

TIDAL TIMES & HEIGHTS

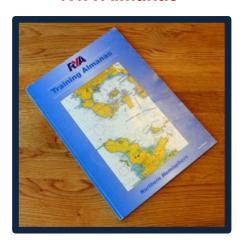
Working out tidal times and heights
For Standard Ports

Standard Ports

Now that you understand tidal terms and what they mean, lets put them to practice and work out a tide for a STANDARD PORT

You Will Need

RYA Almanac



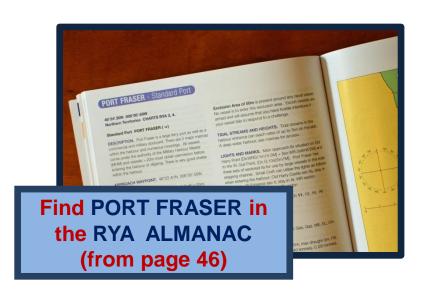
Pad of paper, pencil and rubber

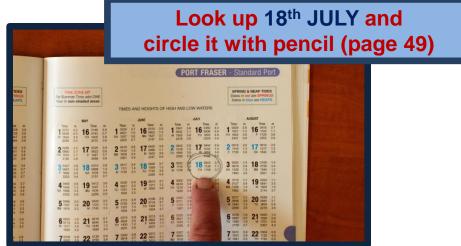


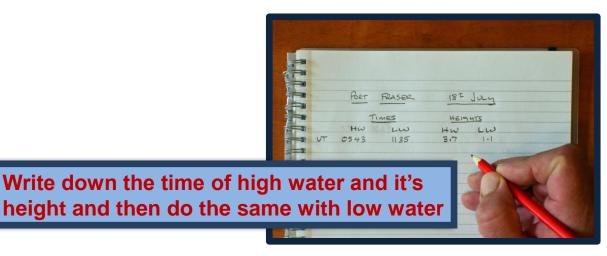
Question

- What is the time of HIGH and LOW water at PORT FRASER on the morning of 18th July?
- What is the TIDAL RANGE and HEIGHTS that morning?
- Is it SPRINGS or NEAPS?

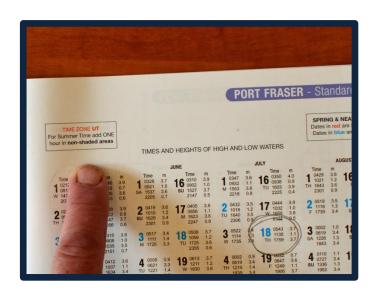
Part 1 - Time of Tide



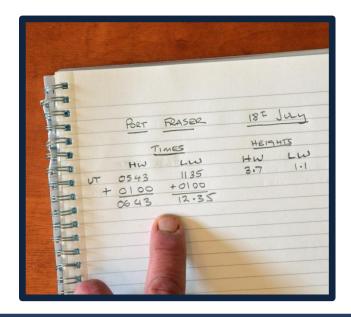




Part 1 - Time of Tide



Check to see if you need to make an adjustment for SUMMER TIME

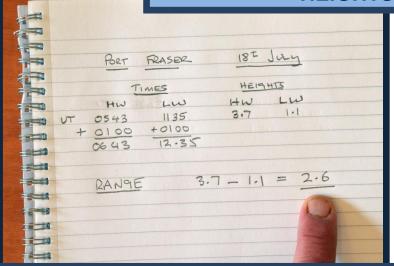


Add ONE HOUR to the times written down

You now know the TIME and HEIGHT of the tide

Part 2 – Range of Tide

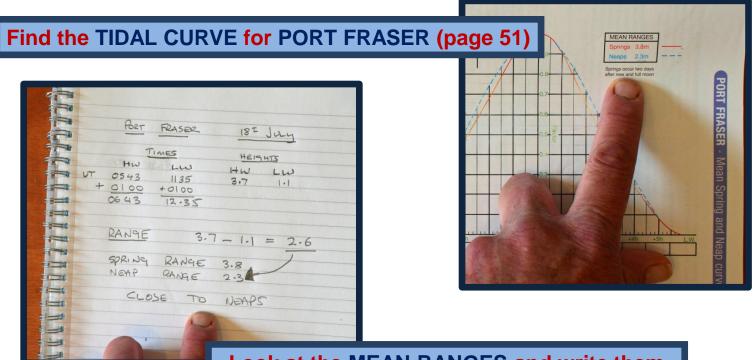
The RANGE OF TIDE is the difference between the HEIGHTS of high and low water



Take 1.1m (low water figure) from 3.7m (high water figure) = Range of tide 2.6

You now know the RANGE of the tide

Part 3 – Springs or Neaps

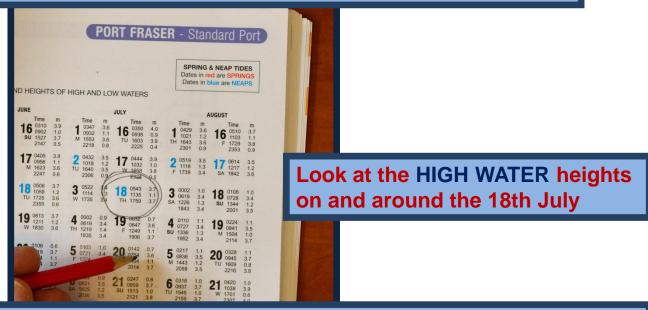


Look at the MEAN RANGES and write them down and compare them to the 18th July

You now know the range of tide is close to NEAPS

Additional Information

You now know the TIME, HEIGHT and RANGE and whether it's SPRINGS or NEAPS but it would be a good idea to also know if the tide is getting closer to neaps or moving towards springs



On the 19th and 20th the height trend is lowering and therefore the tide is moving towards NEAPS

If it was increasing in height you would know that it was moving towards SPRINGS

Answer

1.	Port Fraser Times		18 th July		
				Heights	
		HW	LW	HW	LW
	(UT)	05.43	11.35	3.7	1.1
	+	01.00	01.00		
	DST	06.43	12.35		

- 2. Range on 18^{th} July: 3.7m 1.1m = 2.6m
- 3. Spring range for Port Fraser is 3.8m

 Neap range for Port Fraser is 2.3m

 Therefore actual range is close to neaps

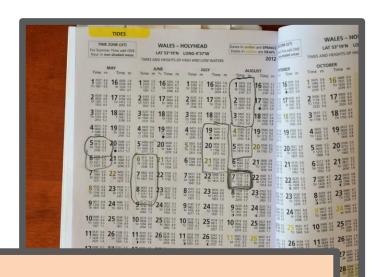
 Almanac shows trending towards neaps not springs

Top Tips

TOP TIP

In the real world I write down my tidal information in my **LOGBOOK** on the page that I intend to use during the passage. That way I always have the information to hand when I need to refer to it.





TOP TIP

As almanacs are one hit wonders, ie, you buy a new one each year, I always circle the range of dates I am using. This is so I don't get confused and copy the wrong data and it makes checking much easier and quicker.

Top Tips



I don't use a full almanac and prefer the **PBO Cruising Almanac**.....it's more compact, better value for money and has all the information I need.



TOP TIP

Almanacs have load of pages of similar looking information, to make it easy to find tide times of ports I use often, I make tabs out of stickers. This way I can find the information I need, quickly, when I need to refer to it.

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Thank you for your honesty.

Further Reading



We highly recommend Tim Bartlett's RYA Navigation Handbook (G6)