



Environmental Science Work:

References to peer reviewed publications and presentations arising from datasets and samples collected on the UK Seabed Resources-sponsored Abyssline AB01 (2013) and AB02 (2015) environmental survey cruises in the Pacific Ocean Clarion-Clipperton Zone. Both cruises took place under Exploration Contracts awarded to UK Seabed Resources by the International Seabed Authority.

2021 Publications Arising from UK1 AB01 (2013) and AB02 (2015) Environmental Datasets

Mohrbeck, I., Horton, T., Jaźdżewska, A.M. et al. DNA barcoding and cryptic diversity of deep-sea scavenging amphipods in the Clarion-Clipperton Zone (Eastern Equatorial Pacific). *Mar. Biodivers.* 51, 26 (2021). <https://doi.org/10.1007/s12526-021-01170-3>

2020 Publications Arising from UK1 AB01 (2013), and AB02 (2015) and Ocean Minerals Company (OMCO) Environmental Datasets

McQuaid K.A., Attrill M.J., Clark M.R., Cobley A., Glover A.G., Smith C.R. and Howell K.L. (2020) Using Habitat Classification to Assess Representativity of a Protected Area Network in a Large, Data-Poor Area Targeted for Deep-Sea Mining. *Front. Mar. Sci.* 7:558860. doi: 10.3389/fmars.2020.558860

McQuaid K.A., (2020) Ecological Studies of an Abyssal Nodule Province to Inform the Management of Deep-sea Mining. PhD Thesis, University of Plymouth, <https://pearl.plymouth.ac.uk/handle/10026.1/16676>

Hestetun, J. T., Bye-Ingebrigtsen, E., Nilsson, R. H., Glover, A. G., Johansen, P. O., & Dahlgren, T. G. (2020). Significant taxon sampling gaps in DNA databases limit the operational use of marine macrofauna metabarcoding. *Marine Biodiversity*, 50(5), 1-9. doi:10.1007/s12526-020-01093-5, <https://doi.org/10.1007/s12526-020-01093-5>

Clark, M., Smith C.R., et al, Deep CCZ Biodiversity Synthesis Workshop, Friday Harbor Lab, Washington, USA, 1-4 October 2019, International Seabed Authority, isa.org.jm/workshop/deep-ccz-biodiversity-synthesis-workshop

2019 Publications Arising from UK1 AB01 (2013) and AB02 (2015) Environmental Datasets

Glover, AG., Wiklund, H., Neal, L., Rabone, M., Drennan, R., Dahlgren, T.G.; (2019). Benthic Biological Studies in the Clarion-Clipperton Zone: Megafaunal and Macrofaunal Biodiversity and Genetics. Environmental Baseline Studies for UK Seabed Resources Interim Progress and Data Report – Period 1st January 2019 to 31st December 2019.

Rabone M., Harden-Davies H, Collins JE, Zajderman S, Appeltans W, Droege G, Brandt A, Pardo-Lopez L, Dahlgren T.G., Glover A.G., Horton T. (2019) Access to Marine Genetic Resources (MGR): Raising Awareness of Best-Practice Through a New Agreement for Biodiversity Beyond National Jurisdiction. *Frontiers in Marine Science.* 6:520. doi:10.3389/fmars.2019.00520.

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Guggolz T, Meißner K, Schwentner M, Dahlgren TG, Wiklund H, Bonifacio P, Brandt A (2020) High diversity and pan-oceanic distribution of deep-sea polychaetes: *Prionospio* and *Aurospio* (Annelida: Spionidae) in the Atlantic and Pacific Ocean. *Organism, Diversity and Evolution* 109:138–19. <https://doi.org/10.1007/s13127-020-00430-7>

Kristensen, R. M., Gooday, A. J., & Goineau, A. (2019). Loricifera inhabiting spherical agglutinated structures in the abyssal eastern equatorial Pacific nodule fields. *Marine Biodiversity*, 49(5), 2455-2466. <https://doi.org/10.1007/s12526-019-00962-y>

Wiklund, H., Neal, L., Drennan, R., Rabone, M., Dahlgren, T.G.; (2019). Abyssal fauna of polymetallic nodule exploration areas, eastern Clarion-Clipperton Zone, central Pacific Ocean: Annelida: Capitellidae, Opheliidae, Scalibregmatidae, and Travisidae. *ZooKeys* 883: 1–82. <https://doi.org/10.3897/zookeys.883.36193>

2018 Publications Arising from UK1 AB01 (2013) and AB02 (2015) Environmental Datasets

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Gooday, A.J., Holzmann, M., Goineau, A., Kamenskaya, O., Melni, V.F., Pearce, R.B., Weber, A. A.-T. and Pawlowski, J.; (2018). Xenophyophores (Rhizaria, Foraminifera) from the Eastern Clarion-Clipperton Zone (equatorial Pacific): The Genus Psammina. *Protist*, Vol. 169, 926–957, <https://doi.org/10.1016/j.protis.2019.09.003>

Lindh, M.V., Maillot, B., Smith, C.R., and Church, M.J.; (2018). Habitat filtering of bacterioplankton communities above polymetallic nodule fields and sediments in the Clarion-Clipperton zone of the Pacific Ocean. *Environmental Microbiology Reports* 10: 113-122, <https://doi.org/10.1111/1758-2229.12627>

Sweetman, A.K., Smith, C.R., Shulse, C.N., Maillot, B., Lindh, M.V., Church, M.J., Meyer, K.S., van Oevelen, D., Stratmann, T., and Gooday, A.J.; (2018). Key role of bacteria in the short-term cycling of carbon at the abyssal seafloor in a low particulate organic carbon flux region of the eastern Pacific Ocean. *Limnology and Oceanography*, 9999, 1-20, <https://doi.org/10.1002/lno.11069>

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Smith, C.R., Sweetman, A.K., Nunnally, C.C., Lewis, M., Young, E., Vernet, M., and Ziegler, A.F.; (2018). Very high macrofaunal diversity in an area targeted for nodule mining in the eastern CCZ. Oral presentation. 15th Deep Sea Biology Symposium, Monterey California, USA.

Taboada, S., Riesgo, A., Wiklund, H., Paterson, G.L., Koutsouveli, V., Santodomingo, N., Dale, A.C., Smith, C.R., Jones, D.O., Dahlgren, T.G. and Glover, A.G., 2018. Implications of population connectivity studies for the design of marine protected areas in the deep sea: An example of a demosponge from the Clarion-Clipperton Zone. *Molecular ecology*.

Amon, D.J., Simon-Lledo, E., Boessenecker, R., Jones, D.O.B., Chim, C.K., Wong, H.P.S., Tan, K.S., Ziegler, A.F., Glover, A.G., Smith, C.R.; (2018). Cetacean and shark fossils are abundant in the eastern Clarion Clipperton Zone, Oral presentation. 15th Deep Sea Biology Symposium, Monterey California, USA.

McQuaid, K., Attrill, M., Glover, A., Jones, D.O.B., Simon-Lledo, E., and Howell, K.; (2018). A habitat classification to support spatial planning associated with deep-sea mining, Oral presentation. 15th Deep Sea Biology Symposium, Monterey California, USA.

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Goineau, A., and Gooday, A.J.; (2017). Novel benthic foraminifera are abundant and diverse in an area of the abyssal equatorial Pacific licenced for polymetallic nodule exploration. *Scientific Reports*, <http://www.nature.com/articles/srep45288>

Gooday, A.J., Holzmann, M., Caulle, C., Goineau, A., Kamenskaya, O., Weber, A. A.-T., and Pawlowski, J.; (2017). Giant protists (xenophyophores, Foraminifera) are exceptionally diverse in parts of the abyssal eastern Pacific licensed for polymetallic nodule exploration, *Biological Conservation*, Volume 207, Pages 106-116. <http://dx.doi.org/10.1016/j.biocon.2017.01.006>

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Gooday, A.J., Holzmann, M., Goineau, A., Pearce, R.B., Voltski, I., Simon-Lledó, E. Weber, A. A.-T., and Pawlowski, J.; (2017). Five new species and two new genera of xenophyophores (Foraminifera: Rhizaria) from part of the abyssal equatorial Pacific licensed for polymetallic nodule exploration. *Zoological Journal of the Linnean Society*. <https://doi.org/10.1093/zoolinnean/zlx093>

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Taboada, S., Kenny, N.J., Riesgo, A., Wiklund, H., Paterson, G.L., Dahlgren, T.G., Glover, A.G.; (2017). Mitochondrial genome and polymorphic microsatellite markers from the abyssal sponge *Plenaster craigi* Lim & Wiklund: tools for understanding the impact of deep-sea mining. <http://dx.doi.org/10.1080/14772000.2017.1358218>

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2016 Publications Arising from UK1 AB01 (2013) and AB02 (2015) Environmental Datasets

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- Dahlgren, T.G., Wiklund, H., Rabone, M., Amon, D.J., Ikebe, C., Watling, L. Smith, C.R., and Glover, A.G.; (2016). Abyssal fauna of the UK-1 polymetallic nodule exploration claim, Clarion-Clipperton Zone, central Pacific Ocean: Cnidaria, Biodiversity Data Journal 4: e9277 (30 June 2016) doi: 10.3897/BDJ.4.e9277 <http://bdj.pensoft.net/articles.php?id=9277>
- Glover, A.G., Wiklund, H., Dahlgren, T.G., Rabone M., Amon, D.J., Smith C.R., and O'Hara, T.; (2016). Abyssal fauna of the UK-1 polymetallic nodule exploration claim, Clarion-Clipperton Zone, central Pacific Ocean: Echinodermata, Biodiversity Data Journal 4: e7251, doi: 10.3897/BDJ.4.e7251 <http://bdj.pensoft.net/articles.php?id=7251>
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- Goineau A., and Gooday A. J.; (2016). High abundance and diversity of novel benthic foraminifera in the abyssal equatorial Pacific (Clarion-Clipperton Zone). *MeioScool*, Brest, France, June 2016.
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