



Eisbericht Nr. 55

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 sehr dichtes Eis vor. Im östlichen Finnischen Meerbusen kommt 20–35 cm dickes Festeis bis Kotlin vor, sowie sehr dichtes Eis weiter außerhalb. 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 very close 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 out. 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 Kalan. Further south is very open ice. In the west is open water with strips and patches.

With air temperatures slightly above 0 °C, slow ice melt will continue the coming day. The ice will drift to the 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 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 strips at places.

With air temperatures above 0 °C, slow ice melt will continue the coming day. The ice will drift to the north.

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 above 0 °C, slow ice melt will continue the coming day.

Aland Sea

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

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

Archipelago Sea

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

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

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 south to Luga Bay is very open and open 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 5–10 cm thick very close ice to the line Lindi – Voiste and along the coast.

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

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, ice melt will continue the coming day.

Swedish Lakes

On Lake Vänern, there is 3–10 cm thick level ice and new ice in the north and 2–7 cm thick level ice and new ice in the south.

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

Central Baltic

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.

Western and Southern Baltic, Belt and Sound

The area is mostly ice-free but remnants of ice may be found in very sheltered places.

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. Remnants of ice may be found along the Swedish 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	25.02.
	Ust-Luga	-	Ice 1	26.02.
	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	IC	07.01.
	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.

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 and Primorsk. Vessels without ice class may navigate with icebreaker assistance only.

From **26th of February** tow boat-barges will not be assisted to Ust-Luga. 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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Estonia, 25.02.2025

Shipping route from Narva-Jõssuu	1///
Paernu, port and bay	5242
Moonsund	4132

Finland, 25.02.2025

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	5356
Ykspihlaja – Repskär	7346
Repskär – Kokkola lighthouse	5346
Sea area off Kokkola lighthouse	1706
Pietarsaari – Kallan	7356
Sea area off Kallan	5356
Sea lat. Pietarsaari – NE Nordvalen	2726
Sea area ENE of Nordvalen	1706
Sea area Nordvalen to W of Norrskär	1106

Vaskiluoto – Ensten	8846	SE of Väktaren	1206
Ensten – Vaasa lighthouse	1106	Fairway to Husum	1206
Vaasa lighthouse – Norrskär	1106	Örnsköldsvik – Hörnskatan	8346
Sea area SW of Norrskär	1106	Hörnskatan – Skagsudde	8346
Kaskinen – Sälgrund	5155	Sea area off Skagsudde	1206
Sea area off Sälgrund	2125	Fairway W of Ulvöarna	1206
Pori harb. to line Pori lighth. – Säppi	8742	Sea area E of Ulvöarna	1206
Rauma, Harbour – Kylmäpihlaja	5142	Ångermanälven north Sandö Bridge	8444
Kylmäpihlaja – Rauma lighthouse	1102	Ångermanälven south Sandö Bridge	8444
Uusikaupunki harbour – Kirsta	5142	Härnösand – Härnön	5144
Kirsta – Isokari	1102	Sea area off Härnön	1206
Sea area W of Märket	1102	Sundsvall – Draghällan	5146
Naantali and Turku – Rajakari	5142	Draghällan – Åstholmsudde	1206
Lövskär – Berghamn	4041	Off Åstholmsudde and Brämön	1206
Koverhar – Hästö Busö	5142	Hudiksvallfjärden	8346
Inkoo a. Kantvik – sea area Porkkala	5142	Iggesund – Agö	8346
Helsinki harbours – Harmaja	4041	Sandarne – Hällgrund	5146
Vuosaari harbour – Eestiluoto	5041	Ljusneffjärden – Storsjungfrun	1206
Porvoo harbours – Varlax	5041	Gävle – Eggegrund	5146
Valko Harbour – Täktarn	5152	Sea area off Eggegrund	1206
Archipelago fairway Boistö – Glosholm	5142	Sea area off Orskär	1206
Archipelago fairway Glosholm–Helsinki	5041	Öregrundsgrepen	4046
Kotka – Viikari	5152	Hallstavik – Svartklubben	5146
Viikari – Orregrund	5152	Stockholm – Trälhavet – Klövholmen	4041
Hamina – Suurmusta	5155	Köping – Kvicksund	5244
Suurmusta – Merikari	5155	Västerås – Grönsö	5244
Latvia, 25.02.2025		Grönsö – Södertälje	1004
Port of Riga	1000	Stockholm – Södertälje	5244
Russian Federation, 25.02.2025		Södertälje – Fifong	5144
Port of St. Petersburg	840/	Norrköping – Hargökalv	5142
St. Petersburg – E-point island Kotlin	840/	Västervik – Marsholmen – Idö	4041
E-point Kotlin – long. lighth. Tolbuhkin	840/	Vänersborgsviken	4041
Lighth. Tolbuhkin – lighth. –Šepelevskij	520/	Fairway to Karlstad	5142
Lighthouse Šepelevskij – island Sescar	510/	Fairway to Kristinehamn	5142
Vyborg, port and bay	830/	Fairway to Otterbäcken	4041
Island Vichrevoj – Island Sommers	510/		
Strait Bjerkesund	810/		
E-point Bol'soj Ber'ozovyj – Šepelevskij	510/		
Luga bay	210/		
Appr. Luga bay – line Moš.-Šepel.	210/		
Sweden, 25.02.2025			
Karlsborg – Malören	8546		
Sea area off Malören	5576		
Luleå – Björnklack	8546		
Björnklack – Farstugrunden	5366		
E and SE of Farstugrunden	1206		
Sandgrönn fairway	8446		
Rödkallen – Norströmsgrund	8446		
Haraholmen – Nygrån	8446		
Sea area off Nygrån	2326		
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		