



Eisbericht Nr. 94

Amtsblatt des BSH

Jahrgang 97

Nr. 94

Tuesday, 02.04.2024

1

Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 80 cm dickes, in den südlichen bis 70 cm dickes Festeis. Im Osten verläuft außerhalb des Festeises eine Rinne. Auf See treibt im Nordenwesten zumeist 40–70 cm dickes, sehr dichtes, örtlich aufgepresstes und übereinandergeschobenes Eis, das teilweise schwer zu passieren ist. Weiter südlich treibt auf See im Westen bis 40 cm dickes, sehr dichtes oder dichtes Eis, um im Osten kommt offenes Wasser vor. An den Küsten von Norra Kvarken liegt bis 60 cm dickes Festeis; auf See treibt im Westen 10–30 cm dickes, sehr lockeres bis dichtes Eis und ansonsten kommt offenes Wasser vor. An den Küsten der Bottensee kommt im Osten bis 55 cm und im Westen bis 40 cm dickes Festeis vor und im Nordwesten treibt vor der Küste 20-40cm dickes, sehr dichtes Eis. Im Schärenmeer kommt morsches Festeis und offenes Wasser vor. Im Osten und Norden des Finnischen Meerbusens liegt bis 55 cm dickes Festeis; auf See treibt ganz im Nordosten 10–35 cm dickes Eis. Im Väinameri, Mälaren und Vänern kommt örtlich morsches Festeis und offenes Wasser vor.

Overview

In the Bay of Bothnia there is fast ice in the archipelagos, up to 80 cm thick in the north and up to 70 cm thick in the south. Outside the fast ice in the east there is a lead. At sea in the northwest, there is mostly 40–70 cm thick, very close, ridged and rafted ice that is difficult to force at places. Further south there up to 40 cm thick very close and close ice in the west and open water in the east. In the Quark there is up to 60 cm thick fast ice at the coasts and at sea there is 10–30 cm thick, very open to close ice in the west and else open water. At the coasts of the Sea of Bothnia there is fast ice, up to 55 cm thick in the east and up to 40 cm thick in the west and 20-40cm thick, very close ice is present outside the northwestern coast. Rotten fast ice and open water is present in the Archipelago Sea. There is up to 55 cm thick fast ice at the eastern and northern coast of the Gulf of Finland. At sea in the extreme northeast there is 10–35 cm thick ice. In Väinameri, Malären and Vänern there is rotten fast ice at places and open water.

Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast ice; 50–80 cm thick in the north and 40–70 cm thick in the south. In the northeast the fast ice stretches out to Malören, Kemi-3, Oulu-3 and Raahelighthouse and is followed by an open water lead with some thicker floes. The lead widens to the south and continues all the way to the Quark. In the northwest, west of about 23°20'E, there is

40–70 cm thick, ridged and rafted, very close ice; the field is difficult to force at places; north of 65°N there are some areas with new ice and south of about 64°20'N there is 15-435cm thick close ice. Outside the Swedish coast there is 15–45 cm thick very close down to about Bjuröklubb and further south 10-25cm thick very close ice all the way to Holmöarna, with smaller area of very open ice,

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)
www.bsh.de/eis
www.bsh.de/ice

© BSH - Alle Rechte vorbehalten
 Nachdruck, auch auszugsweise, verboten

Eisankünfte / Ice Information

Telefon: +49 (0) 381 4563 -780
 Telefax: +49 (0) 381 4563 -949
 E-Mail: ice@bsh.de

© BSH - All rights reserved
 Reproduction in whole or in part prohibited

directly at the coast.
With light to moderate frost new ice formation is

The Quark

There is 35–60 cm thick fast ice in the Vaasa archipelago out to Ensten. Along the Swedish coast there is up to 40 cm thick fast ice. Off this ice, there is 10–40 cm thick ice, ranging from very open to close and stretching out to east of Sydostbrotten.

Sea of Bothnia

Along the coasts there is mostly fast ice in the inner bays; 20–55 cm thick in the east and 5–40 cm thick in the west. The fast ice in the far south is partly rotten. On Ångermanälven, there is 15–40 cm thick fast ice. Off the coast north of Härnösand,

Archipelago Sea and Åland Sea

In the Archipelago Sea there is rotten fast ice in the archipelago and around the Åland Islands with open water in between. In the Åland Sea there is

Northern Baltic

In Lake Mälaren there is rotten fast ice in bays and near the coast and open water elsewhere. Along the outer Swedish coast there is open water and

Gulf of Finland

Along the northern coast there is fast ice in the archipelago, rotten in the west and up to 55 cm thick in the east. In the Vyborg Bay there is 20–30 cm thick fast ice and in the Bjerkesund there very open ice; very close ice is present in both entrances. Off the northern fast ice, there is open water, except east of about Kotka and north of about 60°20'N where there is 10–35 cm thick, partly

Gulf of Riga

In Väinameri there is rotten fast ice in places near the coasts and on the fairways there open water. The Bay of Pärnu is ice free.

Swedish Lakes

In Lake Vänern, rotten fast ice is present in places in the northern archipelagos.

expected and the ice will drift to the southwest.

Else at sea mostly open water.
With light to moderate frost some new ice formation is expected and the ice will drift to the southwest.

there is 20–40 cm thick, very close ice. Off the coast in the east there is open water.
With light frost and northeasterly winds, some new ice formation may occur in the north..

rotten fast ice in bays along the coast.
No mayor change is expected.

locally some broken ice.
No mayor change is expected.

ridged, close to very close ice. From St. Petersburg to Kotlin there is very open ice, with areas of very close ice north and south of Kotlin. Open water further out. In Lake Saimaa is 30–55 cm thick ice with open areas.
Northeasterly winds lead to falling temperatures, but until tomorrow some ice melt is still expected and the ice drifts southwestwards..

Temperatures will fall to around 0°C tomorrow, but overall ice melt is expected until then.

No mayor change is expected.

Dr. J.Holfort

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi and Oulu	4000 dwt	IA	02.04.
	Raahe, Kalajoki, Kokkola and Pietarsaari	4000 dwt	IA	13.01.
	Vaasa	2000 dwt	IB	02.04.
	Pori, Rauma	-	cancelled	02.04.
	Kaskinen and Kristiinankaupunki	-	cancelled	02.04.
	Uusikaupunki	-	cancelled	02.04.
	Langnäs	-	cancelled	02.04.
	Naantali and Turku	-	cancelled	02.04.
	Sköldvik	-	cancelled	02.04.
	Koverhar, Lappohja, Inkoo, Kantvik and Helsinki	-	cancelled	02.04.
	Taalintehdas and Förby	-	cancelled	02.04.
	Mussalo, Loviisa and Kotka	2000 dwt	II	02.04.
	Hamina	2000 dwt	I	25.03.
	Lake Saimaa	2000 dwt	IA	08.01.
Saimaa Canal	2000 dwt	IA	08.01.	
Russia	Vyborg	-	Ice 1	28.03.
	Vysotsk	-	Ice 1	28.03.
	Primorsk	-	Ice 1	25.03.
Sweden	Karlsborg	4000 dwt	IA (2000 t)	14.01.
	Lulea, Haraholmen and Skelleftehamn	4000 dwt	IA	14.01.
	Rundvik, Husum and Örnköldsvik	2000 dwt	IA	19.02.
	Holmsund	2000 dwt	IA	17.02.
	Angermanälven	2000 dwt	IB	27.03.
	Stocka, Hudiksvall, Iggesund, Söderhamn	2000 dwt	IC	26.02.
	Orrskär, Norrsundet, Gävle and Skutskär	2000 dwt	II	18.03.
	Härnösand	2000 dwt	IB	26.02.
	Söråker and Sundsvall	2000 dwt	IC	22.03.
	Hargshamn, Öregrund, Hallstavik and Grisslehamn	2000 dwt	II	26.03.
	Köping, Västerås and Balsta	2000 dwt	II	26.03.

Finland/Sweden

The transit traffic west of Holmöarna is temporarily prohibited.

Öregrundsgrepen: Transit traffic for low powered vessels is not recommended.

The traffic separation schemes in the Quark are temporarily out of use from 20 December due to ice conditions.

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: YMER, ODEN, FREJ, ATLE, POLARIS and URHO assist in the Bay of Bothnia. OTSO assists in the southern Bay of Bothnia. ZEUS and ALE assist in the Quark. CALYPSO assists the Gulf of Finland.

Russia

There are restrictions for small crafts going to St. Petersburg, Vyborg, Vysotsk, Primorsk and Ust-Luga. Barge towed by tug not allowed to navigate in ice.

Icebreakers: Several icebreakers assist vessels to the port of St. Petersburg, Vyborg, Vysotsk and Primorsk.

Baltic Sea Ice Code

<p>First number:</p> <p>A_B Amount and arrangements of sea ice</p> <p>0 Ice free</p> <p>1 Open water – concentration less than 1/10</p> <p>2 Very open ice - concentration 1/10 to 3/10</p> <p>3 Open ice – concentration 4/10 to 6/10</p> <p>4 Close ice – concentration 7/10 to 8/10</p> <p>5 Very close ice – concentration 9/10 to 9+/10</p> <p>6 Compact ice, including consolidated ice – concentration 10/10</p> <p>7 Fast ice with drift ice outside</p> <p>8 Fast ice</p> <p>9 Lead in very close or compact drift ice or along the fast ice edge</p> <p>/ Unable to report</p> <p>Third number:</p> <p>T_B Topography or form of ice</p> <p>0 Pancake ice, ice cakes, brash ice – less than 20 m across</p> <p>1 Small ice floes – 20 to 100 m across</p> <p>2 Medium ice floes – 100 to 500 m</p> <p>3 Big ice floes – 500 to 2000 m across</p> <p>4 Vast or giant ice floes – more than 2000 m across – or level ice</p> <p>5 Rafted ice</p> <p>6 Compact slush or shuga, or compacted brash ice</p> <p>7 Hummocked or ridged ice</p> <p>8 Thaw holes or many puddles on the ice</p> <p>9 Rotten ice</p> <p>/ No information or unable to report</p>	<p>Second number:</p> <p>S_B Stage of ice development</p> <p>0 New ice or dark nilas (less than 5 cm thick)</p> <p>1 Light nilas (5 - 10 cm thick) or ice rind</p> <p>2 Grey ice (10 - 15 cm thick)</p> <p>3 Grey-white ice (15 - 30 cm thick)</p> <p>4 White ice, first stage (30 - 50 cm thick)</p> <p>5 White ice, second stage (50 - 70 cm thick)</p> <p>6 Medium first year ice (70 - 120 cm thick)</p> <p>7 Ice predominantly thinner than 15 cm with some thicker ice</p> <p>8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice</p> <p>9 Ice predominantly thicker than 30 cm with some thinner ice</p> <p>/ No information or unable to report</p> <p>Fourth number:</p> <p>K_B Navigation conditions in ice</p> <p>0 Navigation unobscured</p> <p>1 Navigation difficult or dangerous for wooden vessels without ice sheathing</p> <p>2 Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable</p> <p>3 Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice</p> <p>4 Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker</p> <p>5 Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size</p> <p>6 Icebreaker assistance can only be given to vessels of special ice class and of special size</p> <p>7 Icebreaker assistance can only be given to vessels after special permission</p> <p>8 Navigation temporarily closed</p> <p>9 Navigation has ceased</p> <p>/ Unknown</p>
--	--

Estonia, 02.04.2024

Moonsund 1//1

Finland, 02.04.2024

Röyttä – Etukari 8546

Etukari – Ristinmatala 8546

Ajos – Ristinmatala 8546

Ristinmatala – Kemi 2 7476

Kemi 2 – Kemi 1 5676

Sea area SW of Kemi 1 5676

Kemi 2 – Ulkokrunni – Virpiniemi 7476

Oulu harbours – Kattilankalla 8546

Kattilankalla – Oulu 1 7476

Sea area SW of Oulu 1 5676

High Sea N of the latitude of Marjaniemi 5676

Raahe harbour – Heikinkari 8546

Heikinkari – Raahe lighthouse 6476

Raahe lighthouse – Nahkiainen 5476

Latitude Marjaniemi – Ulkokalla, Sea 5476

Rahja harbour – Välimatala 8446

Vaelimatala to line Ulkokalla – Ykskivi 2456

Sea betw. lat. of Ulkokalla – Pietarsaari 5476

Ykspihlaja – Repskär 7476

Repskär – Kokkola lighthouse 5476

Sea area off Kokkola lighthouse 1306

Pietarsaari – Kallan 8446

Sea area off Kallan 1306

Sea lat. Pietarsaari – NE Nordvalen 2716

Sea area ENE of Nordvalen 4346

Sea area Nordvalen to W of Norrskär 4346

Vaskiluoto – Ensten 7356

Ensten – Vaasa lighthouse 5356

Vaasa lighthouse – Norrskär	1306	Sandgrönn fairway	8646
Sea area SW of Norrskär	2716	Rödkallen – Norströmsgrund	5576
Kaskinen – Sälgrund	1302	Haraholmen – Nygrån	8646
Sea area off Sälgrund	1302	Sea area off Nygrån	5556
High sea from N to latitude Yttergrund	5352	Skelleftehamn – Gåsören	8446
Pori harb. to line Pori lighth. – Säppi	1302	Sea area off Gåsören	5456
Sea W of line Pori lighthouse – Säppi	1302	Sea area off Bjuröklubb	5456
Rauma, Harbour – Kylmäpihlaja	1302	NE of Nordvalen	4336
Kylmäpihlaja – Rauma lighthouse	1302	SW of Nordvalen	4336
Uusikaupunki harbour – Kirsta	8842	Western Quark (W of Holmöarna)	2426
Kirsta – Isokari	1302	Umeå – Väktaren	2426
Isokari – Sandbäck	1302	SE of Väktaren	2426
Sea area N of Sälskär	1302	NE and SE of Sydostbrotten	2426
Naantali and Turku – Rajakari	7342	Fairway to Husum	5456
Rajakari – Lövskär	5342	Örnsköldsvik – Hörnskatan	8446
Lövskär – Korra	8392	Hörnskatan – Skagsudde	8446
Korra – Isokari	1302	Sea area off Skagsudde	5456
Lövskär – Berghamn	1302	Fairway W of Ulvöarna	8446
Berghamn – Stora Sottunga	1302	Sea area E of Ulvöarna	5456
Stora Sottunga – Ledskär	1302	Ångermanälven north Sandö Bridge	8444
Lövskär – Grisselborg	1302	Ångermanälven south Sandö Bridge	8444
Grisselborg – Norparskär	1302	Härnösand – Härnön	5454
Hanko – Vitgrund	1302	Sea area off Härnön	5454
Vitgrund – Utö	1302	Sundsvall – Draghällan	1306
Koverhar – Hästö Busö	1302	Draghällan – Åstholmsudde	5456
Inkoo a. Kantvik – sea area Porkkala	8392	Off Åstholmsudde and Brämön	5456
Helsinki harbours – Harmaja	8892	Hudiksvallfjärden	8346
Harmaja – Helsinki lighthouse	1302	Iggesund – Agö	8346
Fairway Helsinki – Porkkala – Rönnskär	1302	Sandarne – Hällgrund	8346
Vuosaari harbour – Eestiluoto	1302	Ljusnefjärden – Storjungfrun	8346
Eestiluoto – Helsinki lighthouse	1302	Gävle – Eggegrund	1306
Porvoo harbours – Varlax	1302	Hallstavik – Svartklubben	8396
Varlax – Porvoo lighthouse	1302	Trälhavet – Furusund – Kapellskär	1000
Valko Harbour – Täktarn	8445	Stockholm – Trälhavet – Klövholmen	1000
Archipelago fairway Boistö – Glosholm	1305	Köping – Kviksund	1104
Archipelago fairway Glosholm–Helsinki	1302	Västerås – Grönsö	8394
Kotka – Viikari	1305	Grönsö – Södertälje	1104
Viikari – Orregrund	1305	Stockholm – Södertälje	1104
Orregrund – Tiiskeri	1305	Fairway to Gruvön	1201
Tiiskeri – Kalbådagrund	0//5	Fairway to Karlstad	8392
Hamina – Suurmusta	8446	Fairway to Kristinehamn	1201
Suurmusta – Merikari	8446		
Merikari – Kaunissaari	3716		

Russian Federation, 02.04.2024

Port of St. Petersburg	32//
St. Petersburg – E-point island Kotlin	32//
E-point Kotlin – long. lighth. Tolbukhin	22//
Lighthouse Šepelevskij – island Sescar	32//
Vyborg, port and bay	89//
Island Vichrevoj – Island Sommers	53//
Strait Bjerkesund	22//
E-point Bol'šoj Ber'ozovyj – Šepelevskij	21//

Sweden, 02.04.2024

Karlsborg – Malören	8646
Sea area off Malören	5676
Luleå – Björnklack	8646
Björnklack – Farstugrunden	5576
E and SE of Farstugrunden	5576