



Eisbericht Nr. 102

Amtsblatt des BSH

Jahrgang 97

Nr. 102

Friday, 12.04.2024

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Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 80 cm dickes, in den südlichen bis 60 cm dickes Festeis. Auf See treibt im Norden zumeist 40–70 cm dickes, sehr dichtes, örtlich aufgepresstes und übereinandergeschobenes Eis, das teilweise schwer zu passieren ist. Weiter südlich treibt bis 40 cm dickes, dichtes Eis. Entlang beider Küsten befinden sich Rinnen mit meist sehr lockerem Eis und örtlich etwas Treibeis. An den Küsten von Norra Kvarken liegt bis 50 cm dickes Festeis. Auf See ist meist offenes Wasser mit im Westen etwas Treibeis entlang der Küste. An den Küsten der Bottensee kommt bis 35 cm dickes Festeis im Norden und morsches Festeis im Süden vor. Im Nordwesten treibt vor der Küste 10–30 cm dickes Eis verschiedener Konzentration. Im Schärenmeer kommt meist offenes Wasser vor. Im Norden des Finnischen Meerbusens liegt morsches Festeis entlang der Küste.

Overview

In the Bay of Bothnia there is fast ice in the archipelagos, up to 80 cm thick in the north and up to 60 cm thick in the south. At sea in the north, there is mostly 40–70 cm thick, very close, ridged and rafted ice that is difficult to force at places. Further south there is up to 40 cm thick close ice. Along both coasts are leads with very open ice and some drifting ice at places. In the Quark there is up to 50 cm thick fast ice at the coasts. At sea there is mainly open water with some drift ice along the western coast. At the coasts of the Sea of Bothnia there is up to 35 cm thick fast ice in the north and rotten fast ice in the south. In the north-west 10–30 cm thick drift ice of varying concentration is present off the coast. In the Archipelago Sea is mainly open water. In the Gulf of Finland is rotten fast ice along the northern coast.

Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast ice; 50–80 cm thick in the north and 40–60 cm thick in the south. In the northeast the fast ice stretches out to Malören, Kemi-3, Oulu-3 and Raahelighthouse. North of 64°10'N there is very close, 40–70 cm thick, ridged and rafted ice. The ice field is difficult to force at places. Along the Swedish coast runs a lead with very open ice and some

thicker floes in the northern part. Along the Finnish coast is a lead with very open ice and at places drift ice or thicker floes in the north and open water in the south. In the southern central Bay of Bothnia is close, 10–40 cm thick drift ice. Along the coasts is very open ice or open water.

Some ice melt and a mainly northeasterly ice drift are expected over the weekend.

The Quark

There is 30–50 cm thick, rotting fast ice in the Vaasa archipelago out to Ensten. Along the Swedish

coast there is up to 40 cm thick fast ice. At sea is mostly open water with some drift ice at places

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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along the Swedish coast and north of Holmögdad. Some ice melt is expected over the weekend and

the ice will drift mainly in northeasterly directions.

Sea of Bothnia

Along the coasts there is up to 35 cm thick fast ice in inner bays in the northern part. In the southern part is rotten fast ice or open water. On Ångermanälven, there is 15–35 cm thick fast ice. Off the Swedish coast north of about Högbonden, there is

very open to close, 10–30 cm thick drift ice, partly ridged. Further out is open water.

Ice melt will continue over the weekend especially in the southern part. Some mainly northeasterly ice drift is expected in the north.

Archipelago Sea and Åland Sea

In the Archipelago Sea there is mainly open water with some remnants of rotten ice. In the Åland Sea

it is mostly ice-free.

Ice melt will continue the coming day.

Gulf of Finland

In the archipelagos along the northern coast and the coast of Vyborg Bay there is rotten fast ice. Further out is open water. In Lake Saimaa is 25–

50 cm thick ice with open areas.

Ice melt will continue over the weekend.

Dr. W. Aldenhoff

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.
	Hamina	2000 dwt	II	08.04.
	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 Örnsköldsvik	2000 dwt	IB	12.04.
	Holmsund	2000 dwt	IB	12.04.
	Ångermanälven	2000 dwt	IB	27.03.
	Härnösand	2000 dwt	IB	26.02.
	Söråker and Sundsvall	2000 dwt	II	09.04.

Finland/Sweden

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, SISU and URHO assist in the Bay of Bothnia. OTSO and KONTIO assist in the southern Bay of Bothnia. ZEUS and ALE assist in the Quark.

Russia

There are restrictions for small crafts going to St. Petersburg, Vyborg, Vysotsk and Primorsk. Barge towed by tug not allowed to navigate in ice. Vessels without ice class to Vyborg, Vysotsk and Primorsk are only allowed with icebreaker assistance, with ice class Ice 1 or higher according to instructions.

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

Baltic Sea Ice Code

<p>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</p> <p>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</p>	<p>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</p> <p>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</p>
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Finland, 11.04.2024

Röyttä – Etukari	8546	Raahe lighthouse – Nahkiainen	4446
Etukari – Ristinmatala	8546	Latitude Marjaniemi – Ulkokalla, Sea	9416
Ajos – Ristinmatala	8546	Rahja harbour – Välimatala	8446
Ristinmatala – Kemi 2	7476	Vaelimatala to line Ulkokalla – Ykskivi	1106
Kemi 2 – Kemi 1	6676	Sea betw. lat. of Ulkokalla –Pietarsaari	4476
Sea area SW of Kemi 1	6676	Ykspihlaja – Repskär	8446
Kemi 2 – Ulkokrunni – Virpiniemi	8576	Repskär – Kokkola lighthouse	3476
Oulu harbours – Kattilankalla	8546	Sea area off Kokkola lighthouse	1006
Kattilankalla – Oulu 1	6476	Pietarsaari – Kallan	8446
Sea area SW of Oulu 1	6476	Sea area off Kallan	1006
High Sea N of the latitude of Marjaniemi	9006	Sea lat. Pietarsaari – NE Nordvalen	2326
Raahe harbour – Heikinkari	8546	Sea area ENE of Nordvalen	1316
Heikinkari – Raahe lighthouse	6476	Sea area Nordvalen to W of Norrskär	3736
		Vaskiluoto – Ensten	8446

Ensten – Vaasa lighthouse	1216	Sea area off Skagsudde	3356
Vaasa lighthouse – Norrskär	1206	Fairway W of Ulvöarna	8446
Sea area SW of Norrskär	2716	Sea area E of Ulvöarna	3356
Kaskinen – Sälgrund	1302	Ångermanälven north Sandö Bridge	8444
Sea area off Sälgrund	1302	Ångermanälven south Sandö Bridge	8444
High sea from N to latitude Yttergrund	1302	Härnösand – Härnön	2324
Pori harb. to line Pori lighth. – Säppi	0//2	Sea area off Härnö	1404
Rauma, Harbour – Kylmäpihlaja	0//2	Sundsvall – Draghällan	1406
Uusikaupunki harbour – Kirsta	1302	Draghällan – Åstholmsudde	1406
Naantali and Turku – Rajakari	1702	Off Åstholmsudde and Brämön	1406
Rajakari – Lövskär	1302	Hudiksvallfjärden	8392
Lövskär – Korra	1702	Iggesund – Agö	8392
Korra – Isokari	0//2	Sandarne – Hällgrund	8392
Lövskär – Berghamn	0//2	Ljusnefjärden – Storjungfrun	8392
Berghamn – Stora Sottunga	0//2	Gävle – Eggegrund	1302
Stora Sottunga – Ledskär	0//2		
Lövskär – Grisselborg	0//2		
Koverhar – Hästö Busö	0//2		
Inkoo a. Kantvik – sea area Porkkala	1302		
Helsinki harbours – Harmaja	1302		
Fairway Helsinki – Porkkala – Rönnskär	0//2		
Vuosaari harbour – Eestiluoto	0//2		
Porvoo harbours – Varlax	1702		
Varlax – Porvoo lighthouse	0//2		
Valko Harbour – Täktarn	0//2		
Archipelago fairway Boistö – Glosholm	0//2		
Archipelago fairway Glosholm–Helsinki	0//2		
Kotka – Viikari	1102		
Viikari – Orregrund	0//2		
Orregrund – Tiiskeri	0//2		
Hamina – Suurmusta	3326		
Suurmusta – Merikari	0//5		
Merikari – Kaunissaari	0//5		
Russian Federation, 12.04.2024			
Vyborg, port and bay	22//		
Island Vichrevoj – Island Sommers	11//		
Sweden, 12.04.2024			
Karlsborg – Malören	8646		
Sea area off Malören	5676		
Luleå – Björnklack	8646		
Björnklack – Farstugrunden	5576		
E and SE of Farstugrunden	5576		
Sandgrönn fairway	6556		
Rödkallen – Norströmsgrund	5576		
Haraholmen – Nygrån	6556		
Sea area off Nygrån	5556		
Skelleftehamn – Gåsören	8446		
Sea area off Gåsören	5456		
Sea area off Bjuröklubb	5456		
NE of Nordvalen	1406		
SW of Nordvalen	1406		
Western Quark (W of Holmöarna)	5456		
Umeå – Väktaren	2456		
SE of Väktaren	1406		
NE and SE of Sydostbrotten	1406		
Fairway to Husum	1356		
Örnsköldsvik – Hörnskatan	8446		
Hörnskatan – Skagsudde	8446		