

TIDAL TIMES & HEIGHTS

Working out tidal times and heights for Secondary Ports using tidal curves



Secondary Ports

A practical example of using a tidal curve to work out the times and heights of HW and LW at a secondary port





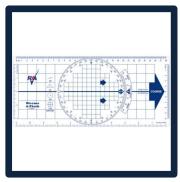
www.penguinsailing.com

You Will Need

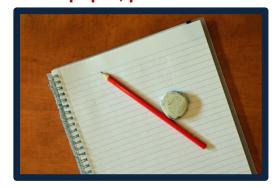
RYA Almanac



RYA Chartplotter



Pad of paper, pencil and rubber



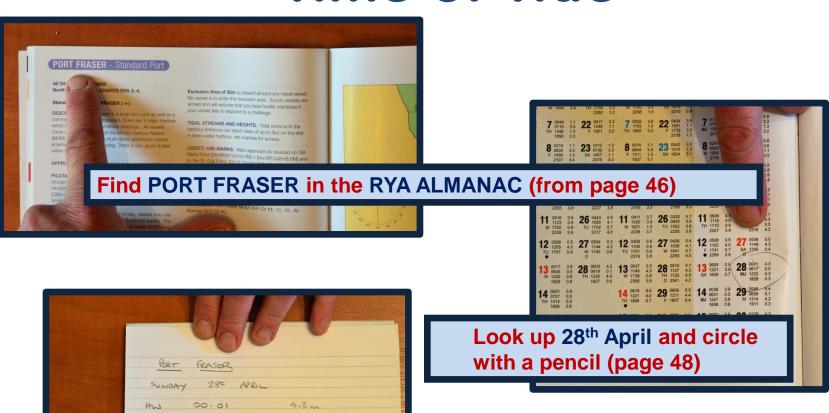


Question

- What is the time and height of HW at PORT FRASER in the early morning of 28th April and the height of the preceding LW?
- Work out the time and height of HW and the height of the preceding LW at ROZELLE COVE.
- What is the tidal height at ROZELLE COVE at 21.53 on the evening of 27th April?



Time of Tide



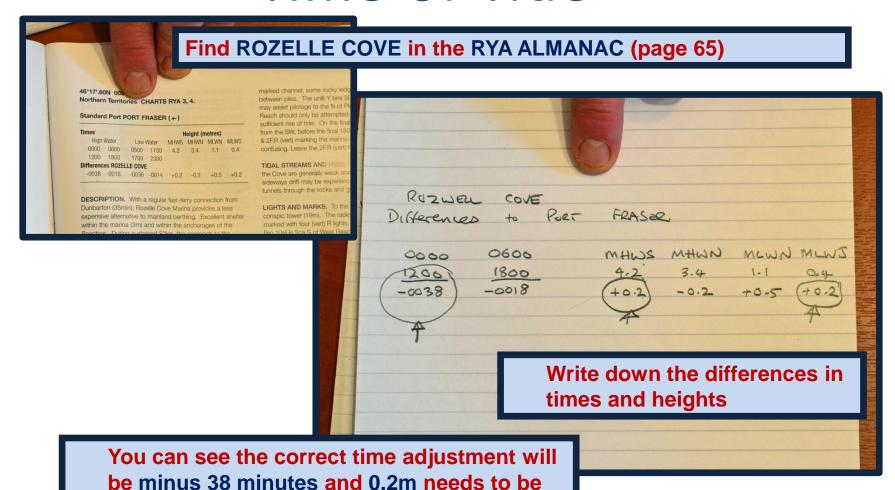
RANGE 3-9 M

SATURDAY 27 APRIL SPRINGS

Write down the times of the tides required, their heights and whether they are springs or neaps



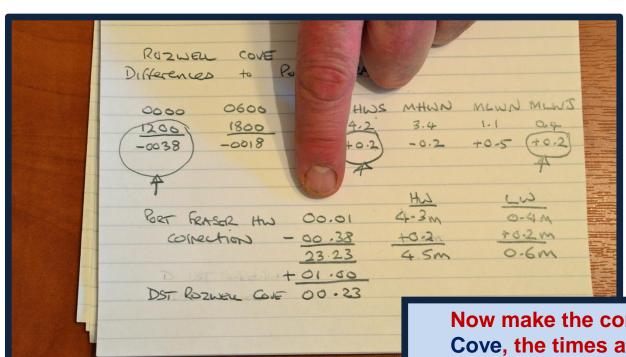
Time of Tide





added the heights of both HW and LW

Time of Tide



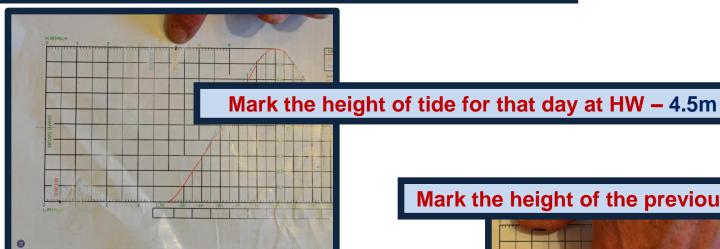
Now make the corrections for Rozelle Cove, the times and heights of HW and LW

Check to see if you need to make an adjustment for DST

In this example you do.....

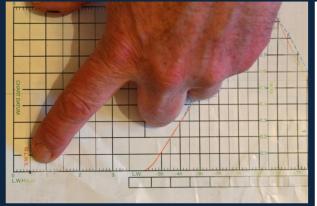


Now you can start to use the tidal curve. Firstly, find the tidal curve for PORT FRASER (page51)





Mark the height of the previous LW - 0.6m

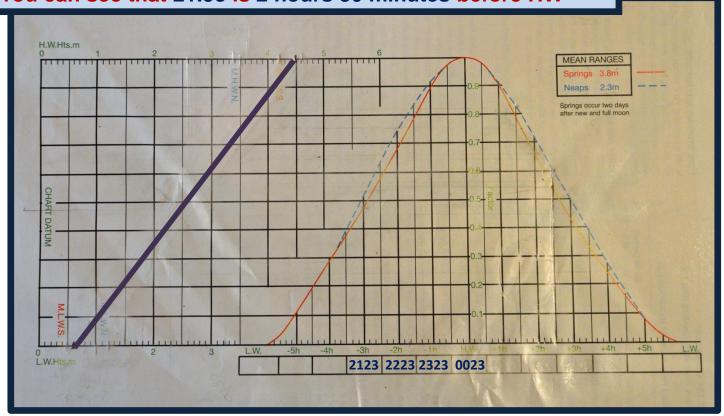


....and draw a line between the two



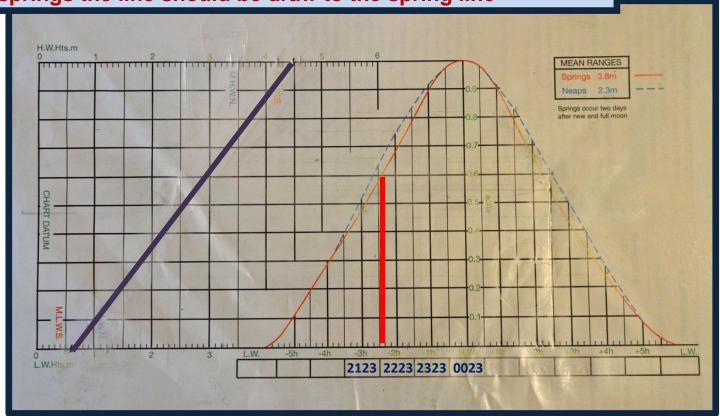
First add the time of HW and work it back to 21.53

You can see that 21.53 is 2 hours 30 minutes before HW



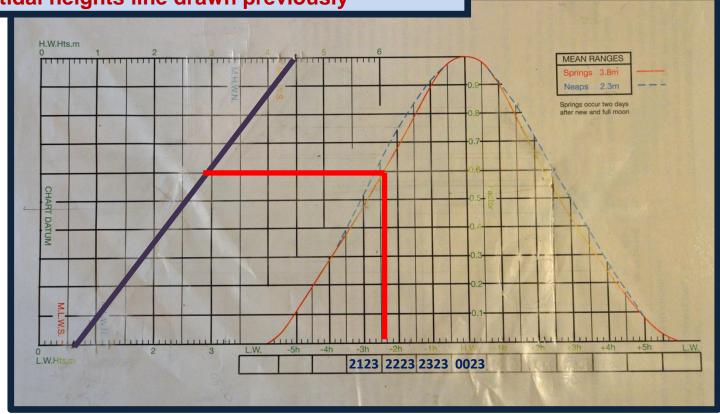


Now draw a line from the time to the tidal curve, as it is springs the line should be draw to the spring line



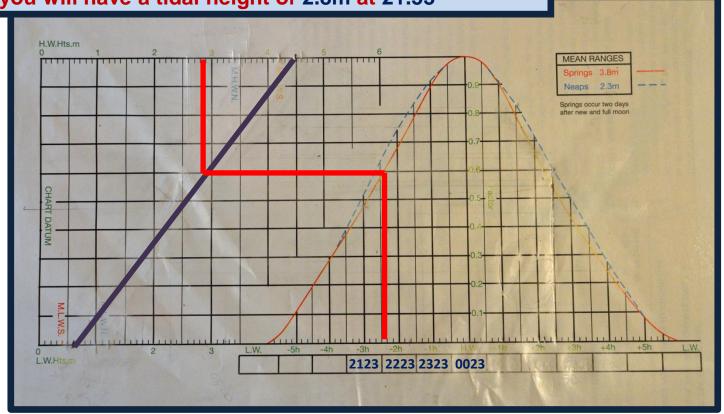


Then draw a line from the tidal curve to the tidal heights line drawn previously





You can now draw the final line and you can see that you will have a tidal height of 2.8m at 21.53

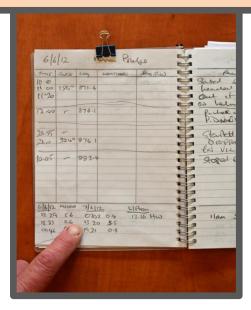


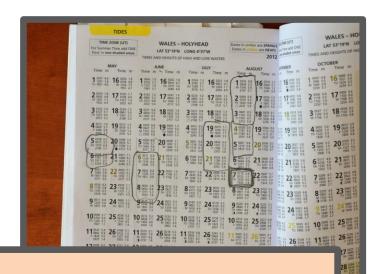


Top Tips

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 often use, I make tabs out of stickers. This way I can find the information I need quickly when I need to refer to it.

This website helps support us and our families.

If you found this document useful please consider donating £3.50 to the running of this website.

CLICK HERE TO DONATE £3.50

Thank you for your honesty.

Further Reading



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

You can buy a copy of this book by visiting our on-line shop

www.penguinsailing.com