## MareFrame











- Founded in 1495
- 5<sup>th</sup> oldest in UK
- 5 Nobel laureates
- 15,000 students
- School of Biological Sciences
  - 300 researchers
  - Ecology & Evolution
  - Env. Physiology
  - Bio-interactions soil
  - 2 marine labs





## Relevant expertise of staff

**Paul Fernandes BSc Marine Biology** PhD Marine Ecology **Fisheries scientist** 17 y Marine Lab Aberdeen Fish survey technology Stock assessment **Fisheries management University Reader since 2011** Fisheries ecosystems and advanced survey technologies [FEAST]

Alan Baudron
BSc Marine Biology
PhD Marine Ecology
Fisheries scientist
University Postdoc since

2012 Ecosystem modeller

## **Mail**Online



Is global warming causing fish to SHRINK? Temperature change has caused haddock and herring to reduce in size by a third, claim scientists

- · Fish, such as whiting and plaice, have shrunk by up to 29% over 38 years
- This coincides with increase in water temperatures of between 1°C and 2°C









## **Contribution to MareFrame**

Paul Fernandes Member PMG

FISHSUMS ecosystem model



Lead WP 4 Ecosystem modelling and assessment

Case study lead: West of Scotland







