



Eisbericht Nr. 96

Amtsblatt des BSH

Jahrgang 97

Nr. 96

Thursday, 04.04.2024

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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 mit örtlich etwas Treibeis. Auf See treibt im Nordwesten 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 sehr lockeres bis lockeres, 10–40 cm dickes Eis. 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 10–40 cm dickes, dichtes Eis. Im Schärenmeer kommt morsches Festeis und offenes Wasser vor. Im Norden des Finnischen Meerbusens liegt bis 55 cm dickes Festeis; auf See treibt ganz im Nordosten 10–35 cm dickes Eis. Im Väinameri und Mälaren 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 with some drift ice at places. 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 is 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 10–40 cm thick, very open to open ice. 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 20–40 cm thick, 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 northern coast of the Gulf of Finland. At sea in the extreme northeast there is 10–35 cm thick ice. In Väinameri and Mälaren 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. West of about 23°20'E, there is 30–70 cm thick, ridged and rafted, very close ice to about 64°10'N in the south. The ice field is difficult to force at places, but areas with new ice are pre-

sent in the north. Further south to Holmöarna there is close to very close, 10–40 cm thick drift ice. In the eastern part runs a partly new ice covered wide lead with some thicker drift ice around Ulkokalla and southwest of Nahkianinen.

With light to moderate frost new ice formation is expected with only minimal ice drift.

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. At sea there is 10–40 cm thick, very open to open ice; but very

close ice is present north of Valassaaret and east of Holmöarna.

With light frost some new ice formation is expected and the ice will drift to west.

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 south is partly rotten. On Ångermanälven, there is 15–40 cm thick fast ice. Off the Swedish coast north of

about Brämön, there is open to close, 10–40 cm thick ice, partly ridged. Off the coast in the east there is open water.

Some new ice formation may occur in the north and the ice will drift to the northwest.

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

rotten fast ice in bays along the coast.

No mayor change is expected.

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

locally some broken ice.

No mayor change is expected.

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 10–20 cm thick fast ice and in the Bjerkesund there is very open ice. Off the northern fast ice there is, very open to open ice east of Kotka and 10–35 cm

thick close ice is present around Sommers. From St. Petersburg to Kotlin there is very open ice and open ice is present north of Kotlin. In Lake Saimaa is 25–50 cm thick ice with open areas.

Some ice formation is possible in sheltered places. The ice will drift to the west.

Gulf of Riga

In Väinameri there is rotten fast ice in places near the coasts. On the fairways it is ice-free.

The remaining ice will slowly melt.

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.
	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.

Finland/Sweden

The transit traffic west of Holmöarna is temporarily prohibited.

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 and Primorsk. 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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Finland, 04.04.2024

Röyttä – Etukari	8546	Ensten – Vaasa lighthouse	3356
Etukari – Ristinmatala	8546	Vaasa lighthouse – Norrskär	3356
Ajos – Ristinmatala	8546	Sea area SW of Norrskär	3356
Ristinmatala – Kemi 2	7476	Kaskinen – Sälgrund	8442
Kemi 2 – Kemi 1	5676	Sea area off Sälgrund	1302
Sea area SW of Kemi 1	5676	High sea from N to latitude Yttergrund	1312
Kemi 2 – Ulkokrunni – Virpiniemi	7476	Pori harb. to line Pori lighth. – Säppi	1302
Oulu harbours – Kattilankalla	8546	Rauma, Harbour – Kylmäpihlaja	1302
Kattilankalla – Oulu 1	7476	Uusikaupunki harbour – Kirsta	1302
Sea area SW of Oulu 1	5676	Naantali and Turku – Rajakari	5392
High Sea N of the latitude of Marjaniemi	9006	Rajakari – Lövskär	1302
Raahe harbour – Heikinkari	8546	Lövskär – Korra	8392
Heikinkari – Raahe lighthouse	6476	Korra – Isokari	1302
Raahe lighthouse – Nahkiainen	3006	Lövskär – Berghamn	1302
Latitude Marjaniemi – Ulkokalla, Sea	9416	Berghamn – Stora Sottunga	1302
Rahja harbour – Välimatala	8446	Stora Sottunga – Ledskär	1302
Vaelimatala to line Ulkokalla – Ykskivi	3836	Lövskär – Grisselborg	1302
Sea betw. lat. of Ulkokalla – Pietarsaari	9326	Grisselborg – Norparskär	1302
Ykspihlaja – Repskär	7476	Hanko – Vitgrund	1302
Repskär – Kokkola lighthouse	5476	Vitgrund – Utö	1302
Sea area off Kokkola lighthouse	1306	Koverhar – Hästö Busö	1302
Pietarsaari – Kallan	8446	Inkoo a. Kantvik – sea area Porkkala	1302
Sea area off Kallan	1306	Helsinki harbours – Harmaja	1302
Sea lat. Pietarsaari – NE Nordvalen	5356	Harmaja – Helsinki lighthouse	1302
Sea area ENE of Nordvalen	5356	Fairway Helsinki – Porkkala – Rönnskär	1302
Sea area Nordvalen to W of Norrskär	3356	Vuosaari harbour – Eestiluoto	1302
Vaskiluoto – Ensten	7356	Eestiluoto – Helsinki lighthouse	1302
		Porvoo harbours – Varlax	1302

Varlax – Porvoo lighthouse	1302	Trälhavet – Furusund – Kapellskär	1000
Valko Harbour – Tåktarn	8445	Stockholm – Trälhavet – Klövholmen	1000
Archipelago fairway Boistö – Glosholm	1305	Köping – Kviksund	1101
Archipelago fairway Glosholm–Helsinki	1302	Västerås – Grönsö	1101
Kotka – Viikari	1305	Grönsö – Södertälje	1101
Viikari – Orregrund	1305	Stockholm – Södertälje	1101
Orregrund – Tiiskeri	1305		
Hamina – Suurmusta	8446		
Suurmusta – Merikari	1306		
Merikari – Kaunissaari	2326		

Russian Federation, 04.04.2024

Port of St. Petersburg	11//
St. Petersburg – E-point island Kotlin	11//
E-point Kotlin – long. lighth. Tolbukhin	21//
Lighth. Tolbukhin – lighth. –Šepelevskij	21//
Lighthouse Šepelevskij – island Sescar	22//
Vyborg, port and bay	88//
Island Vichrevoj – Island Sommers	53//
Strait Bjerkesund	11//
E-point Bol'šoj Ber'ozovyj – Šepelevskij	11//

Sweden, 04.04.2024

Karlsborg – Malören	8646
Sea area off Malören	5676
Luleå – Björnklack	8646
Björnklack – Farstugrunden	5576
E and SE of Farstugrunden	5576
Sandgrönn fairway	6556
Rödkaullen – Norströmsgrund	5576
Haraholmen – Nygrån	6556
Sea area off Nygrån	5556
Skelleftehamn – Gåsören	8446
Sea area off Gåsören	5576
Sea area off Bjuröklubb	5576
NE of Nordvalen	3456
SW of Nordvalen	3456
Western Quark (W of Holmöarna)	2456
Umeå – Väktaren	2456
SE of Väktaren	2456
NE and SE of Sydostbrotten	3456
Fairway to Husum	5456
Örnsköldsvik – Hörnskatan	8446
Hörnskatan – Skagsudde	8446
Sea area off Skagsudde	3456
Fairway W of Ulvöarna	8446
Sea area E of Ulvöarna	4456
Ångermanälven north Sandö Bridge	8444
Ångermanälven south Sandö Bridge	8444
Härnösand – Härnön	4454
Sea area off Härnön	4454
Sundsvall – Draghällan	2426
Draghällan – Åstholmsudde	2426
Off Åstholmsudde and Brämön	3456
Hudiksvallfjärden	8346
Iggesund – Agö	8346
Sandarne – Hällgrund	8346
Ljusnefjärden – Storjungfrun	8346
Gävle – Eggegrund	1306
Hallstavik – Svartklubben	8392