt	II	07.01.
	Holmsund, Rundvik, Husum Örnsköldsvik and Köpmanholmen	2000 dwt	I	17.02.
	Ångermanälven	2000 dwt	IA	22.01.
	Härnösand, Söråker, Sundsvall, Stocka, Hudiksvall, Iggesund, Söderhamn, Orrskär, Norrsundet, Gävle, Skutskär	2000 dwt	II	11.01.
	Härnösand, Söråker, Sundsvall, Stocka, Hudiksvall, Iggesund, Söder- hamn, Orrskär, Norrsundet, Skutskär	2000 dwt	I	17.02.
	Gävle	2000/4000 dwt	IC/II	17.02.
	Öregrund, Hargshamn, Hallstavik and Grisslehamn	2000 dwt	II	17.02.
	Köping and Västerås	2000 dwt	IC	07.01.
	Bålsta	2000 dwt	II	15.01.
	Bålsta	2000 dwt	IC	15.02.

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: FREJ, **ODEN**, YMER, KONTIO, ATLE, OTSO and SISU assist in the Bay of Bothnia. ZEUS and ALE assist in the Quark and in the southern Bay of Bothnia. TYRSKY assists in the Lake Saimaa.

Russia

From **15th of February** tow boat-barges will not be assisted to Vyborg and Vysotsk. Vessels without ice class may navigate with icebreaker assistance only.

From **25th of February** tow boat-barges will not be assisted to St. Petersburg. Vessels without ice class may navigate with icebreaker assistance only.

Icebreakers: MUDYUG, SEMYON DEZHNEV, KAPITAN SOROKIN and IVAN KRUZENSTERN assist vessels to the port of St. Petersburg.
K. IZMAYLOV assists to Vyborg and Vysotsk. VLADIVOSTOK assists to Primorsk.

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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Estonia, 14.02.2025

Paernu, port and bay	4121
Moonsund	20/0

Finland, 14.02.2025

Röyttä – Etukari	8546
Etukari – Ristinmatala	6356
Ajos – Ristinmatala	6356
Ristinmatala – Kemi 2	6356
Kemi 2 – Kemi 1	5856
Sea area SW of Kemi 1	5856
Kemi 2 – Ulkokrunni – Virpiniemi	6356
Oulu harbours – Kattilankalla	8546
Kattilankalla – Oulu 1	6356
Sea area SW of Oulu 1	5856
High Sea N of the latitude of Marjaniemi	5856
Raahe harbour – Heikinkari	7756
Heikinkari – Raahe lighthouse	5756
Raahe lighthouse – Nahkiainen	4146
Latitude Marjaniemi – Ulkokalla, Sea	5856
Rahja harbour – Välimatala	5146
Välimatala to line Ulkokalla – Ykskivi	4146
Sea betw. lat. of Ulkokalla –Pietarsaari	4146
Ykspihlaja – Repskär	7756

Repskär – Kokkola lighthouse	5756
Sea area off Kokkola lighthouse	4146
Pietarsaari – Kallan	8346
Sea area off Kallan	4146
Sea lat. Pietarsaari – NE Nordvalen	4146
Sea area ENE of Nordvalen	4146
Sea area Nordvalen to W of Norrskär	3016
Vaskiluoto – Ensten	8346
Ensten – Vaasa lighthouse	5146
Vaasa lighthouse – Norrskär	3016
Sea area SW of Norrskär	2006
Kaskinen – Sälgrund	4045
Sea area off Sälgrund	2005
Pori harb. to line Pori lighth. – Säppi	4041
Rauma, Harbour – Kylmäpihlaja	4041
Uusikaupunki harbour – Kirsta	4041
Naantali and Turku – Rajakari	3001
Vuosaari harbour – Eestiluoto	1000
Porvoo harbours – Varlax	1001
Valko Harbour – Täktarn	5142
Archipelago fairway Boistö – Glosholm	1001
Archipelago fairway Glosholm–Helsinki	1001
Kotka – Viikari	5142
Viikari – Orregrund	1001

Orrengrund – Tiiskeri 1001
Hamina – Suurmusta 5045
Suurmusta – Merikari 1005
Merikari – Kaunissaari 1005

Latvia, 14.02.2025

Port of Riga 2000
Port of Ventspils 2000
Port of Liepaya 1000

Norway, 14.02.2025

Mossesund 41//
Drammensfjord 33//
Tønsberg, inner harbour 43//

Russian Federation, 14.02.2025

Port of St. Petersburg 830/
St. Petersburg – E-point island Kotlin 830/
E-point Kotlin – long. lighth. Tolbuhkin 830/
Lighth. Tolbuhkin – lighth. –Šepelevskij 520/
Lighthouse Šepelevskij – island Sescar 410/
Vyborg, port and bay 830/
Island Vichrevoj – Island Sommers 410/
Strait Bjerkesund 810/
E-point Bol'shoj Ber'ozovyj – Šepelevskij 510/

Sweden, 14.02.2025

Karlsborg – Malören 8546
Sea area off Malören 5356
Luleå – Björnklack 8446
Björnklack – Farstugrunden 5356
E and SE of Farstugrunden 5456
Sandgrönn fairway 8446
Rödkallen – Norströmsgrund 5456
Haraholmen – Nygrån 8446
Sea area off Nygrån 4236
Skelleftehamn – Gåsören 6336
Sea area off Gåsören 6336
Sea area off Bjuröklubb 5336
NE of Nordvalen 4236
SW of Nordvalen 4236
Western Quark (W of Holmöarna) 5236
Umeå – Väktaren 8346
SE of Väktaren 4046
NE and SE of Sydostbrotten 4046
Fairway to Husum 4046
Örnsköldsvik – Hörnskatan 8346
Hörnskatan – Skagsudde 8346
Sea area off Skagsudde 4046
Fairway W of Ulvöarna 4046
Sea area E of Ulvöarna 4046
Ångermanälven north Sandö Bridge 8444
Ångermanälven south Sandö Bridge 8444
Härnösand – Härnön 5144
Sundsvall – Draghällan 4046
Draghällan – Åstholmsudde 4046
Hudiksvallfjärden 8346
Iggesund – Agö 5246
Sandarne – Hällgrund 5146
Gävle – Eggegrund 5146

Öregrundsgrepen 4041
Hallstavik – Svartklubben 4041
Trälhavet – Furusund – Kapellskär 4041
Köping – Kviksund 5144
Västerås – Grönsö 5144
Grönsö – Södertälje 5144
Stockholm – Södertälje 5144
Södertälje – Fifong 5044
Järnverket-Lillhammaren – N Kränkan 4041
Fairway to Karlstad 5142
Fairway to Kristinehamn 5142
Fairway to Otterbäcken 4041