



DARYL BURDON BSc MSc PhD AFHEA

PERSONAL STATEMENT

Daryl has over 22 years of experience in marine research, teaching and consultancy having previously been employed as the Senior Ecological Economist at the Institute of Estuarine and Coastal Studies (IECS) at the University of Hull (2002-2019). Initially specialising in estuarine and marine biology Daryl broadened his expertise and has published in the fields of ecological economics, natural capital, ecosystem services, ocean literacy, stakeholder engagement, marine conservation and management. Daryl has developed an international reputation in linking interdisciplinary marine science with society in responding to conservation and management challenges facing our coasts and seas. Daryl has a wealth of experience in managing and undertaking interdisciplinary projects and has developed an international reputation for publishing and presenting his research. Daryl has secured research and consultancy funding from a range of public and private organisations, including the European Commission, UK Research Councils, UK Government Departments, statutory agencies, statutory nature conservation bodies, charities, industry and academia. Daryl has enthusiasm for the student experience and teaching, having taught both undergraduate and postgraduate students and is an Associate Fellow of the Higher Education Academy. Daryl is a member of the UK Marine Science Co-ordination Committee Marine Social Science Task Group, a JNCC Business Associate, Seafish Expert Panel and locally Chairs the Humber Nature Forum. Since August 2019, Daryl is the Director of Daryl Burdon Ltd. Marine Research, Teaching and Consultancy (www.darylburdon.co.uk).

EMPLOYMENT HISTORY

- Director, Daryl Burdon Ltd. Marine Research, Teaching and Consultancy (August 2019 to date).
- Senior Ecological Economist, IECS, University of Hull, UK (2014 to July 2019).
- Estuarine Ecologist & Socio-Economist, IECS, University of Hull, UK (2005-2014).
- Estuarine Biologist, IECS, University of Hull, UK (2002-2005).
- Benthic Ecology Research Assistant, University of Stirling, UK (3 month fixed-term, 2000).

EDUCATION AND TRAINING

- PhD by published work in Applied Marine Science, University of Hull, UK, 2016.
- MSc Estuarine & Coastal Science & Management, University of Hull, UK, 2002.
- BSc (Hons) Marine Biology (2:1), University of Stirling, UK, 2001.
- Associate Fellow of the Higher Education Academy (AFHEA), April 2019.
- SCOTSAC (Third Class) Sports Diver (awarded 1999; 84 logged dives).
- Full clean driving licence (since November 1996).



RESEARCH & CONSULTANCY

Daryl has secured research and consultancy funding from a range of public and private organisations, including the European Commission (FP5-FP7, H2020, Horizon Europe), UK Research Councils (NERC, ESRC), UK Government Departments (Defra), statutory agencies (Marine Management Organisation, Environment Agency, AFBI), statutory nature conservation bodies (Joint Nature Conservation Committee, Natural England, Natural Resources Wales), charities (The Wildlife Trusts, Ocean Conservation Trust, RSPB), industry (RWE npower, Northumbrian Water, Ørsted) and academia (Universities of Aberdeen, East Anglia, Hull). Daryl has experience of managing large interdisciplinary research projects, for example: The Northern Ireland Marine Natural Capital (NI-MANACA) project (2020-2022, £67k), The NERC-funded oil and gas decommissioning in MPAs project (DECOM-MPA) (2017/18, £160k), the EU-funded VECTORS project (2011-2015, €295k), and the NRW-funded Burry Inlet cockle mortality investigation (2010-2012, £200k). Daryl is an experienced workshop designer and facilitator, having developed and facilitated a number of participatory mapping and stakeholder engagement workshops working with coastal communities, policy-makers and planners across the UK and internationally (18 workshops to date). Daryl has recently designed and ran a series of workshops for the Suffolk Marine Pioneer Project, facilitated a series of online workshops for the Environment Agency Abu Dhabi and the RSPB, and led a project valuing the Northern Ireland Marine Environment (NI-MANACA). Daryl is currently engaged in two collaborative research projects the EU-funded MARBEFES project (www.marbefes.eu/) and the NERC/ESRC-funded Sea the Value project (www.pml.ac.uk/science/Projects/Sea-the-Value) and delivers a BSc module in Environmental Sustainability at the University of Hull and teaches on multiple MSc courses at University of Aberdeen.

RESEARCH PUBLICATIONS AND PRESENTATIONS

Daryl has an extensive publication record: 31 peer-reviewed papers in international journals, 6 book chapters, and over 100 research and consultancy reports (*H-index*: 26; over 4,000 citations on Google Scholar). In addition to his written outputs, Daryl has presented his research at over 55 local, national and international scientific meetings and conferences. Full details are provided in his list of publications (<https://darylburdon.co.uk/publications/>). Recent publications (2017-2023) include:

Jernberg, S., Kuosa, H., Boström, C., **Burdon, D.**, Haavisto, F., Heiskanen, A-S., Kiviluoto, S., Kuningas, S., Kunasranta, M., Uusitalo, L., Villnäs, A., Westerbom, M. and Kostamo, K., 2024. Linking natural capital stocks with ecosystem services in the Northern Baltic Sea. *Ecosystem Services*, 65, February 2024, 101585. <https://doi.org/10.1016/j.ecoser.2023.101585>

Pétilion, J., (+35 authors), 2023. Top priorities for global saltmarsh restoration, conservation and ecosystem-service research. *Science of the Total Environment*, Volume 898, 10 November 2023, 165544.

McKinley, E., **Burdon, D.** & Shellock, R.J., 2023. The evolution of ocean literacy: A new framework for the United Nations Ocean Decade and beyond. *Marine Pollution Bulletin*, 186, January 2023, 114467.

Burdon, D., Potts, T., Barnard, S., Boyes, S.J. & Lannin, A., 2022. Linking natural capital, benefits and beneficiaries: The role of participatory mapping and logic chains for community engagement. *Environmental Science & Policy*, 134, pp. 85-99.



- Burdon, D.**, Barnard, S., Strong, J.A., & Atkins, J.P., 2022. An Assessment of Northern Ireland's Marine Natural Capital (NI-MANACA). Report to AFBI by Daryl Burdon Ltd., Willerby, UK (Report No. DB Ltd. 017/2020).
- Burdon, D.**, McKinley, E., Carter, K. & Birch, J., 2022. Mapping needs and priority areas to assist in delivery of RSPBs 2030 strategy: UK, England, Scotland, Wales and Northern Ireland workshops. Internal reports for RSPB, UK. (Report No. DB LTD 025/2022).
- Burdon, D.**, McKinley, E. & Potts, T., 2021. Understanding the perspectives and needs of marine decision-makers with regard to the Natural Capital Approach. Report to Defra by Daryl Burdon Ltd., Willerby, UK (Report No. DB Ltd. 019/2021) – Defra Internal (Final), 70pp.
- Burdon, D.**, 2020. Review of marine cultural, social and heritage indicators. Report ME5118 for Defra by Daryl Burdon Ltd., Willerby, UK (Report No. DB LTD 005/2019).
- Burdon, D.** & McKinley, E., 2020. Understanding ocean literacy and ocean climate-related behaviour change in the UK: Survey design, question development and testing. Report produced for Defra by Daryl Burdon Ltd., December 2020.
- McKinley, E. & **Burdon, D.**, 2020. Understanding ocean literacy and ocean climate-related behaviour change in the UK: An Evidence Synthesis. Report produced for the Ocean Conservation Trust and Defra. October 2020.
- Burdon, D.** & Potts, T., 2020. Participatory mapping of natural capital and benefits: method guidance document. Report to Marine Management Organisation and Suffolk Marine Pioneer Project by Daryl Burdon Ltd., Willerby, UK (Report No. DB LTD 007/2019c).
- Burdon, D.**, 2020. Marine cultural, social and heritage indicators workshop report. Internal report for Defra by Daryl Burdon Ltd., Willerby, UK. February 2020 (Report No. DB LTD 006/2019).
- McKinley, E., Pagès, J.F., Alexander, M., **Burdon, D.** & Martino, S., 2020. Uses and management of saltmarshes: A global survey. *Estuarine, Coastal & Shelf Science*, 243 (2020) 106840.
- Burdon, D.**, Potts, T. McKinley, E.J., Lew, S., Shilland, R., Gormley, K., Thomson, S. & Forster, R., 2019. Expanding the role of participatory mapping to assess ecosystem service provision in local coastal environments. *Ecosystem Services*, 39, October 2019, 101009.
- Burdon, D.**, Barnard, S., Boyes, S.J. & Elliott, M., 2018. Oil and gas infrastructure decommissioning in marine protected areas: system complexity, analysis and challenges. *Marine Pollution Bulletin*, 135, pp. 739-758.
- Burdon, D.**, Boyes, S.J., Elliott, M., Smyth, K., Atkins, J.P., Barnes, R.A. & Wurzel, R.K., 2018. Integrating natural and social marine science to manage sustainably vectors of change: Dogger Bank transnational case study. *Estuarine, Coastal and Shelf Science*, 201, pp. 234-247.
- Elliott, M., **Burdon, D.**, Atkins, J.P., Borja, A., de Jonge, V.N. & Turner, R.K., 2017. "And DPSIR begat DAPSI(W)R(M)!" – a unifying framework for marine environmental management. *Marine Pollution Bulletin*, 118, pp. 27-40.
- Burdon, D.**, Potts, T., Barbone, C. & Mander, L., 2017. The matrix revisited: A bird's-eye view of marine ecosystem service provision. *Marine Policy*, 77, pp. 78-89.



TEACHING AND LEARNING

Daryl has enthusiasm towards the student experience and teaching, having taught undergraduate and postgraduate students at a number of UK Higher Education Institutions. Examples include:

- Environmental Sustainability - Module lead @ UHull (BSc, 2021-22/2022-23/2023-2024)
- MSc Sustainability Transitions – Invited lecturer @ Aberdeen Uni (MSc, 2021-2024)
- Introduction to Environmental Economics – Invited lecturer @ Aberdeen Uni (MSc, 2021-23)
- Environmental Partnership Management – Invited lecturer @ Aberdeen Uni (MSc, 2016-2021)
- Marine and Environmental Law and Policy – Invited lecturer @ UHull (BSc & MSc, 2018-2019)
- Marine Environmental Management - Invited lecturer @ UHull (MSc, 2018)
- Threats and Remedies in Aquatic Systems – Invited lecturer @ UHull (BSc, 2013-2017)
- Master of Marine Affairs – Invited lecturer @ Xiamen Uni, China (MSc, 2015)

Daryl has experience in supervising, hosting and examining undergraduate and postgraduate theses.

ESTEEM FACTORS

- Member of the Marine Science Coordination Committee Marine Social Science Task Group.
- Member of the Marine Social Science Network (#MarSocSci).
- Chair of the Humber Nature Forum.
- Member of the Humber Estuary Relevant Authority Group.
- Member of the Yorkshire Marine and Coastal Biodiversity Group (led by Yorkshire Wildlife Trust).
- Seafish Expert Panel.
- JNCC Business Associate.
- Reviewer of international scientific journals including: Marine Pollution Bulletin, Science of the Total Environment, Estuarine Coastal Shelf Science, People and Nature, Ecosystem Services, PeerJ, Ocean & Coastal Management, Marine Policy, Ecology & Society, Reviews in Aquaculture, Ecological Indicators, ICES Journal of Marine Science, Aquatic Conservation, Ecological Engineering, Journal of the American Water Resources Association.