



Eisbericht Nr. 41

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1

Übersicht

In der Bottenwiek liegt in den nördlichen Schären 15–55 cm dickes Festeis. Weiter außerhalb befindet sich im Norden und Osten ebenes Eis. Auf See treibt bis 40 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 sowie dünnes, dichtes Eis weiter außerhalb im Westen. Auf See befindet sich Neueis. In Norra Kvarken liegt bis 35 cm dickes Festeis. Auf See im Norden und entlang der Küsten treibt Neueis sowie dünnes Eis verschiedener Konzentration. In der Bottensee kommt entlang der Küste im Norden Festeis und im Süden dünnes Eis vor. Im östlichen Finnischen Meerbusen kommt 10–30 cm dickes Eis vor St. Petersburg sowie Neueis weiter westlich entlang der Küste. 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. Further out in the north and east, there is thin level ice. At sea, there is very close, up to 40 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 and thin, close ice further out in the west. At sea, there is new ice. In the Quark, there is up to 35 cm thick fast ice in the inner archipelagos. At sea in the north and along the coasts, there is new ice and thin ice of varying concentration. Along the coast of the Sea of Bothnia there is mostly fast ice in the north and thin ice in the south. In the eastern Gulf of Finland, there is 10–30 cm thick ice at St. Petersburg and new ice further west along the coast. 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 very close ice in the east and thin level ice in the west. Further out in the north and east, there is thin level ice to about Farstugrunden and Ulkokalla. At sea from Rödkallen to about 24°00'E in the east and

64°55'N in the south, there is very close, 10–40 cm thick and partly ridged ice. Further south, there is 5–20 cm thick drift ice along the Swedish coast and open to close drift ice around 23°30'E. In the southern Bay of Bothnia, there is up to 30 cm thick fast ice in the archipelagos. Further out in the west, there is 3–15 cm thick, close ice. At sea, there is

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new ice and a lead of very open ice along the Finnish coast.

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 open water further out. At sea,

With mostly light frost in the north, some ice growth is expected. The ice will drift eastwards.

there is thin ice or new ice of varying concentration north of about Nordvalen.

With air temperatures around 0 °C no larger ice formation is expected. The ice will drift eastwards.

Sea of Bothnia

In the east, there is 5–20 cm thick fast ice in sheltered places along the coast, with some thin 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 Hudiks-

vall is up to 30 cm thick ice. In the southern part is new ice and very open thin ice along the coast.

With temperatures slightly above or around 0 °C no larger changes are expected.

Åland Sea

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

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

Archipelago Sea

In the inner archipelagos, there is thin ice. With air temperatures mostly above 0 °C some ice

melt is expected.

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 and along the coast to Vyborg Bay. 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. New ice is present further out in the east. In Lake Saimaa and Saimaa Canal, there is 10–35 cm thick ice.

With mostly light frost in the east, ice formation will continue there the coming day. In the west some ice melt is expected.

Gulf of Riga

In Väinameri, there are remains of thin ice and new 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

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

With air temperatures mostly 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, 05.02.2025

Röyttä – Etukari	8446
Etukari – Ristinmatala	7356
Ajos – Ristinmatala	7356
Ristinmatala – Kemi 2	5356
Kemi 2 – Kemi 1	5156
Sea area SW of Kemi 1	5156
Kemi 2 – Ulkokrunni – Virpiniemi	7356
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	7356
Sea area SW of Oulu 1	5156
High Sea N of the latitude of Marjaniemi	5456
Raahe harbour – Heikinkari	8346
Heikinkari – Raahe lighthouse	5046
Raahe lighthouse – Nahkiainen	5146
Latitude Marjaniemi – Ulkokalla, Sea	5356
Rahja harbour – Välimatala	5146
Vaelimatala to line Ulkokalla – Ykskivi	5146
Sea betw. lat. of Ulkokalla –Pietarsaari	4146
Ykspihlaja – Repskär	7746
Repskär – Kokkola lighthouse	5746
Sea area off Kokkola lighthouse	2126
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	1106
Vaskiluoto – Ensten	8346
Ensten – Vaasa lighthouse	3136

Vaasa lighthouse – Norrskär	2126
Sea area SW of Norrskär	0//6
Kaskinen – Sälgrund	2125
Sea area off Sälgrund	2125
High sea from N to latitude Yttergrund	0//5
Pori harb. to line Pori lighth. – Säppi	2121
Rauma, Harbour – Kylmäpihlaja	2121
Uusikaupunki harbour – Kirsta	4041
Valko Harbour – Täktarn	4041
Kotka – Viikari	4041
Hamina – Suurmusta	4045

Russian Federation, 05.02.2025

Port of St. Petersburg	530/
St. Petersburg – E-point island Kotlin	530/
E-point Kotlin – long. lighth. Tolbuhkin	510/
Lighth. Tolbuhkin – lighth. –Šepelevskij	510/
Vyborg, port and bay	820/
Island Vichrevoj – Island Sommers	400/
Strait Bjerkesund	510/
E-point Bol'šoj Ber'ozovyj – Šepelevskij	400/
Luga bay	200/

Sweden, 05.02.2025

Karlsborg – Malören	8546
Sea area off Malören	5146
Luleå – Björnklack	8446
Björnklack – Farstugrunden	5146
E and SE of Farstugrunden	5146

Sandgrönn fairway	8446
Rödkallen – Norströmsgrund	5456
Haraholmen – Nygrån	8446
Sea area off Nygrån	4336
Skelleftehamn – Gåsören	5336
Sea area off Gåsören	5336
Sea area off Bjuröklubb	5336
Western Quark (W of Holmöarna)	3226
Umeå – Väktaren	8346
SE of Väktaren	1106
Fairway to Husum	4046
Örnsköldsvik – Hörnskatan	8346
Hörnskatan – Skagsudde	8346
Ångermanälven north Sandö Bridge	8444
Ångermanälven south Sandö Bridge	8444
Härnösand – Härnön	5144
Sundsvall – Draghällan	4046
Draghällan – Åstholmsudde	1006
Hudiksvallfjärden	8346
Iggesund – Agö	5246
Sandarne – Hällgrund	5146
Ljusnefjärden – Störjungfrun	2026
Gävle – Eggegrund	5146
Hallstavik – Svartklubben	4041
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Fairway to Karlstad	5142
Fairway to Kristinehamn	4041