

NOC Association Meeting
May 2018



National
Oceanography Centre
NATURAL ENVIRONMENT RESEARCH COUNCIL

MEDIN

marine environmental
data & information network

10 years of improving access to marine data

The Hub for UK Marine Data

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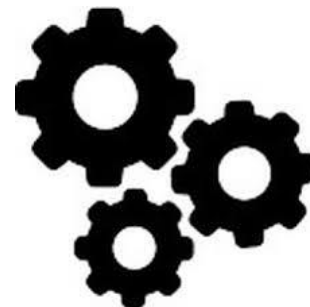
medin.org.uk





What is MEDIN?

*Group of organisations, tools and resources
providing access to UK marine environmental data*





What is MEDIN?

Open partnership of UK organisations

Funded by 14 sponsors

Report to Marine Science Coordination Committee

Hosted by the National Oceanography Centre





MEDIN's aim

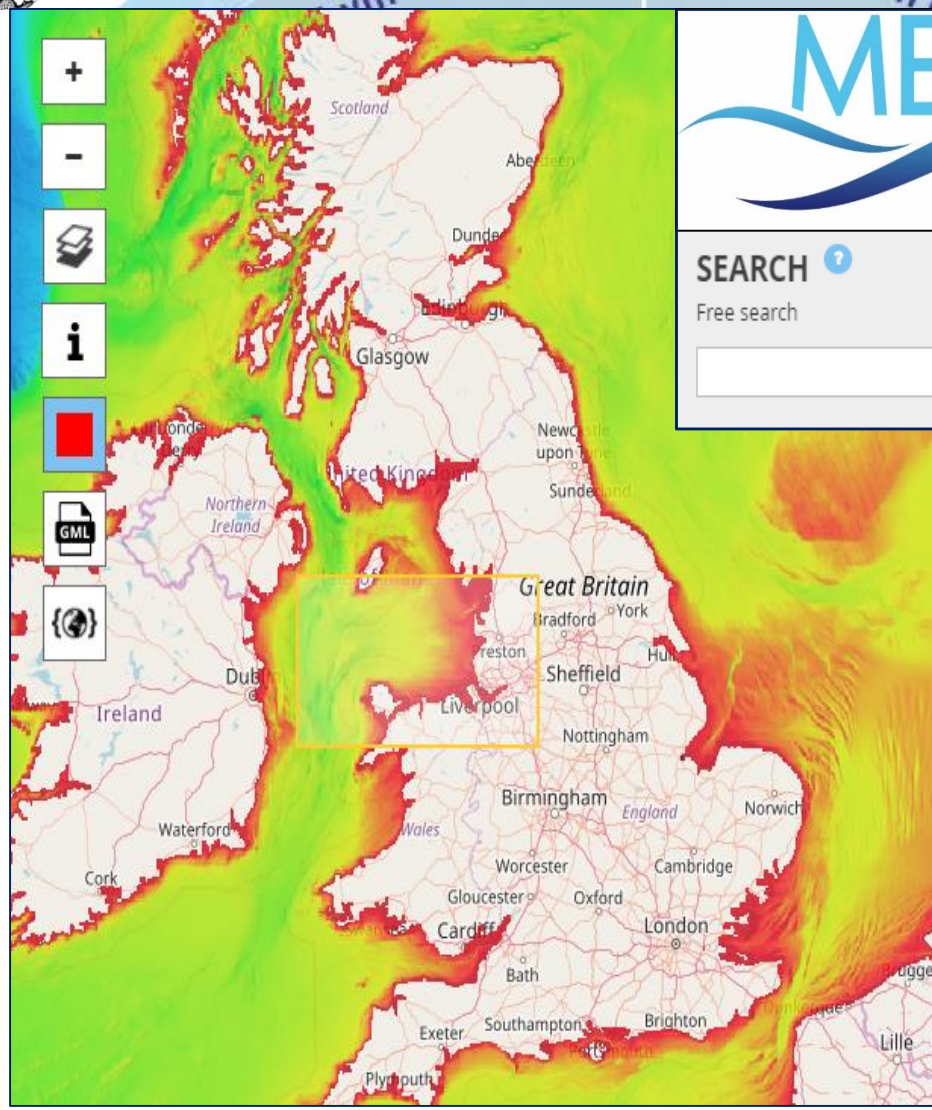
To improve access to, and management of, UK marine environmental data and information.

Hub

Standards

Expertise



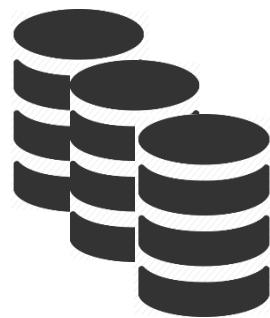


MEDIN
marine environmental data & information network

SEARCH ?
Free search



Local data holders



Net

Geology

ntres

www.oceannet.org/finding_data/search/full

Fisheries

marinescotland



Marine Discovery Metadata Standard

UK Marine Standard:



UK Standard:
GEMINI2



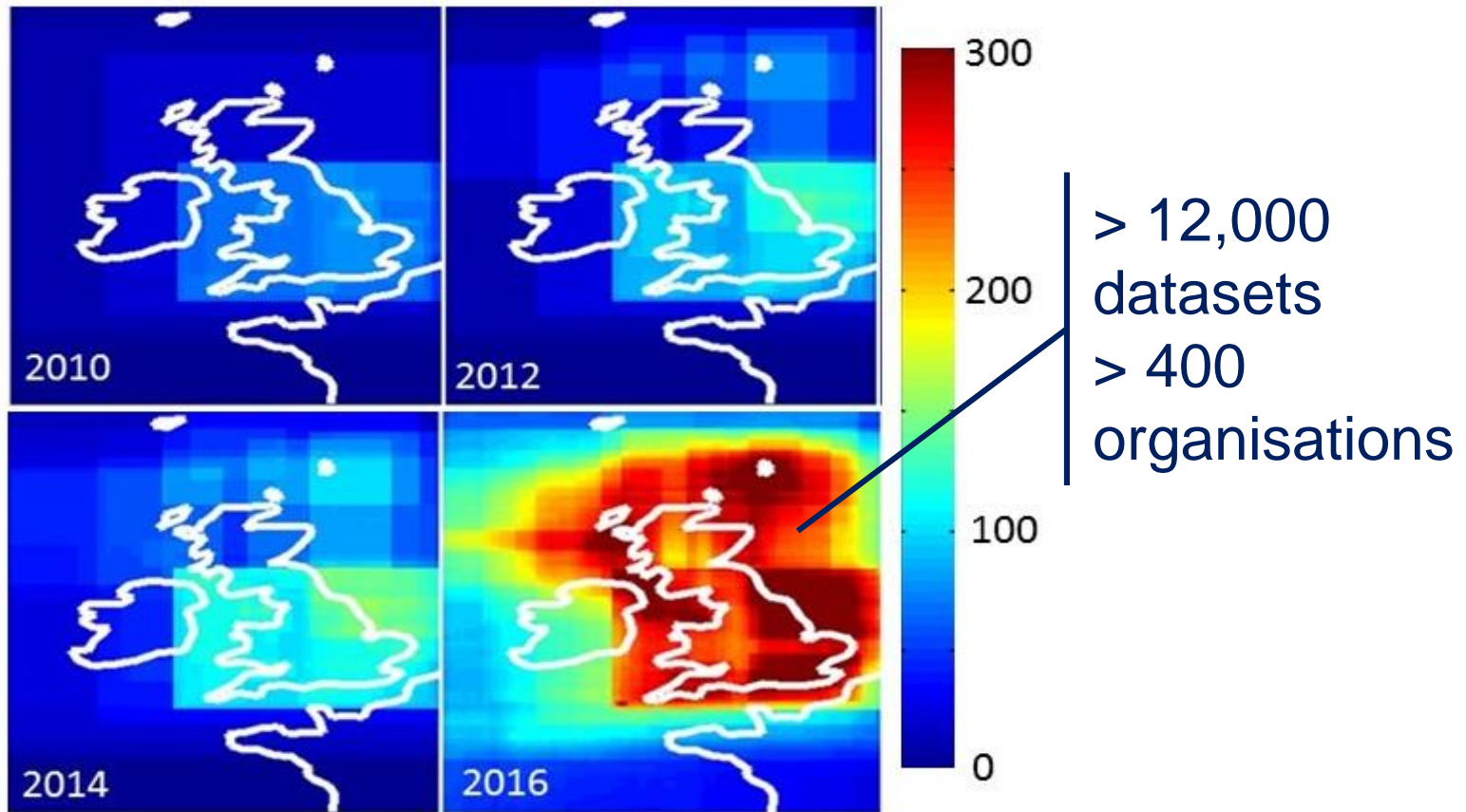
European Standard:
INSPIRE Directive



International Standard:
ISO19115



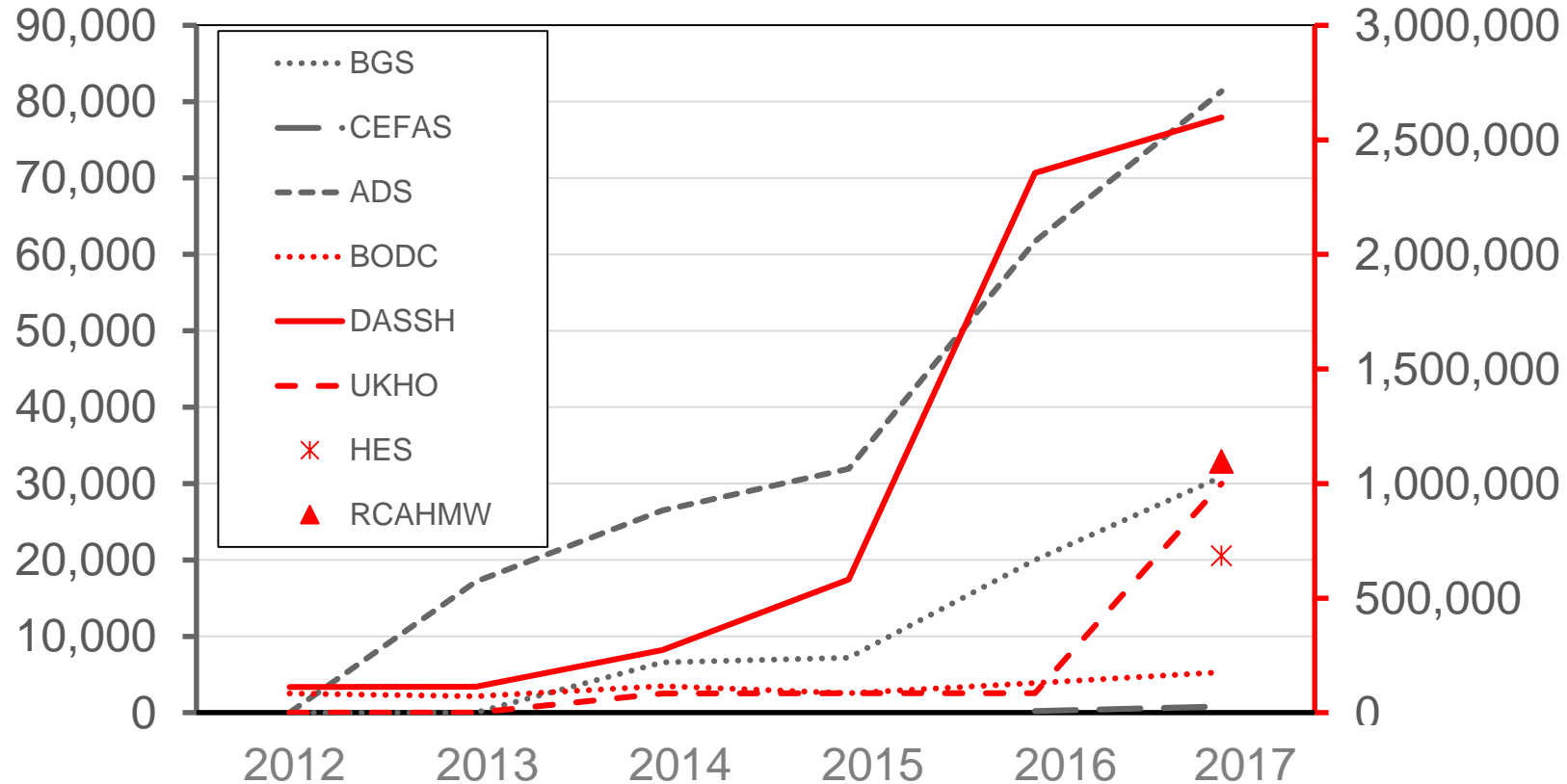
Is it working? – data coverage



Density of datasets made available on the MEDIN Portal

- MEDIN has greatly increased access to marine data since its inception
- Marine data is available across all areas of the UK

Is it working? – are data being re-used



Requests for data at the MEDIN Data Archive Centres

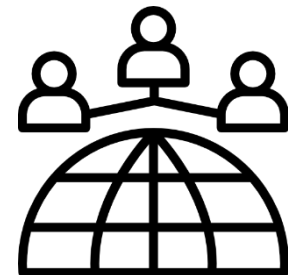
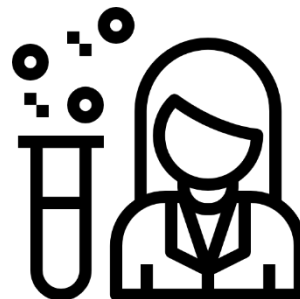
>5 million requests for data

>30 times more than 2011-12



Sharing expertise

Created a legacy by training hundreds of current and next generation of marine experts.





Challenges



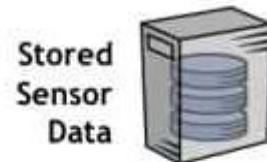
Satellite-borne
Imaging device



Environmental
Monitor

Sensor Web Enablement

- All sensors reporting position
- All connected to the web
- All with metadata registered
- All readable remotely
- Some controllable remotely



Stored
Sensor
Data



Challenges

Marine environmental data are used by a broad range of users with disparate needs and priorities. Challenge is to be relevant to as many users as possible.



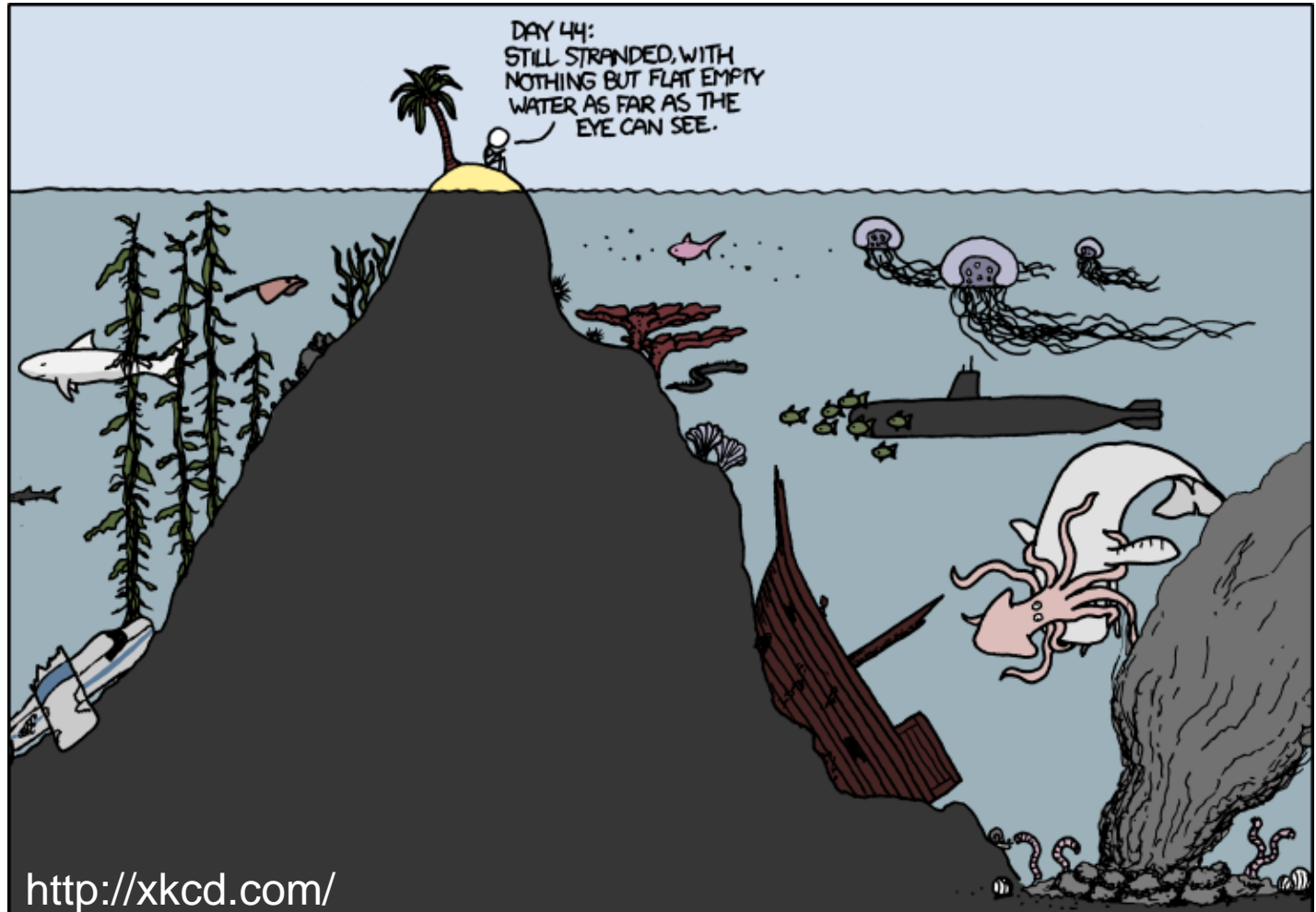


Aspiration

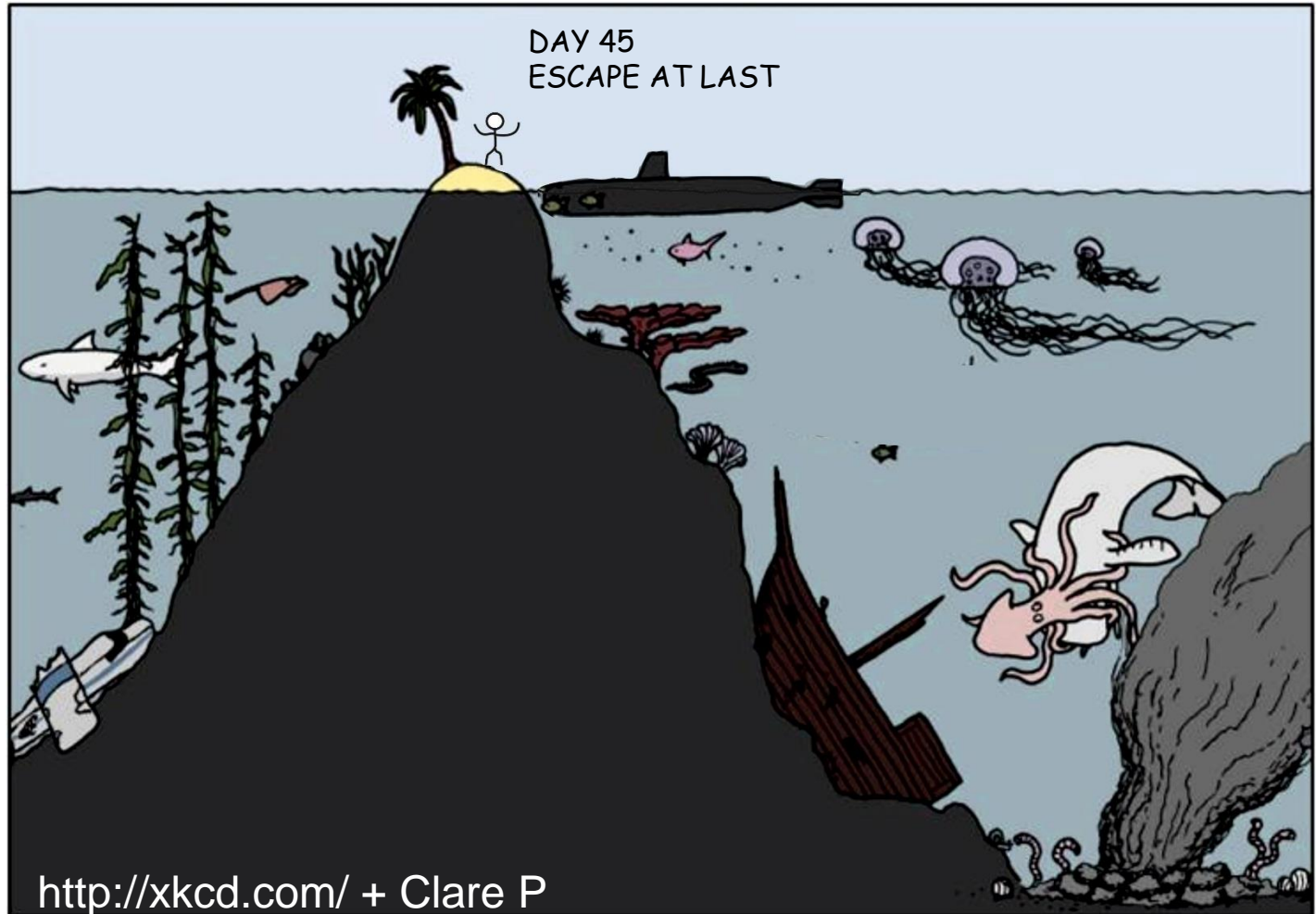
I want access to data within '2 clicks' of finding it



There's data out there, but we can't always see it



<http://xkcd.com/>



<http://xkcd.com/> + Clare P





How can I get involved?

I want to find more marine data

I want to open up access to my data

I want to improve data management

Become a MEDIN partner

Visit website medin.org.uk

Email: cfpo@bodc.ac.uk





Building partnerships

A network of over 50 partners committed to providing access to, and stewardship of, UK marine data



THE CROWN
ESTATE

PEELPORTS
GROUP



Ordnance Survey
Association of
AMB

Maritime &
Coastguard
Agency

THAMES ESTUARY
PARTNERSHIP

The Archive for Marine
Species and Habitats Data



Institut
Marine Engineering
Science & Techno



United Kingdom
Hydrographic Office

SEPA
Scottish Environment
Protection Agency

The Scottish
Government
Riaghaltas na h-Alba

IMAR

Cyfoe Natur
Cymru
Natur Resol

Marine
Management



University of the
Highlands and Islands
Centre for Remote
and Rural Studies

OceanEcology



SEtech

Met Office

wessex
archaeology online

Ministry
of De

SAMS

EWABLE



Ministry
of De

RES

eanWise

Titan Environmental
Surveys Limited

NERC
SCIENCE OF THE
ENVIRONMENT

power for good

1
RC
1908-2008