Day Skipper

Week 8

AXE YACHT CLUB

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One Day Courses

- Short Range Certificate for Marine VHF
  - Course 1 – Saturday 28 February
  - Course 2 – Sunday 1 March
- RYA Diesel Engine
  - Saturday 14 March
- RYA First Aid
  - Saturday 28 March







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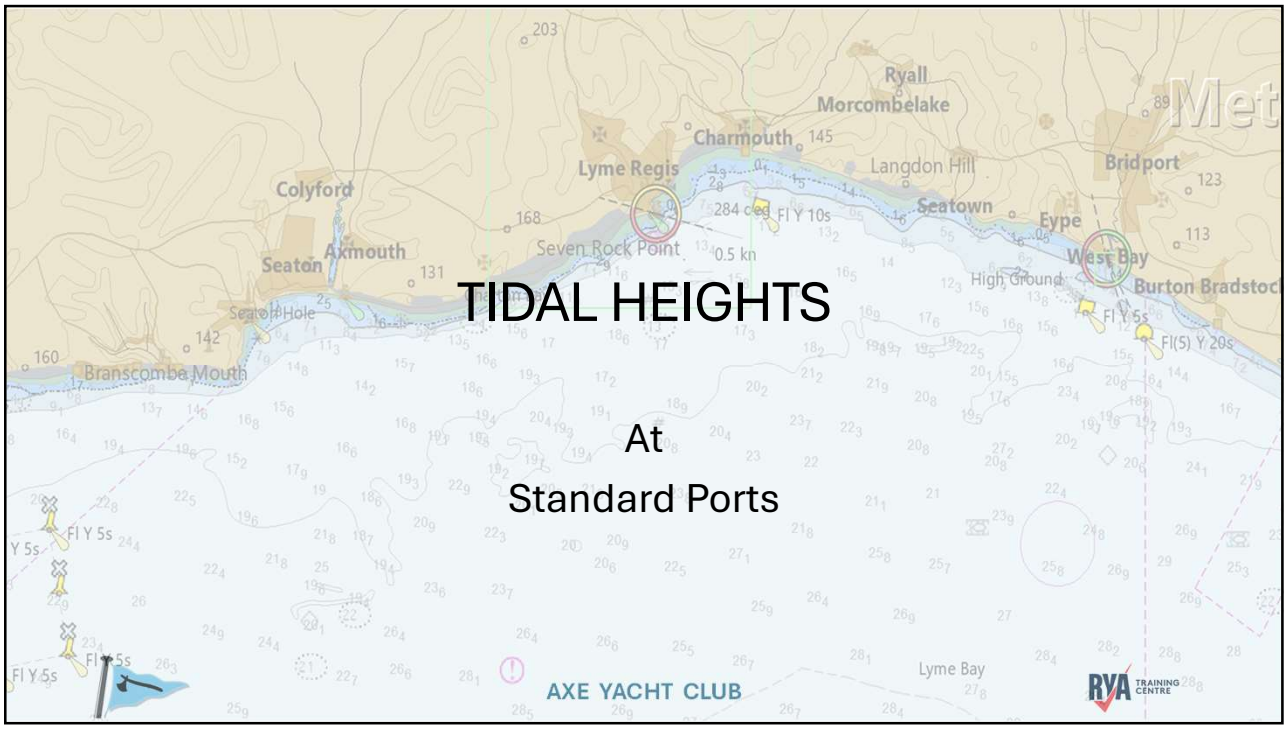
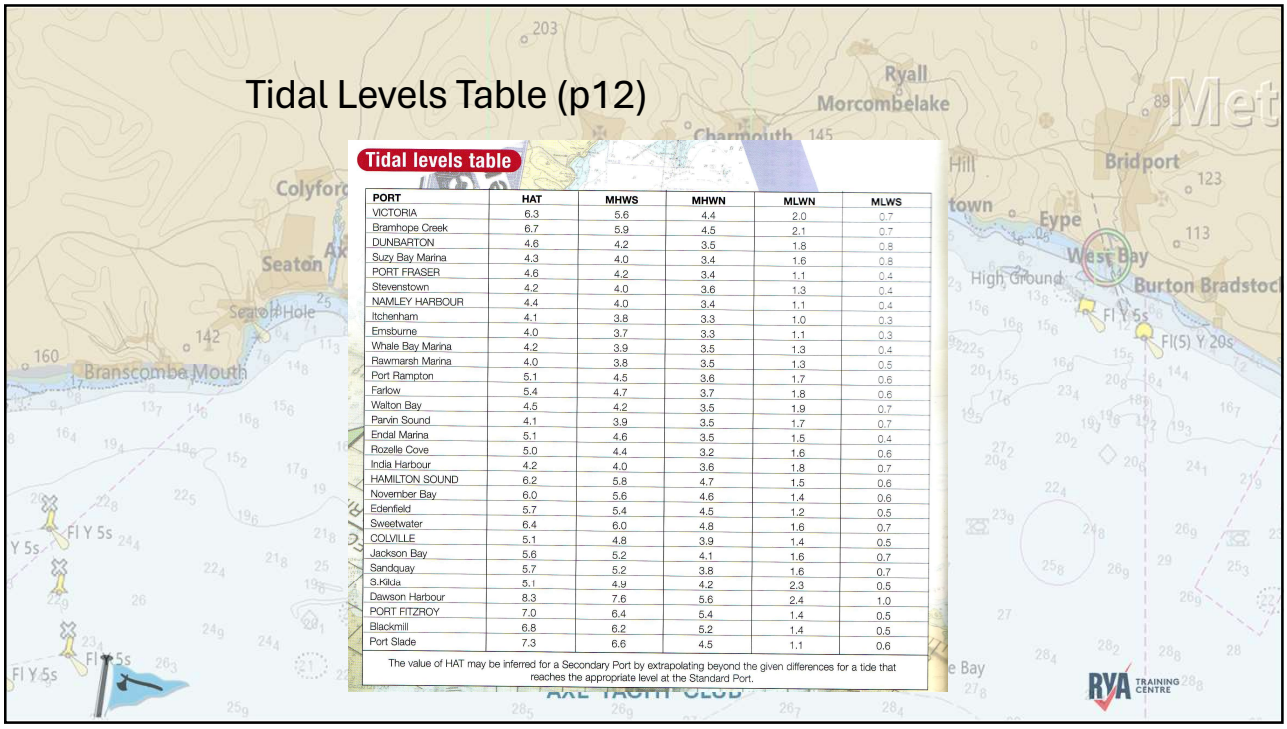

TIDAL HEIGHTS
At
Standard Ports
AXE YACHT CLUB
Lyme Bay
Ryall
Morcombelake
Charmouth
Lyme Regis
Langdon Hill
Seatown
Bridport
Colyford
Seaton
Axmouth
Seven Rock Point
Eype
West Bay
High Ground
Burton Bradstock
Branscombe Mouth
Seaton Hole
RYA TRAINING CENTRE

3


Tidal Levels Table (p12)
Tidal levels table
PORT | HAT | MHWS | MHWN | MLWN | MLWS
VICTORIA 6.3 5.6 4.4 2.0 0.7
Bramhope Creek 6.7 5.9 4.5 2.1 0.7
DUNBARTON 4.6 4.2 3.5 1.8 0.8
Suzy Bay Marina 4.3 4.0 3.4 1.6 0.8
PORT FRASER 4.6 4.2 3.4 1.1 0.4
Stevenstown 4.2 4.0 3.6 1.3 0.4
NAMLEY HARBOUR 4.4 4.0 3.4 1.1 0.4
Itchenham 4.1 3.8 3.3 1.0 0.3
Emsburne 4.0 3.7 3.3 1.1 0.3
Whale Bay Marina 4.2 3.9 3.5 1.3 0.4
Rawmarsh Marina 4.0 3.8 3.5 1.3 0.5
Port Rampton 5.1 4.5 3.6 1.7 0.6
Farlow 5.4 4.7 3.7 1.8 0.6
Walton Bay 4.5 4.2 3.5 1.9 0.7
Parvin Sound 4.1 3.9 3.5 1.7 0.7
Endal Marina 5.1 4.6 3.5 1.5 0.4
Rozelle Cove 5.0 4.4 3.2 1.6 0.6
India Harbour 4.2 4.0 3.6 1.8 0.7
HAMILTON SOUND 6.2 5.8 4.7 1.5 0.6
November Bay 6.0 5.6 4.6 1.4 0.6
Edenfield 5.7 5.4 4.5 1.2 0.5
Sweetwater 6.4 6.0 4.8 1.6 0.7
COLVILLE 5.1 4.8 3.9 1.4 0.5
Jackson Bay 5.6 5.2 4.1 1.6 0.7
Sandquay 5.7 5.2 3.8 1.6 0.7
S.Kilda 5.1 4.9 4.2 2.3 0.5
Dawson Harbour 8.3 7.6 5.6 2.4 1.0
PORT FITZROY 7.0 6.4 5.4 1.4 0.5
Blackmill 6.8 6.2 5.2 1.4 0.5
Port Slade 7.3 6.6 4.5 1.1 0.6
The value of HAT may be inferred for a Secondary Port by extrapolating beyond the given differences for a tide that reaches the appropriate level at the Standard Port.

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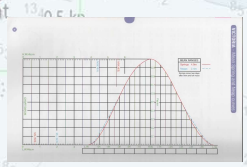
Standard and Secondary Ports

- Standard Port – Tide tables and curve in the Almanac
- E.g. Port Fraser, Namley etc.



- Secondary Port – Differences table in the Almanac
- E.g. Stevens Town, Suzy Bay Marina etc.



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TIDAL HEIGHT CALCULATIONS

- Finding the height of tide at a certain time - normally used when anchoring or to find out when the boat will refloat having run aground!
- Finding the time at which the tide will reach a certain height - used to find when one can cross the cill of a marina or cross a sand bank etc.

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FINDING THE HEIGHT OF TIDE AT A CERTAIN TIME

On 17th May at 1800 (DST), a yacht is approaching the anchorage in the Nutworth Channel in Namley Harbour. The skipper wants to anchor there for the night. The yacht has a draught of 1.5m and the skipper wants to keep at least 1m of water under the keel at low water.

What depth should he anchor in at 1800?

AXE YACHT CLUB

RYA TRAINING CENTRE

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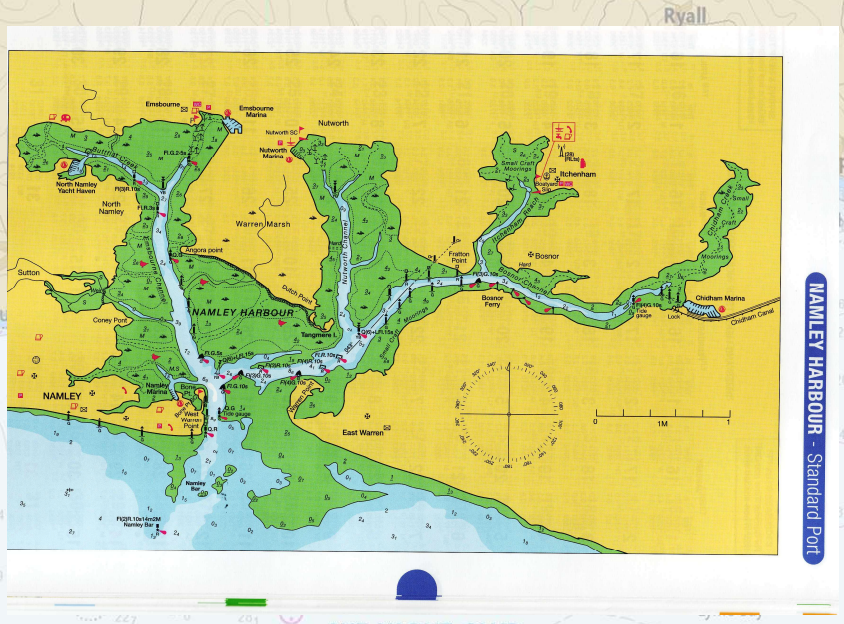

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RYA TRAINING CENTRE

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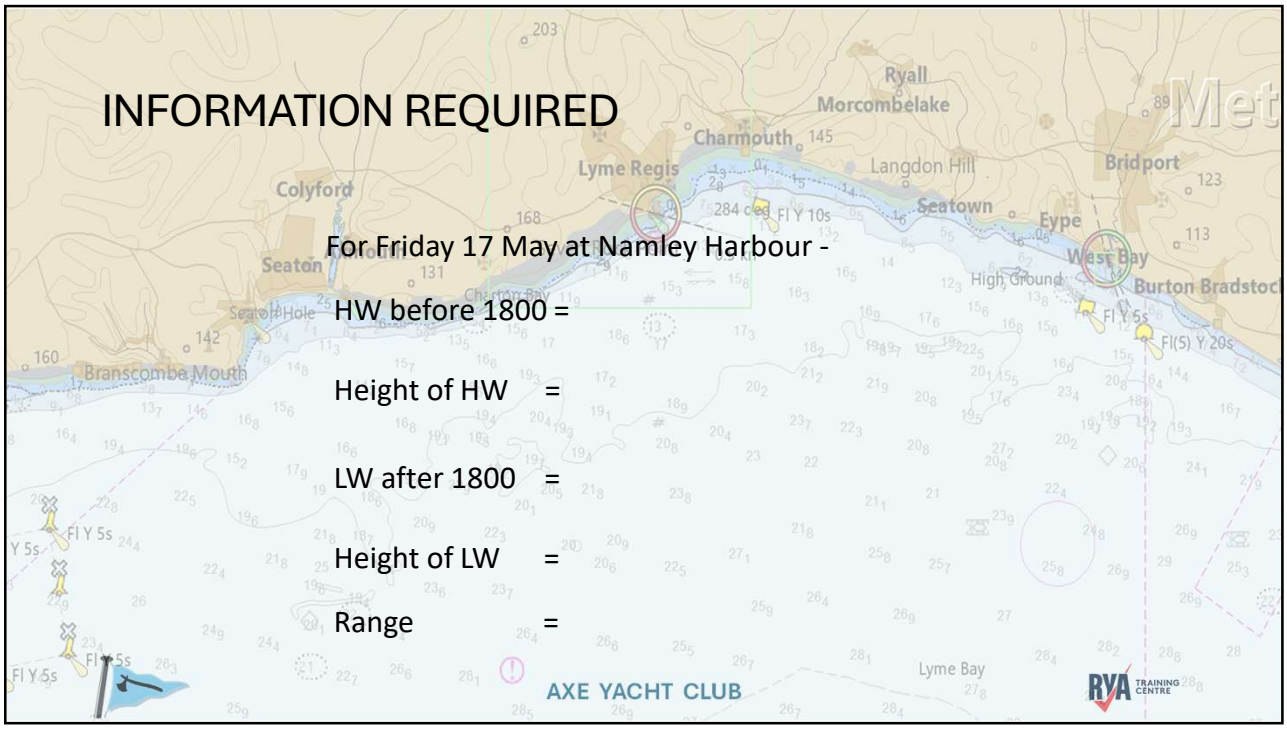
INFORMATION REQUIRED
For Friday 17 May at Namley Harbour -
HW before 1800 =
Height of HW =
LW after 1800 =
Height of LW =
Range =
AXE YACHT CLUB
Lyme Bay
Ryall
Morcombelake
Charmouth
Lyme Regis
Langdon Hill
Bridport
Colyford
Seaton
Seatown
Eype
West Bay
High Ground
Burton Bradstock
Branscombe Mouth
Fl Y 10s
Fl Y 5s
Fl(5) Y 20s

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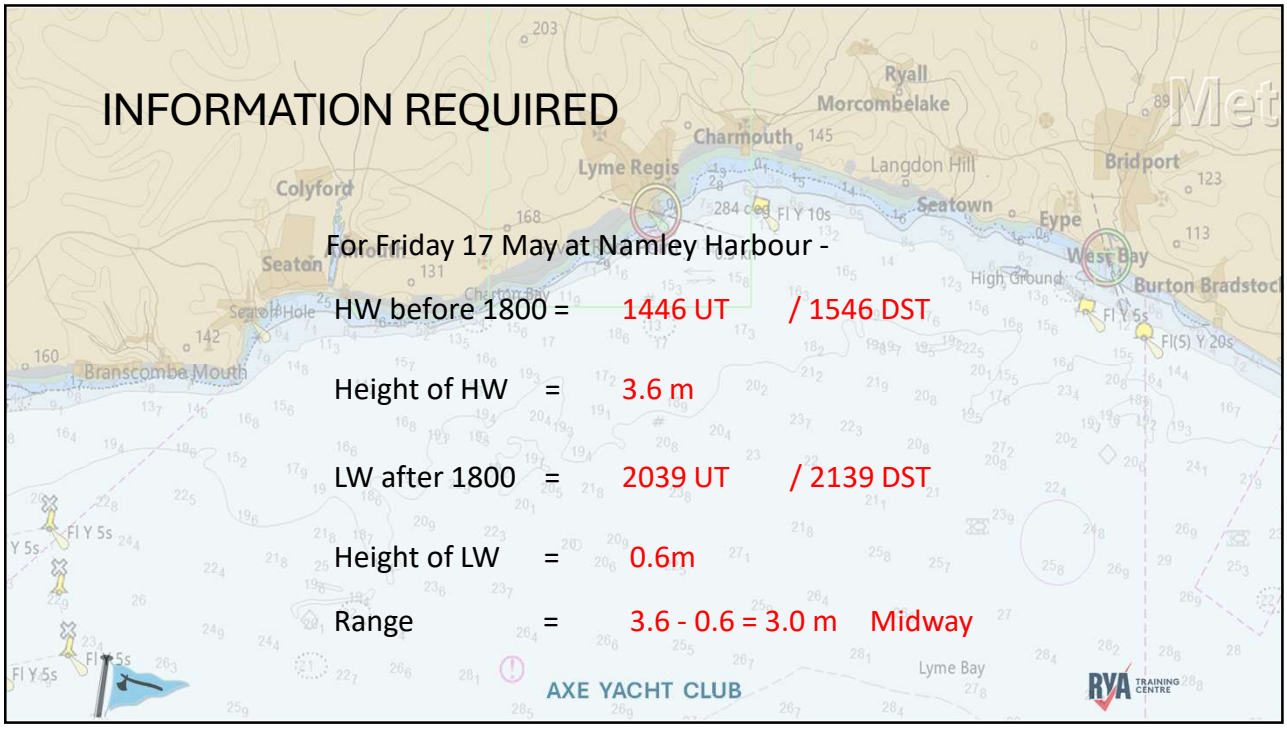
INFORMATION REQUIRED
For Friday 17 May at Namley Harbour -
HW before 1800 = 1446 UT / 1546 DST
Height of HW = 3.6 m
LW after 1800 = 2039 UT / 2139 DST
Height of LW = 0.6m
Range = 3.6 - 0.6 = 3.0 m Midway
AXE YACHT CLUB
Lyme Bay
Ryall
Morcombelake
Charmouth
Lyme Regis
Langdon Hill
Bridport
Colyford
Seaton
Seatown
Eype
West Bay
High Ground
Burton Bradstock
Branscombe Mouth
Fl Y 10s
Fl Y 5s
Fl(5) Y 20s

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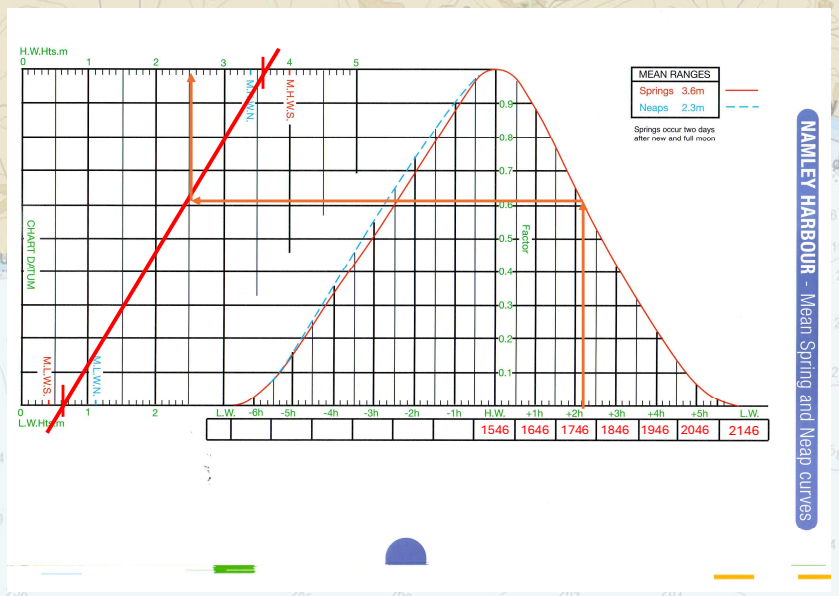
Tidal Curve



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TO FIND THE DEPTH IN WHICH TO ANCHOR AT 1800

Height of tide at 1800 from the curve = 2.5m

Between 1800 and LW, the tide will fall

2.5 - 0.6 = 1.9m

Depth required at time of anchoring =

Fall + Draught + Safety clearance

= 1.9 + 1.5 +1.0

= 4.4m

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TO FIND THE TIME AT WHICH THE TIDE WILL REACH A CERTAIN HEIGHT

A yacht is kept on a drying mooring in Itchenham Reach. The mooring dries to 0.8m above CD and the yacht has a draught of 1.1m.

What will be the earliest time that the yacht will float on the rising tide on the afternoon of Saturday 6 April?

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INFORMATION REQUIRED

LW Namley	1236 UT / 1336 DST	1.3m
HW	1951 UT / 2051DST	2.9m
RANGE	2.9 - 1.3 = 1.6m Neaps	

BOAT WILL FLOAT WHEN HEIGHT OF TIDE IS -

DRYING HEIGHT + DRAUGHT

= 0.8 + 1.1

= 1.9 m

AXE YACHT CLUB

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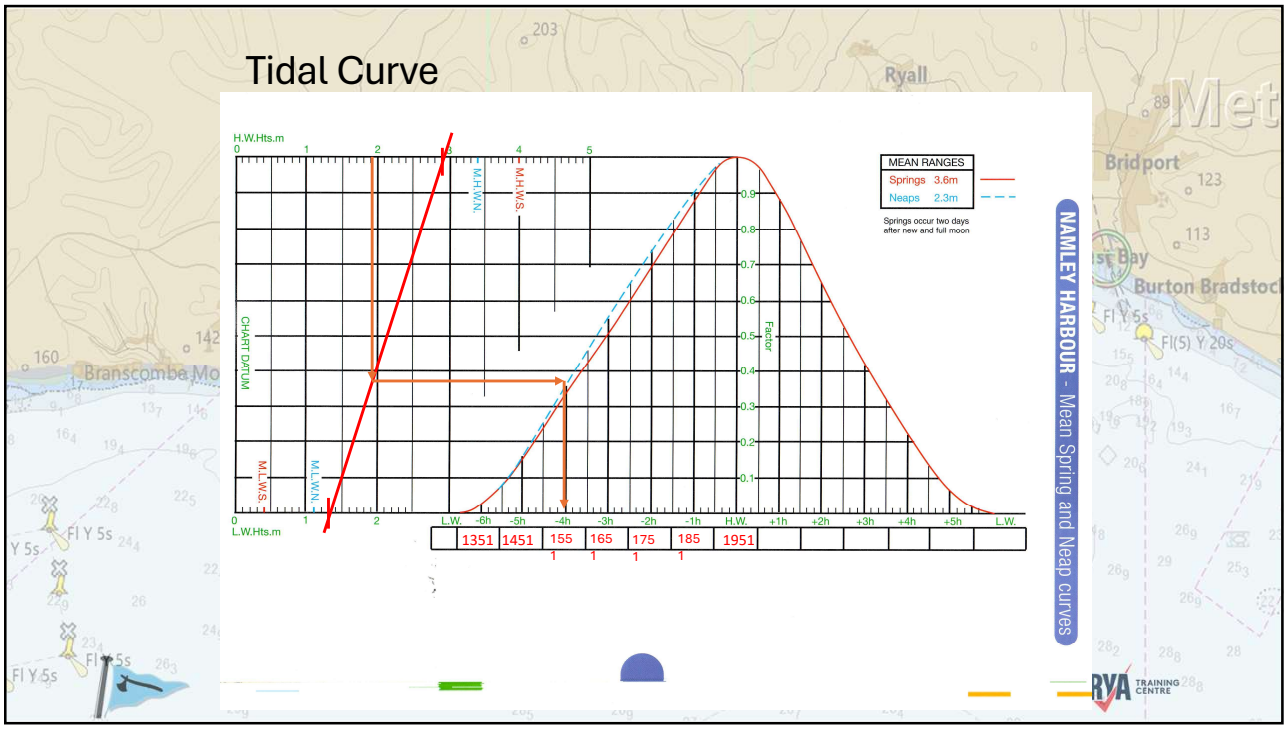
Tidal Curve



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