	<p align="center">HEALTH, SAFETY, ENVIRONMENT AND QUALITY MANAGEMENT SYSTEM</p> <p align="center">47.0 NAVIGATION – COLREGS</p> <p align="center">ON THE JOB TRAINING</p>	<p>OJT : 047 Page : 1 of 3 Date : 04-Nov-25 Rev : 10.1 Appr : DPA</p>
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VESSEL: _____

DATE: _____

Details of Training: Navigation – COLREGS – Risk of Collision

Rule 10: TRAFFIC SEPARATION SCHEMES

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| <p>(a) This Rule applies to traffic separation schemes adopted by the Organization and does not relieve any vessel of her obligation under any other Rule.</p> <p>(b) A vessel using a traffic separation scheme shall:</p> <ul style="list-style-type: none"> (i) proceed in the appropriate traffic lane in the general direction of traffic flow for that lane; (ii) so far as practicable keep clear of a traffic separation line or separation zone; (iii) normally join or leave a traffic lane at the termination of the lane, but when joining or leaving from either side shall do so at as small an angle to the general direction of traffic flow as practicable. <p>(c) A vessel shall, so far as practicable, avoid crossing traffic lanes but if obliged to do so shall cross on a heading as nearly as practicable at right angles to the general direction of traffic flow.</p> <p>(d) (i) A vessel shall not use an inshore traffic zone when she can safely use the appropriate traffic lane within the adjacent traffic separation scheme. However, vessels of less than 20 metres in length, sailing vessels and vessels engaged in fishing may use the inshore traffic zone.</p> <p>(ii) Notwithstanding sub-paragraph (d) (i), a vessel may use an inshore traffic zone when en route to or from a port, offshore installation or structure, pilot station or any other place situated within the inshore traffic zone, or to avoid immediate danger.</p> <p>(e) A vessel other than a crossing vessel or a vessel joining or leaving a lane shall</p> | <p>not normally enter a separation zone or cross a separation line except:</p> <ul style="list-style-type: none"> (i) in cases of emergency to avoid immediate danger; (ii) to engage in fishing within a separation zone. <p>(f) A vessel navigating in areas near the terminations of traffic separation schemes shall do so with particular caution.</p> <p>(g) A vessel shall so far as practicable avoid anchoring in a traffic separation scheme or in areas near its terminations.</p> <p>(h) A vessel not using a traffic separation scheme shall avoid it by as wide a margin as is practicable.</p> <p>(i) A vessel engaged in fishing shall not impede the passage of any vessel following a traffic lane.</p> <p>(j) A vessel of less than 20 metres in length or a sailing vessel shall not impede the safe passage of a power-driven vessel following a traffic lane.</p> <p>(k) A vessel restricted in her ability to manoeuvre when engaged in an operation for the maintenance of safety of navigation in a traffic separation scheme is exempted from complying with this Rule to the extent necessary to carry out the operation.</p> <p>(l) A vessel restricted in her ability to manoeuvre when engaged in an operation for the laying, servicing or picking up of a submarine cable, within a traffic separation scheme, is exempted from complying with this Rule to the extent necessary to carry out the operation.</p> |
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Rule 10 is one of the longest rules and one of the hardest to understand.

Always remember the following.

- There is no right of way – a traffic separation lane does not give you right of way over any other vessels
- All of the other COLREG rules continue to apply within a traffic separation scheme.
- The actions of vessels navigating in and near a traffic separation scheme can be unpredictable.

Traffic separation schemes are established in busy areas of difficult navigation. You can expect above- average density of traffic, crossing vessels, fishing vessels and high-speed craft. Study the passage plan before your watch, be prepared and, if you need assistance, ask for it well in advance.

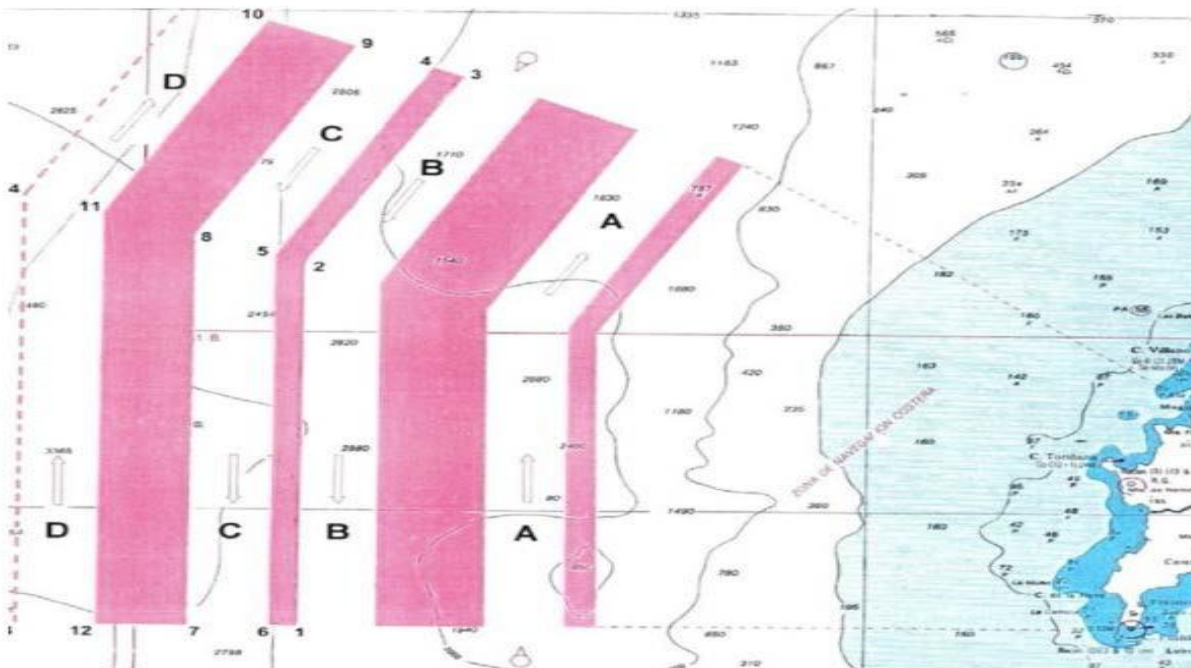
There are a couple of instances where the port authorities fined the vessels for using a wrong TSS

At few places, you will find two Traffic separation schemes at the same place. That is two TSS in an upward direction and two in the downward direction.

Tips for navigating in traffic separation schemes are:

- Comply with mandatory reporting requirements. It is unfortunate that there have been many cases where this mandatory reporting is either missed out or VHF volume is too low to hear the calls made by the VTS monitoring the TSS.
- Always follow all the other COLREG rules.
- Increase bridge manning level at focal points in TSS (e.g. crossing area/caution area).
- Keep in your lane.

- Try to avoid overtaking – especially towards the end of the scheme.
- Avoid VHF calls to other ships – it will only distract them.
- Beware of fishing vessels – they are allowed to fish in traffic separation lanes.
- Look out for crossing vessels – they should cross the scheme at right angles but they may navigate parallel to the scheme for a while to find an opportunity to cross.
- Look out for high-speed craft – especially wide on your beam.
- If you are not happy, slow down or stop.
- Be wary at all times.
- You have no additional rights of way in a traffic separation scheme.



Which TSS do we need to follow?

We just need to check the information on the chart and/or sailing directions for that area. This will have the information about each of these TSS.

The information could be something like this.

Ships with conventional cargo
(or packaged dangerous cargo)

A – Northbound traffic lane
B – Southbound traffic lane

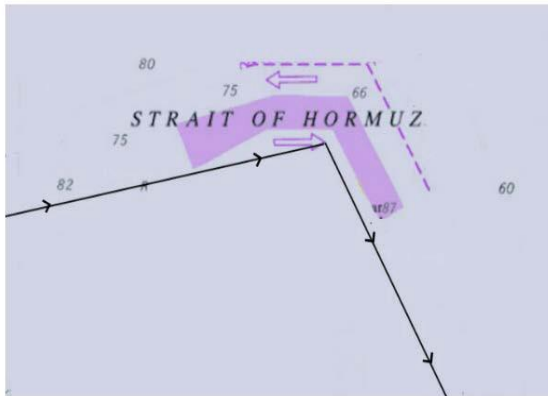
Ships with dangerous goods in bulk

C – Southbound traffic lane
D – Northbound traffic lane

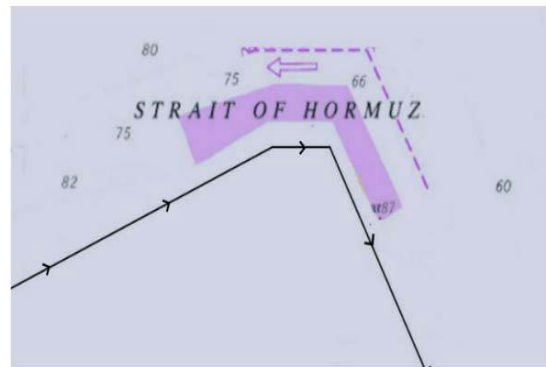
Then why do officers make this mistake?

The reasons like following the previously used passage plan. When the last time this TSS was used, the vessel may be loaded with dangerous cargo in bulk.

Example -: Not following general traffic flow

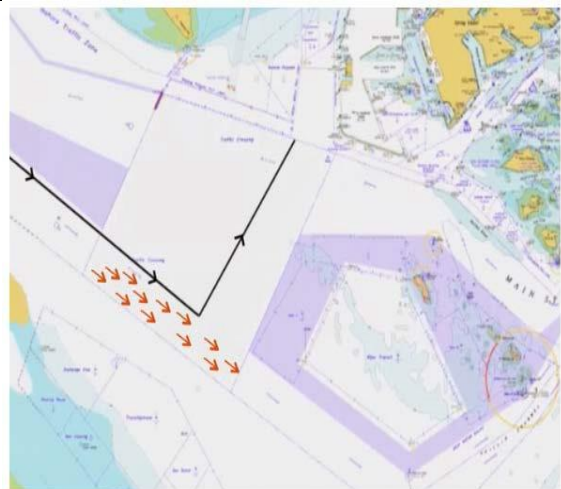
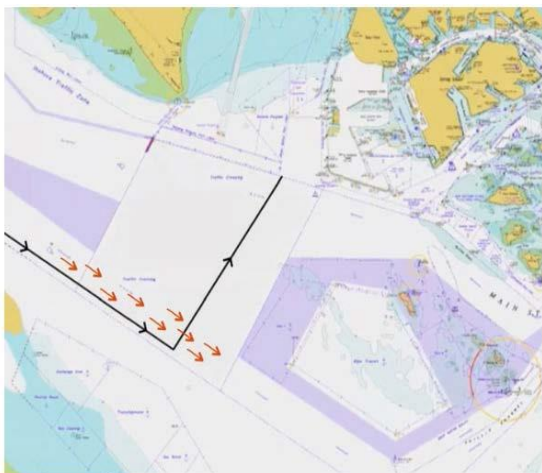


Example -: Following general traffic flow - It may take us a couple of more lines to draw, but ideally, we must draw courses parallel to the TSS



Example - Hard to alter course to cross the TSS because of usual traffic in the TSS

Proper and proactive passage planning helps to avoid a lot of cross traffic



REMEMBER!

- The COLREGS are not just advice to the mariner – they are the LAW.
- If you disobey the law you will suffer the consequences including imprisonment.
- Ignorance of the law is never a defense.