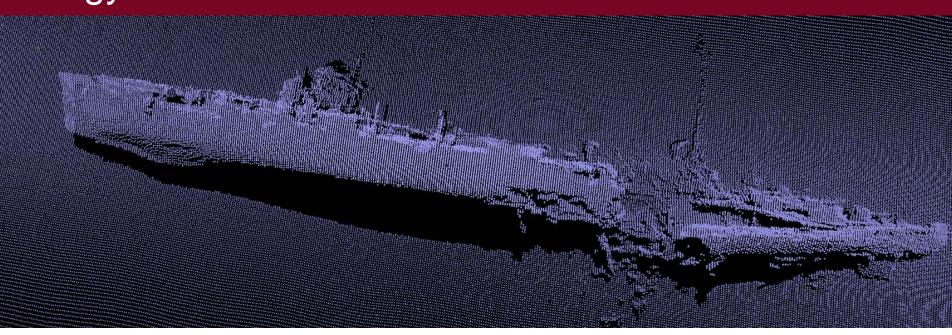


Historic environment guidance for wave and tidal energy



Philip Robertson and Adele Shaw, Historic Scotland (Antony Firth, Fjordr Ltd)

Overview Part 1 Who are we? What do we do? Why was the guidance produced? Part 2 What does the marine historic environment look like? What are the key interactions with wave and tidal energy projects? How can we manage change effectively?



Who are we?

- Historic Scotland is an agency of the Scottish Government
- Historic Scotland has a role in delivering the Scottish Government's marine vision
- Vision includes protecting and where appropriate, enhancing our most important coastal and marine heritage sites.

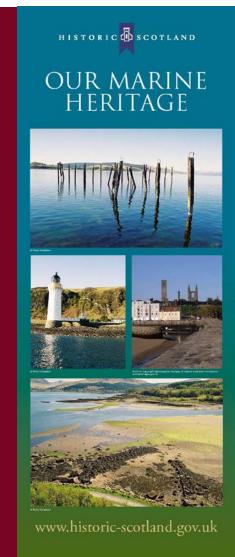




Historic Scotland's approach

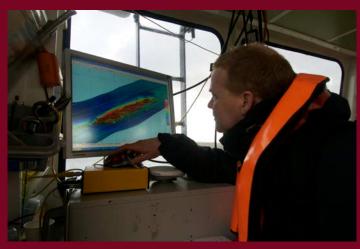
Historic Scotland's Marine strategy 2012-15 identifies priorities under three strategic aims

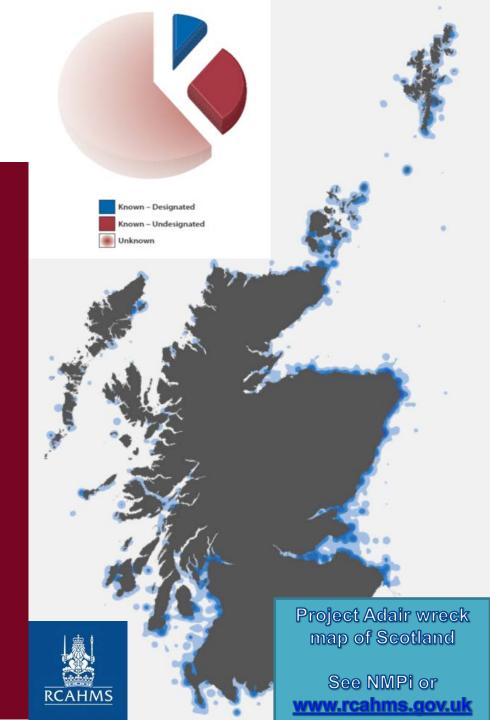
- Advancing knowledge about marine heritage and make information widely available
- Improving stewardship of key marine heritage sites
- Developing wider understanding and enjoyment of marine heritage



Advancing knowledge and making information available





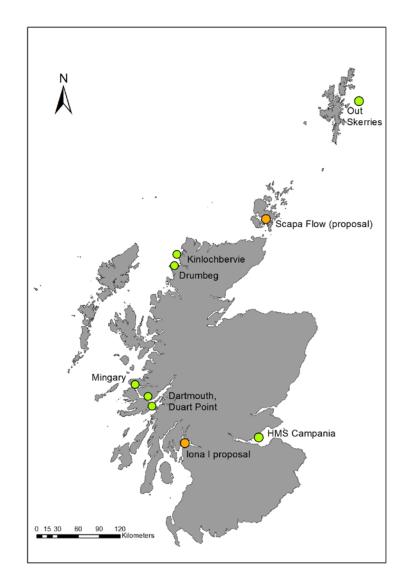




Improving stewardship - Historic Marine Protected Areas



Drumbeg Historic Marine Protected Area





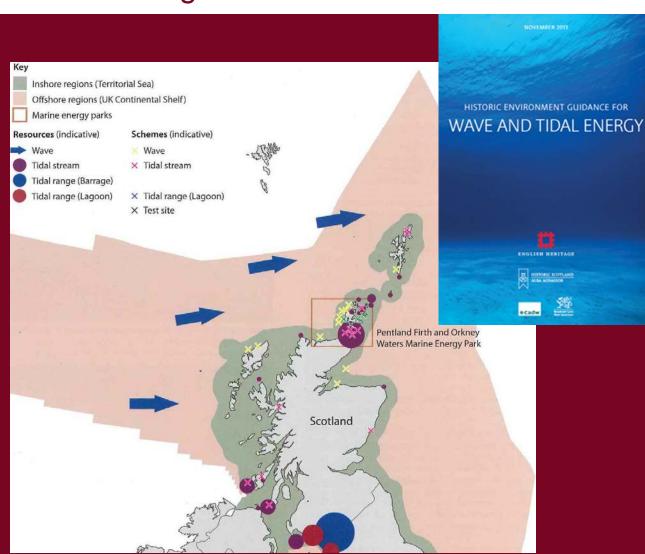
Developing wider understanding

Why focus on wave and tidal?

Geographical scope

Who was involved?

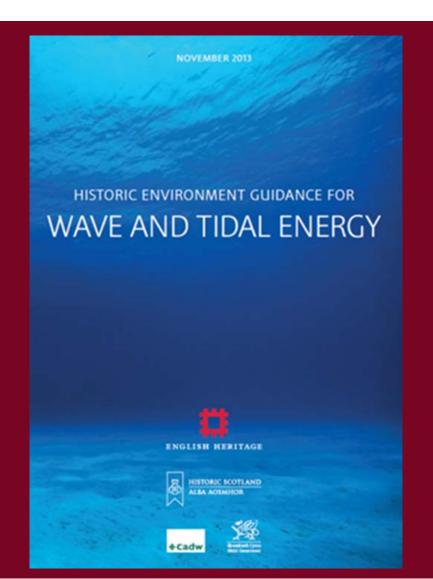
- Joint funding from three national historic environment bodies
- The Crown Estate
- Developers and consultants
- Public consultation

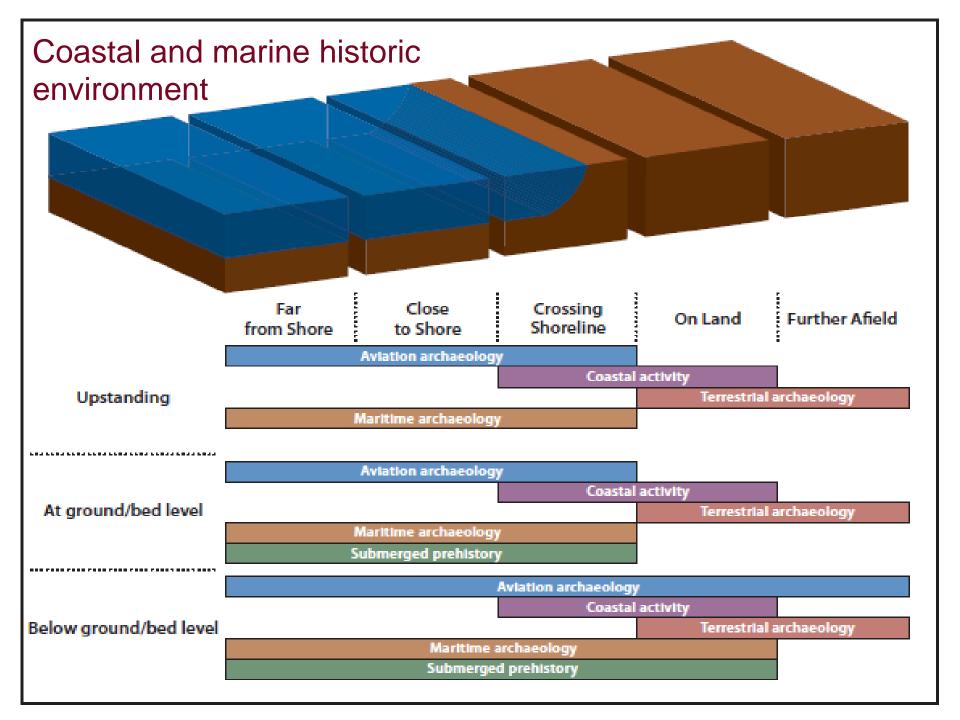




Scope of the guidance

- Policies and guidance
- Roles and processes
- The marine and coastal historic environment
- Status and trajectory of the wave and tidal industry
- Consideration of effects
- Other key issues including enhancing public benefit, data management and archiving and publication

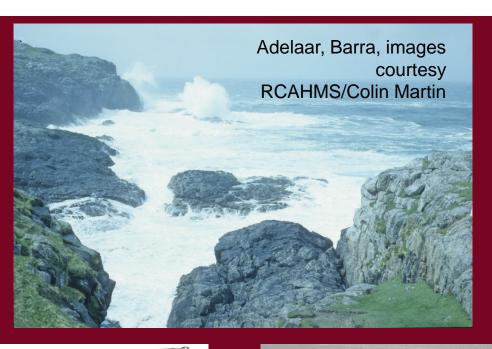


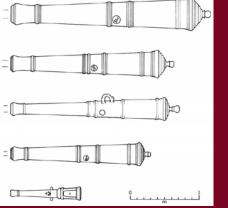




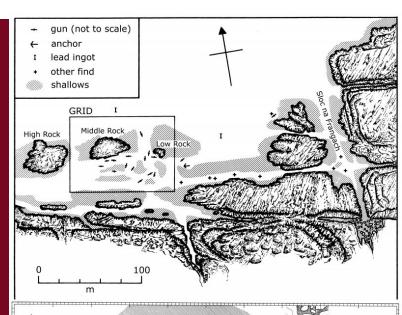
Can archaeology survive in high energy environments favoured for wave/tidal renewables?

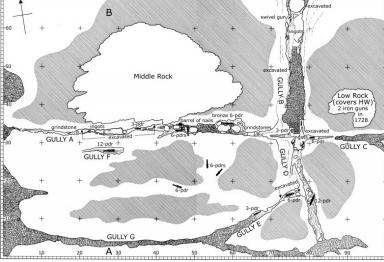












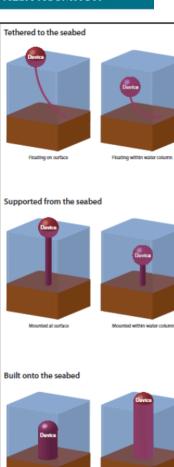
Historic environment interactions with wave/tidal renewables

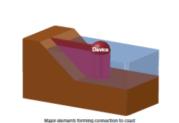


of Effect

of Impact







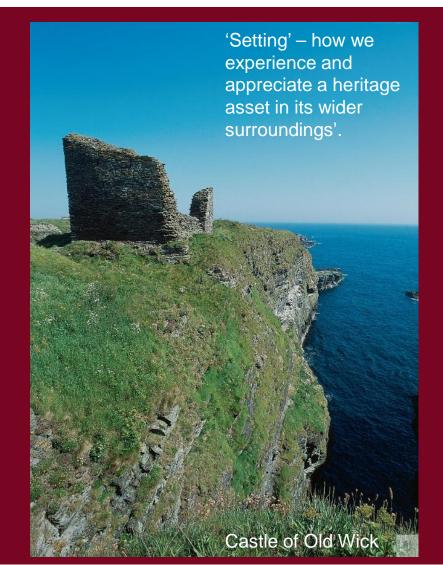
Major elements breaking surface

Major elements in water column



Visual impacts

- 'Setting' of coastal heritage assets can be affected by wave and tidal developments
- Visual impacts needs to be considered for devices offshore and coastal infrastructure
- Impacts strongly related to the appearance of energy devices and structures (those at sea, and onshore infrastructure)
- Impacts likely to be more localised than for offshore wind installations which can be visible from far afield.





Dealing with uncertainty and risk

 '....much can be done to reduce costs and risks through early and thorough integration of archaeological objectives with other site investigations.....'



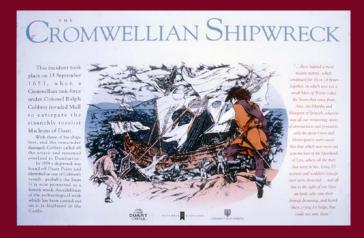


Opportunities for enhancing public benefit

- Enhancing knowledge and understanding about heritage for social/economic benefit:
 - Making information and data from surveys available to the public through effective archiving (RCAHMS;MEDIN)
 - Promoting marine renewables and heritage through effective outreach (e.g reports; leaflets; interpretation; publications; news media).









...closing comments

- Information about heritage sites
 - PastMap http://pastmap.org.uk
 - Heritage designations www.historic-scotland.gov.uk
 - NMPi http://marinescotland.atkinsgeospatial.com/nmpi/
- Guidance
 - Wave and tidal -http://www.historic-scotland.gov.uk/wave-tidal-energy-guidance-nov-13.pdf
 - Code of Practice for Seabed Developers http://www.inapc.org.uk/jnapc brochure may 2006.pdf

 - Offshore Geotechnical Investigations and The Historic Environment Analysis http://www.thecrownestate.co.uk/media/354783/2011 01%20Offshore%20Geotechnical%20Investigations%20and%20Historic%20Environment%20Analysis%20-%20Guidance%20for%20the%20Renewable%20Energy%20Sector.pdf
- Advice
 - Historic Scotland Heritage Management Directorate <u>www.historic-scotland.gov.uk</u>
 - Association of Local Government Archaeological Officers (ALGAO) -

http://www.algao.org.uk/membership#scotland