

PUBLICATIONS & PRESENTATIONS

STEVE BARNARD, WOLDS ENVIRONMENTAL CONSULTING LTD



■ PAPERS AND BOOK CHAPTERS

- BURDON, D., **BARNARD**, S., STRONG, J.A. and ATKINS, J.P. (2024) Linking habitat extent to economic value: A hierarchical methodology for valuing societal benefits provided by marine natural capital. *Ecological Economics*, **224**, 108316. DOI: 10.1016/j.ecolecon.2024.108316
- BURDON, D., POTTS, T., **BARNARD**, S., BOYES, S.J and LANNIN, A. (2022) Linking natural capital, benefits and beneficiaries: the role of participatory mapping and logic chains for community engagement. *Environmental Science and Policy*, **134**, 85-99.
- PALIALEXIS, A., **BARNARD**, S. SMITH, C.J. and PAPADOPOULOU, N. (2022) *Getting better odds: a risk-based approach for the monitoring and assessment of biodiversity within the EU Marine Strategy Framework Directive*. EUR 31243 EN, Publications Office of the European Union, Luxembourg, 2022, ISBN 978-92-76-57512-2, DOI:10.2760/600038, JRC130785.
- BURDON, D., **BARNARD**, S., BOYES, S.J. and ELLIOTT, M. (2018) Oil and gas infrastructure decommissioning in marine protected areas: system complexity, analysis and challenges. *Marine Pollution Bulletin*, **135**, 739-758. DOI: 10.1016/j.marpolbul.2018.07.077.
- ELLIOTT, M., BOYES, S., **BARNARD**, S. and BORJA, A. (2018) Using best expert judgement to harmonise marine environmental status assessment and marine spatial planning. *Marine Pollution Bulletin*, **133**, 367-377. DOI: 10.1016/j.marpolbul.2018.05.029.
- SNOEIJIS-LEIJONMALM, P., **BARNARD**, S., ELLIOTT, M., ANDRUSAITIS, A., KONONEN, K., and SIROLA, M. (2017) Towards better integration of environmental science in society: lessons from BONUS, the joint Baltic Sea environmental research and development programme. *Environmental Science and Policy*, **78**, 193-209. DOI: 10.1016/j.envsci.2017.10.004.
- ELLIOTT, M., SNOEIJIS-LEIJONMALM, P. and **BARNARD**, S. (2017) 'The dissemination diamond' and paradoxes of science-to-science and science-to-policy communication: Lessons from large marine research programmes. *Marine Pollution Bulletin*, **125(1-2)**, 1-3. DOI: 10.1016/j.marpolbul.2017.08.022.
- BOYES, S.J., **BARNARD**, S. and ELLIOTT, M. (2016) *The East Riding Coastline: Past, Present and Future*. Prepared for East Riding of Yorkshire Council (ERYC) by the Institute of Estuarine and Coastal Studies (IECS), University of Hull. Available at: www2.hull.ac.uk/science/pdf/3450_IECS_ERYC_28_01_16.pdf
- SMITH, C.J., PAPADOPOULOU, K-N, **BARNARD**, S., MAZIK, K., ELLIOTT, M., PATRÍCIO, J., SOLAUN, O., LITTLE, S., BHATIA, N. and BORJA, A. (2016) Managing the marine environment, conceptual models and assessment considerations for the European Marine Strategy Framework Directive, *Frontiers in Marine Science*, **3:144**. DOI: 10.3389/fmars.2016.00144.
- BARNARD**, S. and ELLIOTT, M. (2015) The 10-tenets of adaptive management and sustainability: An holistic framework for understanding and managing the socio-ecological system. *Environmental Science & Policy*, **51**, 181-191. DOI: 10.1016/j.envsci.2015.04.008.
- LONSDALE, J.A., WESTON, K., **BARNARD**, S., BOYES, S. and ELLIOTT, M. (2015) Integrating management tools and concepts to develop an estuarine planning support system: A case study of the Humber Estuary, Eastern England. *Marine Pollution Bulletin*, **100(1)**, 393-405. DOI: 10.1016/j.marpolbul.2015.08.017.
- JICKELLS, T., ANDREWS, J., **BARNARD**, S., TETT, P. and VAN LEEUWEN, S. (2015) Natural sciences modelling in coastal and shelf seas. In: R.K. Turner and M. Schaafsma (eds.) *Coastal zones ecosystem services: From science to values and decision making*. Springer International Publishing, Switzerland. 240pp.

- BARNARD, S.** and ELLIOTT, M. (2013) *Sustainability in environmental management*. In: The Humber's Future Economic and Sustainable Development (D.B. Grant, ed.), Humber Local Economic Partnership (LEP) Research White Paper, University of Hull. 88pp
- APRAHAMIAN, M.W., **BARNARD, S.** and FAROOQI, M.A. (2004) Survival of stocked Atlantic salmon and coarse fish and an evaluation of costs, *Fisheries Management & Ecology*, **11**, 153–163.
- BARNARD, S.** and WYATT, R.J. (1995) An analysis of predictive models for stream salmonid populations, *Bulletin Français de la Pêche et de la Pisciculture*, **337/338/339**, 365-373.
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- BARNARD, S.** (1989) Simulation modelling the gravel pit ecosystem, *Game Conservancy Annual Review*, **20**, 150-151.

■ CONSULTANCY REPORTS

- BARNARD, S.** and ELLIOTT, M. (2023) *Conservation Advice for GES (CA4GES) pilot project – Offshore Wind and GES: a proof of concept study*. Final PowerPoint report presentation to Natural England Project Board.
- GALPARSORO, I., MONTERO, N., MENCHACA, I., BORJA, Á., FABBRIZZI, E., BAS, M., FLANNERY, W., MZUNGU-RUNYA, R., GIAKOURI, S., KRUSE, M., MCATEER, B., PIET, G., FRASCHETTI, S., MORATO, T., DEGRAER, S., ELLIOTT, M., **BARNARD, S.**, KATSANEVAKIS, S., NEUENFELDT, S., LUKYANOVA, O. and STELZENMÜLLER, V. (2023) MarinePlan Deliverable D1.1. *Operational ecosystem-based maritime spatial planning (EB-MSP) framework and guidance for practical implementation*. 65 pp.
- PAPADOPOULOU N., SMITH C. J., FRANCO A., ELLIOTT M., BORJA A., ANDERSEN J., AMORIM E., ATKINS J., **BARNARD S.**, BERG T., BIRCHENOUGH S., BURDON D., CLAUDET J., CORMIER R., GALPARSORO I., JUDD A., KATSANEVAKIS S., KORPINEN S., LAZAR L., LIQUETE C., LOISEAU C., LYNAM C., MENCHACA I., O'TOOLE C., PEDRESCHI D., PIET G., REID D., SALINAS-AKHMADEEVA I. A., STELZENMÜLLER V., TAMIS J., UUSITALO L., and 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*. 162pp.
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- BARNARD, S.**, FRANCO, A., BURDON, D., ATKINS, J.P. and ELLIOTT, M. (2023) *EAD Knowledge Engineering: A Knowledge Management Platform for the Environment Agency – Abu Dhabi Research Agenda*. Report by: International Estuarine & Coastal Specialists (IECS) Ltd, 72pp.
- BURDON, D., **BARNARD, S.**, STRONG, J.A., and ATKINS, J.P. (2022) *An Assessment of Northern Ireland's Marine Natural Capital (NI-MANACA)*. Report to AFBI; Daryl Burdon Ltd.
- SMITH, C.J., PAPADOPOULOU, N., ELLIOTT, M., FRANCO, A., **BARNARD, S.**, BORJA, A. and UYARRA, M.C. (2022) Marine Strategy Framework Directive Terminology Definitions and Lists. Project: GES4SEAS (Achieving Good Environmental Status for maintaining ecosystem services, by assessing integrated impacts of cumulative pressures). DOI: 10.13140/RG.2.2.34954.75207

- PALIALEXIS A., **BARNARD**, S., SMITH, C.J. and PAPADOPOULOU, N. (2022) *Getting better odds: a risk-based approach for the monitoring and assessment of biodiversity within the EU Marine Strategy Framework Directive*. Publications Office of the European Union, Luxembourg, 2022, doi:10.2760/600038, JRC130785 (delivered under EC grant CT-EX2019D363425-101). Available at: <https://publications.jrc.ec.europa.eu/repository/handle/JRC130785>
- BARNARD**, S. and ATKINS, J.P. (2022) *Applying a natural capital approach to the Yorkshire coast – a feasibility report*. Report for Yorkshire Marine Nature Partnership by Wolds Environmental Consulting Ltd.
- BARNARD**, S. (2021) *The production of quantitative salmonid population estimates from single-pass fisheries survey data*. Report to Environment Agency; Wolds Environmental Consulting Ltd.
- BARNARD**, S., SMITH, C.J., PAPADOPOULOU, N. and PALIALEXIS, A. (2021) *A Risk-Based Approach for MSFD Monitoring and Assessment (Descriptor 1, Biological Diversity): Accounting for impact of anthropogenic pressures as part of the selection of a robust species shortlist*. Report for the European Commission Joint Research Centre, delivered under EC grant CT-EX2019D363827-102.
- ELLIOTT, M., **BARNARD**, S., BOYES, S.J., BURDON, D., CUTTS, N.D., FRANCO, A. and SMYTH, K. (2020) *The framework and options for compensation for Marine Annex 1 habitats for offshore wind farms*. Unpublished Report YBB875-F-2020, for Ørsted Wind Power NS, Strategic Environment Team (Contract No. 0456). University of Hull and International Estuarine & Coastal Specialists (IECS) Ltd., pp 115.
- BURDON, D., POTTS, T. & **BARNARD**, S. (2020) *Suffolk Marine Pioneer Natural Capital Logic Chains and Tool Development Workshop Report*. Daryl Burdon Ltd., Willerby, UK. February 2020. (Report No. DB LTD 007/2019b)
- FRANCO, A., SMYTH, K., **BARNARD**, S., BURDON, D., ELLIOTT, M. and MAZIK, K. (2020) *Marine ecosystem health: A streamlined approach for assessments through integration, harmonisation and forecasting*. Report for JNCC produced under Contract Ref: C19-0384-1374.
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- BARNARD**, S. (2019) *A Summary View of Sustainability*: in Green Port Impact Assessment Report. Logistics Institute, University of Hull, 100pp.
- FRANCO, A., MAZIK, K., **BARNARD**, S., THOMSON, S., ELLIOTT, M., JOHNSON, M. and HULL, S. (2018) *Sublittoral rock indicator: spatial correlation between environmental conditions and biological data*. Report for JNCC by Institute of Estuarine and Coastal Studies (IECS), University of Hull.
- BARNARD**, S. and ELLIOTT, M. (2017) *Assessment of BONUS impact on relevant policies, innovative industries and structuring of the macro-regional research area; BONUS delivery, performance, and stakeholder opinions*. Report for BONUS (the joint Baltic Sea research and development programme) by Institute of Estuarine and Coastal Studies (IECS), University of Hull, Hull, UK, HU6 7RX.
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- FORSTER, R., STRONG, J.A., BURDON, D., **BARNARD**, S., BOYES, S.J. and ELLIOTT, M. (2016) *Evidence supporting the use of environmental remediation to improve water quality in the South Marine Plan areas*. Report produced for the Marine Management Organisation by Institute of Estuarine and Coastal Studies (IECS), University of Hull, Hull, UK, HU6 7RX. MMO Project No: 1105. ISBN: 978-1-909452-44-2. pp 158.
- BARNARD**, S., KRYVENKO, O., CHURILOVA, T., SUSLIN, V., PAPADOPOULOU, N., MONCHEVA, S., OLENIN, S., SMITH, C., MAZIK, K., LITTLE, S. and ELLIOTT, M. (2015) *Report on sea-specific matrices of pressure-impact links*. DEVOTES Project, Deliverable 1.2. 130pp.

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- BARNARD, S. and STRONG, J. 2014.** *Reviewing, refining and identifying optimum aggregation methods for undertaking marine biodiversity status assessments.* JNCC Report No. 536, produced for JNCC Peterborough by Institute of Estuarine and Coastal Studies (IECS), University of Hull, Hull, UK, HU6 7RX. Available at: <https://data.jncc.gov.uk/data/a0efcd9c-6640-4321-97b3-9b468e7a276a/JNCC-Report-536-FINAL-WEB.pdf>.
- BARNARD, S., BURDON, D., STRONG, J. and ATKINS, J. (2014)** *The ecological coherence and economic & social benefits of the Northern Ireland MPA network.* Report to the Northern Ireland Marine Task Force (YBB238-F-2014). Institute of Estuarine and Coastal Studies (IECS), University of Hull.
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- BARNARD, S. and BOYES, S.J. (2013)** *Review of Case Studies and Recommendations for the Inclusion of Expert Judgement in Marine Biodiversity Status Assessments,* JNCC Report No.490. Report for JNCC Peterborough by Institute of Estuarine and Coastal Studies (IECS), University of Hull.
- BARNARD, S. and REDHEAD, J. (2012)** MCZ IA Knowledge Transfer Workshop: Internal Defra/SNCB workshop report. 93pp.
- BARNARD, S. (2008)** *Fish and fish habitat - environmental setting report for Narrows Lake.* Draft report for EnCana FCCL Oil Sands Ltd. prepared by Golder Associates Ltd. under contract 08-1346-0016
- ENVIRONMENT AGENCY (2008)** Better sea trout and salmon fisheries; our strategy for 2008-2021. Environment Agency, Bristol, UK. [**Member of Environment Agency drafting and editorial team**]
- BARNARD, S. (2003)** Review of Welsh fisheries byelaws - an initial consultation (consultation paper circulated to 250 fisheries stakeholders/customers across Wales detailing proposals for revised fishing regulations).
- BARNARD, S., ANDREWS, K. and ELLIS, J.C. (2002)** *Optimum stocking strategies for hatchery-reared riverine coarse fish.* Report to Environment Agency N°. **W2-i651/TR;** WRc.
- BARNARD, S. (2000)** *HABSCORE for Windows v3.1 - Software operation.* Software manual produced for Environment Agency to accompany re-write and re-release of HABSCORE habitat assessment software.
- BARNARD, S. (1999)** *Biological monitoring of the Kennet and Avon Canal, Hungerford.* Report to Environment Agency; WRc.
- BARNARD, S. (1999)** *HABSCORE for Windows version 1.1; software installation and operation - Environment Agency Fisheries Technical Manual 6;* WRc.
- BARNARD, S. (1999)** *Thames Water's Abingdon Reservoir proposal (TWARP): a review of Environment Agency fisheries studies.* Report to Environment Agency; WRc.

- BARNARD, S., CONRAD, A. and SIMS, I.** (1999) *Biological monitoring of the Kennet and Avon canal, Hungerford, Spring 1999*. R&D Technical Report for Environment Agency, Thames Region.
- BARNARD, S. and WYATT, R.J.** (1999) *Fisheries assessment software within the Environment Agency*. Report to Environment Agency N°. **W176**; WRc.
- BARNARD, S.** (1998) *HABSCORE for Windows version 1.1; software installation and operation*. Report to Environment Agency N°. **W174**; WRc.
- BARNARD, S.** (1998) *The survival of stocked coarse fish - a record of reaction to operational problems and an assessment of the consequences for the validity of the agreed experimental design*. Report to Environment Agency; WRc.
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- BARNARD, S., PARR, W. and MAINSTONE, C.P.** (1998) *Fertilisation of gravel pit lakes as a fishery management tool*. Report to Environment Agency; WRc.
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- BARNARD, S., WYATT, R.J. and MAINSTONE, C.P.** (1997) *The effects of stocked brown trout on the survival of wild fish populations*. Report to Environment Agency N°. **W5**; WRc.
- WYATT, R.J. and **BARNARD, S.** (1997) *River fisheries habitat inventory (Phase I)*. Report to Environment Agency N°. **W95**; WRc.
- WYATT, R.J. and **BARNARD, S.** (1997) *Spawning escapement targets for Atlantic salmon*. Report to Environment Agency N°. **W64**; WRc.
- WYATT, R.J. and **BARNARD, S.** (1997) *The transportation of the maximum gain salmon spawning target from the River Bush (N.I.) to England and Wales*. Report to Environment Agency N°. **W65**; WRc.
- BARNARD, S.** (1996) *Optimum stocking strategies for riverine coarse fish. Interim report: site selection and experimental design*. Interim report to NRA; WRc.
- BARNARD, S. and WYATT, R.J.** (1996) *Assessment of the adequacy of fishery surveys in the Anglian Region: River Ancholme*. Report to Environment Agency; WRc.
- BARNARD, S.** (1995) *The survival and dispersal of stocked coarse fish*. Report to NRA N°. **364**; WRc.
- BARNARD, S. and WYATT, R.J.** (1995) *A guide to HABSCORE field survey methods and the completion of standard forms*. Report to NRA N°. **401**; WRc.
- HAY, S.V., **BARNARD, S.** and MAINSTONE, C.P. (1995) *The National fisheries classification scheme; software user guide*. Report to NRA N°. **441**; WRc.
- WYATT, R.J., **BARNARD, S.** and LACEY, R.F. (1995) *Salmonid modelling literature review and subsequent development of HABSCORE models*. Report to NRA N°. **338/20/W**; WRc
- WYATT, R.J., **BARNARD, S.** and LACEY, R.F. (1995) *Use of HABSCORE V software and application to impact assessment*. Report to NRA N°. **400**; WRc.
- MAINSTONE, C.P., **BARNARD, S.** and WYATT, R.J. (1994) *Development of a fisheries classification scheme*. Report to NRA N°. **244/7/Y**; WRc.
- MAINSTONE, C.P., **BARNARD, S.** and WYATT, R.J. (1994) *The NRA National fisheries classification scheme: a guide for users*. Report to NRA N°. **206**; WRc.
- BARNARD, S.** (1993) *The alleged decline of brown trout populations in Scotland and Northern Ireland*. Report to SNIFFER N°. **SR 3404/1**. WRc.

GILES, N., PHILLIPS, V.E. and **BARNARD**, S. (1991) *The Current Crisis. Ecological Effects of Low Flows on Chalk Streams*. Royal Society for Nature Conservation. The Wildlife Trusts Partnership, Lincoln.

BARNARD, S. (1987) *The effect of aquatic macrophytes on the hydraulic roughness of a lowland chalk river*. Wessex Water Authority, Regional Biology Unit internal report.

■ NET GAIN REPORTING (MARCH 2010 – AUGUST 2011)

As Stakeholder Manager for Net Gain¹ (the North Sea Regional Marine Conservation Zones Project) Steve was the lead report author and/or coordinator for project meetings and reports, including:

- *Net Gain Final Recommendations Submission to Natural England & JNCC*, 31 August 2011, Net Gain, August 2011 [available from online archive at:
http://webarchive.nationalarchives.gov.uk/20120502152724/http://www.netgainmcz.org/docs/Net_Gain_Final_Rec_v1_1.pdf
- *Net Gain 'Large Group Meeting' 19 & 20 July 2011*. Full report of two-day workshop held at the KC Stadium, Hull. Available from online archive at:
<http://webarchive.nationalarchives.gov.uk/20120502153515/http://www.netgainmcz.org/docs/LGM2Report.pdf>
- *Net Gain Draft Final Recommendations Submission to the Science Advisory Panel - Version 2 (June 2011)* 414pp [available from online archive at:
<http://webarchive.nationalarchives.gov.uk/20110909185445/http://www.netgainmcz.org/docs/110607%20OSB%20MV%20draft%20final%20report.pdf>
- *Net Gain Progress Reports*. Three separate progress reports submitted to the Science Advisory Panel (June 2010; October 2010; and February 2011); all reports available from online archive at:
<http://webarchive.nationalarchives.gov.uk/20120502153507/http://www.netgainmcz.org/sapanel.php>
- *Net Gain Stakeholder Advisory Panel reports*. Eight separate reports detailing eight meetings of the Stakeholder Advisory Panel held at Royal Hotel York over the period 20 April 2010 to 4 July 2011; all reports available at:
<http://webarchive.nationalarchives.gov.uk/20120502153507/http://www.netgainmcz.org/sapanel.php>
- *Net Gain Regional Hub Workshop reports*. 25 separate reports detailing a series of meetings of the four Net Gain Regional Hub groups at various venues across the Net Gain over the period 16 March 2010 to 12 May 2011; all reports available at:
<http://webarchive.nationalarchives.gov.uk/20120502153516/http://www.netgainmcz.org/hubs.php>

■ PRESENTATIONS/POSTERS

BARNARD, S., FRANCO, A., AMORIM, E., PAPADOPOULOU, N., SMITH, C.J., and ELLIOTT, M. (2004) *SEAS4GES: Optimising tool selection when applying EBM approaches to ecological assessment*. Poster prepared for ECSA 60: Implementing science-based solutions and strategies for coastal resilience, Hangzhou, China; 2-5 September, 2004.

BARNARD, S., BURDON, D. and ELLIOTT, M. (2018) *SPIDA: an innovative database tool to assess the impacts of oil & gas infrastructure decommissioning*. Poster prepared for JNCC: Beyond the Coast; University of Hull, UK; 26-27 June, 2017.

BARNARD, S. and BOYES, S.J. (2018) *The legislative background to oil & gas infrastructure decommissioning in the UK and the development of SPIDA, an innovative database tool to assess the potential impacts of decommissioning activities*. Oral presentation to SUT/MASTS Decommissioning & Wreck Removal Workshop, 1 November 2018. Glasgow, UK.

¹ see <http://webarchive.nationalarchives.gov.uk/20120502152857/http://www.netgainmcz.org/index.php>

- BARNARD, S., BURDON, D. and ELLIOTT, M. (2018)** *SPIDA: an innovative database tool to assess the impacts of oil & gas infrastructure decommissioning*. Oral presentation to ECSA 57: Changing estuaries, coasts and shelf systems - Diverse threats and opportunities, 3-6 September 2018. Perth, WA, Australia.
- BARNARD, S. and PAPADOPOULOU, K.N. (2018)** *Assessing generic pressures in the marine environment using expert judgement: A scalable approach to help inform sustainable natural resource exploitation, with applications for scenario testing and for data-poor environments*. Oral presentation to ECSA 57: Changing estuaries, coasts and shelf systems - Diverse threats and opportunities, 3-6 September 2018. Perth, WA, Australia.
- ELLIOTT, M., BOYES, S.J., BARNARD, S. and BORJA, A. (2018)** *Using best expert judgement to harmonise marine environmental status assessment and marine spatial planning*. Oral presentation (by M.Elliott) to ECSA 57: Changing estuaries, coasts and shelf systems - Diverse threats and opportunities, 3-6 September 2018. Perth, WA, Australia.
- BARNARD, S (2014)** *The Northern Ireland MPA network - ecological coherence & socio-economic benefits*. Oral presentation to 2nd Marine and Coastal Policy Forum; Plymouth, UK.
- BARNARD, S. (2013)** *The use of expert judgement in marine biodiversity assessment*. Oral presentation to the Communications and Management for Sustainability (CMS) meeting on Coastal & Marine Management & Development, examining Evidence: Trends, Issues and Solutions; Brunei Gallery, School of Oriental and African Studies, University of London, UK.
- NET GAIN (2010 –2011)** Lead presenter and/or coordinator for meetings and reports by Net Gain, the North Sea Regional Marine Conservation Zones Project, including:
- *Net Gain Regional Hub Workshops*. A series of 25 meetings of the four Net Gain Regional Hub groups at various venues across the Net Gain, over the period 16 March 2010 to 12 May 2011.
 - *Net Gain 'Large Group Meeting – the Return' 19 & 20 July 2011*.
- BARNARD, S. (2007)** *Management controls for salmon & sea trout*. Oral presentation to Environment Agency Wales (North Area) Local Fishery Group. Bangor, UK.
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