



DARYL BURDON BSc MSc PhD AFHEA

PUBLISHED PAPERS (n=31):

1. Jernberg, S., Kuosa, H., Boström, C., **Burdon, D.**, Haavisto, F., Heiskanen, A-S., Kiviluoto, S., Kuningas, S., Kunnasranta, 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>
2. Pétilion, J., McKinley, E., Alexander, M., Adams, J.B., Angelini, C., Balke, T., Griffin, J.N., Bouma, T., Hacker, S., He, Q., Hensel, M.J.S., Ibáñez, C., Macreadie, P.I., Martino, S., Sharps, E., Ballinger, R., de Battisti, D., Beaumont, N., **Burdon, D.**, Daleo, P., D'Alpaos, A., Duggan-Edwards, M., Garbutt, A., Jenkins, S., Ladd, C., Lewis, H., Mariotti, G., McDermott, O., Mills, R., Möller, I., Nolte, S., Pagès, J.F., Silliman, B., Zhang, L., & Skov, M., 2023. Top priorities for global saltmarsh restoration, conservation and ecosystem-service research. *Science of the Total Environment*, 898, 10 November 2023, 165544, <https://doi.org/10.1016/j.scitotenv.2023.165544>
3. 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. <https://doi.org/10.1016/j.marpolbul.2022.114467>
4. **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. <https://doi.org/10.1016/j.envsci.2022.04.003>
5. 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. <https://doi.org/10.1016/j.ecss.2020.106840>
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7. **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. <https://doi.org/10.1016/j.marpolbul.2018.07.077>
8. **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. <https://doi.org/10.1016/j.ecss.2015.09.012>
9. 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. <https://doi.org/10.1016/j.marpolbul.2017.03.049>
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12. Hattam, C., Böhnke-Henrichs, A., Börger, T., **Burdon, D.**, Hajimicheale, M. Delaney, A., Atkins, J.P., Garrard, S. & Austen, M., 2015a. Integrating methods for ecosystem service assessment and valuation: mixed methods or mixed messages? *Ecological Economics*, 120, pp. 126–138. <https://doi.org/10.1016/j.ecolecon.2015.10.011>
13. Smyth, K., Christie, N., **Burdon, D.**, Atkins, J., Barnes, R. & Elliott, M., 2015. Renewables-to-Reefs? - Decommissioning options for the offshore wind power industry. *Marine Pollution Bulletin*, 90, pp. 247-258. <https://doi.org/10.1016/j.marpolbul.2014.10.045>
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24. Ressurreição, A., Gibbons, J., Bentley, C., **Burdon, D.**, Atkins, J.P., Kaiser, M., Austen, M., Santos, R., Dentinho, T.P., Zarzycki, T. & Edwards-Jones, G., 2012. Different cultures, different values: the role of cultural variation in public's willingness to pay for marine species conservation. *Biological Conservation*, 145, pp. 148-159. <https://doi.org/10.1016/j.biocon.2011.10.026>
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BOOK CHAPTERS (n=6):

1. **Burdon, D.**, Atkins, J.P. & Potts, T., 2024. Classification of Estuarine and Coastal Ecosystem Services. In: Baird, Daniel and Elliott, Michael (eds.) *Treatise on Estuarine and Coastal Science*, 2nd Edition, vol. 1, pp. 277-322. Oxford: Elsevier.
2. Börger, T., Broszeit, S., Ahtiainen, H., Atkins, J.P., **Burdon, D.**, Luisetti, T., Murillas, A., Oinonen, S., Paltriguera, L., Roberts, L., Uyarra, M.C. & Austen, M.C., 2017. Assessing costs and benefits of measures to achieve Good Environmental Status in European regional seas: Challenges, opportunities and lessons learnt. In: Borja, A., Elliott, M., Uyarra, M. C., Carstensen, J., Mea, M., eds., 2017. *Bridging the Gap Between Policy and Science in Assessing the Health Status of Marine*



Ecosystems, 2nd Edition, pp. 461-480. Lausanne: Frontiers Media. doi: 10.3389/978-2-88945-126-5.

3. Turner, R.K., Schaafsma, M., Mee, L., Elliott, M., **Burdon, D.**, Atkins, J.P. & Jickells, T., 2015. Chapter 2. Conceptual framework. In: Turner, R.K. & Schaafsma, M. (Eds.) *Coastal zones ecosystem services: from science to values and decision making*. Studies in Ecological Economics, Volume 9, Springer, Switzerland.
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RESEARCH REPORTS (n=110+):

1. **Burdon, D.** & Potts, 2024. Cromarty Firth Workshop 3: Logic Chains. Report produced for the NERC/ESRC-funded Sea the Value Project, April 2024.
2. **Burdon, D.** & Potts, T., 2023. Cromarty Firth Workshop 2: Scenarios Assessments. Report produced for the NERC/ESRC-funded Sea the Value Project, December 2023.
3. Franco, A., **Burdon, D.**, Luisetti, T. & Pascual, M., 2023. Ecological and biodiversity valuation for input in natural capital physical accounts. Internal report produced for the Horizon Europe MARBEFES project, Milestone 33, September 2023.
4. Luisetti, T., Franco, A., Amorim, E., **Burdon, D.**, Di Gennaro, V., Turner, K., Ferrini, S., Fezzi, C., Notaro, S., Zhang, N., Rodriguez, F., Cahillane, A., Pascual, M., Forster, J., Crowe, T., Brannigan, J., Atkins, J. & Barnard, S., 2023. Draft MARBEFES method on ecological, economic and socio-cultural valuation. Internal report produced for the Horizon Europe MARBEFES project, Milestone 39, September 2023.
5. Turner, K., Luisetti, T., Di Gennaro, V., Ferrini, S., Fezzi, C., Notaro, S., Zhang, N., Rodriguez, F., Cahillane, A., **Burdon, D.**, Forster, J., Crowe, T. & Brannigan, J., 2023. Holistic natural capital accounts. Internal report produced for the Horizon Europe MARBEFES project, Milestone 35, August 2023.
6. Luisetti, T., **Burdon, D.**, Di Gennaro, V., Turner, K. & Ferrini, S., 2023. Developing Marine Natural Capital Accounts for the Broad Belt Transects (BBTs). Internal report produced for the Horizon Europe MARBEFES project, Milestone 37, August 2023.



7. Anbleyth-Evans, J., **Burdon, D.**, Potts, T. & van der Schatte Olivier, A., 2023. Cromarty Firth Workshop 1: Identification and mapping of features and benefits. Report produced for the NERC/ESRC-funded Sea the Value Project, July 2023.
8. Papadopoulou, N., Smith, C.J., Franco, A., Elliott, M., Borja, A., Andersen, J., Amorim, E., Atkins, J.P., Barnard, S., Berg, T., Birchenough, S., **Burdon, D.**, Claudet, J., Cormier, R., Galparsoro, I., Judd, A., Katsanevakis, S., Korpinen, S., Lazar, L., Liqueste, C., Loiseau, C., Lynam, C., Menchaca, O'Toole, C., Pedreschi, D., Piet, G., Reid, D., Salinas-Akhmadeeva, I.A., Stelzenmüller, V., Tamis, J., Uusitalo, L., & Uyarra, M.C., 2023. GES4SEAS Deliverable 2.1. Ecosystem management approaches based on a review of the activity-pressures-effects chain towards achieving Good Environmental Status in the Marine Strategy Framework Directive. 162 pp.
9. **Burdon, D.**, Barnard, S., Strong, J.A., & Atkins, J.P., 2023. 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).
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11. ECAP Consultancy Group. Heather Alpha Jacket Decommissioning Programme – Independent Review Group Final Report. ECAP-ENQ001-IRG. Report produced April 2022 for EnQuest Plc.
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14. **Burdon, D.** & McKinley, E., 2022c. Mapping needs and priority areas to assist in delivery of RSPBs 2030 strategy: Scotland workshop. 1 March 2022. Internal report for RSPB, UK. (Report No. DB LTD 025/2022c)
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17. GPC-GIS & IECS Ltd., 2021. Multi-entity workshops for Abu Dhabi state of environment dashboard. Final report produced on 14 December 2021 for Abu Dhabi Environment Agency.
18. **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.
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23. **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).
24. Elliott, M., Barnard, S., Boyes, S.J., **Burdon, D.**, Cutts, N.D., Franco, A. & Smyth, K., 2020. The framework and options for compensation for Marine Annex 1 habitats for offshore wind farms. Unpublished Report YBB875-F-2020, Report for Ørsted Wind Power NS, Strategic Environment Team (Contract No. 0456). University of Hull and International Estuarine & Coastal Specialists (IECS) Ltd., pp 1-115.
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27. **Burdon, D.**, Potts, T. & Boyes, S.J., 2019. Suffolk Marine Pioneer Scenarios Assessments. Report to Suffolk County Council prepared by IECS, University of Hull, Hull, UK.
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32. Boyes, S.J., Cutts, N., **Burdon, D.** & Thomson, S., 2019. *Tyne Estuary Edges Enhancement Study*. Report to Groundwork & Environment Agency (REF: YBB393b).
33. Cutts, N., Boyes, S.J., Thomson, S. & **Burdon, D.**, 2019. *Coquet Estuary Edges Enhancement Study*. Report to Environment Agency (REF: YBB418).
34. **Burdon, D.**, 2018. Assessing the value of natural capital and ecosystem services in supporting economic growth and social well-being in and around the Humber Estuary: Workshop Report. Impact Acceleration Fund – Pilot 2017/18, University of Hull, UK.



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36. Elliott, M. & **Burdon, D.**, 2018. An evidence-based approach for the effects of decommissioning options on Marine Protected Area conservation and ecosystem services (DECOM-MPA). NERC Innovation Report (Project Ref: NE/P016553/1).
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39. **Burdon, D.**, 2016. An interdisciplinary approach to marine management: Bridging the divide between natural and social sciences research. PhD by published work, University of Hull, UK.
40. Austen, M.A., Oinonen, S., Börger, T., Murillas, A., Atkins, J.P., Broszeit, S., **Burdon, D.**, Lockett, J., Luisetti, T., Nygård, H., Paltriguera, L., Rantajärvi, E., Roberts, L., Uyarra, M.C., 2016. Report on impacts on net socio-economic benefits of achieving GES and consequences of monitoring. D2.1 of the EU-funded FP7 DEVOTES project.
41. Forster, R., Strong, J.A., **Burdon, D.**, Barnard, S., Boyes, S.J. & Elliott, M., 2015. Evidence supporting the use of environmental remediation to improve water quality in the South Marine Plan Areas. A report produced for the Marine Management Organisation. MMO Project No: 1105.
42. **Burdon, D.**, Boyes, S.J., Elliott, M., et al., 2014. Policy and governance synthesis as a tool for stakeholders. FP7 – OCEAN- 2010. Project number 266445, VECTORS of Change in Oceans and Seas Marine Life, Impact on Economic Sectors. Deliverable D60.6. September 2014.
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45. Strong, J.A., **Burdon, D.** & Elliott, M., 2014. *An independent Quality Assurance of JNCC's evidence assessments for possible Tranche 2 rMCZs*. Report for the Joint Nature Conservation Committee by the Institute of Estuarine and Coastal Studies (IECS), University of Hull, Hull, UK, HU6 7RX.



46. Barnard, S., **Burdon, D.**, Strong, J. & Atkins, J.P., 2014. *The ecological coherence and economic and social benefits of the Northern Ireland MPA network*. Report to the Northern Ireland Marine Task Force (YBB238-F-2014).
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PRESENTATIONS (n=57):

1. *Update on Participatory Mapping Tasks*. Sea the Value Steering Group meeting, online, November 2023.
2. *The Matrix Approach and Future Scenarios in the Cromarty Firth*. Sea the Value Workshop 2, The National Hotel, Dingwall, November 2023.
3. *Training Workshop 3 - Identification and mapping of beneficiaries*. Sea the Value Training Workshop, The Lighthouse, Cromarty, September 2023.
4. *Training Workshop 2 – Future Scenarios Assessments*. Sea the Value Training Workshop, The Lighthouse, Cromarty, September 2023.
5. *Identification and mapping of the features and benefits of the Cromarty Firth*. Sea the Value Workshop 1, The National Hotel, Dingwall, June 2023.



6. *Shaping the Future of the Humber Nature Forum*. Humber Nature Forum Meeting, Barton-upon-Humber, November 2022.
7. *Participatory mapping: principles and practice*. NERC/ESRC Sea the Value project start-up meeting, London, October 2022.
8. *The Northern-Ireland Marine Natural Capital (NI-MANACA) Project*. JNCC Engagement Event on Marine Natural Capital, June 2021.
9. *Review of marine social, cultural and heritage indicators*. SSTG and SMMR joint webinar series, May 2021.
10. *Understanding the perspectives and needs of marine decision-makers with regard to the natural capital approach*. Defra workshop on Marine Natural Capital, March, 2021.
11. *Ocean Literacy Webinar Series Episode 1: Exploring Evidence*. Ocean Conservation Trust Webinar Series, January 2021.
12. *Evolution in Ocean Literacy – A Mechanism for Behaviour Change?* MASTS Annual Science Meeting 2020, online conference, October 2020.
13. *Introduction to natural capital, ecosystem services and benefits*. Seafish Workshop, The Royal Scots Club, Edinburgh. March 2020.
14. *Natural Capital Logic Chain and Tool Development*. Suffolk Marine Pioneer Workshop #3. Ipswich, February 2020.
15. *The Participatory Mapping Approach: A Case Study from the Suffolk Marine Pioneer Project*. Yorkshire Marine Nature Partnership Natural Capital Workshop Bridlington Spa, Bridlington. February 2020.
16. *Expanding the Role of Participatory Mapping to Assess Ecosystem Service Provision: A Case Study of Natural Capital in the Deben Estuary*. Valuing Nature Conference, Royal Society, London, October 2019 (Poster).
17. *Introduction to the Matrix Approach and Scenarios Assessments*. Suffolk Marine Pioneer Participatory Mapping Workshop #2. Ipswich, June 2019.
18. *Introduction to Ecosystem Services and Natural Capital*. Suffolk Marine Pioneer Participatory Mapping Workshop #1. Ipswich, March 2019.
19. *Valuation of MPAs and MPA networks – but what do we mean by value?* Invited speaker at the Northern Ireland Environment Week conference on Valuation of the Marine Environment in Northern Ireland. WWT Castle Espie, 27 September 2018.
20. *Participatory mapping and deliberation for the management of MPAs*. Society and the Seas Conference, Greenwich Maritime Centre, London, 6-7 September 2018.
21. *Developments and opportunities for ecosystem services and natural capital*. JNCC's Beyond the Coast Conference, University of Hull, Hull, 6-7 June 2018.
22. *Oil and gas infrastructure decommissioning in marine protected areas: system complexity, analysis and challenges*. Design for Decommissioning Workshop, Dynamic Earth, Edinburgh, 6 March 2018.



23. *Assessment of ecosystem service flows from Marine Protected Areas: The VNN matrix approach and beyond!* Valuing Nature Conference, University of Edinburgh, 19 October 2017.
24. *Ecosystem service concepts and applications: The matrix approach and beyond!* Invited Speaker, JNCC Internal Staff Workshop, Peterborough, 9 October 2017.
25. *Assessing decommissioning options for oil and gas infrastructure and their potential impacts on the integrity of Marine Protected Areas and the provision of ecosystem services.* MASTS Annual Science Meeting, Glasgow, 5 October 2017.
26. *Ecosystem Services: What are they and why are they important?* Moray Firth Marine Stakeholder Workshop, Wick, September 2017 and Aberdeen Bay Marine Stakeholder Workshop, Forvie NNR, Aberdeen, July 2017.
27. *Introduction to the matrix approach and ecosystem service Indicators.* Moray Firth Marine Stakeholder Workshop, Wick, September 2017 and Aberdeen Bay Marine Stakeholder Workshop, Forvie NNR, Aberdeen, July 2017.
28. *Development and application of the matrix approach to ecosystem service assessment.* Invited speaker at the Asia Pacific Economic Cooperation (APEC) Marine Centre, Xiamen, China, June 2017.
29. *Should we put a price on nature?* 'Pint of Science' event, The Deep Aquarium, Hull, May 2017.
30. *An evidence-based approach for the effects of decommissioning options on Marine Protected Area conservation and ecosystem services (DECOM-MPA).* Marine Protected Areas Conference on Science, Policy & Management, Poole, May 2017 (Poster).
31. *An evidence-based approach for the effects of decommissioning options on Marine Protected Area conservation and ecosystem services: Progress to date.* NERC-funded Oil & Gas Decommissioning Stakeholder Workshop, Inverdee House, Aberdeen, April 2017.
32. *The matrix revisited: A bird's-eye view of marine ecosystem service provision.* Scottish Marine Protected Area Stakeholder Workshop. University of Aberdeen, March 2017.
33. *Assessing costs and benefits of measures to achieve GES in European regional seas: Challenges, opportunities and lessons learnt.* Invited speaker, University of Aberdeen, August 2016.
34. *Ecosystem services and marine protected areas in the UK: Development of the UK seabird matrices.* Invited speaker, University of Aberdeen, August 2016.
35. *Ecosystem services as a principle & practice for the integrated management of marine systems. The Dogger Bank Case Study.* Invited Speaker, University of Xiamen, China, December 2015.
36. *Ecosystem services – What are they? Why are they useful? How have they been applied?* Invited speaker at the Humber Nature Forum, The Guild Hall, Hull, December 2014.
37. *Management of the Dogger Bank: synthesising multidisciplinary science for policymakers and stakeholders.* Marine & Coastal Policy Forum, University of Plymouth, June 2014.
38. *Linking conservation measures with ecosystem service provision: a tool for MPA designation and management.* Marine & Coastal Policy Forum, University of Plymouth, June 2014 (Poster).
39. *Identification of a practicable set of ecosystem service indicators for coastal and marine ecosystem services.* Marine & Coastal Policy Forum, University of Plymouth, June 2014 (Poster).



40. *Economic value of marine ecosystem services*. JNCC Final Project Workshop, Peterborough, May 2013.
41. *Indicators of marine ecosystem services*. UK National Ecosystem Assessment (UK NEA) Meeting, University of East Anglia, March 2013.
42. *Identifying ecosystem services with a focus on the UK nuclear energy industry*. The New Energy Economy Event, Hull University, May 2011 (Poster).
43. *WP6 Synthesis for policymakers and stakeholders*. FP7 VECTORS Project KO Meeting, Faro, Portugal, March 2011.
44. *Seabed restoration. Do the benefits justify the costs?* Marine Aggregate Levy Sustainability Fund Final Technical Conference, The Royal Society, London, February 2011.
45. *An investigation into Burry Inlet cockle mortalities: benthic ecology and sediment analysis*. Burry Inlet Science Group Meeting, Shrewsbury, December 2009.
46. *Natural and human-induced changes to the ecology of the Tees Estuary*. INCA Tees Conference, Wynyard Rooms, Tees Valley, April 2008.
47. *Flamborough Head: A MarBEF Case Study Site*. Presentation to the Flamborough Head Maritime Forum, Flamborough Village, February 2008.
48. *Application of CVM and decision tree analysis to reduced estuarine eutrophication*. 41st ECSA Conference, Venice, October 2006.
49. *The ecosystem approach for managing the marine environment*. 41st ECSA Conference, Venice, October 2006 (Poster).
50. *Flamborough Head goods and services: A MarBEF case study area*. 41st ECSA Conference, Venice, October 2006 (Poster).
51. *Proposed Flamborough Head case study*. MarBEF Theme 3 Workshop, University of Gdansk, Poland, June 2005.
52. *Integration of social and natural sciences: Contingent valuation of water quality improvements in the Randers Fjord, Denmark*. MarBEF Theme 3 Workshop, Esbjerg, Denmark, May 2005.
53. *Paull Holme Strays monitoring program: Benthic invertebrate monitoring*. Joint Humber/Scheldt meeting, University of Hull, UK, November 2004.
54. *Ecological aspects, system modeling and the administrative, economic and legislative controls on eutrophication*. EUROTROPH end-users meeting, International Scheldt Commission, Antwerp, June 2004.
55. *Administration and legislation of nutrient removal*. EUROTROPH Final Symposium, University of Liège, Belgium, May 2004.
56. *An economic evaluation of water quality improvements in European estuarine and coastal ecosystems*. EUROTROPH Final Symposium, University of Liège, Belgium, May 2004.
57. *Contingent valuation of water quality improvements in European estuarine and coastal ecosystems*. ECSA Conference, Scarborough, August 2003.