

2020 Intermediate Navigation Course

Session 3 Exercise

Scenario

It is now Sunday, you got to Mooloolaba and entered the river without incident. It was a lovely trip and the group enjoyed themselves. As skipper you found the trip much more relaxing than previous trips, having such a comprehensive Navigation plan.

Your ultimate destination is Urangan Harbour in Hervey Bay (25 17.6s 152 54.7e), via Garry's anchorage inside Fraser Island (25 37.7s 152 58.4e).

Consider the weather forecast and also consider currents and tidal flows. You need to plan the river exit from Mooloolaba carefully and more importantly you need to plan the entrance into Wide Bay bar and account for tidal flows and depth in the Great Sandy Strait.

You plan to leave Mooloolaba Monday afternoon, or Tuesday morning depending on tides.

Questions to answer

1. Set up in your chosen navigation software the waypoints and route. Ensure it is a safe journey. Provide a screen shot/image of this route and a summary of bearings and distances.
 - a. Identify dangers and risks
2. What time will you leave Mooloolaba ? Why ?
3. Which leads will you use when entering Wide Bay bar ? What is the Course to steer as you make your final approach towards Inskip Point ?
4. Which direction does the buoyage run in the Great Sandy Strait ?
5. What is your ETA at Garry's and what is the estimated depth at the anchorage ?
6. What is the estimated lowest depth at the anchorage overnight ?
7. What time will you leave Garry's ? Why ?
8. What is the estimated tidal flow inside the Great Sandy Strait when you reach 25°20's ?
9. What is the estimated tidal flow inside the Great Sandy Strait when you reach 25°42's ?
10. What is your ETA at Urangan Harbour ?
11. How much fuel will you likely use for this leg of the trip ?

Resources

- For details of navigating Fraser Island see <https://www.msq.qld.gov.au/Boating-maps>
- For tides see <http://www.bom.gov.au/australia/tides>
- Wide Bay Bar Notice to Mariners <https://noticestomariners.com/2018/10/03/safely-cross-wide-bay-bar/>