

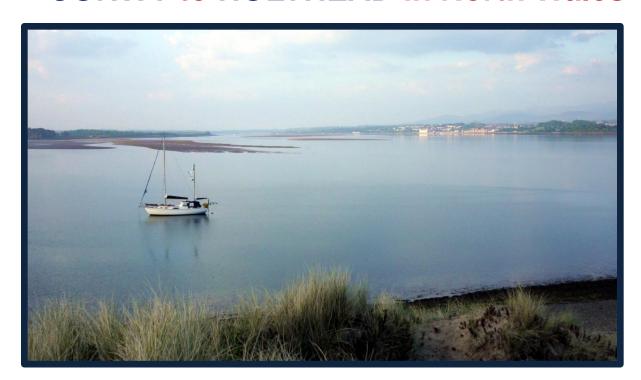
Passage Planning

A 'real world' example of planning of a coastal passage



Introduction

You now know the basic considerations when planning a coastal passage. Now lets put it all to practice on a 'real world' example and look at planning a passage from CONWY to HOLYHEAD in North Wales





Before Doing Anything

Ask yourself this question:

Are the capabilities of the crew and the yacht suitable to complete this passage?

If the answer is yes, then carry on.....



Study Chart & Pilot Books

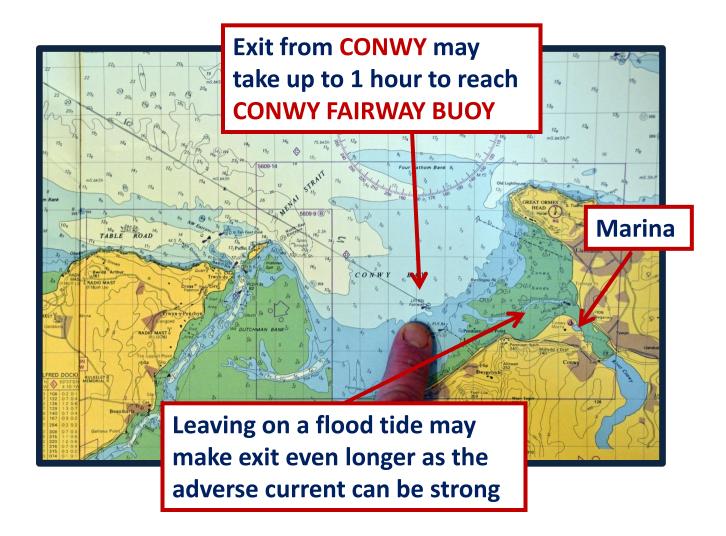
First.....

Look at a possible route

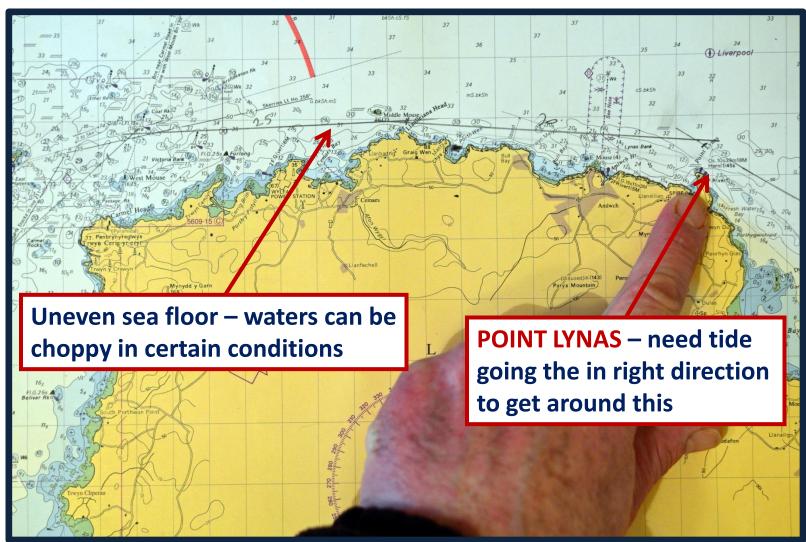
Look and find any navigational hazards

Look at the suitability of bolt holes

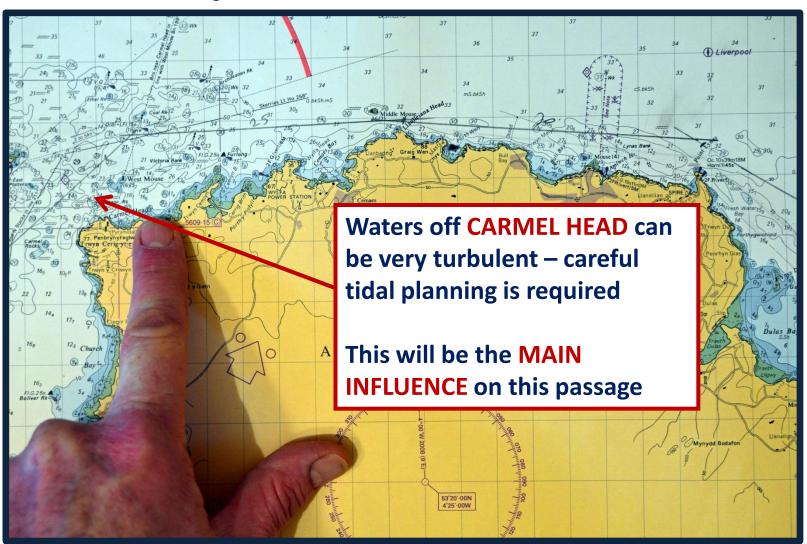




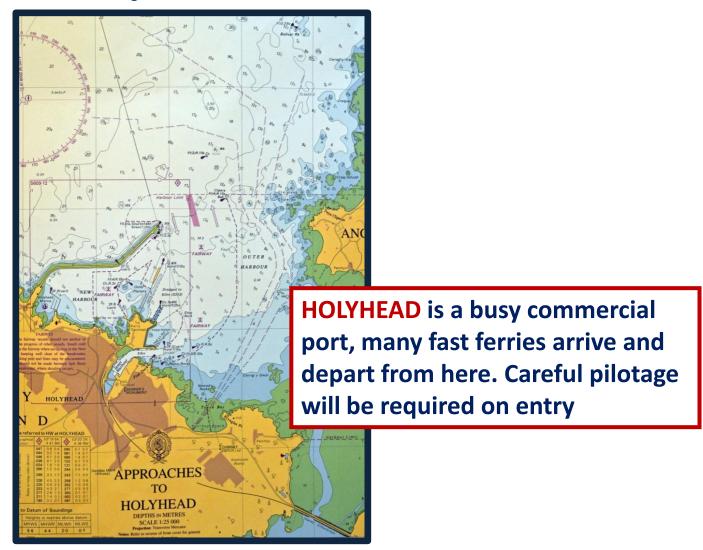














Hazards

The Anglesey and Adjoining Waters Pilot gives a good description of the waters and guidance on how to plan your passage (Imray)

6.4 Tides

ne tides along this coast flow at considable rate, mainly parallel to the coast, with extensive overfalls, eddies and rips in the vicinity of the major obstructions, many of which are underwater.

Carmel Head

To the west, streams off Carmel Head run at 5 knots Springs, the main stream setting in a north east south west direction. A strong tide race runs off the restern point of Carmel Head with the flood and off the northern point of the headland with the ebb. Heavy tide rips and overfalls mark the offlying shoals. Wind over tide puts up a confused and dangerous sea.

During the flood, the stream divides at the western extremity of the Skerries, forming eddies close inshore on either side of the main islet and at the north east extremity of the group. An inshore eddy forms at Carmel Head close along the cliff in an easterly direction towards Henborth.

During the ebb, an eddy is formed close inshore along the shore of Church Bay.

Certlyn to Lynas

West Mouse forms a considerable obstacle to both flood and ebb streams. Turbulent water forms to the east of the islet with the flood and to the west with the ebb. Eddies and whirlpools are created, particularly with Spring tides.

During the cbb a short tide race is formed to the west of Harry Furlong Rocks, whilst a patch of disturbed water forms over Victoria Bank. With onshore winds, both these effects may be cam-

....and it's not just Carmel Head that requires respect



Hazards

David Rainsbury's The Irish
Sea Pilot also gives some
excellent pointers to planning
this passage (Imray)



thal hazards. Three miles east of ad and standing right in the way of both yachts and tide is the reef variously named Harry Furlong, Harry Furlong's Rocks and Harry's Furlong, a jagged line of rocks just awash at low water which extends from the western arm of Comlyn Bay. I like to imagine its name derives from 'Old Harry's Furlong' leaving no doubt as to who gets the blome for its devilish presence across the track of paring craft.

This area would require care to navigate safely in still water but the tide, running up the Irish Sea at around 2½ to three knots reaches Carmel Head and pivots around it, making a sudden right-angle turn to enter Liverpool Bay. This violent change of direction occurs over a very aneven bottom, adding to the turbulence. Ital rates at Carmel Head can attain 6.1 knots at springs midway between the head and the Skerries. Closer inshore faster rates than these have been reported. In the presence of even moderate winds against this tide the overfalls can achieve a violence of destructive force.

Leaving Puffin Sound, Point Lynas less 11NM to the NW. There are overfalls off the

headland and the tide runs strongly. There is a strong flow all along the north coast of Anglesey and conditions can be rough in contrary winds. When planning a passage from the Menai Strait to Holyhead due regard should be given to wind strength and direction when deciding whether to go north about or west-about.

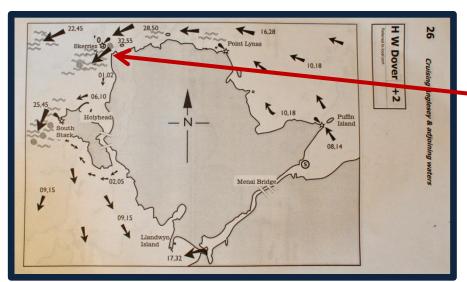
The most difficult judgement is thising departure to arrive at Carmel Head close to slack water. Leaving from Beaumaris at about HW Holyhead will usually give arrival at Carmel on the last of the ebb and a fair tide most of the way. An alternative strategy is to make a stopover on the north coast of Anglese, rolliding Carmel on the first of the ebb

On rounding Point Lynas, Anniwch lies a mile and a half ahead with the islet of East Mouse just beyond and close inshore. Middle Mouse, visible five miles ahead standing almost half a mile offshore, can be passed on either hand. There is a strong set towards the islet when passing inshore. Wylfa nuclear power station is unmistakeable at the far side of Cemaes Bay. Old Harry's Furlong is the most serious hazard on this coast. This awash reef stands out from the shore just to the west of Wylfa, marked at its

....and gives some clear warnings

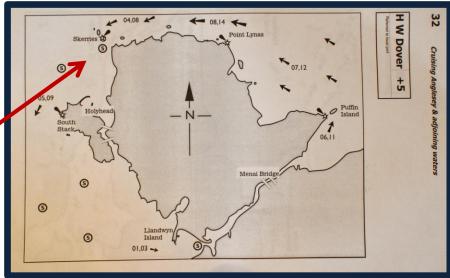


Tidal Considerations



Carmel Head can be very turbulent – here it is 2 hours after HW Dover

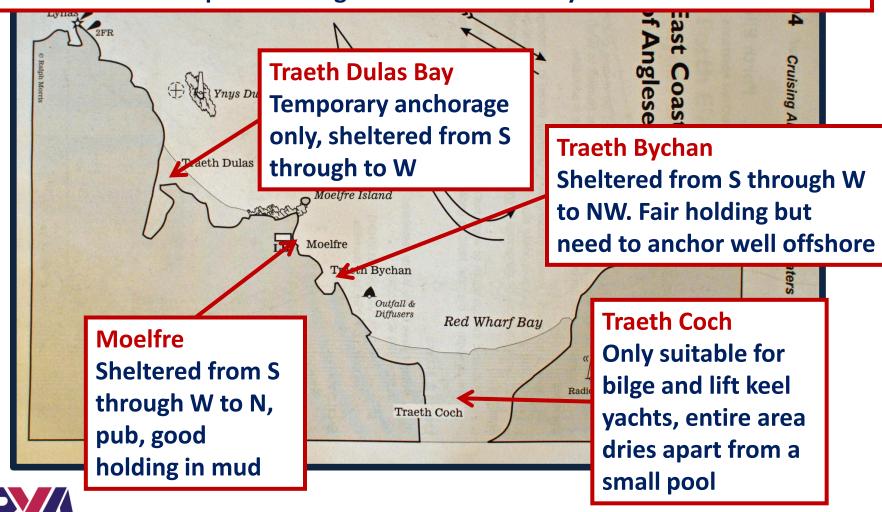
At 5 hours after HW Dover it is slack. This is a good time to go when travelling from the East





Boltholes & Refuges

There are plenty of boltholes and refuges on this coastline, suitable for different wind directions. The pilot books give the information you need.

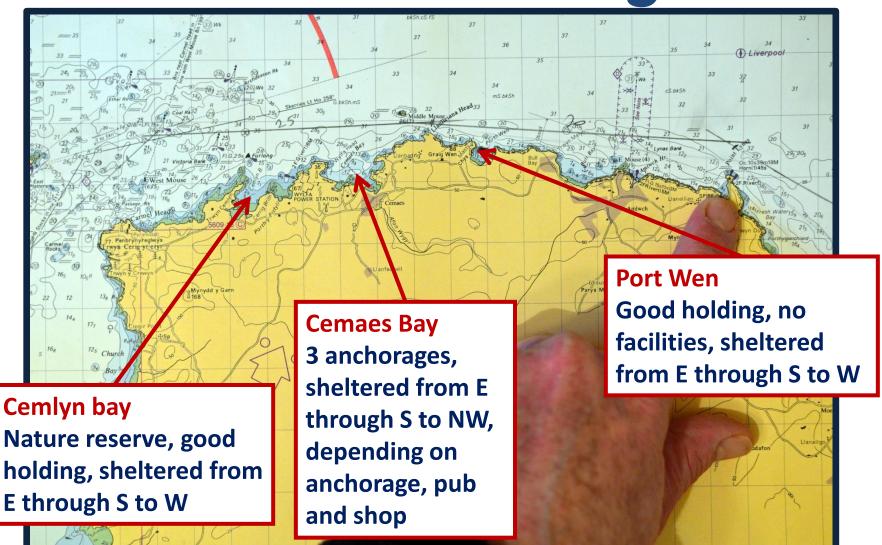


Boltholes & Refuges





Boltholes & Refuges





How long will passage take

Measuring the course on the chart shows from CONWY FAIRWAY BUOY to HOLYHEAD is approx 32 miles

CARMEL HEAD, the main tidal gate, is approx 25 miles from CONWY FAIRWAY BUOY



Therefore a yacht travelling at 5 knots will reach CARMEL HEAD after about 5 hours and HOLYHEAD about an hour or so after that

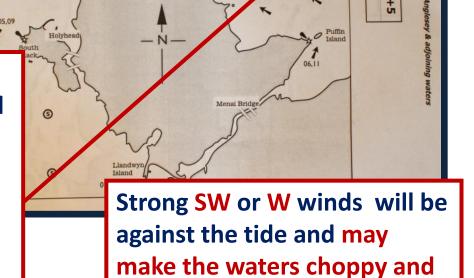


Planning for Tide

From the TIDAL ATLAS we know that 5 hours after HW Dover would be a good time to go around CARMEL HEAD

We also know that we will have the tide with us before we get there; and that tidal streams can run at up to 3 knots, therefore it is likely we will reach CARMEL HEAD in less than 5 hours.

Plan to be at CONWY FAIRWAY BUOY at or just after HW Dover



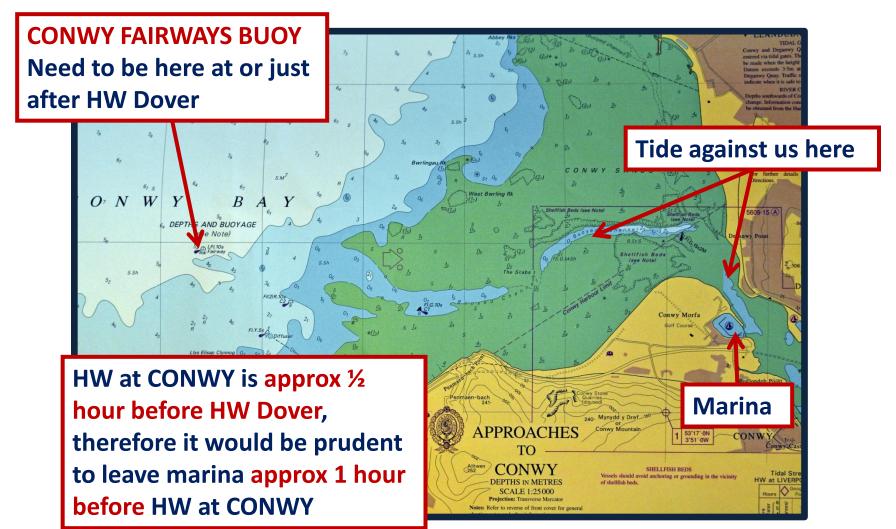
confused, therefore this

attempted in these conditions

passage should not be



Planning for Tide





Studying the Almanac

The next job is to study the almanac and work out when the tide will allow a suitable leaving time from Conwy Marina





Planning the Passage

Now you have all the facts to make the passage plan. It should include:

- Safe refuges
- Lights / marks and visual navigation aids you can use
- Departure plan
- Arrival plan

Before finalising it, you may find it helpful to go through it with you partner / crew



Other Considerations

Finding out the weather forecast for the time of the passage is essential





Consideration should be given to the wind direction and strength as the waters are likely to be choppy if it is against the tide



Other Considerations

As it will be a 6-7 hour passage thought must be given to:



- Crew victualling & comfort
- Crew responsibilities and rest periods
- Sufficient fuel and water

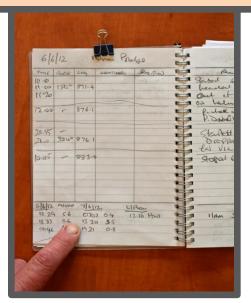
Finally, before setting off remember to contact the coastguard and your land contacts, etc.

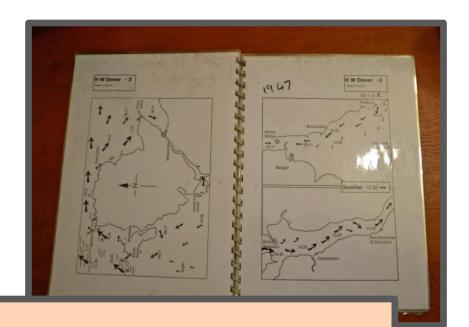


Top Tips

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.



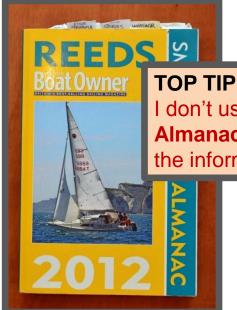


TOP TIP

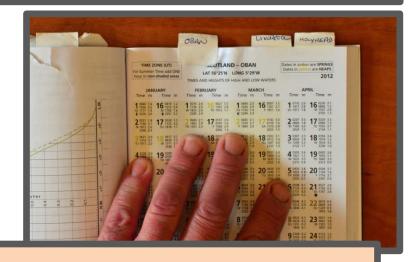
I have laminated my **TIDAL ATLASES** and use **china-graph pencils** to mark the times of important tidal streams during **PASSAGE PLANNING**. **This makes it very easy to refer to them on passage**.



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.

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Further Reading



We highly recommend Tom Cunliffe's RYA Seamanship Handbook (G36)



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