



# Eisbericht Nr. 66

## Amtsblatt des BSH

Jahrgang 97

Nr. 66

Monday, 19.02.2024

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### Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 60 cm dickes, in den südlichen bis 50 cm dickes Festeis. Auf See treibt im Norden zumeist 30–60 cm dickes, sehr dichtes Eis, örtlich aufgepresst, übereinandergeschoben und teilweise schwer zu passieren. Im Süden treibt auf See 10–35 cm dickes, sehr dichtes Eis oder ebenes Eis. An den Küsten von Norra Kvarken liegt bis 50 cm dickes Festeis und auf See treibt meist 10–35 cm dickes, dichtes bis sehr dichtes Eis. An den Küsten der Bottensee kommt im Osten bis 55 cm und im Westen bis 30 cm dickes Festeis vor. Auf See treibt im Norden zumeist dichtes, 5–35 cm dickes Eis. Im Süden befindet sich im Westen sehr lockeres bis dichtes Eis außerhalb des Festeises und im Osten lockeres bis dichtes Eis. Das Schärenmeer ist größtenteils mit ebenem Eis oder Festeis bedeckt und in der Ålandsee treibt etwas dünnes Eis. Im Osten und Norden des Finnischen Meerbusens liegt bis 55 cm dickes Festeis. Nördlich von etwa 59°50'N treibt auf See meist dichtes, 10–35 cm dickes Eis östlich von Kalbådgrund und bis 20 cm dickes, lockeres Eis weiter westlich. Im Rigaischen Meerbusen kommt im Nordosten zu 35 cm dickes Festeis vor. Auf See treibt im Norden entlang der Küste sehr dichtes Eis. Ansonsten kommt im Mälaren, Vänern, norwegischen Fjorden und entlang der schwedischen Küste nördlich von Kalmar bis 30 cm dickes Festeis oder dünnes, ebenes Eis vor.

### Overview

In the Bay of Bothnia there is fast ice in the archipelagos, up to 60 cm thick in the north and up to 50 cm thick in the south. At sea in the north, there is mostly 30–60 cm thick, very close, partly ridged and rafted ice that is difficult to force at places. At sea in the south there is 10–35 cm thick very close ice or level ice. In the Quark there is up to 50 cm thick fast ice at the coasts and at sea there is mostly 10–35 cm thick, close to very close ice. At the coasts of the Sea of Bothnia there is fast ice, up to 55 cm thick in the east and up to 30 cm thick in the west. At sea in the north there is mostly close, 5–35 cm thick ice. In the southern part there is very open to close ice off the fast ice in the west and thin, open to close ice in the east. Level ice or fast ice covers large parts of the Archipelago Sea and thin drifting ice is present in the Åland Sea. There is up to 55 cm thick fast ice at the eastern and northern coast of the Gulf of Finland. At sea north of about 59°50'N there is mostly close, 10–35 cm thick drift ice east of Kalbådgrund and up to 20 cm thick, open ice further west. In the Gulf of Riga there is up to 35 cm thick fast ice in the northeast and very close is present off the coast in the north. Else up to 30 cm thick fast ice or thin level ice is present in the Mälaren, Vänern, Norwegian fjords and along the Swedish coast north of Kalmar.

### Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast ice; 35–60 cm thick in the north and up to 25–

50 cm thick in the southern part. In the northeast the fast ice stretches out to Malören, Kemi-3, Oulu-

#### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

[www.bsh.de/eis](http://www.bsh.de/eis)

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#### Eisankünfte / Ice Information

Telefon: +49 (0) 381 4563 -780

Telefax: +49 (0) 381 4563 -949

E-Mail: [ice@bsh.de](mailto:ice@bsh.de)

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3 and Raahe lighthouse. Off the fast ice a lead with new ice has formed along the Swedish coast from Gåsören via Malören to past Kemi-1. At sea north of about Ulkokalla is mostly 30–60 cm thick, ridged and rafted drift ice that is difficult to force at places. In the southern part, there is new ice off the Swe-

### The Quark

There is 35–50 cm thick fast ice in the Vaasa archipelago out to Ensten followed by 10–30 cm thick very close ice to Norrskär. Along the Swedish coast there is up to 40 cm thick fast ice. At sea there is new ice off the Swedish coast and close, 10–35 cm thick drift ice in the southern part.

### Sea of Bothnia

Along the coasts there is mostly fast ice in the inner bays; 20–55 cm thick in the east and 5–30 cm thick in the west. On Ångermanälven, there is 15–30 cm thick fast ice. At sea north of about 62°10'N there is new ice along the western coast and mostly close drift ice, 5–35 cm thick in the north and 5–15 cm thick in the south. Further south, there is first very open ice off the western

### Archipelago Sea and Åland Sea

In the Archipelago Sea there is 15–50 cm thick fast ice in the inner archipelago of the Finnish coast. Mostly 10–30 cm thick, level or fast ice are present in the outer archipelagos to the Åland Islands. In the Åland Sea there is 5–20 cm thick fast or level ice in bays along the coast. Further out in the

### Northern Baltic

In Lake Mälaren there is 10–30 cm thick fast ice. Along the outer Swedish coast there is 5–20 cm thick fast ice or level ice.

### Gulf of Finland

Along the northern coast there is fast ice in the archipelago, 10–35 cm thick in the west and up to 55 cm thick in the east. In the Vyborg Bay there is 30–40 cm thick fast ice and in the Bjerkesund there is 25–35 cm thick fast ice. From St. Petersburg to the longitude of lighthouse Tolbuchin there is 35–45 cm thick fast ice. Off the northern fast ice follows a band of very close ice. Northeast of the line Gogland – Luga Bay there is mostly close, 10–35 cm thick drift ice with very open ice off the

### Gulf of Riga

In Väinameri there is 25–35 cm thick fast ice near the coasts and very close, 10–30 cm thick ice at sea. Off the south coast of Saaremaa there is very first new ice followed by close to very close, 5–20 cm thick ice to about 15 NM off the coast. In the Bay of Pärnu, there is 25–45 cm thick fast ice to about the line Liu – Tahkuranna. Further out there is close, 5–30 cm thick ice to about the line Sorgu

dish coast and 10–35 cm thick drift ice in the west and 5–20 cm thick, level ice in the east.

With mostly light to moderate frost ice formation and ice growth will continue. The ice will drift to the northeast.

In the northern part is very close, 10–35 cm thick ice and 5–20 cm thick level ice in the east.

With mostly light frost at sea, some ice formation and ice growth is expected. The ice will drift to the north/northeast.

coast followed by mostly close, 5–15 thick drift ice. Off the fast ice in the east there is close brash ice followed by thin open ice.

With mostly light frost in the north and temperatures around or slightly below 0 °C in the south some ice formation and ice growth is expected in the north and along the coasts in the south. The ice will drift in northerly directions.

northern part there is drifting open ice and else at sea open water with some drifting ice.

With temperatures around or slightly below 0 °C no larger changes are expected and the ice will drift in northerly directions.

With temperatures around 0°C and light winds no larger change is expected.

northeastern coast. Further west is new ice off the northern coast to about the line Kotka lighthouse – Porvoo lighthouse and further out 10–35 cm thick, mostly close drift ice to about 59°50'N. Even further west is new ice off the northern fast ice and open to very open, 10–25 cm thick drift ice further out.

With mostly light frost some new ice formation and ice growth are expected. The ice will drift to the north.

– Häädemeeste. Even further out to the line southern point of Kihnu – Ainazi is very open ice and close ice in the east. In Irben Strait is very close ice in the north and open water in the south.

With temperatures around or slightly below 0 °C in the north, no larger changes but a northerly/northwesterly ice drift are expected.

**Central Baltic**

Thin level ice is present at places along the Swedish coast.

With temperatures mostly above 0 °C some ice melt is expected.

**Southeastern Baltic**

In the Curonian Lagoon, there is some drift ice in the northern part and else open water.

With temperatures mostly above 0°C further ice melt is expected.

**Skagerrak and Kattegat**

In some sheltered Norwegian fjords and bays is thin level ice or fast ice notably near Tønsberg, Kragerø, Svinesund, Mossesund and Drammensfjord. Along the Swedish coast of the Skager-

ak there is very open ice in some sheltered areas. With light frost in the Oslofjord and else temperatures around 0 °C no larger changes are expected.

**Swedish Lakes**

In Lake Vänern 10–30 cm thick fast ice is present at the coasts. In the Dalbosjön there is 10–20 cm thick, very close or level ice. In the Värmlandssjön there is some level ice outside the northern fast

ice. In the south there is mostly very open ice and open water elsewhere.

With temperatures around 0°C and light winds no larger changes are expected.

Dr. W. Aldenhoff

**Restrictions to Navigation**

	<b>Harbour/District</b>	<b>At least dwt/hp/kW</b>	<b>Ice Class</b>	<b>Begin</b>
<b>Estonia</b>	Pärnu	1800 kW	1B (Lloyd's)	27.01.
	Kunda and Sillamäe	1200 kW	II (Lloyd's)	04.02.
<b>Finland</b>	Tornio, Kemi and Oulu	2000/4000 dwt	IA Super/IA	13.01.
	Vaasa	2000 dwt	IA	10.01.
	Raahe, Kalajoki, Kokkola and Pietarsaari	4000 dwt	IA	13.01.
	Pori	2000 dwt	IB	17.02.
	Rauma	2000 dwt	IB	14.02.
	Kaskinen and Kristiinankaupunki	2000 dwt	IA	17.02.
	Uusikaupunki	2000 dwt	IA	11.02.
	Eckerö, Maarianhamina and Langnäs	2000 dwt	II	13.01.
	Naantali and Turku	2000 dwt	I	23.01.
	Mussalo	2000 dwt	IB	29.01.
	Helsinki and Sköldvik	2000 dwt	I	29.01.
	Koverhar, Lappohja, Inkoo and Kantvik	2000 dwt	I	13.01.
	Taalintehdas and Förby	2000 dwt	IB	17.02.
	Hanko	2000 dwt	II	13.01.
	Loviisa, Kotka and Hamina	2000 dwt	IB	29.01.
	Lake Saimaa	2000 dwt	IA	08.01.
Saimaa Canal	2000 dwt	IA	08.01.	
<b>Russia</b>	Vyborg	-	Ice 1	30.12.
	Vysotsk	-	Ice 1	30.12.
	Primorsk	-	Ice 1	01.02.
	Ust-Luga	-	Ice 1	29.12.

<b>Sweden</b>	Karlsborg	4000 dwt	IA (2000 t)	14.01.
	Lulea, Haraholmen and Skelleftehamn	4000 dwt	IA	14.01.
	<b>Rundvik, Husum and Örnsköldsvik</b>	<b>2000 dwt</b>	<b>IA</b>	<b>19.02.</b>
	Holmsund	2000 dwt	IA	17.02.
	Angermanälven	2000 dwt	IA	17.02.
	Stocka, Hudiksvall, Iggesund, Söderhamn, Orrskär and Norrsundet	2000 dwt	IB	17.01.
	<b>Härnösand, Söråker and Sundsvall</b>	<b>2000 dwt</b>	<b>IA</b>	<b>19.02.</b>
	Gävle	2000 dwt	IB	17.01.
	Hargshamn	2000 dwt	IC	04.01.
	Skutskär and Öregrund	2000 dwt	IB	17.01.
	Hallstavik and Grisslehamn	2000 dwt	IC	04.01.
	Kappelskär, Stockholm, Nynäshamn and Södertälje	2000 dwt	II	04.01.
	Köping and Västerås	2000 dwt	IB	04.01.
	Balsta	2000 dwt	IB	14.01.
	Oxelösund, Norrköping, Västervik, Oskarshamn, Mönsterås, Kalmar, Degeberhamn, Bergkvara, Karlskrona, Stenungsund and Uddevalla	2000 dwt	II	04.01.
	Trollhätte Canal and Göta Älv	2000 dwt	IB	16.01.
Vänern	2000 dwt	IB	16.01.	

### Estonia

**Icebreaker:** EVA-316 assists to the port of Pärnu. BOTNICA assists to the ports of Kunda and Sillamäe.

### Finland/Sweden

The traffic separation schemes in the Lake Vänern are temporarily out of use from 12 January due to ice conditions.

The transit traffic west of Holmöarna is temporarily prohibited.

Kalmarsund and Öregrundsgrepen: Transit traffic for low powered vessels is not recommended.

The traffic separation schemes in the Quark are temporarily out of use from 20 December due to ice conditions.

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 82. 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:** YMER, ODEN, FREJ, POLARIS, SISU and URHO assist in the Bay of Bothnia. ATLE, KON-TIO and OTSO assist in the southern Bay of Bothnia and in the Quark. ZEUS, CALYPSO, BALTICA and BRAGE VIKING assist in the Sea of Bothnia. VOIMA, FENNICA and NORDICA assist the Gulf of Finland. ALE and **SCANDICA** assists in the Vänern.

### Norway

Mossesundet (Moss): Icebreaker assistance can only be given to vessels of special ice class and of special size. (05.01.24)

Kilsfjorden (Kragerø) and Hellefjorden (Kragerø): Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size. (08.01.24)

### Russia

There are restrictions for small crafts going to St. Petersburg, Vyborg, Vysotsk, Primorsk and Ust-Luga. Barge towed by tug not allowed to navigate in ice.

**Icebreakers:** Several icebreakers assist vessels to the port of St. Petersburg, Vyborg, Vysotsk, Primorsk and Ust-Luga.

### Baltic Sea Ice Code

<p>First number:  <b>A<sub>B</sub> Amount and arrangements of sea ice</b>            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:  <b>T<sub>B</sub> Topography or form of ice</b>            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 foes – 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:  <b>S<sub>B</sub> Stage of ice development</b>            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:  <b>K<sub>B</sub> Navigation conditions in ice</b>            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, 19.02.2024

Shipping route from Narva-Jõssuu	1///
Kunda, port and bay	1///
Shipping route Kunda meridian to Tallinn	1///
Paernu, port and bay	7475
Irben Strait	323/
Moonsund	7353

Latitude Marjaniemi – Ulkokalla, Sea	5476
Rahja harbour – Välimatala	7476
Vaelimatala to line Ulkokalla – Ykskivi	5476
Sea betw. lat. of Ulkokalla –Pietarsaari	5476
Ykspihlaja – Repskär	7476
Repskär – Kokkola lighthouse	5476
Sea area off Kokkola lighthouse	5756
Pietarsaari – Kallan	7366
Sea area off Kallan	5366
Sea lat. Pietarsaari – NE Nordvalen	5356
Sea area ENE of Nordvalen	5356
Sea area Nordvalen to W of Norrskär	4346
Vaskiluoto – Ensten	8446
Ensten – Vaasa lighthouse	5756
Vaasa lighthouse – Norrskär	5756
Sea area SW of Norrskär	4346
Kaskinen – Sälgrund	8446
Sea area off Sälgrund	7756
High sea from N to latitude Yttergrund	4346
Pori harb. to line Pori lighth. – Säppi	7366
Sea W of line Pori lighthouse – Säppi	4146
High sea betw. lat. Yttergrund a. Rauma	4146
Rauma, Harbour – Kylmäpihlaja	7766

#### Finland, 19.02.2024

Röyttä – Etukari	8446
Etukari – Ristinmatala	7476
Ajos – Ristinmatala	7476
Ristinmatala – Kemi 2	5476
Kemi 2 – Kemi 1	5476
Sea area SW of Kemi 1	5476
Kemi 2 – Ulkokrunni – Virpiniemi	7476
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	7476
Sea area SW of Oulu 1	5476
High Sea N of the latitude of Marjaniemi	5476
Raahe harbour – Heikinkari	8446
Heikinkari – Raahe lighthouse	6856
Raahe lighthouse – Nahkiainen	6856

Kylmäpihlaja – Rauma lighthouse	4146	Tønsberg, inner harbour	82/3
Sea area W of Rauma lighthouse	3136	Vestfjord (Tønsberg)	82/3
The high sea S of the latitude of Rauma	4146	Larviksfjorden (Stavern – Larvik)	121/
Uusikaupunki harbour – Kirsta	8346	Skåtøysund (Kragerø)	4001
Kirsta – Isokari	7766	Langårsund (Kragerø)	8248
Isokari – Sandbäck	3136		
Sea area off Sandbäck	3136	<b>Russian Federation, 19.02.2024</b>	
Sea area N of Sälskär	5145	Port of St. Petersburg	89//
Sea area N of Märket	3135	St. Petersburg – E-point island Kotlin	89//
Sea area W of Märket	5745	E-point Kotlin – long. lighth. Tolbuhkin	89//
Sea area S of Märket	3135	Lighth. Tolbuhkin – lighth. –Šepelevskij	11//
Maarianhamina – Marhällan	2725	Lighthouse Šepelevskij – island Sescar	32//
The middle Åland Sea	3135	Island Sescar – Island Sommers	42//
Naantali and Turku – Rajakari	8846	Island Sommers– S-point island Gogland	42//
Rajakari – Lövskär	8846	S-point isl. Gogland – long. p. Kunda	22//
Lövskär – Korra	7766	Vyborg, port and bay	89//
Korra – Isokari	5766	Island Vichrevoj – Island Sommers	42//
Lövskär – Berghamn	8346	Strait Bjerkesund	89//
Berghamn – Stora Sottunga	5146	E-point Bol'šoj Ber'ozovyj – Šepelevskij	22//
Stora Sottunga – Ledskär	8746	Luga bay	32//
Sea area at Rödhamn	1106	Appr. Luga bay – line Moš.-Šepel.	32//
Lövskär – Grisselborg	8346		
Grisselborg – Norparskär	5146	<b>Sweden, 19.02.2024</b>	
Sea area at Vidskär	1106	Karlsborg – Malören	8546
Utö – Suomen Leijona	1106	Sea area off Malören	5576
Hanko harbours – Hanko 1	2355	Luleå – Björnklack	8546
Sea area S of Hanko 1	2355	Björnklack – Farstugrunden	5576
Hanko – Vitgrund	8342	E and SE of Farstugrunden	5576
Vitgrund – Utö	5145	Sandgrönn fairway	8546
Koverhar – Hästö Busö	8346	Rödcallen – Norströmsgrund	4046
Hästö Busö – Ajax	2356	Haraholmen – Nygrån	8546
Sea area S of Ajax	3736	Sea area off Nygrån	4046
Inkoo a. Kantvik – sea area Porkkala	8346	Skelleftehamn – Gåsören	6356
Sea area at Porkkala	3736	Sea area off Gåsören	6356
Sea area S of Porkkala lighthouse	3736	Sea area off Bjuröklubb	6356
Helsinki harbours – Harmaja	2326	NE of Nordvalen	4046
Harmaja – Helsinki lighthouse	3736	SW of Nordvalen	4046
Helsinki lighth. – sea S of Porkkala lh.	3736	Western Quark (W of Holmöarna)	5246
Fairway Helsinki – Porkkala – Rönnskär	5146	Umeå – Väktaren	5246
Vuosaari harbour – Eestiluoto	8346	SE of Väktaren	4046
Eestiluoto – Helsinki lighthouse	3736	NE and SE of Sydostbrotten	4436
Porvoo harbours – Varlax	5146	Fairway to Husum	5436
Varlax – Porvoo lighthouse	5146	Örnsköldsvik – Hörnskatan	8446
Porvoo lighthouse – Kalbådagrund	4356	Hörnskatan – Skagsudde	8446
Sea Kalbådagrund – Helsinki lighthouse	3736	Sea area off Skagsudde	5436
Valko Harbour – Täktarn	7746	Fairway W of Ulvöarna	8446
Archipelago fairway Boistö – Glosholm	5746	Sea area E of Ulvöarna	4046
Archipelago fairway Glosholm–Helsinki	8346	Ångermanälven north Sandö Bridge	8444
Kotka – Viikari	8346	Ångermanälven south Sandö Bridge	8444
Viikari – Orregrund	5746	Härnösand – Härnön	8444
Orregrund – Tiiskeri	5746	Sea area off Härnön	4044
Tiiskeri – Kalbådagrund	4356	Sundsvall – Draghällan	8446
Hamina – Suurmusta	8446	Draghällan – Åstholmsudde	4046
Suurmusta – Merikari	8346	Off Åstholmsudde and Brämön	8446
Merikari – Kaunissaari	5746	Hudiksvallfjärden	8346
		Iggesund – Agö	8346
<b>Norway, 19.02.2024</b>		Sea area off Agö	2326
Svinesund – Halden	33//	Sandarne – Hällgrund	8346
Mossesund	3725	Sea area off Hällgrund	4236
Drammensfjord	4314	Ljusnefjärden – Storjungfrun	8346

Sea area off Storjungfrun	2326
Gävle – Eggegrund	8346
Sea area off Eggegrund	4236
Sea area off Orskär	5336
Öregrundsgrepen	8246
Passage at Grundkallen	3226
Passage at Understen	3226
Sea area off Svartklubben	3226
Hallstavik – Svartklubben	8346
Trälhavet – Furusund – Kapellskär	5146
Stockholm – Trälhavet – Klövholmen	2126
Klövholmen – Sandhamn	2126
Trollharan – Langgarn	2126
Köping – Kvicksund	8344
Västerås – Grönsö	8344
Grönsö – Södertälje	8344
Stockholm – Södertälje	8344
Södertälje – Fifong	8244
Norrköping – Hargökalv	1006
Västervik – Marsholmen – Idö	5246
Uddevalla – Stenungsund	2126
Vänersborgsviken	5336
Fairway through Lurö archipelago	2126
Fairway to Gruvön	8346
Fairway to Karlstad	8346
Fairway to Kristinehamn	8346
Fairway to Otterbäcken	8346
Fairway to Lidköping	8346