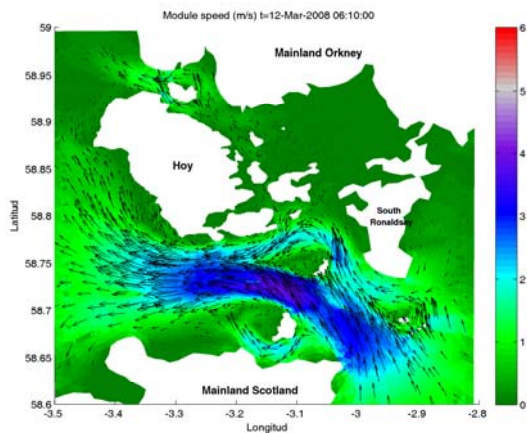




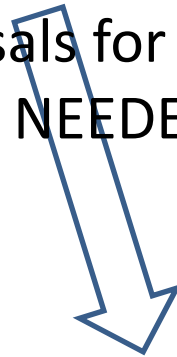
Marine Renewables - a collaborative research programme for the future



Report of the MASTS/MREDS
ICIT Orkney Workshops
20/22 October 2010



An academic forum where marine scientists from the MASTS and MREDS communities could come together to review current participation in the marine renewables sector with the aim to identify firm proposals for future collaborative research which was **NEEDED** and could be **FUNDED**



Offshore wind; Wave; Tide; Bioenergy



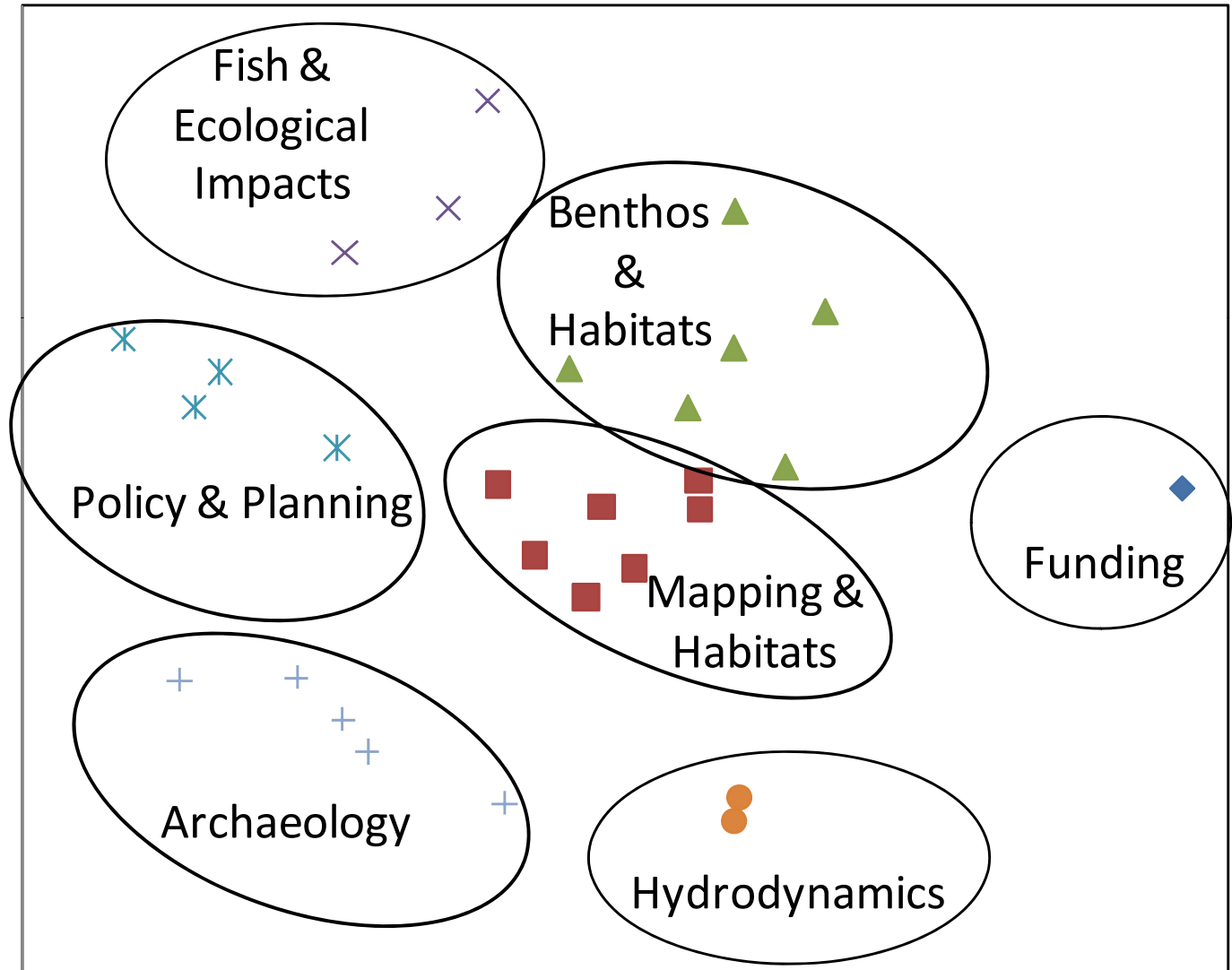
Attended by

MASTS Members
Heriot-Watt University
Marine Scotland Science
SAMS (University of the Highlands and Islands)
University of Aberdeen
University of Glasgow
University of St Andrews
University of Stirling
OTHER ORGANISATIONS
British Geological Society
Environmental Research Institute (UHI)
International Marine Institute (Norway)
Orkney College (UHI)
University College London
University of Dundee
University of Edinburgh
Joint Nature Conservancy Council
Marine Scotland (MSP Team)



7 Themes
and
28 Presentations

Using standard ecological analysis - presentations as samples and themes as species





PROPOSALS

DAY 1 ENVIRONMENT

- **Wave and tidal energy – understanding and modelling the resource, coastal processes** - David Woolf (ERI)
- **Linking physical and biological processes in the marine environment** - Mark Shields (Aberdeen)
- **Measuring biological responses – mapping and monitoring** - Tom Wilding (SAMS)
- **Impacts – from individuals to populations** - Neil Odam (Stirling)

DAY 2 MARINE SPATIAL PLANNING

- **Policy, planning and the regulatory environment** Richard Bates (Aberdeen)
- **Cultural landscapes at sea - past and present** Caroline Wickham-Jones (Aberdeen)
- **Stakeholder inputs - resolving conflicts and developing synergies** Mike Weston (UHI)
- **Information systems for features and activities in marine environments** Andrew Guerin (UHI/ERI)

DAY 3 MAPPING

Sensors and platforms for biodiversity mapping Richard Bates (Aberdeen)

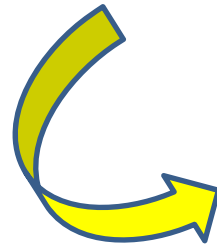
Mapping for MPA - deep water and Rockall Heather Stewart (BGS)

Mapping for the marine renewable energy sector Pippa Goldschmidt (Marine Scotland)



CONCLUSIONS

1. Pre-emptive MASTS proposal to major funders for a large research project
2. Report to the MASTS membership to determine the institutional appetite for collaborative work in the sector
3. Form a MASTS sub-group to progress the collaborative initiative
4. Identify early 'QUICK HITS' for MASTS from the proposals identified



e.g.
Data mining for MPAs with JNCC
MASTS Vessel Owners Club
Develop marine archaeology link



QUESTIONS

1. What research opportunities?
2. What appetite for collaborative venture over single action and when?
3. What structure and support from MASTS and the institutions to make it work?