



# atlas

UNDERSTANDING DEEP ATLANTIC ECOSYSTEMS



## Effects of changing ocean regimes on deep-sea benthos on the Scottish continental shelf and slope

### ATLAS 2<sup>ND</sup> General Assembly

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University of Edinburgh

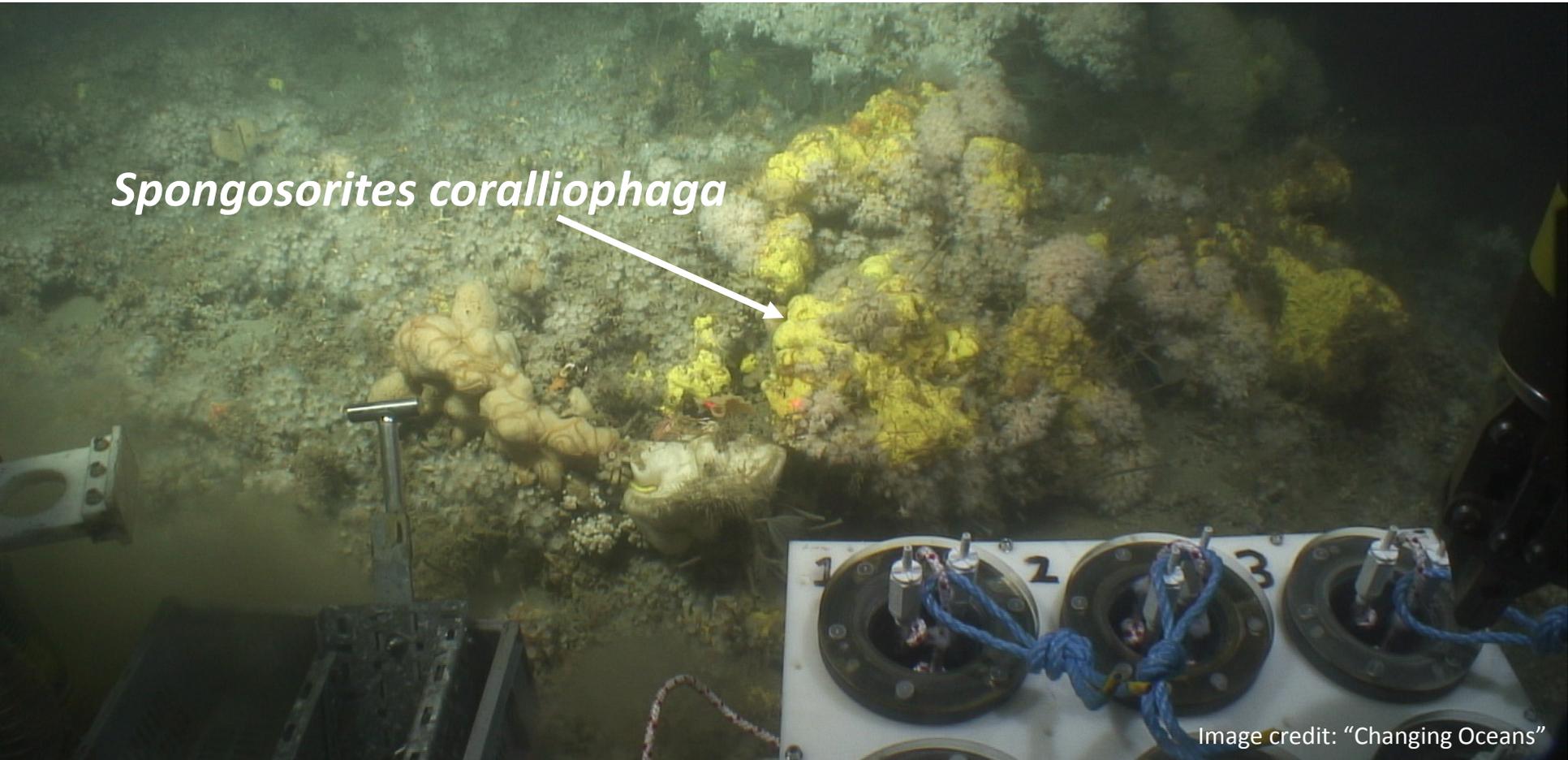


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# Introducing myself



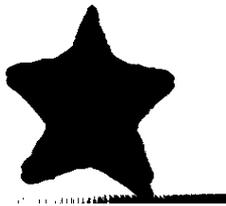
*Spongosorites coralliophaga*





## My role in the project

### Scottish shelf & continental slope macrobenthos



*Pontaster tenuispinus*



*Aristias nealectus*



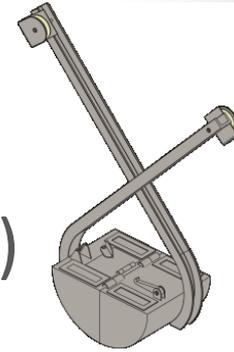
Image credit: Georgios Kazanidis /www.zeiss.com





# Mingulay macrobenthos

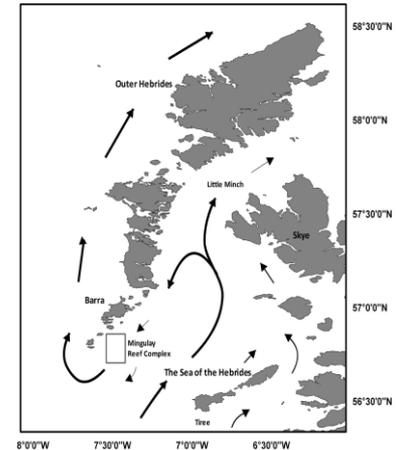
Sorting & identification of samples ( $n=60$ )



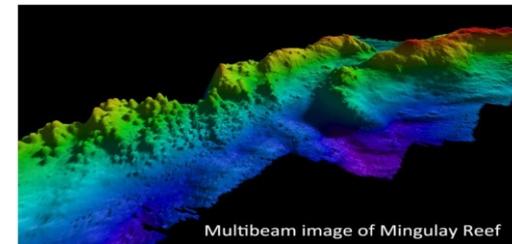
Hydrography & Geomorphology

North Atlantic Oscillation

D3.4 – Ocean/hydrographic controls on biodiversity and biogeography **(30 Apr 19)**



Moreno Navas et al. (2014), PLoS One



Multibeam image of Mingulay Reef  
Image credit: www.lophelia.org

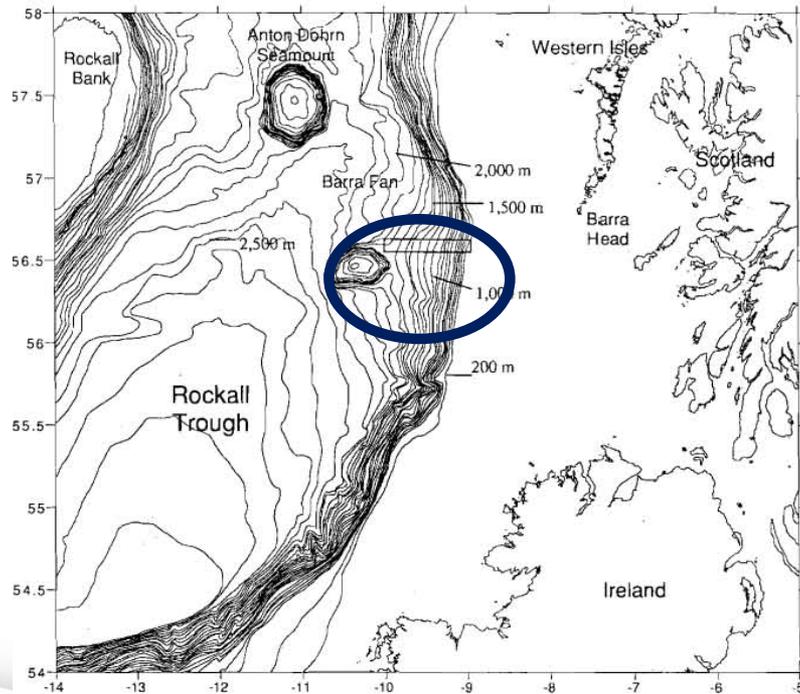


# Hebrides Terrace slope macrobenthos

## Atlantic Multi-decadal Oscillation (AMO)



D3.4



Gage et al. (2000), Hydrobiologia



Sorting & identification  
of samples ( $n=13$ )

1970s/1980s

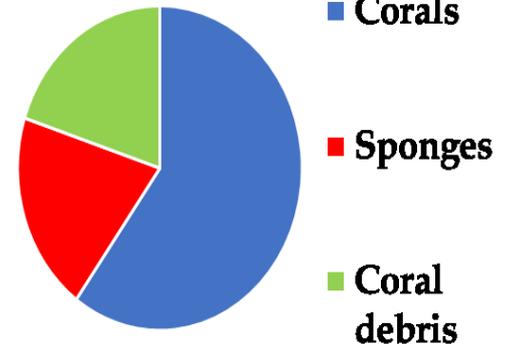
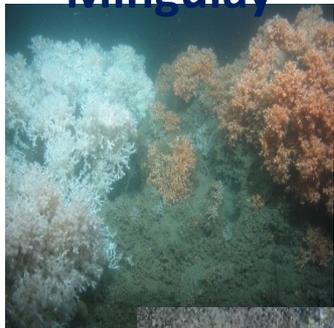
2012



## My role in the project

### Scottish shelf & subarctic regions

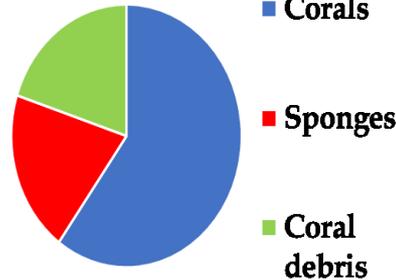
Mingulay



Faroe Shetland Channel



# Good Environmental Status (GES)



GES indicators  
GES assessment

D3.3 – Good Environmental Status (GES) assessments (31 Oct 18)

I Status and biodiversity



# Thank You!



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