

## Bothnia VTS

### About Vessel Traffic Services

The provisions on vessel traffic services are laid down in the Vessel Traffic Service Act 623/2005 and in the Government Decrees on Vessel Traffic Service 763/2005, 1798/2009, 1304/2011 and 1216/2018.

### Participation in Vessel Traffic Services

Vessels of 24 metres in length overall or more are obliged to participate in the vessel traffic services.

When navigating in the VTS area, vessels are required to maintain a continuous listening watch on the working channel used in the area. Furthermore, vessels are obliged to obey the rules relevant to the traffic in the VTS area. More detailed instructions about the required reports and working channels can be found in the regional VTS guide.

Vessels navigating in the VTS area, which are not obliged to participate in the vessel traffic services, are recommended to maintain a listening watch on the working channel in the VTS area or sector in question.

### Operational hours and location of VTS Centres

In Finland the vessel traffic services (VTS services) are operated by Fintraffic Vessel Traffic Services Ltd (Fintraffic VTS). VTS centres are located in Turku and Helsinki. The sea areas at the Finnish coast are divided into six VTS areas. These are Bothnia VTS, West Coast VTS, Archipelago VTS, Hanko VTS, Helsinki VTS and Kotka VTS. In addition, Saimaa VTS operates in the Saimaa deep water fairway.

Along the coast VTS services are provided 24 h/day throughout the year. There may be operational interruptions due to technical problems or an unexpected shortage of personnel. Information about the interruptions is given as navigational or local warnings. Saimaa VTS only provides services during its period of operations. The period of operations is largely equivalent to the opening hours of the Saimaa Canal, but Fintraffic VTS will provide information about when the operational period begins and ends.

### Service and languages

Vessel Traffic Service includes providing information, responding to developing unsafe situations, and organizing traffic.

To improve safety and to create a consistent maritime situational awareness, English is used as the primary communication language in the VTS areas along the Finnish coast. As required, vessel traffic service is also provided in Finnish and Swedish.

### **Information**

is given to all vessels whenever necessary, at set intervals, when they report or when a vessel so requests. The information to vessels comprises matters which affect the vessels' safe and smooth navigation. Such information includes, among other things, traffic in the VTS area, weather conditions, pilotage, icebreaking, towage, and port operations, as well as information on the status of navigational aids and fairways. VTS monitors the movement of vessels and, if necessary, provides information to the vessel about a developing unsafe situation.

### **Responding to developing unsafe situations:**

Identified vessels are assisted in navigation upon request or when deemed necessary by the VTS.

Navigational assistance may include information about the vessel's position and bearings/courses over ground to for example the fairway centre line or the pilot boarding position. Bearings or COG's can also be given so that vessels can pass navigational hazards, for example shoals, at a safe distance.

Assistance is advisory and normative in nature. The responsibility for navigating the vessel remains with the vessel's master.

The information, warnings, advice, and instructions provided by the VTS are based the situational awareness system at the VTS center.

### **Vessel traffic is organized**

in order to improve traffic flow and safety. Methods of organization include, among others, permanent meeting and overtaking prohibition areas, departure procedures for ports, and traffic organization based on time or distance. The aim is to prevent dangerous meeting and overtaking situations and congestion.

# Contact information

## Emergency number in Finland

Emergency number in Finland

112

Only call the emergency number 112 in real emergencies when you need urgent assistance from the authorities.

## Maritime Rescue Centres

National Maritime Search and Rescue alarm number

VHF 16 / DSC 70 / MF-DSC 2187,5 kHz

Alarm hotline +358 294 1000

Maritime Rescue Co-ordination Centre MRCC Turku

VHF 16 / DSC 70 / MF-DSC 2187,5 kHz

mrcc@raja.fi

Alarm hotline +358 294 1001

Maritime Rescue Subcentre MRSC Helsinki

VHF 16 / DSC 70 / MF-DSC 2187,5 kHz

mrsc.helsinki@raja.fi

Alarm hotline +358 294 1002

## Bothnia VTS

Bothnia VTS

VHF 67

bothnia.vts@fintraffic.fi

+358 20 448 7356

Western Finland Vessel Traffic Centre Supervisor

supervisors.west@fintraffic.fi

+358 20 448 6522

All phone calls will be recorded.

## **Bothnia VTS Ports**

Port of Tornio

VHF 12

[agency.tornio@outokumpu.com](mailto:agency.tornio@outokumpu.com)

Outokumpu Agency +358 16 4545 11

Port of Kemi Port Security

VHF 12

[satamavalvojat@keminsatama.fi](mailto:satamavalvojat@keminsatama.fi)

+358 40 548 2065

Port of Oulu Port Control

VHF 12

[satamavalvojat@ouluport.com](mailto:satamavalvojat@ouluport.com)

+358 44 703 2759

Port of Kokkola Port Control

VHF 12

[satamavalvojat@portofkokkola.fi](mailto:satamavalvojat@portofkokkola.fi)

+358 400 432694

Pietarsaari Port Control

VHF 16 & 13

[portcontrol@portofpietarsaari.fi](mailto:portcontrol@portofpietarsaari.fi)

+358 6 723 1388

Kalajoki Port Service and ISPS

VHF 12

[portservice@portofkalajoki.fi](mailto:portservice@portofkalajoki.fi)

+358 400 798 698

## **Pilot Dispatch Bothnia Area**

Pilot Dispatch Bothnia Area

[pilotdispatch.bothnia@finnpilot.fi](mailto:pilotdispatch.bothnia@finnpilot.fi)

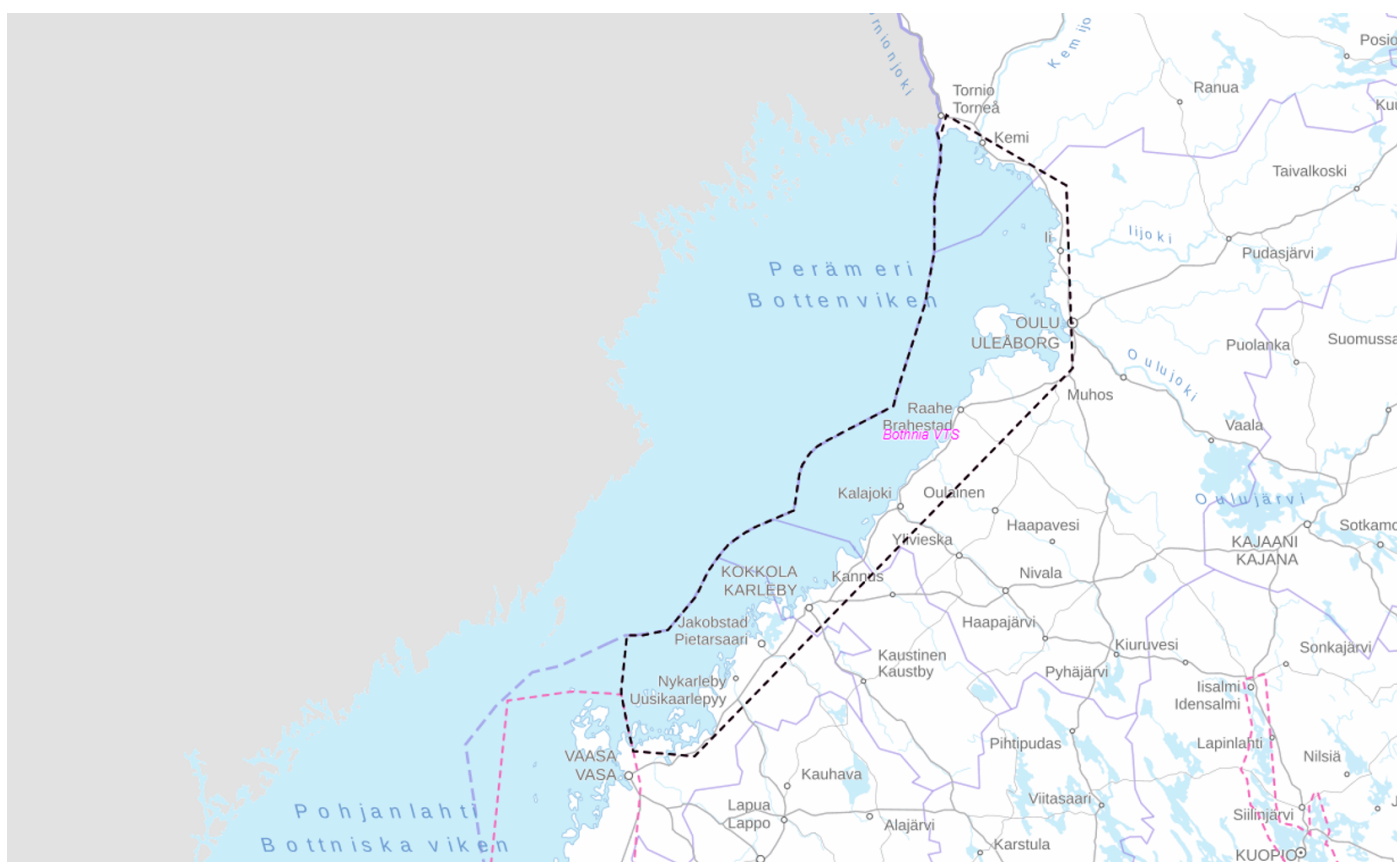
+358 29 5253 440

# Get familiar with Bothnia VTS area

The VTS Area covers the coast along the Bay of Bothnia from Ritgrund lighthouse to Tornio including the merchant shipping lanes as well as the areas administered by the Port of Pietarsaari and Port of Oulu. The VTS Area does not cover the areas administered by other ports.

The boundary line of the Bothnia VTS Area runs between the following corner points:

- 1) from Ritgrund lighthouse, 63°25.5'N 021°30.5'E
- 2) to the territorial sea limit in position 63°40.0'N 021°31.0'E
- 3) observing the territorial sea limit to Tornio



## Bothnia VTS Area Info

### Reporting procedures

The working channel of Bothnia VTS is VHF 67.

Reports should include the following information:

- Name of the vessel
- Name of reporting point

- Destination
- Intended route. If an alternative route is selected, this must be reported.

### Required reports

- upon entry into the VTS Area
- before anchoring
- before leaving an anchorage
- after berthing
- before leaving port; for Port of Pietarsaari and Port of Oulu, see chapter “Permission to depart from the ports of Pietarsaari and Oulu”

Vessels bound for Finnish ports in the Gulf of Bothnia via the Quark are required to submit an advance report 20 nautical miles before the Nordvalen Lighthouse (63°32.15'N 020°46.60'E) at the time indicated in the instructions Finland's Winter Navigation.

## Departure permissions

Before leaving the Port of Oulu or Port of Pietarsaari, the vessel must request permission to depart from VTS.

The permission to depart issued by the VTS is valid for 20 minutes, during which time the vessel must get underway.

The vessel is required to give a report when underway. If the vessel's departure is delayed, it will have to request a new permission to depart.

In the Port of Pietarsaari, if necessary, the order of departure and arrival can be decided by the Port Authority.

## Meeting and overtaking prohibitions

Meeting and overtaking is permanently prohibited in the following areas covered by Bothnia VTS:

1. Tornio: Harbour basin–buoy pair T27 and T28 between latitudes 65°44.8'N and 65°43.2'N in the 9.0 m fairway.
2. Tornio: Narrow passage at Keila between buoys T5 and T7 between longitudes 024°20.8'E and 024°18.9'E in the 9.0 m fairway.
3. Tornio: Europa bend, in the area between buoys Europa and T18 between latitudes 65°39.8'N and 65°40.4'N in the 9.0 m fairway.

4. Kemi: Ajos Harbour–buoy Inakari 2 between latitudes 65°39.5'N and 65°38.9'N in the 10.0 m fairway.
5. Kemi: Veitsiluoto fairway; Veitsiluoto Harbour–W of Ajoskrunki between latitudes 65°40.9'N and 65°37.8'N in the 7.0 m fairway.
6. Oulu: Suumatala in the area between the buoys Oulu 5 and Hammasmatala between longitudes 024°50.5'E and 024°53.1'E in the 10.0 m fairway.
7. Oulu: Löyhänmutka fairway area between Hookana and Löyhänmutka edge mark between latitudes 65°07.3'N and 65°06.8'N in the 10.0 m fairway.
8. Oulu: Port entrance; Kyrönkari–Port of Oulu between longitudes 025°20.8'E and 025°23.5'E in the 12.5 m fairway.
9. Raahe: Elkonredi–Johan edge mark between longitudes 024°22.3'E and 024°16.9'E in the 10.0 m fairway.
10. Kokkola: Vessels of 200 m or more in length when operating between latitudes 63°53.5'N and 63°59.2'N in the 14.0 m fairway.
11. Pietarsaari: Port of Pietarsaari–Ådö island between longitudes 022°41.0'E and 022°37.9'E in the 11.0 m fairway.

These prohibitions do not apply to meeting and overtaking situations in which at least one of the parties is a tug or a vessel, the size of which is comparable to a tug.

## Speed limits

1. In Oulu the 12.5 m fairway has a 12 kn (22 km/h) speed limit between longitudes 025°12,2'E and 025°06,0'E.

## Anchoring

A vessel must always notify both the VTS and the Finnish Border Guard when anchoring in Finland's territorial waters. The vessel must make the notification either itself or through its agent. In addition, a vessel anchoring in territorial waters is required to make an electronic customs declaration, even if the vessel is not going to call at a Finnish port.

After leaving a port in Finland, the vessel must also check with the Finnish Border Guard whether anchoring in Finnish territorial waters is possible. Also in this case, a vessel remaining at anchor must make an electronic customs declaration.

## Aids to Navigation

### 1. Remotely operated AtoNs

Upon request, VTS can:

- switch on the virtual AIS marks between the Oulu 12,5 m fairway and the pilot boarding position.
- adjust the brightness of aids to navigation in the Kokkola 14 m fairway.

## 2. Virtual AtoNs (V-AIS)

There are following V-AIS-AtoNs in the Bothnia VTS area:

V-AIS 1	65° 04,61'N	023° 59,85'E
V-AIS 2	65° 05,33'N	023° 59,85'E
V-AIS 3	65° 09,78'N	023° 54,20'E
V-AIS 4	65° 15,70'N	023° 50,87'E
V-AIS 5	65° 17,73'N	023° 52,55'E
V-AIS 6	65° 20,39'N	023° 56,08'E
Ke 1	65° 22,89'N	024° 03,47'E
Ke 2	65° 23,95'N	024° 05,37'E
Ke 3	65° 24,58'N	024° 08,69'E
Ke 4	65°26,50'N	024°13,26'E

Tornio/Kemi Winter Pilot Boarding Position

65° 35,40'N 024° 28,04'E

Tornio Winter Pilot Boarding Position

65° 37,50'N 024° 23,00'E

Kemi Veitsiluoto Winter Pilot Boarding Position

65° 36,30'N 024° 28,66'E

Oulu Winter Pilot Boarding Position

64° 39,14'N 024° 20,29'E

Oulu Liberta Winter Pilot Boarding Position

65° 07,90'N 024° 44,00'E

Pietarsaari Winter Pilot Boarding Position

63° 44,48'N 022° 32,96'E

Kokkola Winter Pilot Boarding Position

65° 57,23'N 022° 55,47'E

Kalajoki Winter Pilot Boarding Position

64° 14,87'N 023° 40,83'E

## 3. Fault Reporting

AtoNs not working correctly? Please inform Bothnia VTS by VHF radio on channel 67 or call Turku Radio 0800-181818.

## Notice of channel use

Use of channels that deviates from the channel design refers to a situation where a vessel uses a channel in a manner that deviates from the channel's design and the adequacy of the channel space cannot be ensured based on the design. If the vessel's



static draught is greater than the channel's design draught taking into account the current water level, the vessel shall ensure that her net under keel clearance remains adequate and demonstrate it to the VTS Centre that is responsible for monitoring the fairway.

Vessel's operator, agent or master shall give the notice of channel use at least 24 hours before its arrival at the pilot boarding position, or if the vessel is expected to arrive in less than 24 hours, no later than when the vessel has left the port of departure for a Finnish port. A vessel departing a Finnish port shall give the notice of channel use as soon as possible, at latest when the departure report is given.

**The notice of channel use shall include the following items:**

- A. Vessel's name
- B. Which channel or part of channel the vessel is intending to use in a manner that deviates from the channel design
- C. What is the manner that deviates from the channel design
- D. Length between perpendiculars LBP and Breadth
- E. Static Draught
- F. Centre of Buoyancy, KB
- G. Centre of Gravity, KG
- H. Metacentric Height, GM
- I. Block Coefficient, C<sub>b</sub>

When ensuring the adequate net UKC and giving the notice of channel use, it is recommended to utilize the tools provided by the Finnish Transport and Infrastructure Agency. The notice of channel use can be given in the form of a squat calculation made with the Squat Calculator with regard to items D–I. The calculation can be shared as a link, or as a pdf-printout sent by e-mail to the VTS Centre. When using the Squat Calculator, it is enough to write the information of points A–C in the e-mail.

In Archipelago VTS, Bothnia VTS, Saimaa VTS and West Coast VTS monitoring areas the notice of channel use should be sent to the email address [supervisors.west@fintraffic.fi](mailto:supervisors.west@fintraffic.fi). Title the email "Notice of channel use".

## Harbour areas

### Oulu

Vessels are required to maintain a listening watch on VHF channel 12 in the harbour area. Ship services are ordered from the Port of Oulu. The port regulations and the port instructions of the Port of Oulu must be followed in the area.

Port control contact information:

- telephone +358 (0)44 703 2759

- e-mail [satamavalvojat@ouluport.com](mailto:satamavalvojat@ouluport.com)
- VHF channel 12

## **Pietarsaari**

The port regulations and the port instructions of the Port of Pietarsaari must be followed in the area.

Port control contact information:

- telephone +358 6 723 1388 (24/7)
- e-mail [portcontrol@portofpietarsaari.fi](mailto:portcontrol@portofpietarsaari.fi)
- VHF channel 16 & 13 (not monitored continuously, only during mooring and unmooring)

## **Pilot boarding positions**

- Kalajoki  
64°15.50'N            023°30.00'E
- Kemi N  
65°33.10'N            024°26.90'E
- Kemi S  
65°29.28'N            024°19.02'E
- Kokkola  
64°00.53'N            022°49.09'E
- Oulu N  
65°10.95'N            024°18.00'E
- Oulu S  
65°05.64'N            024°15.40'E
- Oulu W  
65°05.10'N            024°03.30'E
- Pietarsaari  
63°44.66'N            022°27.56'E
- Raahе  
64°38.70'N            024°09.90'E

## **Accidents and incidents**

### **Exceptional situations**

In exceptional situations, such as extraordinary weather conditions, search and rescue situations or any other incidents in which vessel traffic is restricted or put at risk, the VTS can temporarily close a fairway or fairway section, issue speed limits or instruct vessels to anchor.

### **Unable to participate?**

If the master of the vessel, for a valid reason relating to the vessel's safety, is unable to participate in the vessel traffic services, or to follow the instructions given by the VTS in exceptional situations, he must immediately inform the VTS about this.

The vessel's participation in the vessel traffic services does not affect the master's responsibility for manoeuvring the vessel.

## **Accidents and incidents**

In coastal areas vessels involved in an accident or in imminent danger shall first contact the MRCC or MRSC (tel. +358 294 1000).

In the Lake Saimaa region vessels shall contact the emergency response centre (tel. 112) or the VTS centre.

Vessels must immediately report all accidents and incidents relating to maritime safety to the VTS centre. Some examples of such accidents and incidents are listed in section 23 in the Finnish Vessel Traffic Service Act.