



Eisbericht Nr. 76

Amtsblatt des BSH

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Nr. 76

Wednesday, 15.03.2023

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Übersicht

In den Schären der Bottenwiek befindet sich im Norden bis 60 cm dickes Festeis und im Süden bis 35 cm dickes Festeis. Auf das Festeis folgt im Norden und Westen dünnes, ebenes und aufgeschobenes Eis bis Kvarken. Ansonsten treibt auf See im Norden bis 45 cm dickes und im Süden bis 30 cm dickes, teilweise aufgedichtetes und aufgeschobenes, sehr dichtes Eis. Es kommen aber auch Rinnen im Eisfeld vor. In Kvarken liegt bis 35 cm dickes Festeis in den Schären und Buchten und auf See kommt dichtes bis sehr dichtes, 3–15 cm dickes Eis vor. In der Bottensee und dem Schärenmeer kommt entlang der Küsten 5–40 cm dickes, ebenes Eis oder Festeis vor; weiter außerhalb zumeist Neueis. Im Mälarsee liegt 5–15 cm dickes Eis oder Neueis. Im Finnischen Meerbusen liegt in den östlichsten Buchten bis 40 cm dickes Festeis. Auf See treibt im Osten zumeist sehr dichtes, 5–25 cm dickes Eis. In den Schären und Buchten entlang der nördlichen Küste kommt Festeis vor sowie Neueis weiter außerhalb vor. Im Nordosten des Rigaischen Meerbusen befindet sich 10–20 cm dickes Festeis oder sehr dichtes Eis in geschützten Buchten.

Overview

In the archipelagos of the Bay of Bothnia, there is up to 60 cm thick fast ice in the north and up to 35 cm thick fast ice in the south. Off the fast ice in the north and west, there is rafted, thin level ice to the Quark. Else at sea, there is very close ice that is up to 45 cm thick in the north and up to 30 cm thick in the south. The ice field is partly ridged and rafted but also leads occur. In the Quark, there is up to 35 cm thick fast ice in the archipelagos and bays and at sea, there is 3–15 cm thick, close to very close ice. In the Sea of Bothnia and the Archipelago Sea, 5–40 cm thick fast ice or level ice is present along the coasts and new ice further out. In Lake Mälaren, there is 5–15 cm thick ice and new ice. In the Gulf of Finland, up to 40 cm thick fast ice is present in the easternmost bays. At sea, there is mostly very close, 5–25 cm thick ice in the eastern part. In the archipelagos and bays along the northern coast, there is fast ice and new ice further out. In the northeastern Gulf of Riga, there is 10–20 cm thick fast ice or very close ice in sheltered bays.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 30–60 cm thick fast ice and compact ice, out to Malören, Kemi-3 and Kattilankalla. North and west of the line Kemi-2 – Norströmsgrund – Simpgrund – Valassaaret, there is rafted, thin level ice with a narrow lead with new ice in the west. Else at sea, there is very close, 20–45 cm thick

and ridged ice north of about 65°00'N and 10–30 cm thick, very close and partly ridged and rafted ice elsewhere to the Quark. Cracks and leads occur in the ice field. In the southern Bay of Bothnia, there is 15–40 cm thick fast ice in the archipelagos and a narrow lead off the fast ice.

With moderate to severe frost, ice growth contin-

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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ues the coming day and new ice will form in leads.

The Quark

There is 15–40 cm thick fast ice in the Vaasa archipelago out to Ensten. Further out, there is very close, 5–25 cm thick ice to Norra Glöppsten. On the Swedish side, there is mostly up to 35 cm thick fast ice in inner bays. At sea, there is 3–15 cm

Sea of Bothnia

In the archipelagos along the eastern coast, there is 15–30 cm thick fast ice. Further out in the north, there is very close ice with a brash ice barrier and new ice. Further out in the south, there is thin level ice. Along the western coast, there is thin level ice or new ice in sheltered bays in the south and up to 40 cm thick fast ice in inner bays in the north.

Archipelago Sea and Åland Sea

At the eastern coast, there is 5–15 cm fast or level ice in the inner bays and new ice further out in the archipelago. In the western and central part, thin level ice is present in inner bays and new ice fur-

Northern Baltic

In Lake Mälaren, there is 5–15 cm thick fast in the western part. Else, there is thin level ice or new ice. New ice occurs in sheltered places along the

Gulf of Finland

From St. Petersburg out to Kotlin and in the bay north of Kotlin, there is 30–50 cm thick fast ice and 20–35 cm thick compact ice in the fairway. In the Bay of Vyborg, there is 20–40 cm thick fast ice and in the Bjerkesund, there is 15–25 cm thick fast ice. East of the latitude of Bol'shoj T'uters, there is mostly very close, 5–25 cm thick drift ice. The ice field is ridged at places and there are areas with very open drift ice. Further east to Gogland and in the

Gulf of Riga

In Väinameri, there is 10–20 cm thick fast ice and very close drift ice near the coasts. On the fairway is open water. In the Bay of Pärnu, there is very close drift ice up to the line Manilaid – Uulu and

Skagerrak and Kattegat

New ice and up to 30 cm thick fast is present in some inner Norwegian Fjords. At some places also thicker ice occurs. Close new ice is present near

Swedish Lakes

Thin level ice or new ice is present in sheltered bays of Lake Vänern.

The ice will drift slightly to the southeast.

thick, very open to close ice north of about Norrskär and very close ice east of Holmöarna. Some ice growth and ice formation is expected the coming day. The ice will slowly drift to the south-east.

Slightly off the western coast, there is new ice. On Ångermanälven, there is 20–40 cm thick fast or level ice.

Some ice formation and ice growth is possible along the coasts in the north and during night also in the south. The ice will slightly drift south-east/east.

ther out.

Some ice may form during night but else no larger changes are expected the coming day.

outer coast.

Some ice may form during night but else no larger changes are expected the coming day.

southern Narva Bay, there is 2–10 cm thick, very open drift ice. Along the northern coast, there is 15–35 cm thick fast ice in the eastern archipelagos. Further out, there is level ice. In the western archipelagos, there is 5–20 cm thick fast ice and new ice further out.

Some ice formation is possible in the eastern part the coming day. The ice will drift to the east/northeast.

open water to the line Liu – Cape Suurna.

Some ice melt is possible the coming day but else no larger changes are expected. The ice will drift to the east/northeast.

Oslo and in the Drammensfjord.

No larger changes are expected the coming day.

No larger changes are expected the coming day.

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1600 kW	1 C	23.12.
Finland	Tornio, Kemi and Oulu	4000 dwt	IA	22.02.
	Raahe	4000 dwt	IA	08.03.
	Kalajoki, Kokkola and Pietarsaari	2000 dwt	IA	08.03.
	Vaasa	2000 dwt	IB	08.03.
	Kristiinankaupunki, Pori, Rauma and Uusikaupunki	2000 dwt	II	12.03.
	Kaskinen, Inkoo, Kantvik, Helsinki, Sköldvik and Mussalo	2000 dwt	II	07.01.
	Loviisa, Kotka and Hamina	2000 dwt	I	08.03.
Russia	Vyborg and Vysotsk	-	Ice 1	08.02.
Sweden	Karlsborg	4000 dwt (2000 t)	IA	28.02.
	Lulea	4000 dwt	IA	28.02.
	Haraholmen and Skelleftehamn	4000 dwt	IA	04.03.
	Holmsund	2000 dwt	IC	07.02.
	Rundvik and Husum	2000 dwt	IC	04.03.
	Örnsköldsvik	2000 dwt	IC	13.02.
	Angermanälven	2000 dwt	IB	07.01.
	Söraker, Sundsvall and Söderhamn	2000 dwt	IC	13.02.
	Köping and Västerås	2000 dwt	IC	06.03.
	Balsta	1300/2000 dwt	IC/II	22.12.
	Härnösand, Stocka, Hudiksvall, Iggesund, Orrskär and Norrsundet	2000 dwt	II	06.03.

Estonia**Icebreakers:**

EVA-316 assists in the port of Pärnu. BOTNICA assists to the port of Sillamäe.

Finland/Sweden

The Saimaa Canal is closed for traffic since 4th January.

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.

The traffic separation schemes in the Quark are temporarily out of use from 7 February due to ice conditions.

Icebreakers:

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

Norway

Husøysund and Vestfjorden (Tønsberg): Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size. 31.01.23

Tønsberg indre havn (Tønsberg): Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice. 31.01.23

Russia

There are restrictions for small crafts going to Vysotsk, Vyborg, St. Petersburg, Ust-Luga and Primorsk. No sailing of barge by tug to Vyborg and Vysotsk.

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

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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Estonia, 15.03.2023

Shipping route from Narva-Jõssuu	52/2
Kunda, port and bay	51/1
Paernu, port and bay	51/5
Moonsund	1//0

Finland, 15.03.2023

Röyttä – Etukari	8546
Etukari – Ristinmatala	6456
Ajos – Ristinmatala	6456
Ristinmatala – Kemi 2	5876
Kemi 2 – Kemi 1	5876
Sea area SW of Kemi 1	5876
Kemi 2 – Ulkokrunni – Virpiniemi	6456
Oulu harbours – Kattilankalla	7456
Kattilankalla – Oulu 1	6456
Sea area SW of Oulu 1	5876
High Sea N of the latitude of Marjaniemi	5876
Raahe harbour – Heikinkari	8346
Heikinkari – Raahe lighthouse	7356

Raahe lighthouse – Nahkiainen	5356
Latitude Marjaniemi – Ulkokalla, Sea	5876
Rahja harbour – Välimatala	7356
Vaelimatala to line Ulkokalla – Ykskivi	5356
Sea betw. lat. of Ulkokalla – Pietarsaari	5356
Ykspihlaja – Repskär	7356
Repskär – Kokkola lighthouse	5356
Sea area off Kokkola lighthouse	5356
Pietarsaari – Kallan	8346
Sea area off Kallan	5356
Sea lat. Pietarsaari – NE Nordvalen	5756
Sea area ENE of Nordvalen	4756
Sea area Nordvalen to W of Norrskär	4146
Vaskiluoto – Ensten	7756
Ensten – Vaasa lighthouse	5756
Vaasa lighthouse – Norrskär	4146
Sea area SW of Norrskär	2006
Kaskinen – Sälgrund	5145
Sea area off Sälgrund	2005
Pori harb. to line Pori lighth. – Säppi	8745

Rauma, Harbour – Kylmäpihlaja	3005	Sea area off Malören	5476
Kylmäpihlaja – Rauma lighthouse	1005	Luleå – Björnklack	8546
Uusikaupunki harbour – Kirsta	8145	Björnklack – Farstugrunden	5256
Kirsta – Isokari	1005	E and SE of Farstugrunden	5256
Naantali and Turku – Rajakari	5142	Sandgrönn fairway	8546
Rajakari – Lövskär	1000	Rödskallen – Norströmsgrund	5256
Lövskär – Korra	3001	Haraholmen – Nygrån	8346
Lövskär – Berghamn	1000	Sea area off Nygrån	5256
Lövskär – Grisselborg	1000	Skelleftehamn – Gåsören	5336
Hanko – Vitgrund	1000	Sea area off Gåsören	5336
Koverhar – Hästö Busö	4041	Sea area off Bjuröklubb	5336
Inkoo a. Kantvik – sea area Porkkala	8145	NE of Nordvalen	5356
Helsinki harbours – Harmaja	3015	SW of Nordvalen	4236
Harmaja – Helsinki lighthouse	0//5	Western Quark (W of Holmöarna)	8246
Fairway Helsinki – Porkkala – Rönnskär	0//5	Umeå – Väktaren	5146
Vuosaari harbour – Eestiluoto	3025	SE of Väktaren	4236
Eestiluoto – Helsinki lighthouse	0//5	NE and SE of Sydostbrotten	2126
Porvoo harbours – Varlax	5755	Fairway to Husum	4046
Varlax – Porvoo lighthouse	0//5	Örnsköldsvik – Hörnskatan	8446
Porvoo lighthouse – Kalbådagrund	0//5	Hörnskatan – Skagsudde	5146
Valko Harbour – Täktarn	5146	Sea area off Skagsudde	4046
Archipelago fairway Boistö – Glosholm	5146	Fairway W of Ulvöarna	4046
Archipelago fairway Glosholm–Helsinki	5145	Sea area E of Ulvöarna	4046
Kotka – Viikari	8345	Ångermanälven north Sandö Bridge	8444
Viikari – Orregrund	5755	Ångermanälven south Sandö Bridge	4044
Orregrund – Tiiskeri	5756	Härnösand – Härnön	8444
Hamina – Suurmusta	5146	Sea area off Härnö	2024
Suurmusta – Merikari	5756	Sundsvall – Draghallan	5146
Merikari – Kaunissaari	5756	Draghallan – Åstholmsudde	4046
		Off Åstholmsudde and Brämön	1006
Norway, 15.03.2023		Hudiksvallfjärden	8346
Svinesund – Halden	31//	Iggesund – Agö	8346
Drammensfjord	4011	Sea area off Agö	2026
Husøysund – Tønsberg channel	8345	Sandarne – Hällgrund	8346
Tønsberg, inner harbour	8353	Sea area off Hällgrund	2026
Vestfjord (Tønsberg)	8555	Ljusnefjärden – Storjungfrun	8346
Langårsund (Kragerø)	8144	Sea area off Storjungfrun	2026
		Gävle – Eggegrund	5146
Latvia, 13.03.2023		Öregrundsgrepen	5142
Port of Riga	1000	Hallstavik – Svartklubben	5142
Riga to the Cape of Mersrags, fairway	1000	Trälhavet – Furusund – Kapellskär	4041
		Stockholm – Trälhavet – Klövholmen	2020
Russian Federation, 15.03.2023		Köping – Kvicksund	8244
Port of St. Petersburg	84/3	Västerås – Grönsö	8244
St. Petersburg – E-point island Kotlin	54/3	Grönsö – Södertälje	5144
E-point Kotlin – long. lighth. Tolbukhin	5303	Stockholm – Södertälje	5144
Lighth. Tolbukhin – lighth. –Šepelevskij	30/2	Södertälje – Fifong	4044
Lighthouse Šepelevskij – island Sescar	53/2	Fairway to Karlstad	4041
Island Sescar – Island Sommers	53/2	Fairway to Kristinehamn	5142
Island Sommers– S-point island Gogland	52/2	Fairway to Otterbäcken	4041
S-point isl. Gogland – long. p. Kunda	31/1		
Vyborg, port and bay	83/3		
Island Vichrevoj – Island Sommers	43/3		
Strait Bjerkesund	83/3		
E-point Bol'šoj Ber'ozovyj – Šepelevskij	43/2		
Luga bay	53/3		
Appr. Luga bay – line Moš.-Šepel.	53/2		
Sweden, 15.03.2023			
Karlsborg – Malören	6456		