

Eisbericht Nr. 7

Amtsblatt des BSH

Jahrgang 95

Nr. 7

Tuesday, 07.12.2021

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Übersicht

In der nördlichen Bottenwiek liegt in den inneren Schären Festeis und weiter außerhalb dünnes ebenes Eis und Neueis. In der südlichen Bottenwiek, Norra Kvarken und der Bottensee befindet sich Neueis und örtlich dünnes, ebenes Eis in Schären und geschützten Buchten. Im Finnischen Meerbusen liegt dünnes, ebenes Eis ganz im Osten und Neueis entlang der nördlichen und vereinzelt entlang der südlichen Küste. Im Rigaischen Meerbusen befindet sich dünnes ebenes Eis und Neueis in Väinameri, der Pärnubucht und entlang der Küste im Norden und Nordosten. Neueis kommt im Schärenmeer, der Ålandsee, dem Mälarsee, dem Vänern und vereinzelt entlang der schwedischen Küste in der nördlichen Ostsee und im Skagerrak vor.

Overview

In the northern Bay of Bothnia, there is fast ice in the inner archipelagoes and thin level ice and new ice further out. In the southern Bay of Bothnia, Norra Kvarken and the Sea of Bothnia, there is new ice and, at places, thin level ice in the archipelagos and sheltered bays. In the Gulf of Finland, thin level ice is present in the easternmost part and new ice along the northern coast and at places along the southern coast. In the Gulf of Riga, there is thin level ice and new ice in Väinameri, Pärnu Bay and along the northern and north-eastern coast. New ice is present in the Archipelago Sea, Åland Sea, Lake Mälaren, Lake Vänern and at places along the Swedish coast of the northern Baltic and in the Skagerrak.

Bay of Bothnia

In the northern Bay of Bothnia, there is up to 20 cm thick fast ice in the inner archipelagoes from Piteå to Oulu. Further out in the east, there is thin level ice in the north and new ice in the south that extends to 14nm southwest of Kemi, 17nm southwest of Oulun portii and out to Nahkiainen. Of the fast ice in the west, there are small areas with very close, 5–15 cm thick ice. Drifting new ice is pre-

sent even further out to Gåsören – Farstugrunden and Malören. In the southern Bay of Bothnia, there is new ice along the Swedish coast and thin level ice with new ice further out along the Finnish coast. New ice formation and ice growth is expected the coming days. Some ice drift to the southwest/west is expected.

Norra Kvarken

Thin level ice is present in the inner archipelagoes at the Finnish coast. Else, new ice occurs in bays and archipelagoes.

Continued ice formation is expected the coming days.

Herstellung und Vertrieb

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Sea of Bothnia

On upper Ångermanälven and at places in the northern Bay of Bothnia and along the Finnish coast, there is thin level ice. Else, there is new ice

along the coast in the northern and southern Sea of Bothnia.

Ice formation continues the coming days.

Archipelago and Åland Sea

New ice and thin level is present in sheltered places in the Archipelago and Åland Sea. Thin level ice

occurs at places along the Finnish coast. Ice formation will continue the coming days.

Gulf of Finland

From St. Petersburg to Kotlin, there is very close 5–10 cm thick ice. Further out, there is first close thin ice to about 29°33'E, later close new ice to about 29°03'E. Thin level ice is present in the Bay of Vyborg. In the archipelagoes of the northern coast and at places along the southern coast,

there is new ice. In the northern lake Saimaa, there is 5-15cm thick level ice and new ice. In the southern Lake Saimaa and Saimaa Canal, 3-15cm thick broken ice occurs.

Ice formation and ice growth will continue the coming days.

Gulf of Riga

In Väinameri there is thin close ice and new ice on the fairways. In Pärnu Bay there is very close, nilas out to about 24°12'E and new ice further out to

about 24°30'E. Ice formation and ice growth will continue the coming days.

Northern Baltic

In Lake Mälaren, thin level ice is present in the westernmost part and some sheltered bays. Else, there is some new ice in Lake Mälaren and shel-

tered bays along the Swedish coast.

Ice formation will continue the coming days.

Southeastern Baltic

In the Curonian Lagoon, new ice is present along the eastern coast. Continued ice formation is ex-

pected the coming days.

Swedish Lakes

Ice formation has started in sheltered bays of Lake Vänern. Continued ice formation is expected the

coming days.

Skagerrak

New ice is present at sheltered areas in Norwegian fjords and some other sheltered areas.

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi and Oulu	2000 dwt	II	04.12.
	Tornio, Kemi, Oulu and Raah	2000 dwt	I	11.12.
	Raah, Kalajoki, Kokkola, Pietarsaari and Vaasa	2000 dwt	II	08.12.
	Lake Saimaa and Saimaa Canal	1300 dwt	II	04.12.
Sweden	Northern Lake Saimaa	2000 dwt	II	08.12.
	Southern Lake Saimaa and Saimaa Canal	2000 dwt	II	11.12.
	Karlsborg, Luleå, Haraholmen and Skel- leftehamn	2000 dwt	II	04.12.
Sweden	Karlsborg and Luleå	2000 dwt	IC	11.12.
	Ångermanälven	1300/2000 dwt	IC/II	04.12.
	Köping and Västerås	1300/2000 dwt	IC/II	06.12.

Information of the Icebreaker Services

Finland/Sweden

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 and ALE assist in the Bay of Bothnia.

CALYPSO assists in the northern Lake Saimaa. METEOR assists in the southern Lake Saimaa and the Saimaa Canal.

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 , 07.12.2021

Shipping route from Narva-Jõssuu	3000
Kunda, port and bay	2000
Paernu, port and bay	5021
Moonsund	4011

Finland , 07.12.2021

Roeyttae – Etukari	8745
Etukari – Ristinmatala	5245
Ajos – Ristinmatala	5245
Ristinmatala – Kemi 2	5145
Kemi 2 – Kemi 1	5145
Sea area SW of Kemi 1	5145
Kemi 2 – Ulkokrunni – Virpiniemi	5245
Oulu harbours – Kattilankalla	8745
Kattilankalla – Oulu 1	5045
Sea area SW of Oulu 1	5045
High Sea N of the latitude of Marjaniemi	5145
Raah Harbour – Heikinkari	5241
Heikinkari – Raah lighthouse	4041
Raah lighthouse – Nahkiainen	4041
Latitude Marjaniemi – Ulkokalla, Sea	4041
Rahja harbour – Välimatala	3011
Välimatala to line Ulkokalla – Ykskivi	3011
Ykskivilaja – Repsaer	5141
Repskaer – Kokkola lighthouse	4041
Pietarsaari – Kallan	5142
Vaskiluoto – Ensten	5141

Russian Federation , 07.12.2021

Port of St. Petersburg	51/2
St. Petersburg – E-point island Kotlin	51/2
E-point Kotlin – long. lighth. Tolbukhin	40/1
Lighth. Tolbukhin – lighth. –Šepelevskij	40/1
Vyborg, port and bay	61/2

Sweden , 06.12.2021

Karlsborg – Maloeren	8346
Luleå – Bjoernklack	8346
Bjoernklack – Farstugrunden	4046
Sandgroenn fairway	5236
Roedkallen – Norstroemsgrund	4046
Haraholmen – Nygrån	5246
Sea area off Nygrån	4046
Skelleftehamn – Gåsoeren	5046
Sea area off Gåsoeren	4046
Sea area off Bjuroeklubb	4041
Umeå – Vaektaren	4041
Oernskoeldsvik – Hoernskaten	5041
Hoernskaten – Skagsudde	5041
Ångermanaelven north Sandoe Bridge	5244
Ångermanaelven south Sandoe Bridge	5244
Haernoessand – Haernoen	5244
Sundsvall – Draghaellan	5142
Draghaellan – Åstholmsudde	4041
Hudiksvallfjaerden	4041
Iggesund – Agoe	5041
Gaevle – Eggegrund	4041

Hallstavig – Svartklubben	4041
Stockholm – Traelhavet – Kloevholmen	4041
Keoping – Kvicksund	5144
Västerås – Grönsö	5144
Stockholm – Södertälje	4044
Södertälje – Fifong	4044
Fairway to Karlstad	5041
Fairway to Kristinehamn	5041