

RAZORBILL

RIB CHARTER



www.razorbillribs.co.uk

Marine Energy...

from a Boat

Operators perspective

By Dan Worth – Owner / Operator

Who are we?

- Razorbill RIB Charter & Marine Services is named after the Auk most prevalent in Pembrokeshireand Dan's favourite bird!
- We charter RIBs (Rigid Inflatable Boats....a bit like an inshore Lifeboat!) to a variety of clients, for a variety of different purposes.
- We are based in North Pembrokeshire, but also work on a Wales wide basis.



A Razorbill coming in to land!



'Razorbill' one of our RIBs

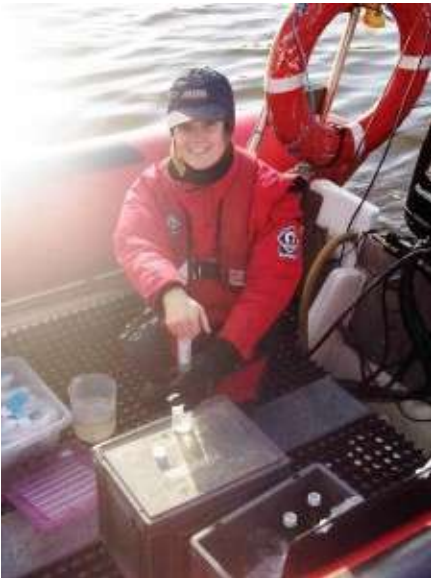
What do we do?

- **Commercial Charter** – things like...

Water sampling (*How clean is the water over shellfish beds?*)

Bathymetric survey (*What does the seabed look like?*)

Acoustic Doppler Current Profiling (*What are the water currents like beneath the surface? – Important for understanding whether a Tidal Energy project would work well in a location!*)



Water Sampling



ADCP Survey



Bathymetric Survey

.....for clients like the Environment Agency

• Wildlife Watching and Sightseeing

Taking people to see the amazing coastline and rich wildlife we have here in Pembrokeshire....taking care to respect and not to disturb their environment too much!



Mola-mola - Sunfish



Atlantic Grey Seal Cow



Bottlenose Dolphin Jumping



Pod of Bottlenose Dolphins



Manx Shearwater



Compass Jellyfish



Fulmar Petrel



Pembs Sea Cave



Gannet



Herring Gul



Guillemot



Atlantic Grey Seal Pup



Kittiwake



Inside a Sea Cave



Shags - Adult & Juveniles

.....a sample of what we often see on Charter, all taken from aboard our RIBs in Pembrokeshire!

● Dive Charter

Taking people out to explore the underwater world. Pembrokeshire has some fantastic underwater wildlife and wrecks to explore!



Curled Octopus



'Dan Beard' Wreck – Winch Gear



Spider Crab

● Media Charter & Filming

Largely due to the beautiful coastline and abundance of wildlife (sometimes rare) which we have in Pembrokeshire, there are often television crews who want to come and film here. They often need the knowledge of local operators to get the footage they want to capture!



BBC Coast – Mark Horton



Deep Wreck Mysteries – Dan Stevenson



Stanley Johnson (Boris Johnsons Dad) - & Mark Sharman – Wildlife Cameraman



Monty Halls – Diver and TV Presenter

Who is protecting the Wildlife?

- Legislation – Laws made by Government
- Special Areas of Conservation (SAC's) and Sites of Special Scientific Interest (SSSI's)
- The Marine Act – MCZ's (Marine Conservation Zones)....being driven forward nationally by people like the Marine Conservation Society

Razorbill RIBs are 'MCS Champions'.....

"Your seas your voice"....less than 1% of the UK's seas are fully protected!



- Wildlife Safe Operators or 'WiSe' scheme - National Standard for Operators



- Pembrokeshire Marine Code – Local Operators Code (our Code!)



- Conservation Bodies – For example, locally we have Sea Trust (marine arm of the Wildlife Trust of S&W Wales)



Marine Energy – An Operators Perspective

Perceived Benefits

- Carbon Neutral Fuel....and it's Free!
- Avoids transportation of Crude Oils – Avoiding wildlife disasters such as the 'Sea Empress' who ran aground at St. Anns Head on 15th February 1996 whilst entering Milford Haven. Over the course of a week she spilt 73,000 tons of crude oil into the sea!
- It's predictable energy (unlike wind and solar etc). The tides are driven by the pull of the sun and the moon on the Earths oceans!

Considerations /Areas Where Careful Investigation is Required....

- The impact on marine wildlife – Little is known about the impact this new technology could have on wildlife....
Will the moving parts of the turbines damage or harm marine wildlife?
Is the noise they produce confusing for marine wildlife? – Especially Cetaceans (Dolphins and Whales).....They communicate using sound or 'sonar'.....Sound is their sight!
Will the location of the equipment impact upon /alter the behaviours of the Marine Wildlife adversely? – For example, is it on a migratory path or in an area where animals congregate for a specific purpose such as feeding or breeding?
- The physical impact on the seabed and surrounding areas....

Tourism Opportunities around Tidal Energy

Tourism plays an important part in Pembrokeshire's Economy....

Provided that Tidal Energy can be proven as a wildlife safe and 'Green', clean and efficient energy source, there are apparent tourism benefits:

- Promoting and Confirming Pembrokeshire as a 'Green' and Ecologically Friendly destination
- Would provide an attraction in itself to tourists....in much the same way as the Dinorwig 'Dragon in the Mountain' Hydro Electric Power station in North Wales has become

Websites for Reference

- Razorbill RIB Charter & Marine Services – www.razorbillribs.co.uk
- Marine Conservation Society – www.mcsuk.org
- Sea Trust - www.seatrust.org.uk
- Pembrokeshire Marine Code - www.pembrokeshiremarinecode.org.uk
- WiSe - www.wisescheme.org