



Eisbericht Nr. 45

Amtsblatt des BSH

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Übersicht

In der Bottenwiek liegt in den nördlichen Schären 15–55 cm dickes Festeis. Auf See treibt im Norden 10–40 cm dickes, sehr dichtes, teilweise aufgeschobenes oder aufgedrücktes Eis. In der zentralen Bottenwiek ist offenes Wasser sowie bis 15 cm dickes Treibeis verschiedener Konzentration entlang der Küsten. In den südlichen Schären liegt bis 30 cm dickes Festeis. In Norra Kvarken liegt bis 35 cm dickes Festeis in den Schären. Auf See treibt lockeres Eis. In der Bottensee kommt entlang der Küste im Norden Festeis und im Süden Neueis vor. Im östlichen Finnischen Meerbusen kommt 15–30 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 sowie im Mälaren und Vänern auf.

Overview

In the Bay of Bothnia, there is 15–55 cm thick fast ice in the northern archipelagos. At sea in the north, there is very close, 10–40 cm thick and partly ridged or rafted ice. In the central Bay of Bothnia is open water and up to 15 cm thick drift ice of varying concentration along the coasts. In the southern archipelagos, there is up to 30 cm thick fast ice. In the Quark, there is up to 35 cm thick fast ice in the inner archipelagos and open 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 15–30 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 as well as Lake Mälaren and Vänern.

Bay of Bothnia

In the northern Bay of Bothnia, there is 15–55 cm thick fast ice to Kemi 3 and Oulu 3 in the east. Off the fast ice, there is 15–35 cm consolidated ice in the east and rafted thin level ice in the west. Further out 15–40 cm thick ridged very close ice with adjacent very open ice up to about Simprgrund and Falkensgrund. In the central part of the Bay of

Bothnia there is open water with very open to close up to 15 cm thick drift 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 3–15 cm thick open ice with close ice at places. With continuous light to moderate frost, ice formation will continue the coming days.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eiswww.bsh.de/ice

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The Quark

In the Vaasa archipelago, there is 15–35 cm thick fast ice to Ensten. Along the Swedish coast, there is 10–30 cm fast ice in bays and new ice and thin level ice further out. At sea, there is thin ice or new

ice of varying concentration.

With some light frost, ice growth will continue the coming day.

Sea of Bothnia

In the east, there is 5–20 cm thick fast ice in sheltered places along the coast, with new ice and thin level ice 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 air temperatures around 0 °C or light frost some ice may form the coming day.

Åland Sea

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

With air temperatures around 0 °C no larger changes are expected the coming day.

Archipelago Sea

In the inner archipelagos, new ice is present in sheltered places along the coast.

With some light frost, ice growth will continue the coming day.

Gulf of Finland

From St Petersburg to Kotlin, there is fast ice, 15–30 cm thick. Further west, there is close to very close ice, 3–15 cm thick. 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 frost, ice formation will continue the coming days.

Gulf of Riga

In Väinameri, there is new ice in shallow bays along the coast. The Fairway is ice-free.

With some light frost, ice growth will continue the coming day.

Northern Baltic

On Lake Mälaren there is new ice and 3–10 cm thick level ice in sheltered places.

With air temperatures around 0 °C or light frost some ice may form the coming day.

Swedish Lakes

New or thin level ice is present at some places along the north-eastern coast of Lake Vänern.

With some light frost new ice may form in sheltered places.

Skagerrak and Kattegat

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

With some light frost, ice growth will continue the coming day.

X. Lange

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi, Oulu and Raahе	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.
Sweden	Karlsborg	4000 dwt	IA	11.02.
	Luleå	2000 dwt	IB	07.01.
	Luleå	2000 dwt	IA	12.02.
	Haraholmen and Skelleftehamn	2000 dwt	IC	07.01.
	Haraholmen and Skelleftehamn	2000 dwt	IB	12.02.
	Holmsund, Rundvik, Husum Örnsköldsvik and Köpmanholmen	2000 dwt	II	07.01.
	Ångermanälven	2000 dwt	IA	22.01.
	Härnösand, Söråker, Sundsvall, Stocka, Hudiksvall, Iggesund, Söderhamn, Orrskär, Norrsundet, Gävle, Skutskär,	2000 dwt	II	11.01.
	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, YMER, KONTIO, ALE, ATLE, OTSO and SISU assist in the Bay of Bothnia. ZEUS assists in the Quark and in the southern Bay of Bothnia. TYRSKY assists in the Lake Saimaa.

Norway

Tønsberg inner harbour (Tønsberg): Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size. (17.01.2025)

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, 10.02.2025

Paernu, port and bay 10/0

Finland, 11.02.2025

Röyttä – Etukari 8446

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 8446

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 4746

Rahja harbour – Välimatala 5146

Vaelimatala to line Ulkokalla – Ykskivi 4146

Sea betw. lat. of Ulkokalla –Pietarsaari 4746

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 3136

Sea area ENE of Nordvalen 3136

Sea area Nordvalen to W of Norrskär 4046

Vaskiluoto – Ensten 8346

Ensten – Vaasa lighthouse 5146

Vaasa lighthouse – Norrskär 2026

Kaskinen – Sälgrund 4045

Sea area off Sälgrund 4045

Pori harb. to line Pori lighth. – Säppi 4041

Rauma, Harbour – Kylmäpihlaja 4041

Kylmäpihlaja – Rauma lighthouse 4041

Uusikaupunki harbour – Kirsta 4041

Naantali and Turku – Rajakari 4041

Valko Harbour – Täktarn 5142

Kotka – Viikari 5142

Viikari – Orrengrund 4041

Hamina – Suurmusta 4045

Suurmusta – Merikari 4045

Russian Federation, 11.02.2025

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 510/

Vyborg, port and bay 830/

Island Vichrevoj – Island Sommers 410/

Strait Bjerkessund 810/

E-point Bol'šoj Ber'ozovyj – Šepelevskij 810/

Sweden, 11.02.2025

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	3226
Skelleftehamn – Gåsören	6336
Sea area off Gåsören	6336
Sea area off Bjuröklubb	5336
NE of Nordvalen	3226
SW of Nordvalen	3226
Western Quark (W of Holmöarna)	4236
Umeå – Väktaren	8346
SE of Väktaren	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
Off Åstholmsudde and Brämön	4046
Hudiksvallfjärden	8346
Iggesund – Agö	5246
Sea area off Agö	4046
Sandarne – Hällgrund	5146
Gävle – Eggegrund	5146
Öregrundsgrepen	4041
Hallstavik – Svartklubben	4041
Trälhavet – Furusund – Kapellskär	4041
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Grönsö – Södertälje	4041
Stockholm – Södertälje	4041
Södertälje – Fifong	5041
Järnverket-Lillhammaren – N Kränkan	4041
Fairway to Karlstad	5142
Fairway to Kristinehamn	5142