Important

Reef VTS relies on the reports that it receives from ships. The information used by Reef VTS is only as accurate as the information that is given in these ship reports.

Reef VTS may not know about all the hazards in the region and ships may encounter unreported hazards at any time. Any hazards should be reported to Reef VTS immediately.

The Master of a ship is responsible for the ship’s operation, and is responsible for the safe navigation of the ship under all circumstances.

The information provided below is a guide only. Any ship, owner, operator, charterer, Master, or person directing the movement of a ship must still follow all relevant laws or regulations, and must take any precaution required by ordinary seamanship or the special circumstances of the case. Neither the Commonwealth of Australia nor the State of Queensland accept any responsibility for any decision made by any Master or crew member.

If there is any difference between the information in the Reef VTS User Guide and the relevant laws, the relevant laws should be followed.

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1. Definitions and Abbreviations

AIS
Automatic Identification System

AMSA
Australian Maritime Safety Authority

APR
Automated Position Reporting via Inmarsat C

Chemical tanker
a ship to which the BCH or IBC Code applies – see Marine Orders Part 17 (Liquefied Gas Carriers and Chemical Tankers)

Combination carrier
a ship designed to carry either oil or solid cargoes in bulk

IMO
International Maritime Organization

IMN
Inmarsat Mobile Number

INF Code
Irradiated Nuclear Fuel Code – see Marine Orders Part 41 (Carriage of Dangerous Goods)

JRCC
Joint Rescue Coordination Centre

Length of tow
the distance between the stern of the towing vessel and the after end of the tow

Liquefied gas carrier
a ship to which the EGC, GC or IGC Code applies – see Marine Orders Part 17 (Liquefied Gas Carriers and Chemical Tankers)

MASTREP
the Modernised Australian Ship Tracking and Reporting System – see Marine Order 63 (Vessel reporting systems) 2015

MSI
Maritime Safety Information

MSQ
Maritime Safety Queensland, a branch of the Queensland Department of Transport and Main Roads

Navigation Act
the Australian Government’s Navigation Act 2012

Oil tanker
a) a ship constructed or adapted primarily to carry oil in bulk as cargo; or
b) a combination carrier when it is carrying oil in bulk as cargo; or
c) a chemical tanker when it is carrying oil in bulk as cargo; or
d) any other ship fitted with cargo spaces which are constructed and used to carry oil in bulk of an aggregate capacity of 200 cubic metres or more.

Overall length
the overall length of a ship is the distance between:
a) a vertical line passing through a point that is the foremost part of the stem; and
b) a vertical line passing through a point that is the aftermost part of the stern; but
if it is not possible to measure the overall length of the ship in this way, the overall length is stated as 110 percent of the length which is shown on the ship’s load-line certificate.

REEFREP
the mandatory ship reporting system established by IMO Resolution MSC.52(66), amended by Resolution MSC.161(78) and Resolution MSC.315(88) – see Marine Order 63 (Vessel reporting systems) 2015

Reef VTS
the Great Barrier Reef and Torres Strait Vessel Traffic Service, operated by MSQ as a VTS Authority approved by AMSA under Marine Order 64 (Vessel Traffic Services)

SAR
Search and Rescue

STI
Ship Traffic Information

TMR
Queensland Department of Transport and Main Roads

UKCM
Under Keel Clearance Management

VTS
Vessel Traffic Service
2. **Purpose**

This guide will help masters of ships give Reef VTS the correct ship reports and benefit from the services provided by Reef VTS. It describes:

- the requirements for ships entering and transiting through the Reef VTS Area, including the mandatory reporting procedures, recommended shipping routes and compulsory pilotage areas; and
- the vessel traffic services provided by Reef VTS.

The information in this guide does not replace or change any rules in Australia's *Navigation Act 2012* which apply to waters within the Reef VTS Area (see section 4). If there is any difference between the information in the Reef VTS User Guide and the relevant laws, the relevant laws should be followed.

The master of a ship is responsible for the ship's operation, and is responsible for the safe navigation of the ship under all circumstances.

The information given here is a guide only. Any ship, owner, operator, charterer, master, or person directing the movement of a ship must still follow all relevant laws or regulations, and must take any precautions required by ordinary seamanship or by the special circumstances of the case.

3. **Introduction**

The environmental and cultural significance of the Great Barrier Reef and Torres Strait regions are internationally recognised. The Great Barrier Reef Marine Park was established in 1975 and added to the World Heritage list in 1981. In 1990 the International Maritime Organization (IMO) named the Great Barrier Reef as the world's first Particularly Sensitive Sea Area (PSSA). The IMO also named Torres Strait as a PSSA in 2005.

3.1 **Reef VTS**

The Queensland and Australian Governments established Reef VTS in 2004. Its purpose is to:

- make navigation in Torres Strait and the inner route of the Great Barrier Reef safer by working with shipping to give the best possible information on potential traffic conflicts and other navigational information;
- minimise the risk of maritime accidents, and therefore avoid the pollution and damage which such accidents can cause to the marine environment in the Great Barrier Reef and Torres Strait; and
- assist with quick response if a safety or pollution incident does occur.

Reef VTS is operated by Maritime Safety Queensland (MSQ) as a VTS authorised by AMSA under Marine Order 64 (Vessel Traffic Services). AMSA is an agency of the Australian Federal Government; whilst MSQ is an agency of the Queensland State Government.

Reef VTS operates 24 hours a day from the VTS Centre, situated at Townsville on the Queensland coast. Reef VTS uses information from many sources, including the Automatic Identification System (AIS); Radar; Automated Position Reports (APR) via Inmarsat C and the route plans that vessels provide to Reef VTS.

3.2 **Vessel Traffic Service (VTS)**

To help with the safe navigation of ships, Reef VTS:

- monitors the movement of participating ships in the Reef VTS Area;
- gives timely, relevant and accurate information to ships;
- keeps a listening watch on Reef VTS VHF working channels;
receives the information given by masters under the REEFREP mandatory ship reporting requirements; and
responds to requests for information, such as ship traffic and maritime safety information.

If Reef VTS has additional information which may help decision-making on-board a vessel, Reef VTS may contact that vessel.

### 3.3 Authority

The Great Barrier Reef and Torres Strait Ship Reporting System (REEFREP) was established as a mandatory ship reporting system under the International Convention for the Safety of Life at Sea (SOLAS Regulation V/11). REEFREP was formally adopted by the IMO’s Maritime Safety Committee in Resolution MSC.52 (66), and later amended by Resolutions MSC.161(78) and MSC.315(88).

Australia’s *Navigation Act 2012* gives the general power to make regulations to implement SOLAS (s339) and the related power to make Australian Marine Orders (s342). The laws about mandatory ship reporting are based on these powers.

Marine Order 63 (Vessel reporting systems) 2015 states that ships which are required to report to Reef VTS must do so whether they are voyaging overseas, between states or within one state.

Reef VTS manages and operates REEFREP.

### 4. Reef VTS Area

The Reef VTS Area is described in Marine Order 63 (Vessel reporting systems) 2015 and as shown in Figure 1. More detailed information on the Reef VTS Area can be found in AUSCHART 4620, 4635 and 490.

*Figure 1: Reef VTS Area*
5. Ships required to report to Reef VTS

5.1 General obligation

The following categories of ships must report to Reef VTS:

(a) all ships with an overall length of 50 metres or more;
(b) all oil tankers, liquefied gas carriers, chemical tankers or ships coming within the Irradiated Nuclear Fuel (INF) Code, including those with an overall length of less than 50 metres; and
(c) Ships which are towing or pushing, or being towed or pushed, where either of the ships belongs to category a) or category b), or where the overall length of the tow is 150 meters or more. The overall length of the tow is measured from the stern of the towing vessel to the after end of the tow.

5.2 Voluntary reporting

Other vessels transiting the Reef VTS Area may report on a voluntary basis as defined in this user guide.

5.3 Warships, naval auxiliaries and government ships

SOLAS Regulation V/11 does not apply to any warship, naval auxiliary, or any ship owned or operated by government; however SOLAS does state that “such ships are encouraged to participate in ship reporting systems”.

The Australian Government fully supports this approach, and all ships of the Royal Australian Navy are encouraged to participate in Reef VTS on a voluntary basis, along with other ships owned or operated by the Australian Government.

6. Master’s responsibilities

It is the responsibility of the ship’s master while in the Reef VTS Area to:

- follow the ship reporting requirements – these are described in Marine Order 63 (Vessel reporting systems) 2015 and outlined in this user guide;
- confirm that information from Reef VTS has been received when asked to do so;
- respond appropriately to all information, warnings, and advice given by Reef VTS;
- keep a listening watch on Reef VTS VHF working channels;
- make sure that the Inmarsat C terminal is logged into the Pacific Ocean Region (POR) at all times; and
- as soon as possible, notify Reef VTS of any:
  - incident/accident affecting the ship’s safety;
  - incident/accident affecting safety of navigation;
  - circumstance that may cause pollution;
  - pollutants/containers/packages drifting;
  - change to route plan.

Correct reporting is essential to enable Reef VTS to facilitate the safe navigation of ships through the Reef VTS Area.
7. **Failure to report**

Any master, or officer of the watch at the time, who fails to follow the required reporting procedures, or who deliberately transmits information which is incorrect, false or misleading, will have committed an offence and may be fined if convicted.

Section 216 of the *Navigation Act 2012* makes it an offence for a person to fail to report the required information or provide false or misleading information. The penalty is up to 240 penalty units (presently A$40,800) or a civil penalty of 2,400 penalty units (presently A$408,000).

8. **Mandatory reporting requirements**

A ship must send the following reports to Reef VTS:

- Pre-Entry Position Report (PER)
- Final Report (FR)

Additional reports which must be sent to Reef VTS include:

- Route Deviation Report (DR)
- Intermediate Position Reports (IP)
- Defect Reports (IR)

Mandatory reports follow standard reporting formats as per IMO Resolution A.851(20)

Details of the information required for each report are shown in section 8.2.

8.1 **Reporting codes reference table**

Below is the reporting codes reference table

<table>
<thead>
<tr>
<th>ID</th>
<th>Message type (PER, FR, DR, IP, or IR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Ship name, call sign and IMO number</td>
</tr>
<tr>
<td>B</td>
<td>Date and time (UTC)</td>
</tr>
<tr>
<td>C</td>
<td>Current Position</td>
</tr>
<tr>
<td></td>
<td>Latitude and longitude (in degrees and minutes)</td>
</tr>
<tr>
<td>E</td>
<td>Course</td>
</tr>
<tr>
<td></td>
<td>True Course</td>
</tr>
<tr>
<td>F</td>
<td>Speed</td>
</tr>
<tr>
<td></td>
<td>The planned speed of the ship in knots and tenths of a knot</td>
</tr>
<tr>
<td>G</td>
<td>Last Port of Call/Port Departing From</td>
</tr>
<tr>
<td></td>
<td>If entering the Reef VTS Area for the first time state the last port of call. If departing from a port within the Reef VTS Area, the name of that port</td>
</tr>
<tr>
<td>H</td>
<td>Date, time (UTC) and point of entry to Reef VTS Area</td>
</tr>
<tr>
<td></td>
<td>Either the name of the first mandatory reporting point entering the Area, or the position (latitude and longitude) of entry</td>
</tr>
<tr>
<td>I</td>
<td>Next Port of Call</td>
</tr>
<tr>
<td></td>
<td>Name of the next port of call date and time in UTC.</td>
</tr>
<tr>
<td>J</td>
<td>Pilot Company Details</td>
</tr>
<tr>
<td></td>
<td>Give the pilot company name.</td>
</tr>
<tr>
<td>K</td>
<td>Date, time (UTC) and point of exit from area</td>
</tr>
<tr>
<td>L</td>
<td>Route information</td>
</tr>
</tbody>
</table>
| M | Communication methods | 1) Primary Inmarsat C details: Inmarsat Mobile Number (IMN), manufacturer and model  
2) Ship’s satellite phone number. |
| O | Draught | Fore and aft and deepest draught, in metres and decimetres. |
| P | Cargo on-board | Give the normal name of cargo and state whether it is classified as hazardous (yes or no).  
Note: If required, this information may be given by non-voice means before the first Reef VTS report. |
| Q | Defects, damage, deficiencies or other limitations | Describe details of any damage, failure or breakdown:  
(1) collision, grounding, fire, explosion, structural failure, flooding, cargo shifting;  
(2) failure or breakdown of steering gear, propulsion plant, electrical generating system, essential shipboard navigational equipment. |
| R | Pollution/dangerous goods lost overboard | Give brief details of the type of pollution (oil, chemicals and so on) or dangerous goods lost overboard. State the ship’s position. |
| U | Ship type, length (metres) and gross tonnage | Give details of the ship, including ship type, length (metres) and gross tonnage. |
| X | Remarks | Give any additional information which would help the navigational safety of shipping in the Reef VTS Area; for example, abnormal weather; faulty navigational aid; or any Dangerous Goods (DG), Harmful Substances (HS) or Marine Pollution (MP) incident reports. |

## 8.2 Reef reporting information required

Send all reports to Reef VTS by Inmarsat C or call on the VHF working channels (see section 10).

### 8.2.1 Pre-entry report (PER)

Give the following information for a pre-entry report: (* = mandatory for PER)

<table>
<thead>
<tr>
<th>When/Where</th>
<th>ID</th>
<th>Information required</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>At least one hour before: Entering the Reef VTS area or Departing from a port within the Reef VTS area</td>
<td>ID</td>
<td>Message Type</td>
<td>ID/PER</td>
</tr>
<tr>
<td></td>
<td>A*</td>
<td>Ship name, call sign and IMO number</td>
<td>A/HAPPY SAILOR/ABCD/1234567</td>
</tr>
<tr>
<td></td>
<td>B*</td>
<td>Date and time (UTC)</td>
<td>B/010200UTC</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>Current Position</td>
<td>C/1120S/14430E</td>
</tr>
<tr>
<td></td>
<td>F*</td>
<td>Speed Ships planned average speed</td>
<td>F/13.5</td>
</tr>
<tr>
<td></td>
<td>G*</td>
<td>Last Port of Call/Port Departing from within the Reef VTS area</td>
<td>G/Singapore, or, G/Hay Point</td>
</tr>
<tr>
<td></td>
<td>H*</td>
<td>Date, time (UTC) and point of entry to REEFREEF VTS Area</td>
<td>H/010300UTC/BOOBY, or, C/1030S14120E</td>
</tr>
</tbody>
</table>
### 8.2.2 Route information

Give standard route plan details as set out in Appendix A.

Any pre-planned variation from the standard route (for example to deliver a cruise ship itinerary) should be given to Reef VTS when entering the Reef VTS area.

### 8.2.3 Final report (FR)

Give the following information for a final report: (* = mandatory for FR)

<table>
<thead>
<tr>
<th>When/Where</th>
<th>ID</th>
<th>Information required</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediately on exiting the Reef VTS Area or Arriving at a port in the Reef VTS Area</td>
<td>A*</td>
<td>Ship name, call sign and IMO number</td>
<td>A/HAPPY SAILOR/ABCD/1234567</td>
</tr>
<tr>
<td></td>
<td>B*</td>
<td>Date and time (UTC)</td>
<td>B/010200UTC</td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>Date, time (UTC) and point of exit from area</td>
<td>K/Booby or K/1120S/14430E</td>
</tr>
</tbody>
</table>

### 8.2.4 Route deviation report (DR)

If the ship needs to deviate from the Route Plan which was given to Reef VTS on entry to the Reef VTS Area, this should be reported to Reef VTS before the deviation is made.

However, in situations where a deviation is made without much warning, a report should be sent to Reef VTS within 15 minutes after the deviation made.

Give the following for a route deviation report(* = mandatory for DR)

<table>
<thead>
<tr>
<th>When/Where</th>
<th>ID</th>
<th>Information required</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Send to Reef VTS before</td>
<td>A*</td>
<td>Ship name, call sign and IMO number</td>
<td>A/HAPPY SAILOR/ABCD/1234567</td>
</tr>
<tr>
<td></td>
<td>B*</td>
<td>Date and time (UTC)</td>
<td>B/010200UTC</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>Current Position</td>
<td>C/1120S/14430E</td>
</tr>
</tbody>
</table>
8.2.5 Intermediate position reports (IP)

Where Reef VTS advises that the ship’s position is being tracked by sensors then intermediate position reports at the mandatory reporting points are not required.

If the ship’s position is not being tracked by sensors, then a brief position report must be given as advised by Reef VTS.

Where required, give the following information for an intermediate position report: (* = mandatory for IP)

<table>
<thead>
<tr>
<th>When/Where</th>
<th>ID</th>
<th>Information required</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>As advised by Reef VTS</td>
<td>ID</td>
<td>Message Type</td>
<td>ID/PER</td>
</tr>
<tr>
<td>A*</td>
<td>Ship name, call sign and IMO number</td>
<td>A/HAPPY SAILOR/ABCD/1234567</td>
<td></td>
</tr>
<tr>
<td>B*</td>
<td>Date and time (UTC)</td>
<td>B/010200UTC</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Current Position</td>
<td>C/1120S/14430E</td>
<td></td>
</tr>
<tr>
<td>F*</td>
<td>Speed - Ships planned average speed</td>
<td>F/13.5</td>
<td></td>
</tr>
</tbody>
</table>

8.2.6 Defect report (IR)

Give the following information for a defect report: (* = mandatory for IR)

<table>
<thead>
<tr>
<th>When/Where</th>
<th>ID</th>
<th>Information required</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediately if a ship suffers damage, failure or breakdown which affects the ship’s safety or</td>
<td>ID</td>
<td>Message Type</td>
<td>ID/PER</td>
</tr>
<tr>
<td>Immediately if there is pollution or cargo lost overboard or</td>
<td>A*</td>
<td>Ship name, call sign and IMO number</td>
<td>A/HAPPY SAILOR/ABCD/1234567</td>
</tr>
<tr>
<td>Special reports as defined by IMO for incidents involving Dangerous Goods (DG), Harmful Substances (HS) or Marine Pollutants (MP)</td>
<td>B*</td>
<td>Date and time (UTC)</td>
<td>B/010200UTC</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>Current Position</td>
<td>C/1120S/14430E</td>
</tr>
<tr>
<td></td>
<td>F*</td>
<td>Speed - Ships planned average speed</td>
<td>F/13.5</td>
</tr>
<tr>
<td></td>
<td>Q*</td>
<td>Defects, damage, deficiencies or other limitations</td>
<td>Q/Include details as required</td>
</tr>
<tr>
<td></td>
<td>R</td>
<td>Pollution/dangerous goods lost overboard</td>
<td>R/Include details as required</td>
</tr>
<tr>
<td></td>
<td>X</td>
<td>Remarks</td>
<td>X/Include details as required</td>
</tr>
</tbody>
</table>

The requirement to report all marine incidents including defects and deficiencies using form ‘AMSA 18’ and form ‘AMSA 19’ remains.
9. Services provided by Reef VTS

Reef VTS provides an information service throughout the Reef VTS Area. In addition, in specific areas, Reef VTS provides a navigational assistance service. These areas are identified in Annex B – Reef VTS Chartlets.

The information that Reef VTS uses comes from AIS, Radar, Automated Position Reporting (APR) via Inmarsat C and the route plans which ships have given to Reef VTS. Route plans are only as accurate as the information that is given in these reports and Masters are encouraged to take care that reports are correct.

Reef VTS may not know about all the hazards in the Reef VTS Area. If a ship encounters any hazard which is not already included in Maritime Safety Information (for example, a faulty navigational aid), it should advise Reef VTS.

9.1 Information services

An information service is defined by IMO Resolution A.857(20) as a service to ensure that essential information becomes available in time for on-board navigational decision-making.

9.1.1 Ship Traffic Information (STI)

Reef VTS predicts ship encounters and sends this information to individual ships as Ship Traffic Information (STI), usually through Inmarsat C messaging

Reef VTS advises individual ships of STI:

1. when the ship enters the Reef VTS Area;
2. when there is new or changed traffic information;
3. in an update every 4-6 hours, depending on the ship’s speed; and
4. at any other time when the ship asks Reef VTS to provide it.

Some common STI phrases are:

- **Pass**: indicates that the ship is stopped
- **Overtake**: indicates that the ships are heading in roughly the same direction at the position of the predicted encounter
- **Meet**: describes all other situations
- **(P)**: indicates a piloted ship
- **(NP)**: indicates a non-piloted ship
- **(DD)**: indicates a deep draught ship
9.1.1.1 When a ship enters the Reef VTS Area

A ship will receive STI about predicted ship encounters and Maritime Safety Information for the next six hours of its transit. The STI lists the ship, the time and the location of the predicted encounter.

Example:

Expected STI (EST):

Meet SILVER ZHANG (P) in your area now
Overtake ENDEAVOUR RIVER (P) at 10 1215
Meet FAR EASTERN SILO (P) at 10 1240
Meet GLORIOUS HALO (P) at 10 1325
Light altered AUSCOAST warning 340 at 10 30 S 142 13 E

9.1.1.2 New or changed traffic information

Reef VTS monitors the transit of a ship to identify any significant changes to the traffic information which Reef VTS has previously given. An example of this could be when a new ship is identified or there is a change in ETA because of an increase or decrease in speed.

If there is new or changed traffic information, Reef VTS gives the ship updated traffic information for the next six hours, listing the predicted encounters as either:

- new;
- changed;
- unchanged.

Example:

Expected STI (EST):

Meet JAVA SEA (P) at 25 0755
(Changed) pass OOCL ENVOY (P) at 25 0925
(New) meet CHAMPION (NP) at 25 1125

9.1.1.3 Traffic information updates

When a ship has transited the Reef VTS Area for a period of 4-6 hours (depending on a ship’s speed) and there has been no new or changed traffic information, Reef VTS gives the ship updated traffic information for the next six hours as described under 9.1.1.1 above.

This update will also indicate if there are no predicted ship encounters for the next six hours. A ship may contact Reef VTS at any time to ask for an STI update.
9.1.1.4 Receiving ship traffic information

Reef VTS provides STI in different ways:

**Electronic messages to ships**

1. **Inmarsat C**
   The ship must give Reef VTS the make, model and IMN of the ship’s Inmarsat C terminal

2. **Email address on board the ship**
   Provide an email address for the ship which can be readily accessed on the bridge.
   Please make sure messages from Reef VTS are read when they are received. If a problem exists in receiving electronic messages then contact Reef VTS to arrange for STI to be provided by VHF communications.

**VHF voice communications**

Ships must keep a listening watch on the Reef VTS VHF working channels. Reef VTS uses VHF channels 11 and 14 as shown in section 10.

9.1.2 Maritime Safety Information (MSI)

Reef VTS gives ships Maritime Safety Information (MSI) that is relevant to their location and intended movement. If a ship encounters any hazard that may affect the navigational safety of other ships, it should contact Reef VTS.

MSI is sent to ships with the Ship Traffic Information. MSI is also given in broadcasts from JRCC Australia in the form of navigational warnings (AusCoast Warnings).

9.2 Navigational assistance services

A navigational assistance service is defined by IMO Resolution A.857(20) as a service to assist on-board navigational decision-making and to monitor its effects.

If Reef VTS has information which may help decision-making on-board a ship, Reef VTS may contact that ship.

Reef VTS may contact a ship if it believes that the ship is heading into shallow water or deviating from a planned route.

A ship may receive Navigational Assistance Services in areas shown in Appendix B.

The master remains responsible for the safe navigation of the ship at all times and should not rely on the availability of Navigational Assistance from Reef VTS.
10. Communication with Reef VTS

Communication with Reef VTS is in English, using IMO’s Standard Marine Communication Phrases. The means of communication can be using VHF radio (voice); Inmarsat C or other means.

10.1 VHF Radio

VHF Radio – Reef VTS can be contacted 24 hours a day on either VHF Channel 11 or 14 (radio call sign – Reef VTS). The channel to be used will depend on the ship’s position as shown in the following table and Figure 2 on the next page.

<table>
<thead>
<tr>
<th>Latitude from:</th>
<th>Latitude to:</th>
<th>VHF channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>9° 00’ S</td>
<td>13° 30’ S</td>
<td>14</td>
</tr>
<tr>
<td>13° 30’ S</td>
<td>18° 00’ S</td>
<td>11</td>
</tr>
<tr>
<td>18° 00’ S</td>
<td>20° 00’ S</td>
<td>14</td>
</tr>
<tr>
<td>20° 00’ S</td>
<td>22° 00’ S</td>
<td>11</td>
</tr>
<tr>
<td>22° 00’ S</td>
<td>24° 30’ S</td>
<td>14</td>
</tr>
</tbody>
</table>

VHF coverage is limited in some areas. Please use other communication methods such as Inmarsat C messaging, and email in these areas between:

- Inset (J) and Heath (K) – Lads Passage and Fairway Channel
- Swain (Z1) and Archer (Z2) – offshore from Gladstone in the south-eastern area.

10.2 Inmarsat C

Reef VTS will pay the cost of messages sent by Inmarsat C if the ship uses the special access code (SAC) 861 via POR LES 212.

When setting up the Inmarsat C address book, select either: ASCII or 7-bit or IA5 for data presentation or character code.

Inmarsat C terminals must be logged into the Pacific Ocean Region (POR).

Ships can also send messages to Reef VTS by email, at reefvts@vtm.qld.gov.au. Ships will pay for the cost of these messages.

10.3 Other communications

If for any reason a ship cannot communicate via Inmarsat C or the VHF working channel, the ship must send the required information to Reef VTS in another way. The ship can use one of the following:

- Telephone: +61 1300 721 293
- Facsimile: +61 7 4721 0633
- Email: reefvts@vtm.qld.gov.au

If a ship’s radio equipment fails and the ship cannot send the required reports to Reef VTS, the failure must be recorded in the ship’s radio log book or the official log book.
Figure 2 – Reef VTS VHF Channel overview

Reef VTS VHF Channel overview

Use VHF channel 11 where available

Use VHF channel 14 where available

Ship reporting point
Shipping route
Reef VTS Area boundary
11. Other rules and regulations

11.1 Pilotage Areas in the Reef VTS Area

Under Australian law ‘regulated ships’ must carry a licensed coastal pilot in sections of the Torres Strait and the Great Barrier Reef. Coastal pilots are licensed by the Australian Maritime Safety Authority.

A ‘regulated ship’ includes ships with an overall length of 70 metres or more, and all loaded oil tankers, chemical tankers and liquefied gas carriers (irrespective of length).

A coastal pilot is required for a tug and tow if either the towing vessel or the vessel being towed has an overall length of 70 metres or more, regardless of the length of tow.

The areas where a coastal pilot is required are shown in Figure 3. Ship masters must ensure that a pilot is aboard the ship at all times in these areas (by embarking the pilot prior to entry and disembarking the pilot after exiting the pilotage area).

The Queensland Coastal Passage Plan (QCPP) has been developed as a guide for the conduct of coastal pilotage in these areas.

Further information on coastal pilotage and QCPP is available on the AMSA website www.amsa.gov.au (under Coastal Pilotage).

11.1.1 Great Barrier Reef – Inner Route, Hydrographers Passage and Whitsundays

All regulated ships must carry a licensed coastal pilot when they are transiting through:

- the Inner Route of the Great Barrier Reef between Cape York (latitude 10° 41’ S) and the vicinity of Cairns Roads (latitude 16° 40’ S); or
- Hydrographers Passage; or
- the Whitsundays.

Further information including the boundaries of these pilotage areas can be found in Marine Orders Part 54 (Coastal Pilotage) and the Great Barrier Reef Marine Park Regulations (1983).

11.1.2 Torres Strait – Great North Eastern Channel

All regulated ships with a draught of 8 metres or more must have a licensed coastal pilot on-board when transiting Torres Strait Compulsory Pilotage Area A (bounded by the longitudes 141° 50’ E and 142° 05’ E for ships moving eastward and between 142° 05’ E and 141° 51.70’ E for ships moving westward).

All regulated ships of any draught must have a licensed coastal pilot on-board when transiting Torres Strait Pilotage Area B (bounded by the longitudes 142° 05’ E and 143° 22’ E for ships moving eastward, and 142° 05’ E and 143° 24’ E for ships moving westward).

The outermost boundaries have been established to ensure that a pilot boarding a ship entering the Torres Strait has sufficient preparation time on-board prior to entering the respective pilotage area. Further information on coastal pilotage is available in Marine Order 54 (Coastal Pilotage).

11.2 Torres Strait – Under Keel Clearance Management

The Australian Maritime Safety Authority has introduced an Under Keel Clearance Management (UKCM) System. The goal of this system is to improve the safety and efficiency of shipping through Torres Strait.
This is a web-based System for enhancing the safety of vessels whose keel is close to the seabed in the shallow Torres Strait region.

AMSA recommends use of UKCM system for all vessels with a draught of 8 metres to a maximum draught of 12.2 metres. However circumstances may warrant use of the UKCM system for vessels of lesser draught.

The responsibility for safe navigation continues to reside with mariners (masters and pilots) through the appropriate use of the UKCM System.

More information on the UKCM System is available at the AMSA website [www.amsa.gov.au](http://www.amsa.gov.au)

**Figure 3 – Coastal pilotage and Designated Shipping Area (DSA)**

![Coastal Pilotage Areas and Designated Shipping Area (DSA)](image-url)
11.3 Designated Shipping Areas in the Great Barrier Reef Marine Park

The Great Barrier Reef Marine Park Authority (GBRMPA) has put in place a Designated Shipping Area and General Use Zones within the Great Barrier Reef Marine Park as part of the Great Barrier Reef Marine Park Zoning Plan.

Ship operators need a permit from GBRMPA to navigate outside the Designated Shipping Area and General Use Zones.

A penalty of up to 2,000 penalty units (presently A$340,000) for an individual and 20,000 penalty units (presently A$3,400,000) for a body corporate applies if a ship is navigated outside the Designated Shipping Area and the General Use Zones without written permission from the Great Barrier Reef Marine Park Authority.

Further information is available from GBRMPA by phoning +61 7 4750 0700, emailing info@gbrmpa.gov.au or at the GBRMPA website www.gbrmpa.gov.au.

11.4 Reporting to MASTREP

The Modernised Australian Ship Tracking and Reporting System (MASTREP) is another ship reporting system which is operated by AMSA as part of the services offered by the Joint Rescue Coordination Centre (JRCC Australia) in Canberra.

MASTREP is designed to minimise the reporting requirements on vessels by using AIS technology to provide positional advice to AMSA. There is no requirement in MASTREP to send Sailing Plans, Deviation Reports and Final Reports.

Marine Order 63 (Vessel reporting systems) 2015 defines the MASTREP Area and lists the ships which must report to MASTREP. The system is mandatory for:

- foreign vessels from the arrival at its first port in Australia until its departure from its final port in Australia; and
- all regulated Australian vessels whilst in the MASTREP area.

Please note that no positive SAR watch is maintained in MASTREP. It is a passive ship reporting system and does not involve shore to vessel communications for normal operation. The requirement to report all marine incidents including defects and deficiencies using form ‘AMSA 18’ and form ‘AMSA 19’ remains. Additionally, information reports may be sent to JRCC Australia to provide advice relating to items not covered under AMSA 18 or 19 reporting requirements, for example floating navigational hazards.

Further information is provided in the MASTREP and Australian Mandatory Reporting Guide. This guide is available from AMSA offices or the AMSA website www.amsa.gov.au.

11.5 Pollution reporting

The MARPOL 73/78 definition of “nearest land” prohibits operational discharges in the Great Barrier Reef and Torres Strait regions.

The following should be reported to Reef VTS:

- any quantity of oil (including diesel fuel, petrol and oil products);
- any discharge from a ship of chemicals or chemical residues; or
- garbage (food waste, glass, plastic etc).

Information on reporting ship sourced pollution is available on:

## Appendix A – Standard route plans

### A.1 Inner route

There are three standard route plans for transiting the Reef VTS Area by the inner route between Booby and Sandy Cape. The route plan applies in either direction of the transit and also applies to any portion of the inner route.

The standard route plan should be communicated to Reef VTS by stating:

- inner route;
- predefined route by communicating the ship's draught of deep, moderate or shallow; and
- the name of any alternative legs intended to be taken that vary from the standard route (for example, shaded boxes) for that draught category.

For example, a ship plans to transit the inner route, moderate draught route via Varzin Passage (rather than using the standard route via Gannet Passage). This should be communicated to Reef VTS as “INNER ROUTE, MODERATE VIA VARZIN”.

<table>
<thead>
<tr>
<th>Deep draught</th>
<th>Moderate draught</th>
<th>Shallow draught</th>
</tr>
</thead>
<tbody>
<tr>
<td>Booby</td>
<td>Booby</td>
<td>Booby</td>
</tr>
<tr>
<td>via Varzin Passage</td>
<td>via Gannet Passage</td>
<td>via Gannet Passage</td>
</tr>
<tr>
<td>Alpha North</td>
<td>via Alpha South</td>
<td>Alpha North</td>
</tr>
<tr>
<td>via East of Cairncross</td>
<td>via West of Cairncross</td>
<td>via East of Cairncross</td>
</tr>
<tr>
<td>Hannibal</td>
<td>Hannibal</td>
<td>Hannibal</td>
</tr>
<tr>
<td>Inset</td>
<td>Inset</td>
<td>Inset</td>
</tr>
<tr>
<td>via Fairway Channel</td>
<td>via Heath</td>
<td>via Fairway Channel</td>
</tr>
<tr>
<td>Pipon</td>
<td>Pipon</td>
<td>Pipon</td>
</tr>
<tr>
<td>via Howicks</td>
<td>via Miles</td>
<td>Via Howicks</td>
</tr>
<tr>
<td>via Lizard Island/ Palfrey</td>
<td>Via Mid-Decapolis</td>
<td>via Petherbridge</td>
</tr>
<tr>
<td>Two Isles</td>
<td>Two Isles</td>
<td>Two Isles</td>
</tr>
<tr>
<td>Gubbins West</td>
<td>via Gubbins East</td>
<td>Gubbins West</td>
</tr>
<tr>
<td>Barnard</td>
<td>Barnard</td>
<td>Barnard</td>
</tr>
<tr>
<td>Bowling North</td>
<td>via Bowling South</td>
<td>Bowling North</td>
</tr>
<tr>
<td>Via North Holbourne</td>
<td>via South Holbourne</td>
<td>Via North Holbourne</td>
</tr>
<tr>
<td>Edward</td>
<td>via Molle/Shaw</td>
<td>Edward</td>
</tr>
<tr>
<td>High Peak</td>
<td>High Peak</td>
<td>High Peak</td>
</tr>
<tr>
<td>Sandy Cape</td>
<td>Sandy Cape</td>
<td>Sandy Cape</td>
</tr>
</tbody>
</table>
A.2 Great North East Channel

Ships transiting the Great North East Channel enter or exit the Reef VTS Area in three main locations. These are Booby, Bramble or Daru.

The standard route plan should be communicated to Reef VTS by stating:

- GNE Channel;
- the first set of alternative legs intended to be taken; and
- the second set of alternative legs intended to be taken.

For example, a ship enters at Booby and exits at Bramble, the first leg is via Varzin Passage and the second leg is via West of Coconut Island. This should be communicated to Reef VTS as “GNE, VIA VARZIN AND WEST OF COCONUT ISLAND”.

<table>
<thead>
<tr>
<th>Standard route</th>
<th>Alternative</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOOBY</td>
<td>via Gannet Passage</td>
</tr>
<tr>
<td></td>
<td>via Varzin Passage</td>
</tr>
<tr>
<td>TWIN</td>
<td>via West of Coconut Island</td>
</tr>
<tr>
<td></td>
<td>via East of Coconut Island</td>
</tr>
<tr>
<td>BRAMBLE</td>
<td>DARU</td>
</tr>
</tbody>
</table>

The Queensland Coastal Passage Plan provides more details on routes, waypoints and navigation aids in the pilotage areas (outlined in Section 11.1). The Queensland Coastal Passage Plan can be accessed from the AMSA website www.amsa.gov.au (under Coastal Pilotage) and is also available in hard copy.

Appendix B – Reef VTS chartlets

The following chartlets show:

- details of the standard routes and alternatives;
- the VHF working channels;
- routes where ships may receive both information and navigational assistance services; and
- routes where ships may receive information services.
Chartlet 1. Use VHF Channel 14 where available
Chartlet 2. Use VHF Channel 11 where available between latitudes 13°30'S and 18°S
Chartlet 3. Use VHF Channel 14 where available between latitudes 18°S and 20°S
Chartlet 4. Use VHF Channel 11 where available between latitudes 20°S and 22°S
Chartlet 5. Use VHF Channel 14 where available between latitudes 22°S and 24°30’S