

Eisbericht Nr. 4 Amtsblatt des BSH

Jahrgang 95	Nr. 4	Thursday, 02.12.2021	1
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Übersicht

In der nördlichen Bottenwiek liegt dünnes, ebenes Eis in den Schären und weiter außerhalb Neueis. In der südlichen Bottenwiek, Norra Kvarken und der nördlichen Bottensee befindet sich Neueis und örtlich dünnes, ebenes Eis in Schären und geschützten Buchten. Entlang der finnischen Küste und vereinzelt entlang der schwedischen Küste findet sich Neueis in der südlichen Bottensee. Im Finnischen Meerbusen sowie im Mälarsee und im Väinameri hat Neueisbildung in küstennahen Gebieten eingesetzt.

Overview

In the northern Bay of Bothnia, there is thin level ice in the archipelagoes and new ice further out. In the southern Bay of Bothnia, Norra Kvarken and the northern Sea of Bothnia, there is new ice and at places thin level ice in the archipelagoes and sheltered bays. Along the Finnish coast and in places along the Swedish coast, new ice is present in the southern Sea of Bothnia. New ice formation has started in coastal areas of the Gulf of Finland as well as in Lake Mälaren and Väinameri.

Bay of Bothnia

In the northern Bay of Bothnia, there is thin level ice in the archipelagoes and off the Finnish coast to Ulkokrunni. Further out, there is drifting new ice to Simpgrundet – north of Malören – Oulu-1 and west of Raahe. In the southern Bay of Bothnia,

there is new ice or thin level ice in the archipelagoes.

New ice formation and ice growth is expected the coming days.

Norra Kvarken

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

Some new ice formation and ice growth is expected the coming days.

Sea of Bothnia

On upper Ångermanälven and at places in the northern bay of Bothnia, there is thin level ice. New ice is present in sheltered places in the northern Sea of Bothnia, in the southern Sea of Bothnia

along the Finnish coast and at places along the Swedish coast.

Some new ice formation is expected the coming days.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH) www.bsh.de/eis www.bsh.de/ice

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Gulf of Finland

New ice formation has started in the eastern Gulf of Finland from St. Petersburg and up to the longitude of the dike and the northern Bay of Vyborg. New ice is present at places in the Finnish archipelagos and along the Estonian coast. At the

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northern Lake Saimaa, there is thin level ice at places and new ice. In the southern Lake Saimaa and Saimaa Canal, new ice occurs at places. Some new ice formation is expected the coming days.

Gulf of Riga

New ice formation has started in sheltered bays around Väinameri.

Ice formation will continue the coming days.

Northern Baltic

Ice formation has started in the western part and sheltered bays of Lake Mälaren.

Ice formation will continue the coming days.

Dr. W. Aldenhoff

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi and Oulu	2000 dwt	II	04.12.
	Lake Saimaa and Saimaa Canal	1300 dwt	II	04.12.
Sweden	Karlsborg, Luleå, Haraholmen and Skelleftehamn	2000 dwt	II	04.12.
	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 is heading for the Bay of Bothnia tomorrow 3.12.

CALYPSO and METEOR will start assisting in the Lake Saimaa and Saimaa Canal during week 48.

Russia

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

Baltic Sea Ice Code						
First number: AB Amount and arrangements of so lice free 1 Open water – concentration less to lice free 2 Very open ice - concentration 4/10 to 64 Close ice – concentration 7/10 to 65 Very close ice – concentration 7/10 to 65 Very close ice – concentration 9/10 Compact ice, including consolidate concentration 10/10 7 Fast ice with drift ice outside 8 Fast ice 9 Lead in very close or compact drift lice edge 1 Unable to report	han 1/10 0 to 3/10 5/10 3/10 0 to 9+/10 ed ice —	0 1 2 3 4 5 6 7 8	Second number: Stage of ice development New ice or dark nilas (less than 5 cm thick) Light nilas (5 - 10 cm thick) or ice rind Grey ice (10 - 15 cm thick) Grey-white ice (15 - 30 cm thick) White ice, first stage (30 - 50 cm thick) White ice, second stage (50 - 70 cm thick) Medium first year ice (70 - 120 cm thick) Ice predominantly thinner than 15 cm with som ice Ice predominantly grey-white ice (15 – 30 cm) thicker ice Ice predominantly thicker than 30 cm with som ice No information or unable to report	with some		
Third number: T _B Topography or form of ice 0 Pancake ice, ice cakes, brash ice across 1 Small ice floes – 20 to 100 m acro 2 Medium ice floes – 100 to 500 m 3 Big ice foes – 500 to 2000 m acros 4 Vast or giant ice floes – more than 2000 m across – or le 5 Rafted ice 6 Compact slush or shuga, or comp 7 Hummocked or ridged ice 8 Thaw holes or many puddles on the 9 Rotten ice 7 No information or unable to report	ss ss evel ice acted brash ice ne ice	0 1 2 3 4 5 6 7 8	Fourth number: **Navigation conditions in ice** Navigation unobscured Navigation difficult or dangerous for wooden very without ice sheathing Navigation difficult for unstrengthened or low-pressels built of iron or steel. Navigation for woode even with ice sheathing not advisable Navigation without icebreaker assistance possingh-powered vessels of strong construction at for navigation in ice Navigation proceeds in lead or broken ice-chain the assistance of an icebreaker leebreaker assistance can only be given to vessuitable for navigation in ice and of special size leebreaker assistance can only be given to vesspecial ice class and of special size leebreaker assistance can only be given to vesspecial ice class and of special size leebreaker assistance can only be given to vesselter special permission Navigation temporarily closed Navigation has ceased Unknown	oowered oden vessels ible only for and suitable only for and suitable only for seels essels of		
Estonia, 02.12.2021 Kunda, port and bay Moonsund	2000 1000		Roedkallen – Norstroemsgrund Haraholmen – Nygrån Umeå – Vaektaren Ångermanaelven north Sandoe Bridge	4041 5142 5041 5242		
Finland, 02.12.2021 Roeyttae – Etukari	5142		Ångermanaelven south Sandoe Bridge Haernoesand – Haernoen	4242 3241		

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Finland, 02.12.2021		Ångermanaelven south Sandoe Bridge	4242
Roeyttae – Etukari	5142	Haernoesand – Haernoen	3241
Etukari – Ristinmatala	4041	Sundsvall – Draghaellan	5142
Ajos – Ristinmatala	4041	Koeping – Kvicksund	4041
Ristinmatala – Kemi 2	4041	Västerås – Grönsö	4041
Kemi 2 – Kemi 1	4041		
Kemi 2 – Ulkokrunni – Virpiniemi	5142		
Oulu harbours – Kattilankalla	5142		
Kattilankalla – Oulu 1	5141		
Sea area SW of Oulu 1	4041		
Raahe harbour – Heikinkari	5141		
Heikinkari – Raahe lighthouse	4041		
Rahja harbour – Välimatala	4041		
Pietarsaari – Kallan	4041		
Vaskiluoto – Ensten	5141		
Russian Federation, 02.12.2021			
Port of St. Petersburg	3000		
St. Petersburg – E-point island Kotlin	5000		
Vyborg, port and bay	5000		
Sweden, 01.12.2021			
Karlsborg – Maloeren	5242		
Luleå – Bjoernklack	5242		
Sandgroenn fairway	5142		
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