



COMPASS

COLLABORATIVE OCEANOGRAPHY AND MONITORING
FOR PROTECTED AREAS AND SPECIES

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Yesterday....



Image credit: Marine Scotland Science



EuroGOOS

European Global Ocean
Observing System



Global Earth Observation System of Systems





UK-IMON International Workshop on New Monitoring Technologies

**A workshop to
prioritise future
investment in new
monitoring
technologies**

UK-IMON 2013

*National Oceanography
Centre, Southampton, UK*



Introduction



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One contribution of 8 to a Theme Issue
'A prospectus for UK marine sustained
observations.'

Sustained UK marine observations. Where have we been? Where are we now? Where are we going?

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This introduction traces the earliest interaction of ancient humans with their marine environment, through marine explorations in the Middle Ages and Renaissance, to the development of early marine science in the Enlightenment. This sets the scene for how marine observations developed in the modern era and explains the status of today's marine observation networks. The paper concludes with an assessment of the future needs and constraints of sustained marine observation networks and suggests the lessons from a long history might be the key to the future.



Image credit: AFBI



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Today....



Marine Institute
Foras na Mara



The Scottish Government
Riaghaltas na h-Alba

marinescotland
science





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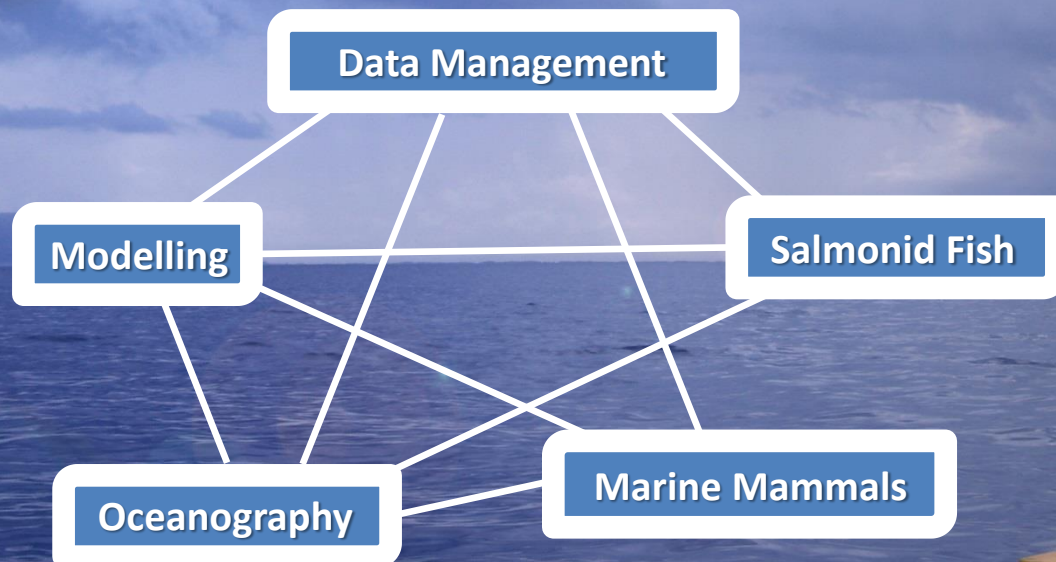




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A Network of moorings

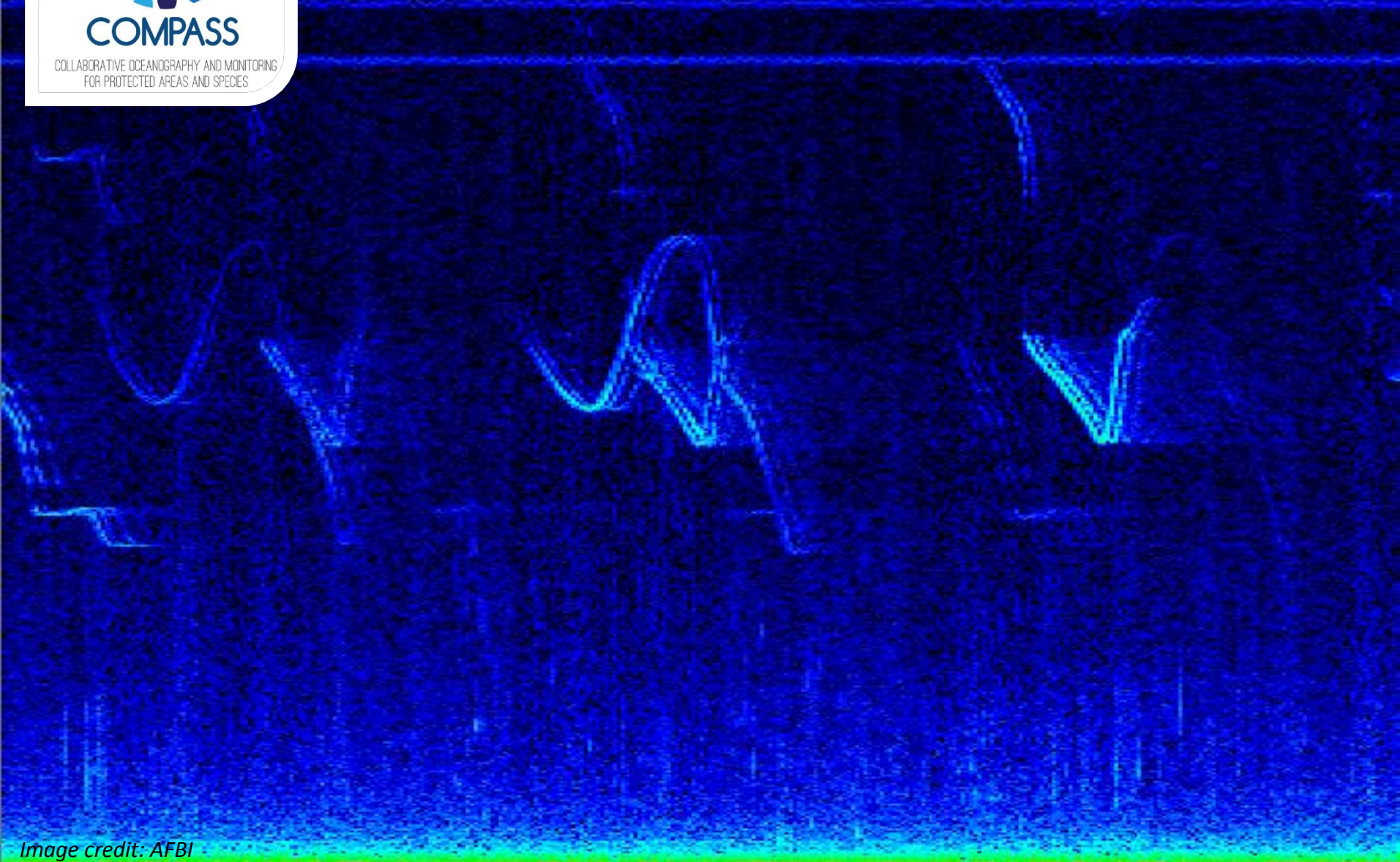




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A Network of moorings





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A Network of moorings

-  WP6: Acoustic Monitoring (Marine Mammals/MSFD)
-  WP6: Acoustic Monitoring (Seals only)
-  WP3: Oceanographic monitoring
-  WP3: Proposed Glider Track
-  WP5: Acoustic receivers (Salmonids)
-  Proposed Porpoise SACs
-  Current and proposed MPA & SPA boundaries
-  North Atlantic slope water
-  Coastal current

0 25 50 100 Miles

Image credit: SAMS



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Oceanography





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Data Management

IRELAND'S DIGITAL OCEAN



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Salmonid Fish



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Marine Mammals



Modelling

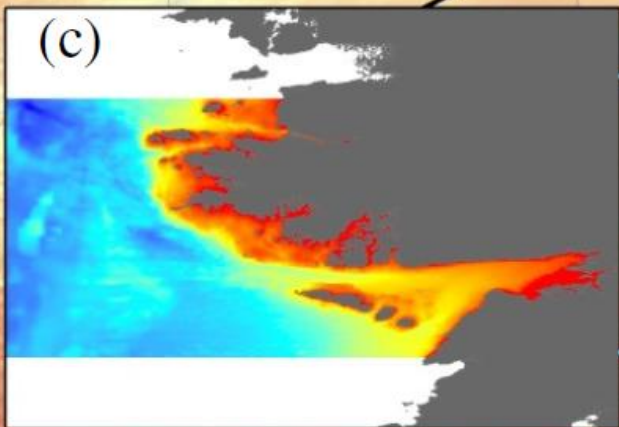


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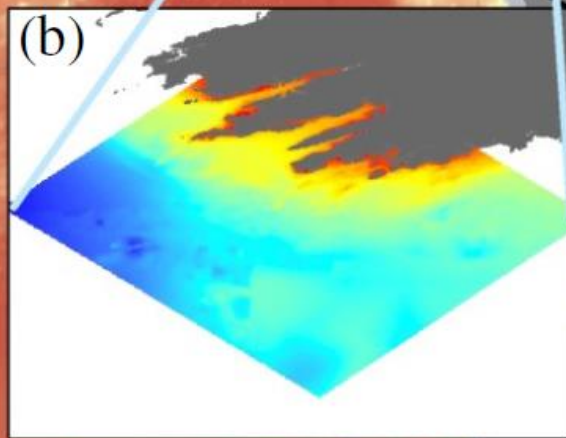
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(a)

(c)



(b)





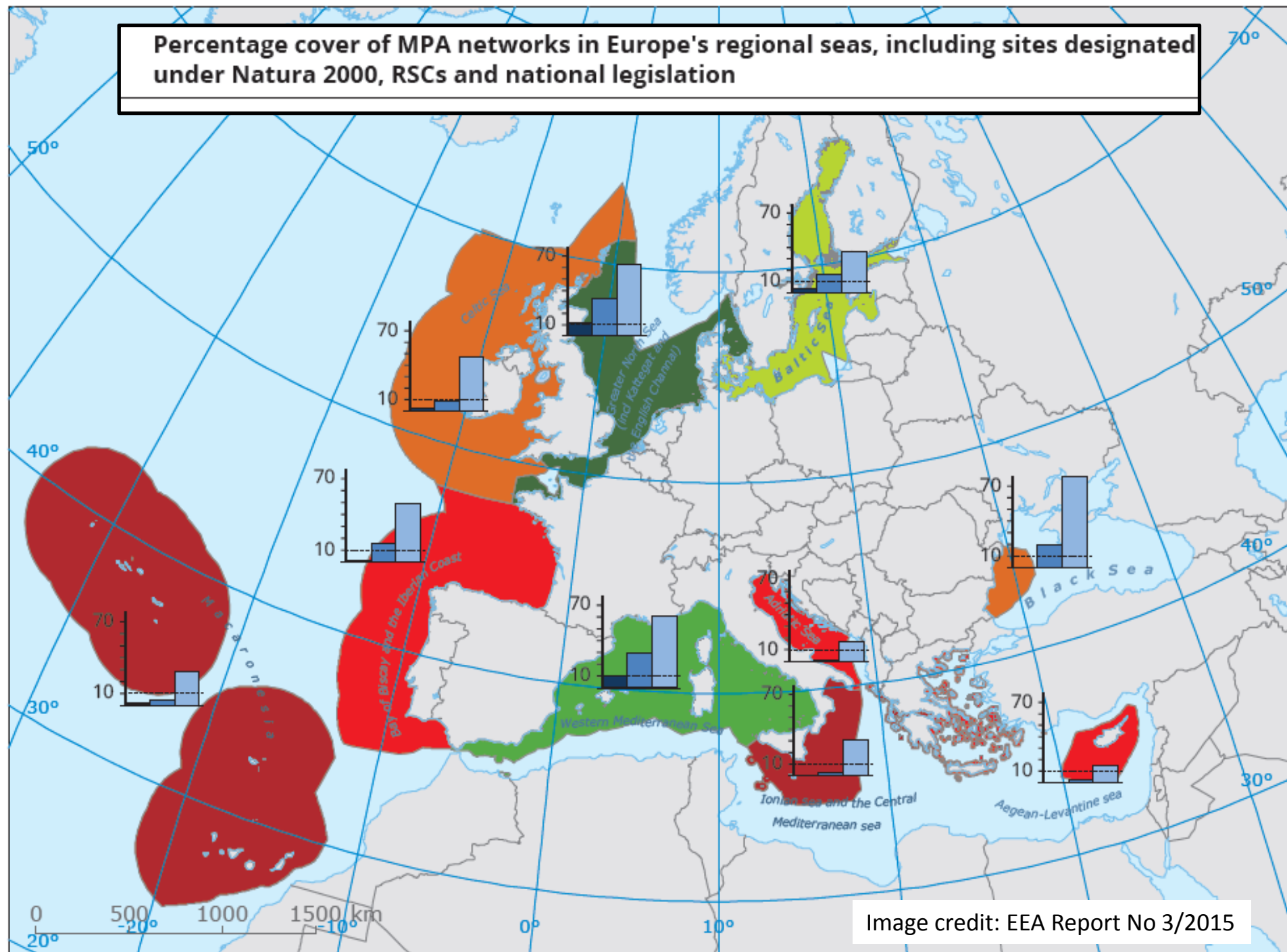
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Tomorrow....



Percentage cover of MPA networks in Europe's regional seas, including sites designated under Natura 2000, RSCs and national legislation





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