



Eisbericht Nr. 89

Amtsblatt des BSH

Jahrgang 95

Nr. 89

Friday, 01.04.2022

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Übersicht

In den Schären der Bottenwiek liegt im Norden 40–85 cm dickes Festeis und im Süden 30–55 cm dickes Festeis. Entlang des Festeises im Norden und Nordwesten kommt eine mit Neueis bedeckte Rinne vor. Auf See treibt nördlich der Line Blackkallan - Helsinkallan 30–70 cm dickes, sehr dichtes, aufgeschobenes und aufgepresstes Eis, südlich davon kommt meist offenes Wasser vor. In Norra Kvarken liegt in den Schären bis zu 50 cm dickes Festeis und auf See kommt offenes Wasser vor. Entlang der Küsten und in den Schären der Bottensee, dem Schärenmeer und der Ålandsee liegt Festeis oder dünnes, ebenes Eis. Im Finnischen Meerbusen liegt entlang der Nordküste und im Osten bis 45 cm dickes Festeis. Östlich von Moščnyj treibt auf See im Süden sehr dichtes bis dichtes, 15–30 cm dickes Eis und im Norden sehr lockeres Eis und Neueis. Im Rigaischen Meerbusen kommt an der Küste bis zu 25 cm dickes, örtlich morsches Eis im Moonsund und in der Pärnubucht vor. In der nördlichen Ostsee und dem Vänern kommt im geschützten Buchten noch örtlich morsches Eis vor.

Overview

In the archipelagos of the Bay of Bothnia, there is 40–85 cm thick fast ice in the north and 30–55 cm thick fast ice in the south. Outside the fast ice in the north and northwest there is a new ice covered lead. At sea there is mostly 30–70 cm thick, very close, ridged and rafted ice north of the line Blackkallan – Helsinkallan and new ice and open water south of the line. In Norra Kvarken, there is up to 50 cm thick fast ice in the archipelagos and open water at sea. Along the coasts and archipelagos of the Sea of Bothnia, the Archipelago Sea and Åland Sea, there is fast ice or thin level ice. In the Gulf of Finland, there is up to 45 cm thick fast ice along the northern and eastern coast. At sea east of Moščnyj, there is mostly very close to close, 15–30 cm thick ice in the south and very open ice and new ice in the north. In the Gulf of Riga, there is up to 25 cm thick ice, rotten in places, at the coasts of Moonsund and in Pärnu Bay. In the northern Baltic and Lake Vänern thin rotten ice is still present in some sheltered bays.

Bay of Bothnia

In and outside the northeastern archipelagos, there is 55–85 cm thick fast ice, reaching out to Kemi-3, Oulu-2 and Jaakko. In the northwestern archipelagos the fast ice is 40–70 cm thick. Off the fast ice there is 30–70 cm thick consolidated ice. Further out runs a 10-20nm wide lead covered with new ice from Skelleftea Bay to Oulu-1. At sea, there is an area with very close, ridged and 40–70 cm thick

ice around 64°50' N 23°20' E. Else at sea, there is very close, 30–60 cm thick, ridged and rafted ice north of the line Blackkallan – Helsinkallan. In the east the ice is difficult to force in places. In the southern Bay of Bothnia, there is 30–50 cm thick fast ice along the Swedish coast; on the eastern coast there is 30–55 cm thick fast ice. At sea, there is mostly open water or new ice.

Herstellung und Vertrieb

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New ice formation will continue over the weekend and the overall ice drift will be towards the north-

Norra Kvarken

In the archipelagoes off Vaasa, there is 20–50 cm thick fast ice to about Ensten. Along the Swedish coast, there is 20–40 cm thick fast ice in the archipelagos. At sea, there is open water or new ice in

Sea of Bothnia

On Ångermanälven, there is 20–50 cm thick very close ice in the upper part and mostly open water in the lower part. In sheltered bays along the western coast, there is 10–40 cm thick fast ice. Further out, there is open water in the north. Along the

Archipelago and Åland Sea

Rotten fast ice and level ice, up to 30cm thick, are present in the inner archipelagos and sheltered bays of both coasts. At the eastern coast, there is mostly open water on the fairways and in the outer

Gulf of Finland

From St. Petersburg up to the easternmost tip of Kotlin, there is 30–40 cm thick very close ice. In the Bay of Vyborg and the Bjerkesund, there is mostly 20–40 cm thick compact or fast ice and very open ice in the entrance to Vyborg Bay. At sea east of Moščnyj, there is mostly very close to close, 15–30 cm thick drift ice in the south and open water, very open ice and new ice in the north. Further west there is open water to Gogland. In the

Gulf of Riga

In Moonsund, there is rotten fast ice at the eastern coast. Further out and on the fairways, there is open water. In Pärnu Bay, there is 10–25 cm thick and rotten fast ice near the northern and eastern

Northern Baltic

In Lake Mälaren, there is rotten fast or level ice in sheltered bays and else open water. Along the Swedish coast, there is partly broken and rotten

Swedish Lakes

In Lake Vänern, there is rotten ice in bays of the northern coast.

east.

the northern part and along the coasts. Over the weekend some ice formation is expected and the overall ice drift is towards the east.

eastern coast, there is 20–45 cm fast ice in the inner archipelagos, and belts of 10-30cm thick ice are drifting in places somewhat further out. Overall no larger changes are expected over the weekend.

archipelagos. Overall no larger changes are expected over the weekend.

archipelagos of the northern coast, there is 10–35 cm thick rotting fast ice in the west and 30–55 cm thick fast ice in the east. Further out new ice and open water. At the southern coast new ice and open water is present east of about 26°45'E and in Luga Bay and eastwards there is very close ice. Some new ice formation is expected over the weekend and the ice drift will be mostly weak.

coast, further out there is narrow belt of close ice. In the western part there is open water. No larger changes are expected over the weekend.

thin ice in the Stockholm archipelago. No larger changes are expected the coming day, but some ice melt is possible.

Some ice melt, but else no larger changes are expected over the weekend.

Dr. J.Holfort

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1600 kW	1C	17.12.
Finland	Tornio, Kemi and Oulu	4000 dwt	IA	21.03.
	Raahe and Kalajoki	4000 dwt	IA	08.03.
	Kokkola and Pietarsaari	2000 dwt	IA	01.02.
	Vaasa	2000 dwt	I	31.03.
	Kaskinen	2000 dwt	II	31.03.
	Kristiinankaupunki, Pori, Rauma, Uusikaupunki, Naantali and Turku	2000 dwt	II	01.01.
	Loviisa	2000 dwt	II	24.03.
	Kotka and Hamina	2000 dwt	II	29.03.
	Mussalo	2000 dwt	II	25.12.
Russia	Vyborg	-	Ice 1	30.12.
	Vysotsk	-	Ice 2	14.01.
	Primorsk	-	Ice 2	27.01.
	Ust-Luga	-	Ice 1	04.01.
	St. Petersburg	-	required	31.12.
Sweden	Karlsborg	4000 dwt (2000 t)	IA	30.03.
	Luleå	4000 dwt	IA	19.02.
	Haraholmen and Skelleftehamn	4000 dwt	IA	19.02.
	Holmsund, Rundvik and Husum	2000 dwt	IC	14.03.
	Örnsköldsvik	2000 dwt	II	30.03.
	Ångermanälven	2000 dwt	IB	06.01.
	Härnösand	2000 dwt	II	22.12.

Information of the Icebreaker Services

Estonia

Icebreaker: EVA-316 assists to the port of Pärnu.

Finland/Sweden

The Saimaa Canal is closed for traffic from 30th of January.

The traffic separation schemes in the Quark are temporarily out of use from 15 January 2022.

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 78. 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:

OTSO, KONTIO, URHO, POLARIS, NORDICA, SISU, FREJ, ALE and YMER assist in the Bay of Bothnia. ZEUS assist in the Quark and in the Sea of Bothnia, VOIMA in the eastern Gulf of Finland.

Norway

Hellefjorden (Kragerø): Navigation temporarily closed. (28.02.22)

Russia

There are restrictions for small crafts going to Vysotsk, Vyborg, St. Petersburg, Ust-Luga and Primorsk.

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 , 01.04.2022

Pärnu, port and bay 7375
Moonsund 1//0

Finland , 01.04.2022

Roeyttae – Etukari 8646
Etukari – Ristinmatala 8546
Ajos – Ristinmatala 8546
Ristinmatala – Kemi 2 6476
Kemi 2 – Kemi 1 9126
Sea area SW of Kemi 1 9026
Kemi 2 – Ulkokrunni – Virpiniemi 8546
Oulu harbours – Kattilankalla 8546
Kattilankalla – Oulu 1 6476
Sea area SW of Oulu 1 5476
High Sea N of the latitude of Marjaniemi 5476
Raahe harbour – Heikinkari 8546
Heikinkari – Raahe lighthouse 7476
Raahe lighthouse – Nahkiainen 5476
Latitude Marjaniemi – Ulkokalla, Sea 5476
Rahja harbour – Välimatala 6366
Vaelimatala to line Ulkokalla – Ykskivi 5476
Sea betw. lat. of Ulkokalla –Pietarsaari 5476
Ykspihlaja – Repskaer 8846
Repskaer – Kokkola lighthouse 6866
Sea area off Kokkola lighthouse 5476
Pietarsaari – Kallan 7856
Sea area off Kallan 5876

Sea lat. Pietarsaari – NE Nordvalen 3006
Sea area ENE of Nordvalen 1016
Sea area Nordvalen to W of Norrskær 1016
Vaskiluoto – Ensten 8446
Ensten – Vaasa lighthouse 2716
Vaasa lighthouse – Norrskær 1716
Kaskinen – Sälgrund 1715
Sea area off Sälgrund 1715
Pori harb. to line Pori lighth. – Säppi 1215
Rauma, Harbour – Kylmäpihlaja 1725
Uusikaupunki harbour – Kirsta 8795
Naantali and Turku – Rajakari 1205
Rajakari – Lövskär 1205
Lövskär – Korra 1205
Lövskär – Berghamn 1105
Lövskär – Grisselborg 1105
Inkoo a. Kantvik – sea area Porkkala 7201
Helsinki harbours – Harmaja 3000
Vuosaari harbour – Eestiluoto 2000
Porvoo harbours – Varlax 3000
Varlax – Porvoo lighthouse 1000
Valko Harbour – Täktarn 7715
Archipelago fairway Boistö – Glosholm 1105
Archipelago fairway Glosholm–Helsinki 1105
Kotka – Viikari 4045
Viikari – Orregrund 1105
Hamina – Suurmusta 7845
Suurmusta – Merikari 4045

Merikari – Kaunissaari 1105

Russian Federation , 01.04.2022

Port of St. Petersburg 54/3
St. Petersburg – E-point island Kotlin 54/3
E-point Kotlin – long. lighth. Tolbuhkin 53/3
Lighth. Tolbuhkin – lighth. –Šepelevskij 53/2
Lighthouse Šepelevskij – island Sescar 53/2
Island Sescar – Island Sommers 1311
Vyborg, port and bay 84/3
Island Vichrevoj – Island Sommers 3312
Strait Bjerkesund 63/3
E-point Bol'šoj Ber'ozovyj – Šepelevskij 42/2
Luga bay 52/2
Appr. Luga bay – line Moš.-Šepel. 52/2

Sweden , 01.04.2022

Karlsborg – Maloeren 6476
Sea area off Maloeren 5576
Luleå – Bjoernklack 6476
Bjoernklack – Farstugrunden 6476
E and SE of Farstugrunden 4046
Sandgroenn fairway 6476
Roedkallen – Norstroemsgrund 3026
Haraholmen – Nygrån 6456
Sea area off Nygrån 6456
Skelleftehamn – Gåsoeren 5046
Sea area off Gåsoeren 5456
Sea area off Bjuroeklubb 5456
NE of Nordvalen 4046
SW of Nordvalen 4046
Western Quark (W of Holmoearna) 4046
Umeå – Vaektaren 4046
SE of Vaektaren 4046
Oernskoeldsvik – Hoernskaten 8446
Hoernskaten – Skagsudde 8446
Fairway W of Ulvoearna 1306
Ångermanaelven north Sandoe Bridge 5434
Ångermanaelven south Sandoe Bridge 1304
Haernoessand – Haernoen 1304
Sundsvall – Draghaellan 1101
Hudiksvallfjaerden 8442
Hallstavik – Svartklubben 8392
Koeping – Kvicksund 1201
Västerås – Grönsö 1201
Grönsö – Södertälje 1201
Stockholm – Södertälje 1201
Fairway to Kristinehamn 8392