



Eisbericht Nr. 1

Amtsblatt des BSH

Jahrgang 95	Nr. 1	Monday, 29.11.2021	1
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Übersicht

In der nördlichen Bottenwiek liegt dünnes, ebenes Eis in den inneren Schären und Neueis weiter außerhalb. In der südlichen Bottenwiek, Norra Kvarken und der nördlichen Bottensee befindet sich Neueis in den Schären und geschützten Buchten. Entlang der finnischen Küste findet sich auch vereinzelt Neueis in der südlichen Bottensee.

Overview

In the northern Bay of Bothnia, there is thin level ice in the inner archipelagos and new ice further out. In the southern Bay of Bothnia, Norra Kvarken and the northern Sea of Bothnia, there is new ice in the archipelagos and sheltered bays. Along the Finnish coast, new ice is present in places in the southern Sea of Bothnia.

Bay of Bothnia

In the northern Bay of Bothnia, there is thin level ice in the inner archipelagos. Further out, new ice is present to the outer islands in the west. In the east, new ice is present to Ulkokrunni and Hailuoto with some new ice farther out. In the southern Bay

of Bothnia, there is new ice in the archipelagos. New ice formation is expected the coming days. With increasing wind, new ice further out might break up.

Norra Kvarken

New ice is present in the archipelagos and in sheltered bays.

Some new ice formation is expected the coming days.

Sea of Bothnia

New ice is present in sheltered places in the northern Sea of Bothnia and in the southern Sea of Bothnia along the Finnish coast. On the upper

Ångermanälven, there is thin level ice. Some new ice formation is expected the coming days.

Gulf of Finland

New ice occurs at places in Lake Saimaa and the Saimaa Canal.

Dr. W. Aldenhoff

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)
www.bsh.de/de/Meeresdaten/Beobachtungen/Eis/
www.bsh.de/en/Marine_data/Observations/Ice/

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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	03.12.
	Ångermanälven	1300/2000 dwt	I/II	03.12.

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.

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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Finland, 29.11.2021

Roeyttae – Etukari	5142
Etukari – Ristinmatala	5041
Ajos – Ristinmatala	5041
Kemi 2 – Ulkokrunni – Virpiniemi	5041
Oulu harbours – Kattilankalla	5142
Kattilankalla – Oulu 1	4041
Raahe harbour – Heikinkari	4041
Heikinkari – Raahe lighthouse	4041
Pietarsaari – Kallan	4041
Vaskiluoto – Ensten	4041

Sweden, 29.11.2021

Karlsborg – Maloeren	5142
Luleå – Bjoernklack	5142
Bjoernklack – Farstugrunden	5041
Sandgroenn fairway	5041
Roedkallen – Norstroemsgrund	5041
Haraholmen – Nygrån	5041
Sea area off Nygrån	5041
Skelleftehamn – Gåsoeren	5041
Sea area off Gåsoeren	5041
Umeå – Vaektaren	5041
Ångermanaelven north Sandoe Bridge	5242
Ångermanaelven south Sandoe Bridge	5242
Sundsvall – Draghaellan	5041
Draghaellan – Åstholmsudde	5041