



Eisbericht Nr. 61

Amtsblatt des BSH

Jahrgang 95

Nr. 61

Tuesday, 22.02.2022

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Übersicht

In den Schären der Bottenwiek liegt im Norden 40–70 cm dickes Festeis und im Süden 20–55 cm dickes Festeis. Außerhalb davon meist ebenes Eis, auf See treibt im Norden ein Gebiet mit 20–50 cm dickem, sehr dichtem und aufgepresstem Eis. Ansonsten befindet sich auf See sehr dichtes, 10–40 cm dickes Eis, im Westen aufgeschoben, im Osten mit Spalten und Rinnen. In Norra Kvarken kommt in den Schären bis zu 55 cm dickes Festeis vor. Auf See treibt im Osten meist dichtes, 5–30 cm dickes Eis und im Westen kommt meist dünnes ebenes Eis vor. Entlang der Küsten und in den Schären der Bottensee, dem Schärenmeer und der Ålandsee liegt Festeis oder dünnes, ebenes Eis und Neueis. Im Finnischen Meerbusen liegt entlang der Nordküste und im Osten bis 45 cm dickes Festeis. Östlich der Linie Kotka – Seskar - Sosnowy Bor treibt auf See meist sehr dichtes, 15–30 cm dickes Eis sowie offenes Wasser weiter westlich. Im Rigaischen Meerbusen befindet sich bis zu 25 cm dickes Eis im Moonsund und in der Pärnubucht. Dünnes, teilweise ebenes Eis kommt örtlich in der nördlichen Ostsee und dem Vänern vor. In einigen inneren Fjorden des Skagerraks liegt dünnes Eis oder Festeis.

Overview

In the archipelagos of the Bay of Bothnia, there is 40–70 cm thick fast ice in the north and 20–55 cm thick fast ice in the south. Outside mostly thin level ice. At sea there is an area with 20–50 cm thick, partly ridged and very close ice in the north, else there is mostly 10–40 cm thick, very close ice, rafted in the west and with leads and cracks in the east. In Norra Kvarken, there is up to 55 cm thick fast ice in the archipelagos. At sea, there is mostly 5-30cm thick close ice in the east and thin level ice in the west. Along the coasts and archipelagos of the Sea of Bothnia, the Archipelago Sea and Åland Sea, there is fast ice or thin level ice and new 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 the line Kotka – Seskar - Sosnowy Bor, there is mostly very close, 15–30 cm thick ice and open water further west. In the Gulf of Riga, there is up to 25 cm thick ice in Moonsund and Pärnu Bay. Thin ice and thin level ice occurs at places in the northern Baltic and Lake Vänern. Fast ice or thin ice is present in some inner fjords of the Skagerrak.

Bay of Bothnia

In and outside the northeastern archipelagos there is 40–70 cm thick fast ice, reaching out to Kemi-3, Oulu-2 and Johan. In the northwestern archipelagos the fast ice is 20–50 cm thick. Off the fast ice in the east, there is 20–50 cm thick consolidated ice to Kemi-2 and Oulu-1. Outside this ice and also

outside the fast ice in the north and west there is a wide area of level ice stretching southwards to south off Raahe and to Gasören, with some very close ice outside Rödkallen. At sea centered at around 64°50' N 23° E, there is an area with very close, ridged and 20–50 cm thick ice. Else at sea,

Herstellung und Vertrieb

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there is mostly very close, 20–40 cm thick ice that is rafted in the west and has cracks and small leads in the east. In the southern Bay of Bothnia, there is 20–40 cm thick fast ice along the Swedish coast; on the eastern coast there is 20–55 cm thick fast ice followed by a fringe of consolidated ice. At

Norra Kvarken

In the archipelagoes off Vaasa, there is 25–55 cm thick fast ice to Ensten; further out there is 5–30 cm thick ice of varying concentration and new ice to Sydostbrotten and Nordvalen. Along the Swedish coast, there is 20–40 cm thick fast ice in the

Sea of Bothnia

On Ångermanälven, there is 20–50 cm thick fast ice in the upper part and 15–35 cm fast or close ice in the lower part. In the bays along the western coast, there is 10–40 cm thick fast ice or new ice. and open water further out. Along the eastern

Archipelago and Åland Sea

10–30 cm thick fast ice is present in the inner archipelagos of the coasts. Further out in the east and around the Åland Islands, there is thin level ice. In the outer archipelago at the eastern coast,

Gulf of Finland

From St. Petersburg up to the longitude of Tolbuchin lighthouse, there is 30–45 cm thick fast ice. In the Bay of Vyborg and the Bjerkesund, there is mostly 25–35 cm thick fast ice. At sea east of the line Kotka – Seskar - Sosnowy Bor, there is mostly very close, 15–30 cm thick ice. Further west a region with open water. In the archipelagos of the

Gulf of Riga

In Moonsund, there is 10–20 cm thick fast near the coasts. Further out there is very close ice and on the fairways open water. In Pärnu Bay, there is 15–25 cm thick fast or very close ice to line Ma-

Northern Baltic

In Lake Mälaren, there is 10–30 cm thick fast ice or level ice in the western part, and further east, there is mostly thin level. In the central part, there are areas with open water. Along the Swedish coast,

Skagerrak and Kattegat

In some inner fjords of the Skagerrak, there is up to 30 cm thick fast ice at a few places.

Swedish Lakes

In Lake Vänern, there is 5–20cm thick partly broken fast ice in bays of the northern coast.

Dr. J.Holfort

sea in the east 20-40cm thick very close ice with cracks and in the west thin level ice.

Ice formation will continue with a slow southerly ice drift, towards Thursday temperature will be increasing, ice formation will cease and the ice will drift northwards.

archipelagos and mostly level ice further out.

Ice formation will continue with a variable ice drift, towards Thursday temperature will be increasing and the ice will drift northwards.

coast, there is 10–40 cm fast ice in the inner archipelagos, followed by a 10-15nm wide zone with 5-20cm thick ice of varying concentrations.

Some ice formation is expected until Wednesday midday.

there is mainly open water.

Some ice formation is expected until tomorrow midday.

northern coast, there is fast ice, 10–30 cm thick in the west and 20–45 cm thick in the east. In Luga Bay, there is very close ice or fast ice in places near the coast and open water further out.

The ice formation will intensify and the ice will drift towards mostly southeast/eastwards.

nilaid –Sorgu - Kabli.

Some ice formation may occur during the night and the ice will drift southeastwards.

there is partly broken thin level ice in some sheltered bays.

Some ice may form, but else no larger changes are expected.

No larger change is expected.

Some ice may form, but tomorrow ice melt is expected.

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	2000/4000 dwt	IA Super(5000kW)/IA	09.02.
	Raahe	2000 dwt	IA	16.01.
	Kokkola, Kalajoki, Pietarsaari and Vaasa	2000 dwt	IA	01.02.
	Kristiinankaupunki, Pori, Rauma, Uusikaupunki, Naantali, Turku, Koverhar, Lappohja, Helsinki and Sköldvik	2000 dwt	II	01.01.
	Kaskinen, Taalintehdas, Förby, Inkoo, Kantvik	2000 dwt	I	16.01.
	Loviisa and Kotka	2000 dwt	I	04.01.
	Hamina Mussalo	2000 dwt 2000 dwt	I II	01.01. 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 and Luleå	4000 dwt	IA	19.02.
	Haraholmen and Skelleftehamn	4000 dwt	IA	19.02.
	Holmsund, Rundvik and Husum	2000 dwt	IB	19.02.
	Örnsköldsvik	2000 dwt	IC	15.01.
	Ångermanälven	2000 dwt	IB	06.01.
	Härnösand - Skutskär	2000 dwt	II	22.12.
	Köping and Västerås	2000 dwt	IC	27.12.
	Bålsta	1300/2000 dwt	IC/II	27.12.

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, FREJ, SISU, ALE, ODEN and YMER assist in the Bay of Bothnia. ATLE assist in the Quark and ZEUS in the eastern Sea of Bothnia, NORDICA in the eastern Gulf of Finland.

Norway

Husøysund, Tønsberg indre havn and Vestfjorden (Tønsberg): Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size. (28.12.21)

Hellefjorden (Kragerø): Navigation temporarily closed. (10.01.22)

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:</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 , 22.02.2022

Paernu, port and bay 73/5
Moonsund 1//0

Norway , 21.02.2022

Svinesund – Halden 31//
Mossesund 1//1
Husøysund – Tønsberg channel 8245
Tønsberg, inner harbour 8345
Vestfjord (Tønsberg) 8345
Langårsund (Kragere) 2212

Sweden , 21.02.2022

Karlsborg – Maloeren 8546
Sea area off Maloeren 5456
Luleå – Bjoernklack 8446
Bjoernklack – Farstugrunden 5456
E and SE of Farstugrunden 5456
Sandgroenn fairway 8446
Roedkallen – Norstroemsgrund 5456
Haraholmen – Nygrån 8446
Sea area off Nygrån 5336
Skelleftehamn – Gåsoeren 5336
Sea area off Gåsoeren 5336
Sea area off Bjuroeklubb 5456
NE of Nordvalen 4336
SW of Nordvalen 4046
Western Quark (W of Holmoearna) 8346
Umeå – Vaektaren 8446
SE of Vaektaren 4046
NE and SE of Sydostbrotten 4046
Fairway to Husum 8446
Oernskoeldsvik – Hoernskaten 8446
Hoernskaten – Skagsudde 8446
Sea area off Skagsudde 3326
Fairway W of Ulvoearna 3326
Sea area E of Ulvoearna 1206
Ångermanaelven north Sandoe Bridge 5434
Ångermanaelven south Sandoe Bridge 5434
Haernoessand – Haernoen 4044
Sea area off Haernoen 4041
Sundsvall – Draghaellan 8346
Draghaellan – Åstholmsudde 4046
Off Åstholmsudde and Braemoen 4041
Hudiksvallfjaerden 8446
Iggesund – Agoe 8446
Sea area off Agoe 1206
Sandarne – Haellgrund 1206
Sea area off Haellgrund 1206
Ljusnefjaerden – Storingfrun 1206
Sea area off Storingfrun 1201
Gaevle – Eggegrund 8446
Sea area off Eggegrund 1201
Oeregrundsgrepen 3222
Hallstavik – Svartklubben 8342
Koeping – Kvicksund 8344
Västerås – Grönsö 8344
Grönsö – Södertälje 5244
Stockholm – Södertälje 5244

Södertälje – Fifong 1004
Fairway to Karlstad 8342
Fairway to Kristinehamn 8342

Finland , 22.02.2022

Roeyttae – Etukari 8446
Etukari – Ristinmatala 8846
Ajos – Ristinmatala 8846
Ristinmatala – Kemi 2 6876
Kemi 2 – Kemi 1 9136
Sea area SW of Kemi 1 5146
Kemi 2 – Ulkokrunni – Virpiniemi 8446
Oulu harbours – Kattilankalla 8446
Kattilankalla – Oulu 1 6876
Sea area SW of Oulu 1 9136
High Sea N of the latitude of Marjaniemi 5856
Raahe harbour – Heikinkari 8346
Heikinkari – Raahe lighthouse 9136
Raahe lighthouse – Nahkiainen 9256
Latitude Marjaniemi – Ulkokalla, Sea 5876
Rahja harbour – Välimatala 6366
Vaelimatala to line Ulkokalla – Ykskivi 5756
Sea betw. lat. of Ulkokalla – Pietarsaari 5346
Ykspihlaja – Repskaer 8846
Repskaer – Kokkola lighthouse 6366
Sea area off Kokkola lighthouse 5356
Pietarsaari – Kallan 7846
Sea area off Kallan 9136
Sea lat. Pietarsaari – NE Nordvalen 5756
Sea area ENE of Nordvalen 4746
Sea area Nordvalen to W of Norrskaer 4746
Vaskiluoto – Ensten 8446
Ensten – Vaasa lighthouse 5746
Vaasa lighthouse – Norrskaer 5746
Sea area SW of Norrskaer 3716
Kaskinen – Sälgrund 5746
Sea area off Sälgrund 4746
Pori harb. to line Pori lighth. – Säppi 4245
Sea W of line Pori lighthouse – Säppi 1115
Rauma, Harbour – Kymäpihlaja 7745
Kymäpihlaja – Rauma lighthouse 1115
Sea area W of Rauma lighthouse 1115
Uusikaupunki harbour – Kirsta 8745
Kirsta – Isokari 3215
Isokari – Sandbaeck 1115
Naantali and Turku – Rajakari 7245
Rajakari – Lövskär 2115
Lövskär – Korra 5145
Korra – Isokari 2105
Lövskär – Berghamn 1105
Lövskär – Grisselborg 1105
Hanko – Vitgrund 1105
Inkoo a. Kantvik – sea area Porkkala 7206
Helsinki harbours – Harmaja 3105
Vuosaari harbour – Eestiluoto 1105
Porvoo harbours – Varlax 3215
Valko Harbour – Täktarn 7746
Archipelago fairway Boistö – Glosholm 2106
Archipelago fairway Glosholm–Helsinki 1115

Kotka – Viikari	5346
Viikari – Orrengrund	2316
Orrengrund – Tiiskeri	2115
Hamina – Suurmusta	7846
Suurmusta – Merikari	5346
Merikari – Kaunissaari	4346

Russian Federation , 22.02.2022

Port of St. Petersburg	84/3
St. Petersburg – E-point island Kotlin	84/3
E-point Kotlin – long. lighth. Tolbuhkin	44/3
Lighth. Tolbuhkin – lighth. –Šepelevskij	52/2
Lighthouse Šepelevskij – island Sescar	53/3
Island Sescar – Island Sommers	53/3
Vyborg, port and bay	84/3
Island Vichrevoj – Island Sommers	53/3
Strait Bjerkesund	53/3
E-point Bol'šoj Ber'ozovyj – Šepelevskij	53/3
Luga bay	1311
Appr. Luga bay – line Moš.-Šepel.	1311