



# Eisbericht Nr. 63

## Amtsblatt des BSH

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Nr. 63

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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 Nordosten zumeist 30–50 cm dickes, sehr dichtes Eis, örtlich aufgepresst, übereinandergeschoben und teilweise schwer zu passieren. Im Süden treibt auf See 10–30 cm dickes, sehr dichtes Eis oder ebenes Eis. An den Küsten von Norra Kvarnen liegt bis 50 cm dickes Festeis und auf See treibt meist 5–30 cm dickes sehr dichtes Eis. An den Küsten der Bottensee kommt im Osten bis 55 cm und im Westen bis 30 cm dickes Festeis vor. Weiter außerhalb befindet sich im Westen sehr dichte Eis und dünnes, lockeres Eis im Osten. Auf See treibt im Norden lockeres bis sehr dichtes, 2–20 cm dickes Eis und im Süden kommt meist offenes Wasser vor. Das Schärenmeer ist größtenteils mit ebenem Eis oder Festeis bedeckt. Im Osten und Norden des Finnischen Meerbusens liegt bis 50 cm dickes Festeis und östlich 27°E treibt auf See sehr lockeres bis sehr dichtes, bis 35 cm dickes Eis und westlich davon lockeres 3–15 cm dickes Eis oder Neueis bis etwa 25°00'E. Im Rigaischen Meerbusen kommt an der nordöstlichen Küste zu 35 cm dickes Festeis vor und auf See treibt im Norden sehr dichtes Eis und sehr lockeres Eis entlang der Eiskante. Ansonsten kommt im Mälaren, Vänern, norwegischen Fjorden und entlang der schwedischen Küste nördlich von Kalmar bis 30 cm dickes Festeis oder 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 northeast, there is mostly 30–50 cm thick, very close, partly ridged and rafted ice that is difficult to force at places. At sea in the south there is 10–30 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 5–30 cm thick, 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. Further out in the west is very close ice and in the east there is thin, open ice. At sea there is open to very close, 2–20 cm thick ice in the north and mostly open water in the south. Level ice or fast ice covers large parts of the Archipelago Sea. There is up to 50 cm thick fast ice at the eastern and northern coast of the Gulf of Finland. At sea there is up to 35 cm thick, very open to very close ice east of 27° and further west there is open, 3–20 cm thick ice or new ice to about 25°00'E. In the Gulf of Riga there is up to 35 cm thick fast ice at the coast in the northeast and at sea there is very close ice with very open ice at the ice edge in the north. Else up to 30 cm thick fast ice or 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 with some consolidated ice further out; 35–

60 cm thick in the north and up to 25–50 cm thick in the southern part. In the northeast the fast ice

#### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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

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stretches out to Malören, Kemi-3, Oulu-3 and Raahe lighthouse. In the north and east runs a lead covered with 5–20 cm thick level ice or new ice past Malören – Kemi-1 – Merikallat to off Raahe and further to the Quark. At sea north of about a line from Ulkokalla to Simpgrundet, there is 30–50 cm thick, very close, ridged and rafted ice. The ice

### 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 5–30 cm thick mostly very close ice.

### 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 close to very close, 2–20 cm thick drift ice in the west and open, 2–10 cm thick ice in the east. In the southern part, there is very close 5–20 cm thick ice off the Swedish coast and new

### 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 with new ice and ice formation are present in the outer archipelagos to the Åland Islands. In the Åland Sea

### 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, 10–30 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. Further west follows very open ice. South of the line Seskar – Moščnyj is very close, 10–35 cm thick drift ice. North of about the line Gogland – Seskar is very close, 10–

### Gulf of Riga

In Väinameri there is 25–40 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 close and at places close, 5–20 cm thick ice. In the Bay of Pärnu, there is 25–35 cm thick fast ice. Further out there is very close, 5–20 cm thick ice to

### Central Baltic

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

field is difficult to force at places. Else at sea in the east is level ice and very close, 10–30 cm thick and rafted ice in the west.

With moderate to severe frost ice in the north formation and ice growth will continue. The ice will drift to the west/northwest.

South of Norrskär is an area with new ice.

With mostly light to moderate frost at sea, ice formation and ice growth will continue with a mostly northwesterly ice drift.

ice further out. In the east there is thin open ice and new ice off the coast. At sea in the south there is open water.

With light frost in the north and temperatures around 0 °C in the south some ice growth near the coasts is possible. The ice will drift in northerly directions.

there is 5–20 cm thick fast or level ice in bays along the coast. In the northern part there is very close ice slightly further out and open water at sea. With temperatures around 0 °C no larger changes are expected.

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

35 cm thick drift ice and level ice at the fast ice. Off the fast ice further west is level ice and very close ice. Else at sea to about Helsinki lighthouse is open, 3–15 cm ice in the northern part and new ice, very open ice or open water elsewhere.

With moderate frost in the east and temperatures around 0 °C in the west some ice formation and ice growth is expected in the east. The ice will drift to northwest.

about Kihnu. Else at sea in the northeast is very open ice.

With temperatures mostly around 0 °C no larger changes are expected but the ice will slightly drift to the north.

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

### Southeastern Baltic

In the Curonian Lagoon, there are some ice remnants.

With temperatures 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 temperatures mostly around or above 0°C no larger changes are expected the coming day.

### 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 outside the coast with brash ice at the edge; still further out there is new ice. In the Värmlandssjön there is level ice outside

the northern fast ice. In the south there is open to close ice and open water elsewhere. With temperatures around 0°C no larger changes are expected with only light winds.

Dr. W. Aldenhoff

## Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
<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	I	13.01.
	<b>Rauma</b>	<b>2000 dwt</b>	<b>IB</b>	<b>14.02.</b>
	<b>Pori</b>	<b>2000 dwt</b>	<b>IB</b>	<b>17.02.</b>
	Kaskinen and Kristiinankaupunki	2000 dwt	IB	23.01.
	<b>Kaskinen and Kristiinankaupunki</b>	<b>2000 dwt</b>	<b>IA</b>	<b>17.02.</b>
	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.
	Taalintehdas, Förby, Koverhar, Lap-pohja, Inkoo and Kantvik	2000 dwt	I	13.01.
	<b>Taalintehdas and Förby</b>	<b>2000 dwt</b>	<b>IB</b>	<b>17.02.</b>
	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.
	Rundvik, Husum and Örnsköldsvik	2000 dwt	IB	17.01.
	<b>Rundvik, Husum and Örnsköldsvik</b>	<b>2000 dwt</b>	<b>IA</b>	<b>19.02.</b>
	Holmsund	2000 dwt	IB	04.01.
	<b>Holmsund</b>	<b>2000 dwt</b>	<b>IA</b>	<b>17.02.</b>
	Angermanälven	2000 dwt	IB	18.12.
	<b>Angermanälven</b>	<b>2000 dwt</b>	<b>IA</b>	<b>17.02.</b>
	Härnösand, Söråker, Sundsvall, 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, De-gerhamn, Berkvara, 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, KONTIO, SISU and URHO assist in the Bay of Bothnia. ATLE 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 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)

Langårsund (Kragerø): Navigation temporarily closed. (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 floes – 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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### Finland, 14.02.2024

Röyttä – Etukari	8446	Vaelimatala to line Ulkokalla – Ykskivi	5756
Etukari – Ristinmatala	7476	Sea betw. lat. of Ulkokalla –Pietarsaari	5356
Ajos – Ristinmatala	7476	Ykspihlaja – Repskär	8846
Ristinmatala – Kemi 2	5476	Repskär – Kokkola lighthouse	5476
Kemi 2 – Kemi 1	5476	Sea area off Kokkola lighthouse	9746
Sea area SW of Kemi 1	9746	Pietarsaari – Kallan	7366
Kemi 2 – Ulkokrunni – Virpiniemi	7476	Sea area off Kallan	9246
Oulu harbours – Kattilankalla	8446	Sea lat. Pietarsaari – NE Nordvalen	9246
Kattilankalla – Oulu 1	7446	Sea area ENE of Nordvalen	5356
Sea area SW of Oulu 1	9746	Sea area Nordvalen to W of Norrskär	5356
High Sea N of the latitude of Marjaniemi	5476	Vaskiluoto – Ensten	8446
Raahe harbour – Heikinkari	8446	Ensten – Vaasa lighthouse	5756
Heikinkari – Raahe lighthouse	8446	Vaasa lighthouse – Norrskär	5756
Raahe lighthouse – Nahkiainen	9746	Sea area SW of Norrskär	5746
Latitude Marjaniemi – Ulkokalla, Sea	5476	Kaskinen – Sälgrund	8446
Rahja harbour – Välimatala	8446	Sea area off Sälgrund	7756
		High sea from N to latitude Yttergrund	5746

Pori harb. to line Pori lighth. – Säppi	5366	Mossesund	7046
Sea W of line Pori lighthouse – Säppi	3136	Drammensfjord	5354
High sea betw. lat. Yttergrund a. Rauma	3136	Tønsberg, inner harbour	82/3
Rauma, Harbour – Kylmäpihlaja	7766	Vestfjord (Tønsberg)	82/3
Kylmäpihlaja – Rauma lighthouse	5146	Larviksfjorden (Stavern – Larvik)	121/
Sea area W of Rauma lighthouse	3136	Skåtøysund (Kragerø)	4001
The high sea S of the latitude of Rauma	1006	Langårsund (Kragerø)	8248
Uusikaupunki harbour – Kirsta	8346		
Kirsta – Isokari	7766	<b>Russian Federation, 14.02.2024</b>	
Isokari – Sandbäck	3136	Port of St. Petersburg	89//
Sea area off Sandbäck	3016	St. Petersburg – E-point island Kotlin	89//
Sea area N of Sälskär	1015	E-point Kotlin – long. lighth. Tolbuhkin	89//
Sea area N of Märket	1005	Lighth. Tolbuhkin – lighth. –Šepelevskij	53//
Sea area W of Märket	1005	Lighthouse Šepelevskij – island Sescar	53//
Sea area S of Märket	1005	Island Sescar – Island Sommers	53//
Maarianhamina – Marhällan	2725	Island Sommers– S-point island Gogland	42//
Naantali and Turku – Rajakari	8846	S-point isl. Gogland – long. p. Kunda	42//
Rajakari – Lövskär	8846	Vyborg, port and bay	89//
Lövskär – Korra	8346	Island Vichrevoj – Island Sommers	53//
Korra – Isokari	5766	Strait Bjerkesund	89//
Lövskär – Berghamn	8346	E-point Bol'šoj Ber'ozovyj – Šepelevskij	53//
Berghamn – Stora Sottunga	5146	Luga bay	53//
Stora Sottunga – Ledskär	5746	Appr. Luga bay – line Moš.-Šepel.	53//
Sea area at Rödhamn	1106		
Lövskär – Grisselborg	8346	<b>Sweden, 14.02.2024</b>	
Grisselborg – Norparskär	5146	Karlsborg – Malören	8546
Sea area at Vidskär	1106	Sea area off Malören	5476
Hanko – Vitgrund	8342	Luleå – Björnklack	8546
Vitgrund – Utö	4142	Björnklack – Farstugrunden	5476
Koverhar – Hästö Busö	8346	E and SE of Farstugrunden	5476
Hästö Busö – Ajax	2026	Sandgrönn fairway	8546
Inkoo a. Kantvik – sea area Porkkala	8346	Rödkallen – Norströmsgrund	5476
Sea area at Porkkala	1106	Haraholmen – Nygrån	8546
Sea area S of Porkkala lighthouse	1106	Sea area off Nygrån	5476
Helsinki harbours – Harmaja	8346	Skelleftehamn – Gåsören	8446
Harmaja – Helsinki lighthouse	5746	Sea area off Gåsören	8446
Helsinki lighth. – sea S of Porkkala lh.	1106	Sea area off Bjuröklubb	8446
Fairway Helsinki – Porkkala – Rönnskär	5746	NE of Nordvalen	5356
Vuosaari harbour – Eestiluoto	8346	SW of Nordvalen	5356
Eestiluoto – Helsinki lighthouse	5746	Western Quark (W of Holmöarna)	5246
Porvoo harbours – Varlax	5746	Umeå – Väktaren	5336
Varlax – Porvoo lighthouse	5746	SE of Väktaren	5336
Porvoo lighthouse – Kalbådagrund	5746	NE and SE of Sydostbrotten	5336
Sea Kalbådagrund – Helsinki lighthouse	3136	Fairway to Husum	5336
Valko Harbour – Täktarn	8846	Örnsköldsvik – Hörnskatan	8346
Archipelago fairway Boistö – Glosholm	5746	Hörnskatan – Skagsudde	8346
Archipelago fairway Glosholm–Helsinki	8346	Sea area off Skagsudde	5336
Kotka – Viikari	8346	Fairway W of Ulvöarna	8346
Viikari – Orregrund	5746	Sea area E of Ulvöarna	5336
Orregrund – Tiiskeri	5746	Ångermanälven north Sandö Bridge	8344
Tiiskeri – Kalbådagrund	5346	Ångermanälven south Sandö Bridge	8344
Hamina – Suurmusta	8346	Härnösand – Härnön	8344
Suurmusta – Merikari	8346	Sea area off Härnö	5334
Merikari – Kaunissaari	5146	Sundsvall – Draghällan	8346
		Draghällan – Åstholmsudde	8346
<b>Latvia, 14.02.2024</b>		Off Åstholmsudde and Brämön	5336
Irben Strait, fairway	1000	Hudiksvallfjärden	8346
		Iggesund – Agö	8346
<b>Norway, 14.02.2024</b>		Sea area off Agö	1006
Svinesund – Halden	33//	Sandarne – Hällgrund	8346



Sea area off Hällgrund	5336
Ljusnefjärden – Storjungfrun	8346
Sea area off Storjungfrun	5336
Gävle – Eggegrund	8346
Sea area off Eggegrund	5336
Sea area off Orskär	5336
Öregrundsgrepen	8246
Passage at Grundkallen	1006
Passage at Understen	4036
Sea area off Svartklubben	4036
Hallstavig – Svartklubben	8346
Trälhavet – Furusund – Kapellskär	5146
Stockholm – Trälhavet – Klövholmen	5146
Klövholmen – Sandhamn	5146
Trollharan – Langgarn	5146
Köping – Kvicksund	8344
Västerås – Grönsö	8344
Grönsö – Södertälje	8344
Stockholm – Södertälje	8344
Södertälje – Fifong	8244
Fifong – Landsort	3126
Norrköping – Hargökalv	4046
Järnverket-Lillhammaren – N Kränkan	5246
Västervik – Marsholmen – Idö	5246
Uddevalla – Stenungsund	2126
Vänersborgsviken	5356
Fairway through Lurö archipelago	4136
Fairway to Gruvön	8346
Fairway to Karlstad	8346
Fairway to Kristinehamn	8346
Fairway to Otterbäcken	8346
Fairway to Lidköping	8346