

Data Management in BODC

A (VERY) BRIEF OVERVIEW

Robin McCandliss



**National
Oceanography Centre**
NATURAL ENVIRONMENT RESEARCH COUNCIL





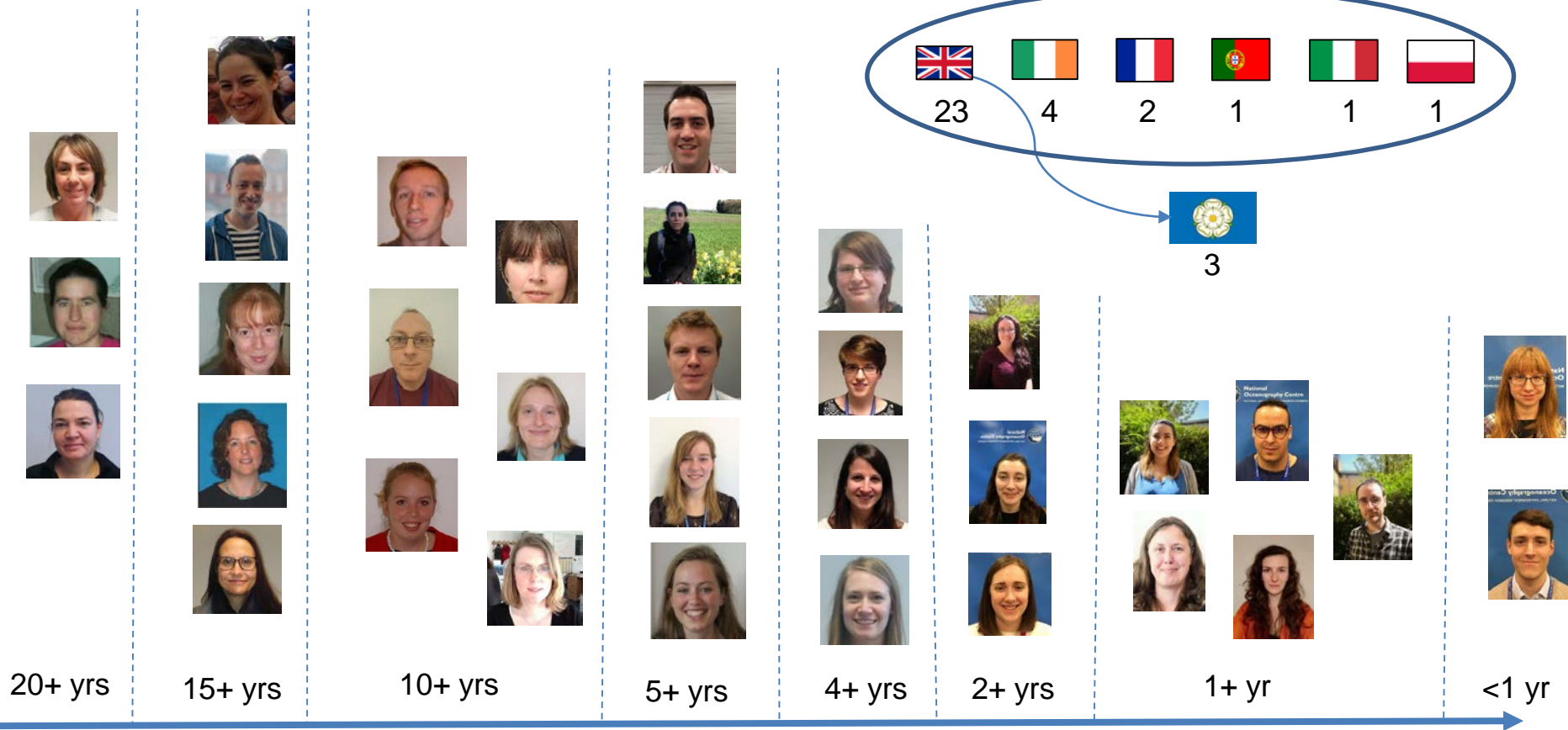
noc.ac.uk

BODC

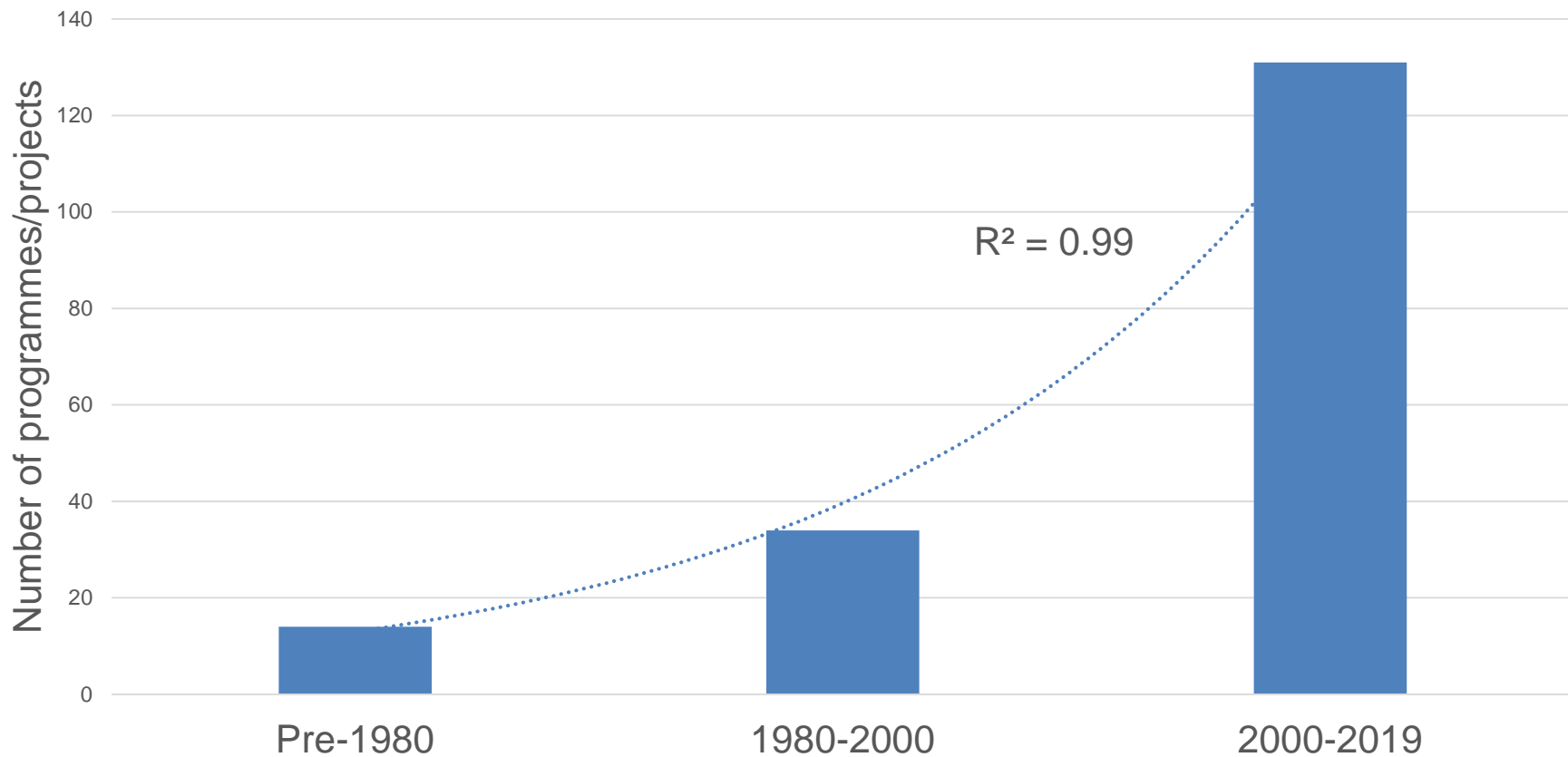
Data Management

Team

- 2019 • 33 people (25 Female, 8 Male)
- BSc, MSc, PhD Marine Science
- Tenure: avg 9.2 yrs | min = 0.25 | max = 29.3
- >303 collective years of expertise!
- Nationality: 32  1 



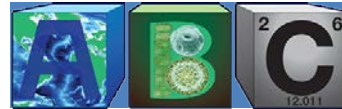
Growth in data management projects





DIMES

UK Ocean Acidification



Atlantic BiogeoChemical Fluxes



UK Tide Gauge Network



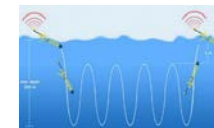
Biogeochemical global cycles



SYSTEM OF INDUSTRY METOCEAN DATA FOR THE OFFSHORE AND RESEARCH COMMUNITIES



MERMAN





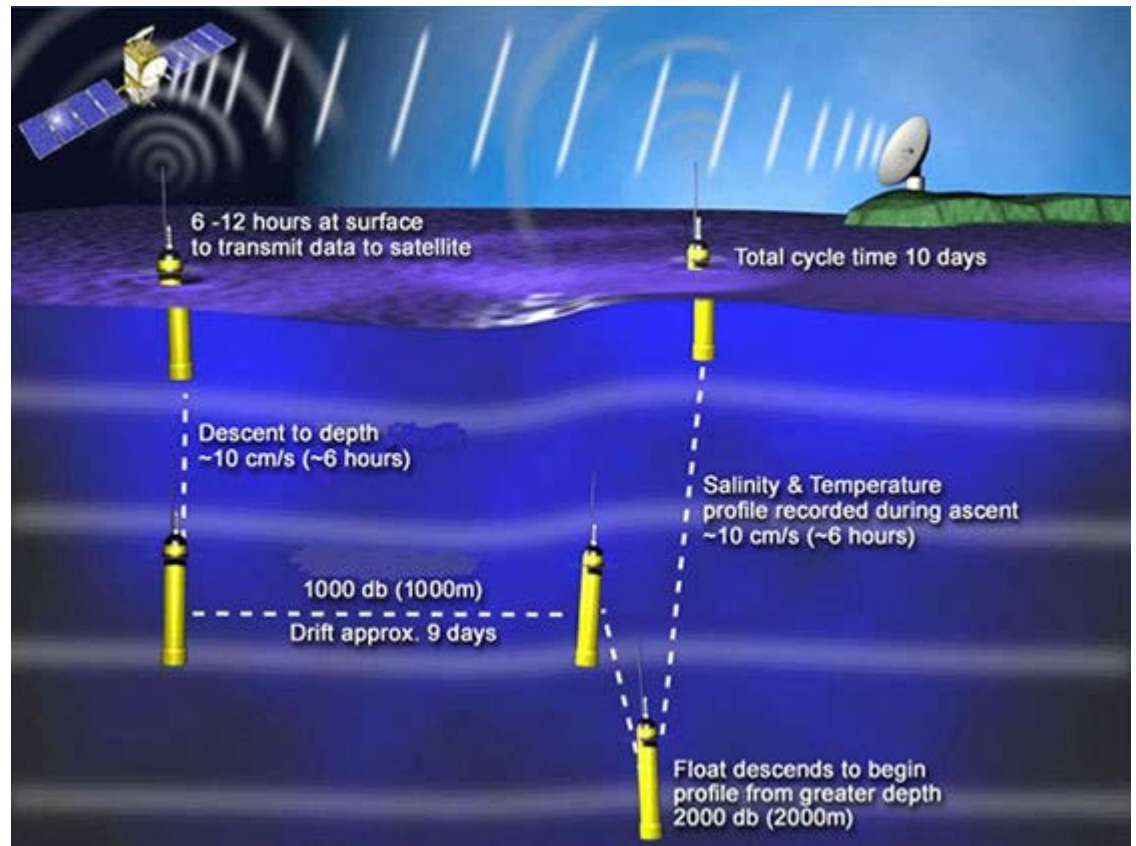
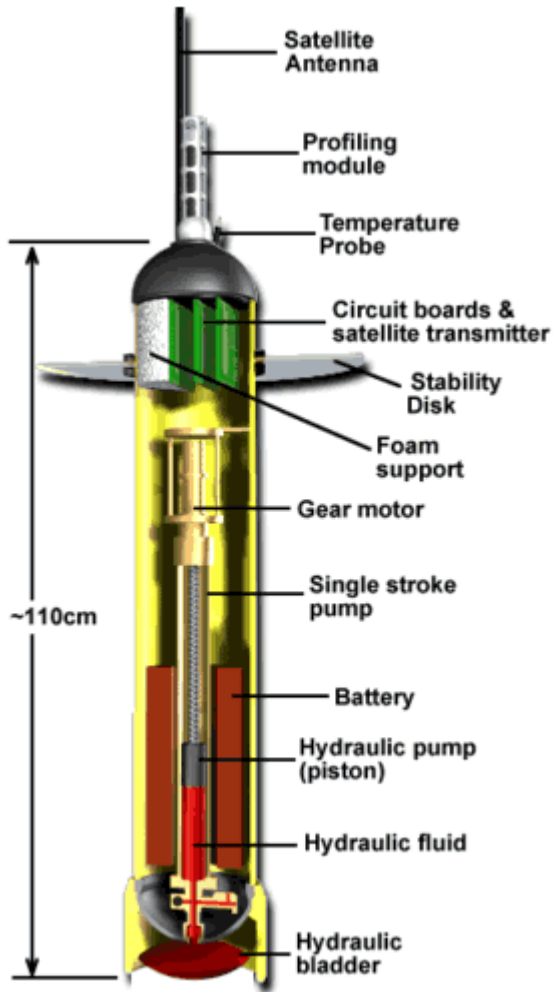
BODC's contribution to Argo

BODC Argo Team contribution to BODC 50th Celebration
Wednesday 8th May

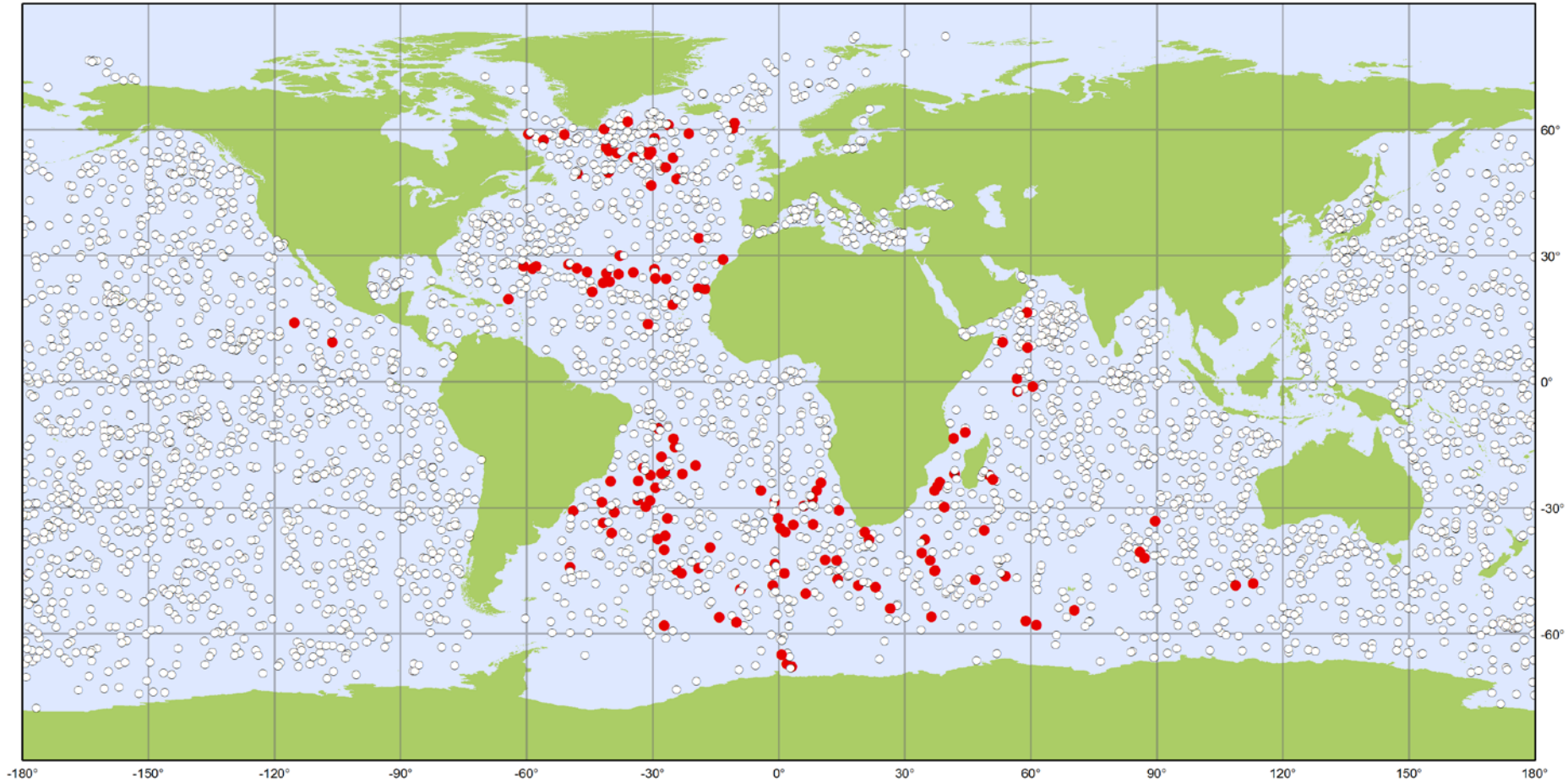
Author: Matt Donnelly

Argo Mission

Core, Deep, BGC



UK's contribution to Argo



Argo

UK & Mauritius

March 2019

Latest location of operational floats (data distributed within the last 30 days)

○ OTHER (3749) ● UK (142)



BODC's Contribution to Argo

UK DAC

Data Assembly Centre

- Retrieval and decoding of raw data
- Quality control near-real time data
- Generate Argo netCDF exchange format
- Supply to WMO Global Telecommunications System (GTS) for forecasting
- Supply to Argo Global Data Assembly Centres for science use

UK DMQC

Delayed-Mode Quality Control

- Argo Delayed-mode Quality Control (DMQC) to provide climate research grade data
- Core (CTD) and biogeochemical data
- Developing, testing and using QC tools

S ARC

Southern Ocean Argo Regional Centre

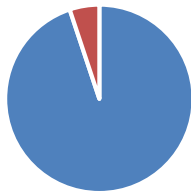
- Regional data quality assessments
- Develop the Argo reference CTD database
- Development of array in Southern Ocean
- Support DMQC for programmes that do not have capacity
- Coordinating partner with AWI, CSIRO, MBARI

BODC's Contribution to Argo

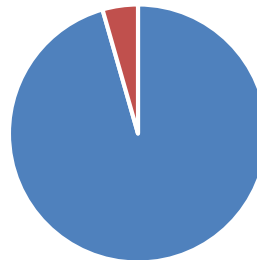
Argo data management for



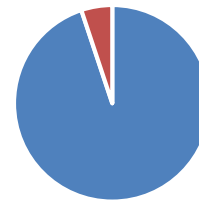
140,211 profiles in total



686 floats



89,118 delayed-mode profiles



■ Rest of world ■ BODC