



**NATURAL
ENVIRONMENT
RESEARCH COUNCIL**



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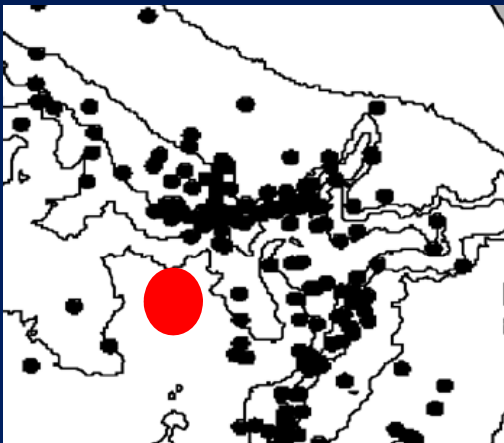
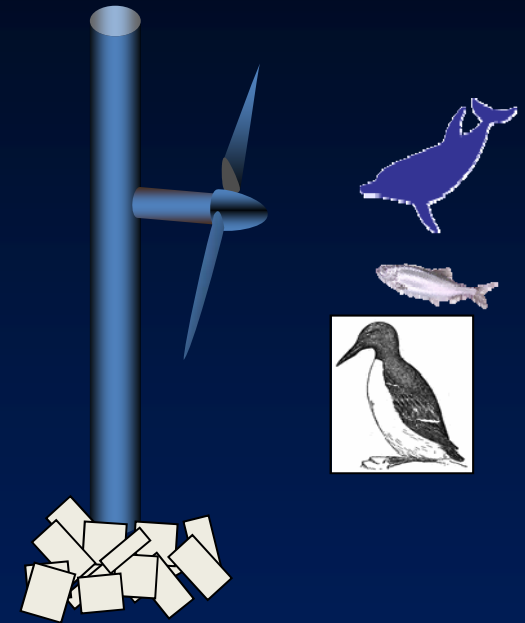
Department for Environment
Food and Rural Affairs

Marine Renewables Sandpit



1) **Response** - Understanding How MRED Operations Influence Fine Scale Habitat Use and Behaviour Of Marine Vertebrates

Do wave/tidal-stream devices pose a REAL risk to marine wildlife? (habitat exclusion/collision)



1) Response

Research Team

Dave Thompson (SMRU)

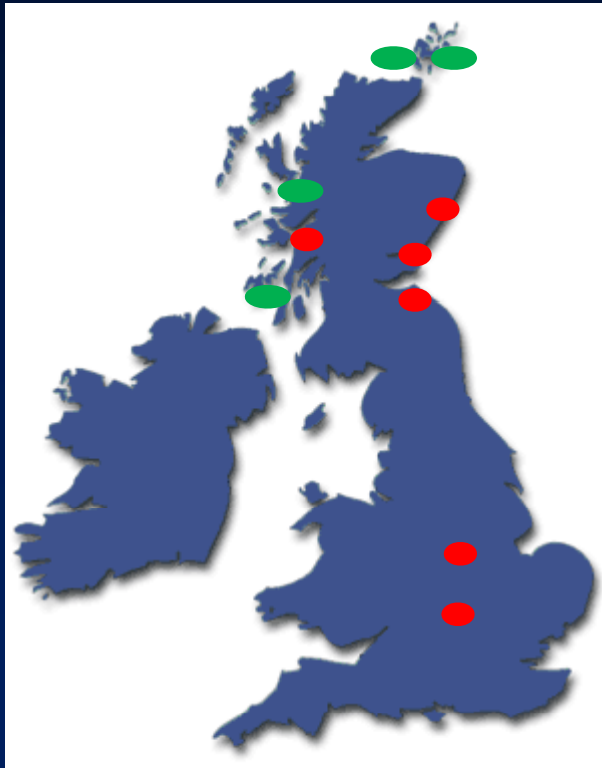
Ben Wilson (SAMS)

Paul Lepper (Loughborough U)

Beth Scott (Aberdeen U)

Simon Jude (Cranfield U)

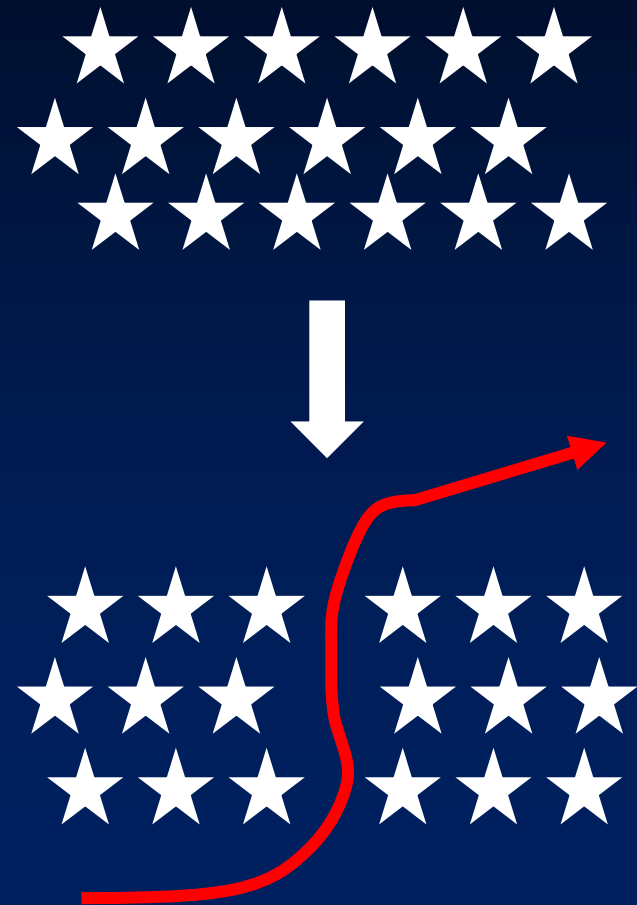
Scott Couch (Edinburgh U)



2) EBAO - Optimising Array Form for Energy Extraction and Environmental Benefit

Factor in environmental considerations to array configuration, upfront

- Migration routes
- Shipping routes
- Fishing lanes
- Sensitive habitats etc



2) EBAO

Research Team

Ian Bryden (Edinburgh U)

Sian Limpenny (CEFAS)

Dave Thompson (SMRU)

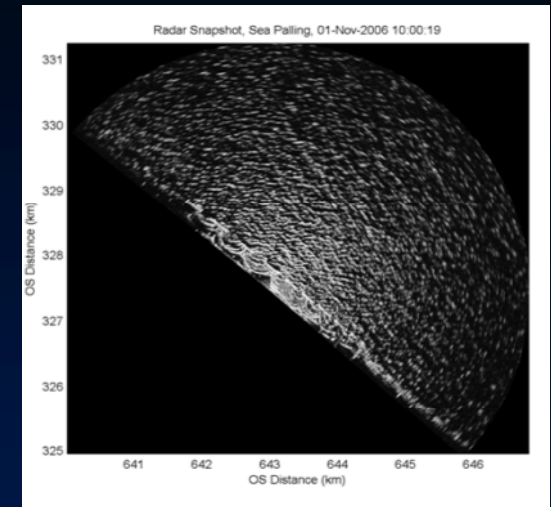
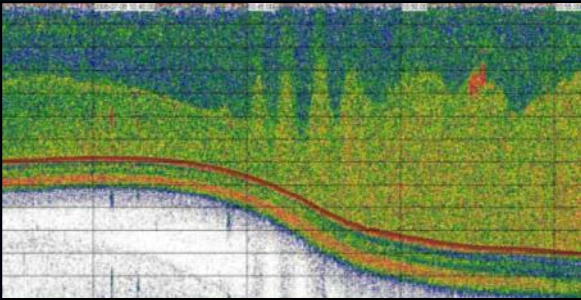
Paul Lepper (Loughborough U)

George Smith (Exeter U)

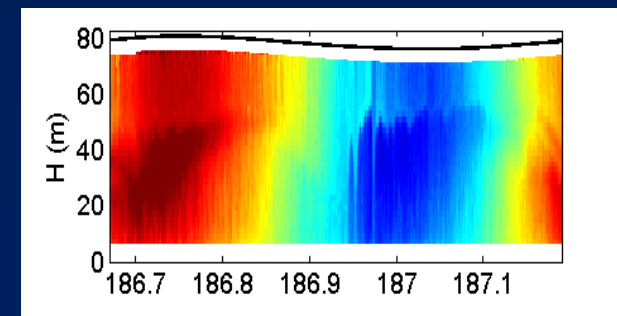
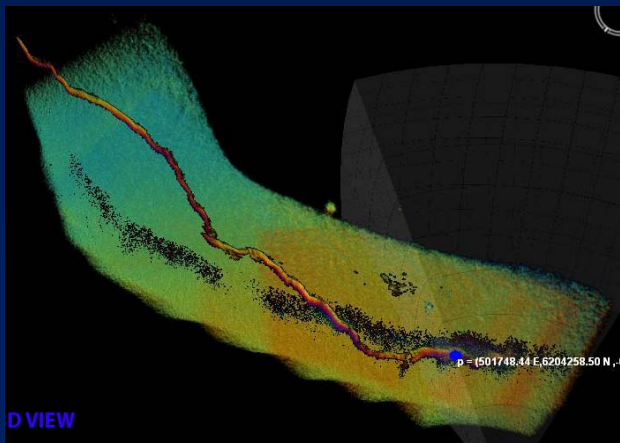
Ben Wilson (SAMS)



3) FLOWBEC – Flow, Water column & Benthic Ecology 4D



Co-locate SotA sensors to better understand Interactions – physics & biology



3) FLOWBEC

Research Team

Paul Bell (NOC)

Beth Scott (Aberdeen)

Philippe Blondel (U. Bath)

Dan Conolley (U.Plymouth)

George Smith (U. Exeter)

Ricardo Torres (PML)

Ian Bryden (U. Edinburgh)

Graham Savidge (Queens U)



4) *QBEX* – Quantifying benefits and impacts of fishing exclusion zones on bioresources around Marine Renewable Energy Installations

Do bioresources (fish, shellfish etc) 'spillover' from Marine Renewable Installations (because of fishing closure) enhance adjacent waters?



4) *QBEX*

Research Team

David Sims (MBA)

Brendan Godley (Exeter U)

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Dan Conley (Plymouth U)

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