

2025 Curriculum Vitae: Prof. Paul Halloran

Date of Birth: 26 October 1981
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Education

2005—2008: Ph.D Oxford University Department of Earth Science. Thesis title: Rapid Changes in the Global Carbon Cycle

2000—2004: MEarthSci Oxford University Department of Earth Sciences

Employment

2013—present: Lecturer to Professor

University of Exeter, Collage of Life and Environmental Sciences Exeter, UK: Research and teaching spanning physical, chemical and biological climate and oceanography and Earth System science

2008—2013: Scientist then Senior Research Scientist

Ocean Biogeochemistry, Met Office Hadley, Exeter, UK: Responsible for developing, running and analysing the ocean carbon cycle, ecosystem, and related components of the Hadley Centre's models.

Professional experience

- **Publications:** 60 published. Including publications in Nature, Science, Nature Geoscience, Nature Climate Change. <https://orcid.org/0000-0002-9227-0678>
- **Papers reviewed for:** Multiple Nature group journals, GRL, PLoS ONE, Ecological Applications, Antarctic Science, Global Change Biology, Geochimica et Cosmochimica Acta, Cell and more.
- **Proposals reviewed:** >20 NERC standard grants and > 20 fellowships, Swiss HPC grant.
- **Invited Committees:** Member of the Programme Advisory Group for the UK Ocean Acidification Programme, Member of NERC Peer Review College for Standard Grants and NERC Fellowships, Member of the National Oceanography Centre External Evaluation Panel
- **Teaching:** *Convenor:* The Ocean and Climate (level 3), *Convenor:* ESS Our Changing Planet (level 1), Methods and Concepts (level 2), Research Design (level 2), Climate Change Impacts and Feedbacks (level 4),
- **PhD Supervision:** (*Lead*) G. Hooper, J. Atkins, B. Arellano, G. Manville, J. Mcwhorter, A. Lebehot, S. Holmes, *Co-Supervisor* L. Kwiatkowski. M. Couldry
- **PDRA supervision:** A. Lebehot, T. Tourdino, F. Garry, I. Saygu, B. Arellano Nava
- **Scientific and Line management:** Project managers, technical staff, academic staff and research staff
- **Summer School Teaching:** NCAS Climate Modelling Summer School (2015), NERC Greenhouse Gas Summer School (2015), Exeter International Summer School (2012), ARAMAC International (2015)

Grants

- 2026 **OFGEM SIF** The Green Molecule Project, Halloran Exeter PI
- 2025 **Carbon to Sea Initiative:** Social Licence for engineered marine Carbon Dioxide Removal. Halloran PI
- 2025 **NERC:** MCCLOUD, modelling SRM impacts. Halloran Co-I
- 2024 **EPSRC IAA**, £30k: Monitoring, verifying and regulating marine CDR. Halloran PI.
- 2023 **CO₂RE**, £50k: Carbon Removal: Efficient Pre-treatment for Electrochemistry. Halloran PI.
- 2022 **CONVEX**, £20M: Sea Carbon Unlocking and Removal. Halloran Co-I.
- 2022 **BEIS/DESNZ**, £3M: SeaCURE Phase 2: Sea Carbon Unlocking and Removal. Halloran PI.
- 2021 **NERC**, £250k: Biology's Role In ocean Carbon Storage – a gap analysis. Halloran Co-I.
- 2021 **BEIS**, £250k: SeaCURE: Sea Carbon Unlocking and Removal. Halloran PI.
- 2020 **NERC Directed** International £100K: GRIP: Global Reef Impact Projections, NE/V00865X/1. Halloran PI.

- 2020 **EU H2020** Synergy grant, £10.5M, £2.9M to Exeter: SEACHANGE Marine ecosystem impacts/driver of major human transitions. Halloran Co-I.
- 2019 **NERC Industrial Case**, £75k: OMG The Southern Ocean Bias: Observing and Modelling trace Gases to explore the Southern Ocean temperature Bias, NE/R007586/1. Halloran PI.
- 2019 **EU H2020** £8.2M, £85k to Exeter: COMFORT: Our Common Future Ocean in the Earth System – quantifying Coupled Cycles of Carbon Oxygen and nutrients for Determining and Achieving Safe Operating Spaces with Respect to Tipping Points. Halloran Exeter PI.
- 2016 **NERC/DECC**, £120k: 'CURBCO²: Carbon Uptake Revisited - Biases Corrected using Ocean Observations, NE/P015042/1. Halloran PI.
- 2016 **NERC Large Grant**, £1.4M to Exeter: Robust Spatial Projections of Real-World Climate Change, NE/N018486/1. Halloran Co-I.
- 2015 **NERC Industrial Case**, £75k: Models to molluscs - Using bivalve reconstruction techniques in the N. W. European shelf to validate long-term variability simulated but coastal-shelf biogeochemistry models, NE/M00967X/1. Halloran PI.
- 2015 **NERC Standard Grant**, £750k, £265k to Exeter: CLAM – Reconstructing and understanding the drivers of climate variability over the past millennium, NE/N001435/1. Halloran Exeter PI.

Selected Keynotes/Invited Talks

Institute of Physics, Oxford University, Bristol University, Cardiff University, Royal Society and Australian Academy of Science: Frontiers of Science, Yale.

Selected Policy and Outreach

- **2025:** Evidence week, UK Parliament
- **2025:** Led report to Defra on the marine impact risks and regulatory fitness around marine CDR
- **2024-2025:** Advised Defra on LC/LP preparation
- **2022-2025:** Member of the UK government GGR business model expert group.
- **2012:** Report to DECC and Defra: P.R. Halloran and J. Lowe, The 2007-2012 Hadley Centre Climate Programme. The end of contract report describing the outcomes of the (approximately) £80 million Hadley Centre Climate Programme to funders
- **2011:** Report for WWF: Hartley et al. Reviewed by P.R. Halloran, Impacts of climate change on ecosystems and biodiversity
- **2010:** Requested talk by Government Chief Scientific Adviser. O. Boucher and P.R. Halloran; CO₂ vs non-CO₂ forcings of climate change; CO₂ acidification

Publications: see <https://paulhalloran.github.io/publications/>