

Eisbericht Nr. 85

Amtsblatt des BSH

Jahrgang 97

Nr. 85

Monday, 18.03.2024

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Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 70 cm dickes, in den südlichen bis 50 cm dickes Festeis. Auf See treibt im Norden zumeist 30–70 cm dickes, sehr dichtes, örtlich aufgepresstes und übereinandergeschobenes Eis, das teilweise schwer zu passieren ist. Weiter südlich kommt sehr lockeres Eis vor. An den Küsten von Norra Kvarken liegt bis 50 cm dickes Festeis; auf See treibt 10-50cm dickes, lockeres Eis und im Westen kommt 10–50 cm dickes, dichtes Eis vor. An den Küsten der Bottensee kommt im Osten bis 55 cm und im Westen bis 30 cm dickes Festeis vor. Im Schärenmeer kommt ebenes Eis oder s vor. Im Osten und Norden des Finnischen Meerbusens liegt bis 55 cm dickes Festeis. Auf See treibt im Norden sehr lockeres bis sehr dichtes, 5–35 cm dickes Eis. Im Rigaischen Meerbusen kommt im Nordosten bis zu 40 cm dickes Festeis vor und an den Küsten treibt örtlich dichtes Eis vor. Ansonsten kommt im Mälaren, Vänern und einigen norwegischen Fjorden örtlich dünnes Eis, teilweise aber auch bis 30 cm dickes Festeis vor.

Overview

In the Bay of Bothnia there is fast ice in the archipelagos, up to 70 cm thick in the north and up to 50 cm thick in the south. At sea in the north, there is mostly 30–70 cm thick, very close, ridged and rafted ice that is difficult to force at places. Further south there is very open ice. In the Quark there is up to 50 cm thick fast ice at the coasts and at sea there is 10-50cm thick, open ice and in the west 10–50 cm thick, close ice. At the coasts of the Sea of Bothnia there is fast ice, up to 55cm thick in the east and up to 30 cm thick in the west. Level ice or fast ice 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 more northern part there is 5-35cm thick, very open to very close ice. In the northeastern Gulf of Riga there is up to 40 cm thick fast ice at the coast with close ice in places along the coast. Else thin ice is present at places, but also up to 30cm thick fast ice, in the Mälaren, Vänern, and some Norwegian fjords.

Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast ice; 45–75 cm thick in the north and up to 25–65 cm thick in the south. In the northeast the fast ice stretches out to Malören, Kemi-3, Oulu-3 and Raahe lighthouse. At sea north of a line Nygrån to Kalajoki there is 40–70 cm thick, ridged and rafted ice; the field is difficult to force at places; there are

leads and cracks in the field and some areas with new ice are present in the west. Further south there is first 10-40cm thick very close ice and then 2-25cm thick very open ice.

With light to moderate frost some ice will form and the ice will drift towards the northeast

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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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 with adjacent consolidated ice. Off this ice, there is a 10-20nm wide region with 15–50 cm thick, partly ridged,

close ice to north of Sydostbrodden. Else at sea there is mostly open ice.

With light to moderate frost some ice will form and the ice will drift towards the northeast.

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. On Ångermanälven, there is 15–40 cm thick fast ice. Off the coast in the east there is open water with some thicker floes. In the

northwest, north of about Härnösand, there is ridged, 10-50cm thick close ice.

With light frost some ice formation is expected at or near the coast. A slight northeasterly ice drift is expected.

Archipelago Sea and Åland Sea

In the Archipelago Sea there is 25–50 cm thick fast ice in the inner archipelago of the Finnish coast. 10–30 cm thick, fast ice or level ice with larger areas of open water is present in the outer archi-

pelagos to the Åland Islands. In the Åland Sea there is 5–20 cm thick fast or level ice in bays along the coast.

With light frost some ice formation is expected.

Northern Baltic

In Lake Mälaren there is 10–30 cm thick fast ice with mostly open water on the fairways. Along the outer Swedish coast there is open water or thin

open ice.

With freezing at night and melt over the day, no larger change is expected

Gulf of Finland

Along the northern coast there is fast ice in the archipelago, 10–40 cm thick in the west and up to 60 cm thick in the east. In the Vyborg Bay there is 30-40cm thick fast ice and in the Bjerkesund there is 20–30 cm thick fast ice; very close ice is present in both entrances with open water further out. Off the northern fast ice there is 10-25cm thick very open to open ice in the west and 10-30cm thick very close ice in the east. Further out there is close ice between Tiiskeri and Kalbådagrund and from

the northern point of Gogland to Seskar. From St. Petersburg to the longitude of lighthouse Tolbuchin there is 40–50 cm thick fast ice with open water further out. Outside the southern coast there is open water in the east and ice free from Narva Bay to the west. In Lake Saimaa 30-55cm thick ice.

With northeasterly winds some ice may form in the night and the ice will drift westwards, but overall no larger change.

Gulf of Riga

In Väinameri there is 20–35 cm thick fast ice near the coasts and else open ice or open water. Off the south coast of Saaremaa there is a band with close, 5–20 cm thick ice. In the Bay of Pärnu, there is 20–40 cm thick fast ice to about the line Lindi –

Reiu and further out, up to the line Manilaid – Voiste there is very close ice in the western part and open water in the east.

Further ice melt is expected.

Central Baltic

In sheltered areas along the Swedish coast there is open water.

No larger change is expected.

Skagerrak and Kattegat

In some sheltered Norwegian fjords and bays is thin level ice or fast ice, notably near Tønsberg,

Kragerø, Svinesund, and Drammensfjord.

No larger change is expected.

Swedish Lakes

In Lake Vänern rotten fast ice is present in the northern archipelagos. In the Dalbosjön there is 5–

15 cm thick, open ice off the northwestern coast.

No larger change is expected.

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1600 kW	1C (Lloyd's)	11.03.
	Kunda and Sillamäe	1200 kW	II (Lloyd's)	04.02.
Finland	Tornio, Kemi and Oulu	2000/4000 dwt	IA Super (2000 t)/ IA (2000 t)	27.02.
	Vaasa	2000 dwt	IA	10.01.
	Raahe, Kalajoki, Kokkola and Pietarsaari	4000 dwt	IA	13.01.
	Pori, Rauma	2000 dwt	I	06.03.
	Kaskinen and Kristiinankaupunki	2000 dwt	IB	06.03.
	Uusikaupunki	2000 dwt	I	18.03.
	Langnäs	2000 dwt	II	13.01.
	Eckerö and Maarianhamina	-	cancelled	18.03.
	Naantali and Turku	2000 dwt	I	23.01.
	Mussalo	2000 dwt	IB	29.01.
	Sköldvik	2000 dwt	I	29.01.
	Koverhar, Lappohja, Inkoo, Kantvik and Helsinki	2000 dwt	II	18.03.
	Taalintehdas and Förby	2000 dwt	II	18.03.
	Hanko	-	cancelled	18.03.
	Loviisa, Kotka and Hamina	2000 dwt	IB	29.01.
	Lake Saimaa	2000 dwt	IA	08.01.
	Saimaa Canal	2000 dwt	IA	08.01.
Russia	Vyborg	-	Ice 1/Ice 2	11.03.
	Vysotsk	-	Ice 1/Ice 2	11.03.
	Primorsk	-	Ice 1/Ice 2	11.03.
	St. Petersburg		Ice 1	22.03.
	Ust-Luga	-	Ice 1/Ice 2	22.03.
Sweden	Karlsborg	4000 dwt	IA (2000 t)	14.01.
	Lulea, Haraholmen and Skelleftehamn	4000 dwt	IA	14.01.
	Rundvik, Husum and Örnsköldsvik	2000 dwt	IA	19.02.
	Holmsund	2000 dwt	IA	17.02.
	Angermanälven	2000 dwt	IA	17.02.
	Stocka, Hudiksvall, Iggesund and Söderhamn	2000 dwt	IC	26.02.
	Orrskär, Norrsundet, Gävle, Skutskär and Öregrund	2000 dwt	II	18.03.
	Härnösand, Söråker and Sundsvall	2000 dwt	IB	26.02.
	Hargshamn	2000 dwt	IC	04.01.
	Hallstavik and Grisslehamn	2000 dwt	IC	04.01.
	Kappelskär and Nynäshamn	-	cancelled	18.03.
	Köping and Västerås	2000 dwt	IC	26.02.
	Balsta	2000 dwt	IC	26.02.
	Stockholm and Södertälje	2000 dwt	II	04.01.
	Vänern	2000 dwt	II	14.03.

Estonia

Icebreaker: EVA-316 assists to the port of Pärnu. BOTNICA assists to the ports of Kunda and Sillamäe.

Finland/Sweden

The traffic separation schemes in the Lake Vänern are temporarily out of use from 12 January due to ice conditions.

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, POLARIS, SISU, KONTIO and URHO assist in the Bay of Bothnia. OTSO assist in the southern Bay of Bothnia. ATLE and FENNICA assist in the Quark. ZEUS and CALYPSO assist in the Bothnian Sea. VOIMA and NORDICA assist the Gulf of Finland. ALE assists in the Vänern.

Norway

Hellefjorden (Kragerø): Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size. (08.01.24)

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>
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Estonia, 18.03.2024

Paernu, port and bay 7475

Moonsund 4/32

Finland, 18.03.2024

Röyttä – Etukari 8546

Etukari – Ristinmatala 8546

Ajos – Ristinmatala 8546

Ristinmatala – Kemi 2 7476

Kemi 2 – Kemi 1 5476

Sea area SW of Kemi 1 5476

Kemi 2 – Ulkokrunni – Virpiniemi 7476

Oulu harbours – Kattilankalla 8546

Kattilankalla – Oulu 1 7476

Sea area SW of Oulu 1 5476

High Sea N of the latitude of Marjaniemi 5476

Raaha harbour – Heikinkari 8546

Heikinkari – Raaha lighthouse 6856

Raaha lighthouse – Nahkiainen 5476

Latitude Marjaniemi – Ulkokalla, Sea 5476

Rahja harbour – Välimatala 7856

Vaelimatala to line Ulkokalla – Ykskivi 5856

Sea betw. lat. of Ulkokalla –Pietarsaari 5356

Ykspihlaja – Repskär 7476

Repskär – Kokkola lighthouse 5476

Sea area off Kokkola lighthouse 2726

Pietarsaari – Kallan 8446

Sea area off Kallan 2726

Sea lat. Pietarsaari – NE Nordvalen 3336

Sea area ENE of Nordvalen 3336

Sea area Nordvalen to W of Norrskär 4376

Vaskiluoto – Ensten 7356

Ensten – Vaasa lighthouse 5356

Vaasa lighthouse – Norrskär 3336

Sea area SW of Norrskär 4376

Kaskinen – Sälgrund 8446

Sea area off Sälgrund 8446

High sea from N to latitude Yttergrund 4376

Pori harb. to line Pori lighth. – Säppi 1706

Sea W of line Pori lighthouse – Säppi 1706

High sea betw. lat. Yttergrund a. Rauma 1706

Rauma, Harbour – Kylmäpihlaja 8846

Kylmäpihlaja – Rauma lighthouse 1706

Uusikaupunki harbour – Kirsta 8846

Kirsta – Isokari 8846

Isokari – Sandbäck 1706

Sea area N of Sälskär 5142

Naantali and Turku – Rajakari 8846

Rajakari – Lövskär 7346

Lövskär – Korra 7346

Korra – Isokari 1706

Lövskär – Berghamn 8346

Berghamn – Stora Sottunga 1706

Stora Sottunga – Ledskär 8746

Lövskär – Grisselborg 8346

Grisselborg – Norparskär 1706

Sea area at Vidskär	1706	NE and SE of Sydostbrotten	4476
Hanko harbours – Hanko 1	1702	Fairway to Husum	6476
Hanko – Vitgrund	8342	Örnsköldsvik – Hörnskatan	8446
Vitgrund – Utö	5142	Hörnskatan – Skagsudde	6476
Koverhar – Hästö Busö	8345	Sea area off Skagsudde	4476
Hästö Busö – Ajax	1705	Fairway W of Ulvöarna	8446
Inkoo a. Kantvik – sea area Porkkala	7755	Sea area E of Ulvöarna	4476
Sea area at Porkkala	3355	Ångermanälven north Sandö Bridge	8444
Sea area S of Porkkala lighthouse	3355	Ångermanälven south Sandö Bridge	8444
Helsinki harbours – Harmaja	8845	Härnösand – Härnön	8444
Harmaja – Helsinki lighthouse	2725	Sea area off Härnö	1306
Helsinki lighth. – sea S of Porkkala lh.	3355	Sundsvall – Draghällan	1306
Fairway Helsinki – Porkkala – Rönnskär	5375	Draghällan – Åstholmsudde	1306
Vuosaari harbour – Eestiluoto	2725	Off Åstholmsudde and Brämön	1306
Eestiluoto – Helsinki lighthouse	2725	Hudiksvallfjärden	8346
Porvoo harbours – Varlax	7376	Iggesund – Agö	8346
Varlax – Porvoo lighthouse	5376	Sandarne – Hällgrund	8346
Porvoo lighthouse – Kalbådagrund	4356	Ljusnefjärden – Storjungfrun	8346
Sea Kalbådagrund – Helsinki lighthouse	4356	Gävle – Eggegrund	8346
Valko Harbour – Tåktarn	7346	Hallstavik – Svartklubben	8346
Archipelago fairway Boistö – Glosholm	5376	Trälhavet – Furusund – Kapellskär	1000
Archipelago fairway Glosholm–Helsinki	7376	Stockholm – Trälhavet – Klövholmen	1000
Kotka – Viikari	7346	Klövholmen – Sandhamn	1000
Viikari – Orrengrund	2726	Trollharan – Langgarn	1000
Orrengrund – Tiiskeri	5346	Köping – Kvicksund	8344
Tiiskeri – Kalbådagrund	4356	Västerås – Grönsö	8344
Hamina – Suurmusta	8446	Grönsö – Södertälje	8344
Suurmusta – Merikari	7346	Stockholm – Södertälje	1204
Merikari – Kaunissaari	5376	Södertälje – Fifong	1104
		Västervik – Marsholmen – Idö	1101
Russian Federation, 18.03.2024		Fairway to Gruvön	8396
Port of St. Petersburg	89//	Fairway to Karlstad	8396
St. Petersburg – E-point island Kotlin	89//	Fairway to Kristinehamn	8396
E-point Kotlin – long. lighth. Tolbuhkin	53//		
Lighth. Tolbuhkin – lighth. –Šepelevskij	43//		
Lighthouse Šepelevskij – island Sescar	42//		
Island Sescar – Island Sommers	43//		
Vyborg, port and bay	89//		
Island Vichrevoj – Island Sommers	53//		
Strait Bjerkesund	89//		
E-point Bol'šoj Ber'ozovyj – Šepelevskij	53//		
Sweden, 18.03.2024			
Karlsborg – Malören	8646		
Sea area off Malören	5576		
Luleå – Björnklack	8646		
Björnklack – Farstugrunden	5576		
E and SE of Farstugrunden	5576		
Sandgrönn fairway	8646		
Rödkallen – Norströmsgrund	5576		
Haraholmen – Nygrån	8646		
Sea area off Nygrån	5456		
Skelleftehamn – Gåsören	8446		
Sea area off Gåsören	2326		
Sea area off Bjuröklubb	2326		
NE of Nordvalen	3426		
SW of Nordvalen	3426		
Western Quark (W of Holmöarna)	6456		
Umeå – Väktaren	6456		
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