



Eisbericht Nr. 40

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Übersicht

In der Bottenwiek liegt in den nördlichen Schären 15–55 cm dickes Festeis. Weiter außerhalb befindet sich im Norden und Osten Neueis. Auf See treibt bis 45 cm dickes, sehr dichtes Treibeis sowie dichtes, bis zu 20 cm dickes Eis im Westen und dichtes bis lockeres, bis 30 cm dickes Eis im Osten. In den südlichen Schären liegt bis 30 cm dickes Festeis und weiter außerhalb treibt lockeres bis dichtes Eis. In Norra Kvarken liegt bis 35 cm dickes Festeis. Auf See und entlang der Küsten treibt Neueis sowie dünnes, lockeres Eis im Westen. In der Bottensee kommt entlang der Küste im Norden Festeis und im Süden dünnes Eis vor sowie Neueis weiter außerhalb im Osten. Im östlichen Finnischen Meerbusen kommt 10–30 cm dickes Eis vor St. Petersburg sowie Neueis weiter westlich. 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, sowie im nördlichen Finnischen Meerbusen.

Overview

In the Bay of Bothnia, there is 15–55 cm thick fast ice in the northern archipelagos. Further out in the north and east, there is new ice. At sea, there is very close, up to 45 cm thick drift ice and up to 20 cm thick close ice in the west and up to 30 cm thick, close to open ice in the east. In the southern archipelagos, there is up to 30 cm thick fast ice. Further out is open to close ice. In the Quark, there is up to 35 cm thick fast ice in the inner archipelagos. At sea and along the coasts is new ice with thin open ice in the west. Along the coast of the Sea of Bothnia there is mostly fast ice in the north and thin ice in the south with new ice further out in the east. In the eastern Gulf of Finland, there is 10–30 cm thick ice at St. Petersburg and new 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 and Lake Mälaren.

Bay of Bothnia

In the northern Bay of Bothnia, there is 15–55 cm thick fast ice to Kemi 3 and Oulu 3. Off the fast ice, there is 15–35 cm very close ice in the east and thin level ice in the west. From Malören to Farstugrunden, Merikallat, Nahkiainen and Kokkola in the south, there is a large area of new ice. South of Farstugrunden to about 64°45'N and 23°50'E, there is very close, up to 45 cm thick and partly ridged drift ice. Further south follows close, up to

20 cm thick ice in the west and open to close, up to 30 cm thick ice in the east. In the southern Bay of Bothnia, there is up to 30 cm thick fast ice in the archipelagos. Further out is new ice followed by open to close ice.

With continuous light to moderate frost, ice formation will continue the coming day. The ice will drift increasingly to the northwest/north.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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The Quark

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

With air temperatures increasing to around 0 °C and increasing southerly/south-easterly winds, ice formation will slowly cease and the ice will drift in northerly directions.

Sea of Bothnia

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

up to 30 cm thick ice. There is new ice formation in sheltered places along the southern coast. With slowly rising air temperatures ice formation will cease during the coming day.

Aland Sea

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

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

Archipelago Sea

In the inner archipelagos, there is very thin ice. With temperatures around 0°C no larger changes

are expected the coming day.

Gulf of Finland

From St Petersburg to Kotlin, there is very close ice, 10–30 cm thick. Further out there is new ice to past lighthouse Šepelevskij. In Vyborg Bay, there is 10–20 cm thick fast ice. Along the northern coast there is thin level ice in sheltered places, up to 15

cm thick in the eastern part. In Lake Saimaa and Saimaa Canal, there is 10–35 cm thick ice. With continuous light to moderate frost, ice formation will continue the coming day especially in the eastern part.

Gulf of Riga

In Väinameri, there are remains of thin ice in inner sheltered bays.

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

Northern Baltic

On Lake Mälaren there is 3–10 cm thick level ice with new ice in the western part. The central part is mostly ice-free. In the eastern part there is new ice

in few places. With air temperatures mostly slightly above 0°C no larger changes are expected the coming day.

Swedish Lakes

Remains of new or thin level ice are present at places along the north-eastern coast of Lake Vänern.

With temperatures slightly above 0 °C, some slow ice melt is possible the coming day.

Skagerrak and Kattegat

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

With air temperatures mostly above 0°C some ice melt is expected the coming day.

W. Aldenhoff

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi, Oulu and Raahе	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	IB	16.01.
Russia	St. Petersburg	-	Ice 1	11.02.
	Vyborg	-	Ice 1	15.02.
	Vysotsk	-	Ice 1	15.02.
Sweden	Karlsborg and Luleå	2000 dwt	IB	07.01.
	Haraholmen and Skelleftehamn	2000 dwt	IC	07.01.
	Holmsund, Rundvik, Husum	2000 dwt	II	07.01.
	Örnsköldsvik and Köpmanholmen	2000 dwt	IA	22.01.
	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.

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, 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 **11th 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** and IVAN KRUZENSTERN 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, 04.02.2025

Röyttä – Etukari	8446
Etukari – Ristinmatala	7356
Ajos – Ristinmatala	7356
Ristinmatala – Kemi 2	5356
Kemi 2 – Kemi 1	5156
Sea area SW of Kemi 1	5046
Kemi 2 – Ulkokrunni – Virpiniemi	7356
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	7356
Sea area SW of Oulu 1	5046
High Sea N of the latitude of Marjaniemi	5456
Raahe harbour – Heikinkari	8346
Heikinkari – Raahe lighthouse	5046
Raahe lighthouse – Nahkiainen	5046
Latitude Marjaniemi – Ulkokalla, Sea	5356
Rahja harbour – Välimatala	5146
Välimatala to line Ulkokalla – Ykskivi	3736
Sea betw. lat. of Ulkokalla – Pietarsaari	4146
Ykspihlaja – Repskär	7746
Repskär – Kokkola lighthouse	5746
Sea area off Kokkola lighthouse	3736
Pietarsaari – Kallan	8346
Sea area off Kallan	5046
Sea lat. Pietarsaari – NE Nordvalen	4146
Sea area ENE of Nordvalen	4146
Sea area Nordvalen to W of Norrskär	4146
Vaskiluoto – Ensten	8346
Ensten – Vaasa lighthouse	4046

Vaasa lighthouse – Norrskär	4046
Sea area SW of Norrskär	3136
Kaskinen – Sälgrund	4045
Sea area off Sälgrund	4045
High sea from N to latitude Yttergrund	4045
Pori harb. to line Pori lighth. – Säppi	4041
Rauma, Harbour – Kylmäpihlaja	4041
Uusikaupunki harbour – Kirsta	4041
Sea area W of Märket	4041

Russian Federation, 04.02.2025

Port of St. Petersburg	530/
St. Petersburg – E-point island Kotlin	530/
E-point Kotlin – long. lighth. Tolbuhkin	300/
Vyborg, port and bay	820/

Sweden, 04.02.2025

Karlsborg – Malören	8546
Sea area off Malören	5046
Luleå – Björnklack	8446
Björnklack – Farstugrunden	5046
E and SE of Farstugrunden	5046
Sandgrönn fairway	8446
Rödkallen – Norströmsgrund	5456
Haraholmen – Nygrån	8446
Sea area off Nygrån	4046
Skelleftehamn – Gåsören	5336
Sea area off Gåsören	5336
Sea area off Bjuröklubb	5336

NE of Nordvalen	4236
SW of Nordvalen	3226
Western Quark (W of Holmöarna)	4236
Umeå – Väktaren	8346
SE of Väktaren	3226
NE and SE of Sydostbrotten	3226
Fairway to Husum	4046
Örnsköldsvik – Hörnskatan	8346
Hörnskatan – Skagsudde	8346
Sea area off Skagsudde	3226
Fairway W of Ulvöarna	4046
Ångermanälven north Sandö Bridge	8444
Ångermanälven south Sandö Bridge	8444
Härnösand – Härnön	5144
Sundsvall – Draghallan	4046
Hudiksvallfjärden	8346
Iggesund – Agö	5246
Sandarne – Hällgrund	5146
Gävle – Eggegrund	5146
Öregrundsgrepen	4041
Hallstavik – Svartklubben	4041
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Fairway to Karlstad	5142
Fairway to Kristinehamn	4041