



Eisbericht Nr. 57

Amtsblatt des BSH

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Übersicht

In der Bottenwiek liegt in den nördlichen Schären 20–70 cm dickes Festeis und in den südlichen Schären bis 40 cm dickes Festeis. Auf See treibt im Nordosten bis 60 cm dickes, sehr dichtes, teilweise aufgeschobenes oder aufgepresstes Eis. Das Eis ist örtlich schwer zu passieren. Weiter südlich folgt dichtes und dann sehr lockeres, 10–30 cm dickes Eis. Im westlichen Teil ist offenes Wasser. In Norra Kvarken liegt bis 45 cm dickes Festeis in den Schären. Auf See befindet sich offenes Wasser. In der Bottensee kommt entlang der Küste im Norden Festeis und im Süden dünnes, ebenes Eis vor. Im östlichen Finnischen Meerbusen kommt 20–35 cm dickes Festeis bis Kotlin vor, sowie sehr dichtes Eis weiter westlich bis Seskar. In der Vyborg-Bucht liegt bis 30 cm dickes Festeis. Entlang der nördlichen Küste kommt Festeis und dünnes, ebenes Eis vor. Ebenes Eis und Neueis tritt in geschützten Gebieten an den Küsten des Schärenmeeres, der Ålandsee, im Rigaischen Meerbusen und dem Kurischen und Frischen Haff sowie im Mälaren und Vänern auf.

Overview

In the Bay of Bothnia, there is 20–70 cm thick fast ice in the northern archipelagos and up to 40 cm thick fast ice in the southern archipelagos. At sea in the northeast, there is up to 60 cm thick, very close and partly ridged and rafted ice. The ice is difficult to force at places. Further south follows close and very open, up to 30 cm thick ice. In the western part is open water. In the Quark, there is up to 45 cm thick fast ice in the inner archipelagos. At sea, there is open water. Along the coast of the Sea of Bothnia there is mostly fast ice in the north and thin level ice in the south. In the eastern Gulf of Finland, there is 20–35 cm thick fast ice to Kotlin and very close ice further west to Seskar. In the Vyborg Bay, there is up to 30 cm thick fast ice. Along the northern coast, there is fast ice or thin level ice. Thin level ice and new ice are present at sheltered places along the coast of the Archipelago Sea, the Åland Sea, the Gulf of Riga and the Curonian and Vistula Lagoon as well as Lake Mälaren and Vänern.

Bay of Bothnia

In the northern Bay of Bothnia, there is 20–70 cm thick fast ice to Kemi 3 and Oulu 3 in the east. At sea east of about 23°00'E and to 64°30'N in the south, there is 10–60 cm thick, ridged and rafted, very close ice. The ice field is difficult to force at places. In the western part is open water. In the southern Bay of Bothnia, there is up to 40 cm thick fast ice in the archipelagos. At sea in the east,

there is close, 10–30 cm thick partly rafted ice with open water in places along the coast to about Kallan. Further south is very open ice. In the west is open water with strips and patches.

With air temperatures around 0 °C and light night frost, no larger changes are expected the coming day but some ice formation is possible. The ice will drift to the north/northeast.

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 20–45 cm thick fast ice to Ensten. Along the Swedish coast, there is 15–35 cm fast ice in bays. At sea, there is open water.

With air temperatures around 0 °C and some night frost, no larger changes are expected but some ice may form. The ice will drift to the north/northeast.

Sea of Bothnia

In the east, there is 5–20 cm thick fast ice or level ice along the coast. Further out is open water. In the west, there is up to 30 cm thick fast ice in sheltered places in the north and thin level ice in the south. On Ångermanälven there is 10–40 cm thick

fast ice. Further out is open water.

With air temperatures slightly above or around 0 °C and some night frost in the northern part, no larger changes are expected.

Aland Sea

Thin ice or new ice is present along the coast with open water further out in the north.

With air temperatures mostly above 0 °C, ice melt will slowly continue the coming day.

Archipelago Sea

In the inner archipelagos, there is thin level ice and new ice further out.

With air temperatures around 0 °C, no larger changes are expected.

Gulf of Finland

From St Petersburg to Kotlin, there is fast ice, 20–35 cm thick. Further west, there is very close, up to 25 cm thick ice to the island Seskar. Further west and south to Luga Bay is mainly open water with a narrow strip of close drift ice. In Vyborg Bay, there is 15–30 cm thick fast ice. Along the northern

coast, there is thin level ice or fast ice in sheltered places, up to 20 cm thick in the eastern part and 10 cm in the western part. In Lake Saimaa and Saimaa Canal, there is 10–40 cm thick ice.

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

Gulf of Riga

In Väinameri, there is thin level ice in sheltered places. On the fairway is open water. In Pärnu Bay, there is 5–15 cm thick very close ice to the

line Lindi – Voiste and along the coast.

With air temperatures around 0 °C, no larger changes are expected.

Northern Baltic

On Lake Mälaren, there is 5–12 cm thick level ice with open water in the central part. New ice and at places thin ice is present in the archipelagos along

the outer coast.

With air temperatures above 0 °C and some night frost, slow ice melt will continue the coming day.

Swedish Lakes

On Lake Vänern, there is level ice and new ice at the northern coast.

With air temperatures above 0 °C and some night frost, slow ice melt will continue the coming day.

Central Baltic

Remnants of new ice may be found in sheltered places along the Swedish coast.

With air temperatures above 0 °C, ice melt will continue the coming day.

Southeastern Baltic

In Curonian Lagoon, there is very close 10–15 cm thick, partly rafted ice. In Vistula Lagoon is mostly 3–10 cm thick, very close ice.

With air temperatures above 0 °C, ice melt will continue the coming day.

Skagerrak and Kattegat

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

With air temperatures above 0 °C, ice melt will continue the coming day.

W. Aldenhoff

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Raahe	2000 dwt	IB	08.01.
	Raahe	2000 dwt	IA	02.03.
	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	IA	16.02.
Russia	St. Petersburg	-	Ice 1	25.02.
	Primorsk	-	Ice 1	05.03.
	Ust-Luga	-	Ice 1	05.03.
	Vyborg	-	Ice 1	15.02.
	Vysotsk	-	Ice 1	15.02.
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	I	17.02.
	Ångermanälven	2000 dwt	IA	22.01.
	Härnösand, Söråker, Sundsvall	2000 dwt	I	17.02.
	Stocka, Hudiksvall, Iggesund, Söder- hamn, Orrskär, Norrsundet, Gävle and Skutskär	2000 dwt	II	24.02.
	Öregrund, Hargshamn, Hallstavik and Grisslehamn	2000 dwt	II	17.02.
	Köping and Västerås	2000 dwt	II	26.02.
	Bålsta	2000 dwt	II	26.02.

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.

The traffic separation scheme in the Quark is temporarily out of use due to ice conditions from 17th February.

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.

From **5th of March** tow boat-barges will not be assisted to Ust-Luga and Primorsk. Vessels without ice class may navigate with icebreaker assistance only.

Icebreakers: SEMYON DEZHNEV, KAPITAN SOROKIN, MUDJUG and IVAN KRUZENSTERN assist

vessels to the port of St. Petersburg. KAPITAN NIKOLAEV and KAPITAN PLACHIN assist to Ust-Luga. 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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Latvia, 25.02.2025

Port of Riga 1000

Estonia, 27.02.2025

Shipping route from Narva-Jõssuu 1///

Paernu, port and bay 5242

Moonsund 3132

Finland, 27.02.2025

Röyttä – Etukari 8546

Etukari – Ristinmatala 6456

Ajos – Ristinmatala 6456

Ristinmatala – Kemi 2 6456

Kemi 2 – Kemi 1 5476

Sea area SW of Kemi 1 5476

Kemi 2 – Ulkokrunni – Virpiniemi 6456

Oulu harbours – Kattilankalla 8546

Kattilankalla – Oulu 1 6456

Sea area SW of Oulu 1 5476

High Sea N of the latitude of Marjaniemi 5476

Raahe harbour – Heikinkari 7856

Heikinkari – Raahe lighthouse 5856

Raahe lighthouse – Nahkiainen 5856

Latitude Marjaniemi – Ulkokalla, Sea 5476

Rahja harbour – Välimatala 8346

Vaelimatala to line Ulkokalla – Ykskivi 4356

Sea betw. lat. of Ulkokalla –Pietarsaari 4356

Ykspihlaja – Repskär 7346

Repskär – Kokkola lighthouse 5346

Sea area off Kokkola lighthouse 1706

Pietarsaari – Kallan 7356

Sea area off Kallan 2726

Sea lat. Pietarsaari – NE Nordvalen 1726

Sea area ENE of Nordvalen 1706

Sea area Nordvalen to W of Norrskär 0//6

Vaskiluoto – Ensten 8846

Ensten – Vaasa lighthouse 1106

Vaasa lighthouse – Norrskär 1106

Sea area SW of Norrskär 0//6

Kaskinen – Sälgrund 5155

Sea area off Sälgrund 0//5

Pori harb. to line Pori lighth. – Säppi 8742

Rauma, Harbour – Kylmäpihlaja 1102

Kylmäpihlaja – Rauma lighthouse 1102

Uusikaupunki harbour – Kirsta 5142

Kirsta – Isokari 1102

Sea area W of Märket 1102

Naantali and Turku – Rajakari 5142

Koverhar – Hästö Busö 4142

Inkoo a. Kantvik – sea area Porkkala 5142

Helsinki harbours – Harmaja	5142
Vuosaari harbour – Eestiluoto	5041
Porvoo harbours – Varlax	5041
Valko Harbour – Täktarn	5152
Archipelago fairway Boistö – Glosholm	5142
Archipelago fairway Glosholm–Helsinki	5041
Kotka – Viikari	5152
Viikari – Orregrund	5152
Hamina – Suurmusta	5155
Suurmusta – Merikari	5155

Stockholm – Trälhavet – Klövholmen	4041
Köping – Kvicksund	5244
Västerås – Grönsö	5244
Grönsö – Södertälje	1004
Stockholm – Södertälje	5244
Södertälje – Fifong	5144
Norrköping – Hargökalv	5142
Västervik – Marsholmen – Idö	2020
Fairway to Karlstad	5142
Fairway to Kristinehamn	5142

Russian Federation, 27.02.2025

Port of St. Petersburg	840/
St. Petersburg – E-point island Kotlin	840/
E-point Kotlin – long. lighth. Tolbuhkin	840/
Lighth. Tolbuhkin – lighth. –Šepelevskij	520/
Lighthouse Šepelevskij – island Sescar	510/
Vyborg, port and bay	830/
Island Vichrevoj – Island Sommers	510/
Strait Bjerkesund	810/
E-point Bol'šoj Ber'ozovyj – Šepelevskij	510/
Luga bay	210/
Appr. Luga bay – line Moš.-Šepel.	210/

Sweden, 27.02.2025

Karlsborg – Malören	8546
Sea area off Malören	5576
Luleå – Björnklack	8546
Björnklack – Farstugrunden	5366
E and SE of Farstugrunden	1206
Sandgrönn fairway	8446
Rödkallen – Norströmsggrund	8446
Haraholmen – Nygrån	8446
Sea area off Nygrån	1206
Skelleftehamn – Gåsören	8446
Sea area off Gåsören	8446
Sea area off Bjuröklubb	8446
NE of Nordvalen	1206
SW of Nordvalen	1206
Western Quark (W of Holmöarna)	1206
Umeå – Väktaren	8446
Fairway to Husum	1206
Örnsköldsvik – Hörnskatan	8346
Hörnskatan – Skagsudde	8346
Fairway W of Ulvöarna	1206
Sea area E of Ulvöarna	1206
Ångermanälven north Sandö Bridge	8444
Ångermanälven south Sandö Bridge	8444
Härnösand – Härnön	5144
Sundsvall – Draghällan	5146
Draghällan – Åstholmsudde	1206
Hudiksvallfjärden	8346
Iggesund – Agö	8346
Sandarne – Hällgrund	5146
Ljusnefjärden – Storjungfrun	1206
Gävle – Eggegrund	5146
Sea area off Eggegrund	1206
Sea area off Orskär	1206
Öregrundsgrepen	4046
Hallstavik – Svartklubben	5146