

Selected CEFAS papers concerning restoration and recovery

Natural Capital

Luisetti, T., Turner, K.R., Andrews, J.E., Jickells, T.D., Kröger, S., Diesing, M., Paltriguera, L., Johnson, M.T., Parker, E.R., Bakker, D.C.E., Weston, K. 2019. Quantifying and valuing carbon flows and stores in coastal and shelf ecosystems in the UK. *Ecosystem Services* 35, 67-76.

Luisetti, T., Turner, K.R., Jickells, T.D., Andrews, J.E., Elliott, M., Schaafsma, M., Beaumont, N., Malcolm, S., Burdon, D., Adams, C., Watts, W. 2014. Coastal zone ecosystem services: From science to values and decision making; a case study. *Science of the Total Environment* 493, 682-693.

Luisetti, T., Turner, K.R., Jackson, E.L. 2013. Valuing the European 'coastal blue carbon' storage benefit. *Marine Pollution Bulletin* 71, 1-2.

Managed realignment

Luisetti, T., Turner, K.R., Andrews, Bateman, I.J., Morse-Jones, S., Adams, C., Fonseca, L. 2011. Coastal and marine ecosystem services valuation for policy and management: Managed realignment case studies in England. *Ocean and Coastal Management* 54, 212-224.

Beneficial Use

Bolam, S.G. (2014). Macrofaunal recovery of intertidal recharge of dredged material: a comparison of structural and functional approaches. *Marine Environmental Research* 97, 15-29.

Bolam, S.G., Barry, J., Schratzberger, M., Whomersley, P., Dearnaley, M. (2010). Macrofaunal recolonisation following the intertidal placement of fine-grained dredged material. *Environmental Monitoring and Assessment* 168(1-4), 499-510.

Bolam, S.G., Schratzberger, M., Whomersley, 2006. Macro- and meiofaunal recolonisation of dredged material used for habitat enhancement: temporal patterns in community development. *Marine Pollution Bulletin* 52, 1746-1755.

Schratzberger, M., Bolam, S.G., Whomersley, P. & Warr, K. 2006. Differential response of nematode colonist communities to the intertidal placement of dredged material. *Journal of Experimental Marine Biology and Ecology* 334, 244-255.

Widdows, J.D., Brinsley, M.D., Pope, N.D., Staff, F.J. & Bolam, S.G. 2006. Changes in biota and sediment erodability following the placement of fine dredged material on upper intertidal shores of estuaries. *Marine Ecology Progress Series* 319, 27-41.

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Bolam, S.G., Whomersley, P. 2005. Development of macrofaunal communities on dredged material used for mudflat enhancement: a comparison of three beneficial use schemes after one year. *Marine Pollution Bulletin* 50, 40-47.

Bolam, S.G., Schratzberger, M., Whomersley, P. 2004. Macrofaunal recolonization in intertidal mudflats: the effect of organic content and particle size. *Journal of Experimental Marine Biology and Ecology* 306, 157-180.

Schratzberger, M., Bolam, S.G., Whomersley, P., Warr, K., Rees H., 2004: Recovery of a meiobenthic nematode community following the intertidal placement of various types of sediment. *Journal of Experimental Marine Biology and Ecology* 303, 79-96.

Bolam, S.G., Whomersley, P. 2003. Invertebrate recolonisation of fine-grained beneficial use schemes: an example from the south-east coast of England. *Journal of Coastal Conservation* 9, 159-169.

Aggregate dredging

Cooper, K.M., Burdon, D., Atkins, J.P., Weiss, L., Somerfield, P., Elliott, M., Turner, K., Ware, S., Vivian, C., 2013. Can the benefits of physical seabed restoration justify the costs? An assessment of a disused aggregate extraction site off the Thames Estuary, UK. *Marine Pollution Bulletin* 75, 33-45.

Cooper, K.M., Ware, S., Vanstaen, K. and Barry, J., 2011. Gravel seeding - A suitable technique for restoration of the seabed following marine aggregate dredging? *Estuarine, Coastal and Shelf Science* 91, 121-132.

Cooper, K.M, Barry, J. A big data approach to macrofaunal baseline assessment, monitoring and sustainable exploitation of the seabed. *Scientific Reports* 7, 12431 (2017) doi:10.1038/s41598-017-11377-9.

Waye-Barker, G., McIlwaine, P., Lozac, S., Cooper, K.M., 2015. The effects of marine sand and gravel extraction on the sediment particle size and macrofaunal community of a commercial dredging site (15 years post-dredging). *Mar. Pollut. Bull.* 99 (1-2), 207-215.

Cooper, K.M., Boyd, S.E., Eggleton J.E., Limpenny, D. S., Rees, H. L. and Vanstaen, K., 2007. Recovery of the seabed following marine aggregate dredging on the Hastings Shingle Bank off the southeast coast of England. *Estuar. Coast. Shelf Sci.* 75, 547-558.

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