



Eisbericht Nr. 19

Amtsblatt des BSH

Jahrgang 98

Nr. 19

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Übersicht

In der Bottenwiek liegt in den nördlichen Schären 20–35 cm dickes Festeis gefolgt von ebenem Eis und anschließend dichtes bis sehr dichtes, dünnes Eis entlang der Küste bis in die Bottensee. Im östlichen Finnischen Meerbusen kommt 5–10 cm dickes Eis von St.Petersburg nach Kotlin und 5-15 cm dickes Festeis am Ende der Vyborg-Bucht vor. Ansonsten tritt ebenes Eis und Neueis lokal in geschützten Gebieten an den Küsten des Schärenmeeres, der Ålandsee, sowie im nördlichen Finnischen Meerbusen und im Rigaischen Meerbusen auf.

Overview

In the Bay of Bothnia, there is 20–35 cm thick, fast ice in the northern archipelagos, followed by level ice and further out close to very close, thin ice along the coasts down to the Sea of Bothnia. In the eastern Gulf of Finland, there is 5–10 cm thick ice from St.Petersburg to Kotlin and in the top of Vyborg bay 5-15 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, Lake Mälaren and the Gulf of Riga.

Bay of Bothnia

In the northern Bay of Bothnia 20-35 cm thick fast ice approximately to Kemi 3 and Kattilankalla. Farther out 5-20 cm thick, in places rafted ice approximately to Merikallat. Farther out thin close ice, new ice and ice formation. Off Raahe 5-15 cm thick ice, new ice and shuga to Nahkiainen.

In the southern Bay of Bothnia 5-15 cm thick fast ice in the archipelago. Farther out thin close ice and shuga. With moderate to light frost expected over the next few days, new ice formation and ice growth will occur. With winds from the east, westward drifting ice is possible.

The Quark

In the Vaasa archipelago, there is 5-15 cm thick of fast ice as far as Ensten. Further out thin close ice and new ice.

With mostly light frost and wind from east no larger ice formation is expected.

Sea of Bothnia

In the east, there is new ice along the coast. On the Ångermanälven there is 5-20 cm thick fast ice. In the west, there is thin close ice along the coast.

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

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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Eisauskünfte / Ice Information

Telefon: +49 (0) 381 4563 -780

Telefax: +49 (0) 381 4563 -949

E-Mail: ice@bsh.de

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Åland Sea

New ice is present in some sheltered places.

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

Archipelago Sea

New ice is present in some sheltered places.

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

Gulf of Finland

From St. Petersburg to Kotlin there is very close, 5–10 cm thick ice, further out thin level ice and new ice. In the top of Vyborg Bay, there is 5-15 cm thick fast ice. Along the northern coast there is thin

level ice in inner bays and further out new ice. In Lake Saimaa and Saimaa Canal, there is thin level ice. With mostly light frost no larger ice formation is expected.

Gulf of Riga

New ice and thin level ice is present in some sheltered places in Väinameri.

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

Northern Baltic

In Lake Mälaren thin level ice is present. In sheltered places along the coast new ice formation.

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

Swedish Lakes

New ice is present at some sheltered places in the northeast of Lake Vänern.

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

Dr. X.Lange

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi, Oulu and Raahe	2000 dwt	I	31.12.
	Tornio, Kemi, Oulu and Raahe	2000 dwt	IB	08.01.
	Kalajoki	2000 dwt	II	25.12.
	Kalajoki	2000 dwt	I	07.01.
	Kokkola, Pietarsaari and Vaasa	2000 dwt	II	21.12.
	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	II	11.12.
Sweden	Karlsborg and Luleå	2000 dwt	IC	04.01.
	Karlsborg and Luleå	2000 dwt	IB	07.01.
	Haraholmen	2000 dwt	II	22.12.
	Skelleftehamn	2000 dwt	II	23.12.
	Haraholmen and Skelleftehamn	2000 dwt	IC	07.01.
	Holmsund, Rundvik, Husum Örnsköldsvik and Köpmanholmen	2000 dwt	II	07.01.
	Ångermanälven	2000 dwt	IC	22.12.
	Ångermanälven	2000 dwt	IB	07.12.

Köping	1300/2000 dwt	IC/II	22.12.
Köping and Västerås	2000 dwt	IC	07.01.

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: KONTIO, ALE, OTSO and **SISU** assist in the Bay of Bothnia. **ZEUS** assists in the Quark. TYRSKY assists in the Lake Saimaa.

Russia

Icebreakers: SEMYON DEZHNEV and K. PLAKHIN 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, 06.01.2025

Röyttä – Etukari	8346
Etukari – Ristinmatala	7776
Ajos – Ristinmatala	7776
Ristinmatala – Kemi 2	5776
Kemi 2 – Kemi 1	5746
Sea area SW of Kemi 1	5746
Kemi 2 – Ulkokrunni – Virpiniemi	7776
Oulu harbours – Kattilankalla	8376

Kattilankalla – Oulu 1	5756
Sea area SW of Oulu 1	5746
High Sea N of the latitude of Marjaniemi	5746
Raahe harbour – Heikinkari	8146
Heikinkari – Raahe lighthouse	5246
Raahe lighthouse – Nahkiainen	4146
Latitude Marjaniemi – Ulkokalla, Sea	5746
Rahja harbour – Välimatala	5755
Ykspihlaja – Repskär	8145

Repskär – Kokkola lighthouse	4145
Pietarsaari – Kallan	8145
Sea area off Kallan	4145
Sea area ENE of Nordvalen	4145
Sea area Nordvalen to W of Norrskär	3005
Vaskiluoto – Ensten	8145
Ensten – Vaasa lighthouse	5145
Vaasa lighthouse – Norrskär	3005
Kaskinen – Sälgrund	4142
Valko Harbour – Tåktarn	3001
Kotka – Viikari	3001
Hamina – Suurmusta	4041
Suurmusta – Merikari	3001

Russian Federation, 06.01.2025

Port of St. Petersburg	530/
St. Petersburg – E-point island Kotlin	530/
E-point Kotlin – long. lighth. Tolbuhkin	530/
Vyborg, port and bay	820/
Island Vichrevoj – Island Sommers	300/
Strait Bjerkesund	300/
E-point Bol'shoj Ber'ozovyj – Šepelevskij	300/

Sweden, 06.01.2025

Karlsborg – Malören	8446
Sea area off Malören	5246
Luleå – Björnklack	8346
Björnklack – Farstugrunden	5246
E and SE of Farstugrunden	5246
Sandgrönn fairway	5346
Rödkallen – Norströmsgrund	5246
Haraholmen – Nygrån	8346
Sea area off Nygrån	5246
Skelleftehamn – Gåsören	8246
Sea area off Gåsören	4136
Sea area off Bjuröklubb	8242
NE of Nordvalen	4132
SW of Nordvalen	4041
Western Quark (W of Holmöarna)	5142
Umeå – Väktaren	8242
SE of Väktaren	4132
Örnsköldsvik – Hörnskatan	5041
Ångermanälven north Sandö Bridge	8344
Ångermanälven south Sandö Bridge	8344
Sundsvall – Draghallan	5041
Hudiksvallfjärden	4041
Iggesund – Agö	4041
Sandarne – Hällgrund	4041
Ljusnefjärden – Störjungfrun	4041
Gävle – Eggegrund	4041
Sea area off Eggegrund	4041
Öregrundsgrepen	4041
Hallstavik – Svartklubben	4041
Köping – Kvicksund	5144
Västerås – Grönsö	5142
Stockholm – Södertälje	4041
Södertälje – Fifong	4041
Norrköping – Hargökalv	4041
Fairway to Karlstad	4041
Fairway to Kristinehamn	4041