
DORA-COMPLIANT CV: PROF LOUISE ALLCOCK

CAREER SUMMARY

Education/Qualifications

BSc Marine Biology (Hons), 1st Class, University of Liverpool, 1992. PhD 'The genetics and taxonomy of Southern Ocean Octopodidae with special reference to the genus *Pareledone*', University of Liverpool, 1998. PGCert HE Teaching, Queen's University Belfast, 2004.

Employment

- September 2010 – present: Zoology, NUI Galway. Commenced in a part-time temporary post, made permanent September 2013, promoted to professor May 2018.
- June 2009 – March 2010: Bipolar species co-ordinator, British Antarctic Survey. Part-time remote-working role for Census of Antarctic Marine Life.
- September 2002 – March 2008: Lecturer in Marine Biology, Queen's University Belfast.
- July 1998–August 2002: Curator of Mollusca, National Museums of Scotland, Edinburgh. An academic analogue role combining research with the care of > 1 million molluscs specimens.

GENERATION OF KNOWLEDGE

My success in securing grant funding (> €5,000,000 as PI, and a further €10,000,000 as co-PI) has enabled me to contribute to the generation of knowledge (121 papers in international peer-reviewed journals resulting in a Google scholar h-index of 36) in several areas.

Southern Ocean as a centre of evolutionary origins. I published, as PI on a 3-yr NERC award (NE/C506321/1) and as senior author, the first molecular evidence (doi: [10.1111/j.1096-0031.2008.00234.x](https://doi.org/10.1111/j.1096-0031.2008.00234.x)) that the Southern Ocean is the centre of origin of deep-sea fauna worldwide, a fact that is deeply important for our understanding of global climate and the influence of the global thermohaline circulation. I developed the initial hypothesis from more than 10 years studying Southern Ocean and deep-sea octopuses. The research was named as a top highlight of the Census of Marine Life (CoML: a 10-year programme to study the world's oceans), and the story was tracked by the CoML press office on more than 600 news sites worldwide. I continue to explore the role of Antarctic climate on fauna (e.g., [10.1111/j.1365-294X.2012.05572.x](https://doi.org/10.1111/j.1365-294X.2012.05572.x)).

Major systematic revisions. My research group has published major systematic revisions with far-reaching impact. These combine molecular phylogenetics with morphological knowledge that extends across phyla and include a new classification for the sponge subclass *Heteroscleromorpha* (doi: [10.1016/j.ympcv.2011.09.016](https://doi.org/10.1016/j.ympcv.2011.09.016)), the octopus suborder *Incirrata* (doi: [10.1007/s10750-013-1517-6](https://doi.org/10.1007/s10750-013-1517-6)), and the oceanic squid order *Oegopsida* (doi: [10.1093/zoolinnean/zlab069](https://doi.org/10.1093/zoolinnean/zlab069)). I have separately published >20 other phylogenetic studies encompassing diverse groups such as corals (e.g., doi: [10.3390/d14070576](https://doi.org/10.3390/d14070576)), and another ten studies encompassing species descriptions and/or taxonomic revisions below family level.

Cephalopod biology. I have published more than 60 papers in peer-reviewed journals on cephalopods (octopus, cuttlefish & squid), supported by international research expeditions (e.g., aboard Germany's *RV Polarstern*, UK's *RV James Clark Ross*) and grants from multiple sources (e.g., EU FP6 Q5CA-2002-00962, IRC postgraduate scholarship GOIPG/2016/1561, GOIPG/2017/1740, IRC postdoctoral fellowship GOIPD/2019/460, EU INTERREG EAPA_282/2016, EU COST FA3101) on diverse topics including those mentioned above but also reproduction, fisheries biology, trophic ecology, and conservation. I have further distilled much of this knowledge into ICES Co-operative Research Reports (N^{os} [303](#), [325](#)) focussing on commercially exploited species in support of EU-wide fisheries management.

Exploring Ireland's deep sea. I have led a series of expeditions aboard *RV Celtic Explorer* exploring Ireland's deep sea. I acted as Chief Scientist for three expeditions worth more than 1M euro of ship time supporting the Beaufort Biodiscovery Programme, collecting organisms with deep-water ROVs. I led two further interdisciplinary expeditions in 2013 and 2016 as PI and Chief Scientist, describing new deep-sea habitats (doi: [10.1371/journal.pone.0079917](https://doi.org/10.1371/journal.pone.0079917)) and was subsequently awarded 1.9M euro by SFI (Investigator Programme Grant SFI/15/IA/3100) to further explore Ireland's deep-sea genetic resources, now generating highly interdisciplinary publications on novel compounds with biopharmaceutical potential (e.g., doi: [10.1021/acs.orglett.8b03684](https://doi.org/10.1021/acs.orglett.8b03684), [10.1021/acs.jnatprod.2c00054](https://doi.org/10.1021/acs.jnatprod.2c00054)) as well as inventional disclosures (Tech-2019-006 APAF-1 inhibitor; Tech-2020-023 and Tech-2021-015 screening small molecules against COVID-19 proteins).

DEVELOPMENT OF INDIVIDUALS

Teaching Excellence. I was awarded the President's award for Teaching Excellence in 2017; I was nominated by 1st year undergraduate students taking BO101 Biology. During a ten-year period I was instrumental in modernizing and transforming the 15 ECTS first year Biology course, contextualizing it for the 21st century. Engaging this 1st year class of 600+ Biology students so positively so early in their career can be transformative in the development of young scientists.

Supporting Careers. I have supervised twelve doctoral students (six male, six female; eight completed, four in progress) and two masters students (both male; both completed), and played a wider role mentoring postdoctoral researchers (three current; one previous) in my group. I have hosted and mentored five Erasmus placements (four female, 1 male) from Germany, Italy and the UK and one UK Turing placement (female). I specifically supported engagement of ECRs through COST Actions (e.g., CephsInAction@CRETAquarium). I have mentored female early career researchers through schemes at Queen's University Belfast and NUI Galway, and through the Aurora Women's Leadership Scheme, receiving formal mentor training on several occasions. I am one of a limited number of female full professors in STEM in Ireland; I believe that female leadership and visibility in this area has major impact in ensuring a more diverse future workforce. Known for showing cultural sensitivities and affording support and respect to others, I have been appointed Chief Scientist on [Nekton Mission's](#) Knowledge Exchange programme in the Maldives September 2022, the aim of which is to further develop careers of Indian Ocean scientists and build ocean science capacity in the region in line with UN Sustainable Development goals.

Developing Institutional Capacity. In 2018, I re-initiated a 'Marine & Coastal' research cluster within NUIG's Ryan Institute that had not met for four years. I led its transformation into an official University 'Centre', including building engagement, gaining approval and endorsement from internal committees, developing mission goals and a strategy. Since 2019, I have been Director of this [Centre for Ocean Research and Exploration](#) (COREx) at NUIG. It encompasses more than 30 PIs working in diverse fields (oceanography, marine chemistry, microbiology, zoology, botany), and drawn from diverse Schools. COREx has facilitated communication and collaboration, and we are involved in projects in all the world's oceans. I connect COREx with the European Marine Board through my seat on the Irish Marine Universities Consortium, and represent COREx and the Ryan Institute at the European Marine Research Network, [EuroMarine](#).

Strategic Research Leadership. Southern Ocean. In 2011, I co-authored the State of the Antarctic Ecosystem (AntECO) proposal submitted to the Scientific Committee on Antarctic Research (SCAR), a thematic organisation of the International Science Council. AntECO was adopted as one of five major research programmes from 2012-2020, thus having major impact on the direction of Antarctic science over a sustained period. **North Atlantic.** I was a member of the Deep-Ocean Stewardship Initiative (DOSI) working group on the Decade of Ocean Science that developed the *Challenger 150* programme (<https://challenger150.world>), one of the first endorsed programmes of the UN Decade of Ocean Science for Sustainable Development (2021-2030). I co-authored two papers establishing the *Challenger 150* programme aspirations (doi: [10.1038/s41559-020-01352-5](https://doi.org/10.1038/s41559-020-01352-5), [10.3389/fmars.2020.584861](https://doi.org/10.3389/fmars.2020.584861)) and influencing standards and policy. I chair the *Challenger 150* North Atlantic Regional Working Group, and led (as PI and Chief Scientist) one of the first *Challenger150* research expeditions

(RV *Celtic Explorer* expedition CE21010), taking an international science party to the little-explored Fangorn Bank south of Rockall.

CONTRIBUTION TO WIDER RESEARCH COMMUNITY

Editorial Roles. I acted as one of two co-editors of the international *Journal of Natural History* from 2007 to 2015. Editorial duties comprised sole responsibility for non-entomological manuscripts generating approximately 1400 manuscript pages per annum. I was Editor-in-Chief of *Zoological Journal of the Linnean Society*, a highly respected international journal of systematics and evolution, from 2015–2018, handling 1200 manuscript pages per annum. I remain on the Editorial Board of both journals, and have been a member of the Editorial Boards of *Oceanography and Marine Biology: An Annual Review* since 2019, and *Arquipelago* – an open access journal focusing on oceanic islands and seamounts – since 2016. I have also edited Special Issues in *Fisheries Research*, *Marine Environmental Research*, and *Frontiers in Physiology* (doi: [10.3389/978-2-88963-437-8](https://doi.org/10.3389/978-2-88963-437-8)) resulting from conference activities.

Leadership in cephalopod biology. I was an elected council member of the Cephalopod International Advisory Council (CIAC), an international umbrella organisation representing cephalopod research globally, from 2000–2006, 2009–2012, and 2022–. I served as President of CIAC from 2012–2015. I have long managed two JISCM@IL groups (listservers) for the Council: one for the wider cephalopod community, one for conducting Council business. I previously edited and compiled a newsletter on behalf of the community. As President, I developed CIAC's social media presence, and built and manage the website at www.cephalopoda.org.

Conference organization. I was on the organizing committee of CIAC 2000 (UK), on the Scientific Committee of CIAC 2000, 2009 (Spain), 2012 (Brazil), 2022 (Portugal), and organised workshops at CIAC 2000 (Estimating cephalopod biomass), CIAC 2003 (Octopodidae systematics), and CIAC 2009 (Cephalopod red data listing). I co-hosted three international conferences at NUI Galway: the European Marine Biology Symposium 2013, the 10th World Sponge Conference 2017, and the European Conference on Marine Natural Products 2021.

Wider support of diversity. I was a member of the NUI Galway Gender Task Force that submitted an impactful [2016 report](#), and whose 24 evidence-based recommendations, which were wholly embraced by university management, have transformed the culture at NUI Galway. I have advanced the cause of women in STEM throughout my career, including presenting an invited keynote and publishing on the role of women in cephalopod biology (doi: [10.1080/00222933.2015.1037088](https://doi.org/10.1080/00222933.2015.1037088)), advocating for gender-balanced panels, successfully nominating women for Lifetime Achievement Awards in cephalopod biology, and berating the UK Royal Society in the Guardian Letters column for the 2014 fellowship round which awarded 41 grants to men and just two to women **and** suggesting solutions to remove bias in the future.

International recognition by invitation. I have accepted invitations to examine graduate theses in Ireland, UK, Spain, Germany, New Zealand and Australia. I was invited by Ireland as a delegate to the 2020 North Atlantic Ocean Regional Workshop - UN Decade of Ocean Science for Sustainable Development (2021-2030), which aimed to develop the North Atlantic Science programme for the decade, as an Irish representative on the EU Eurofleets (ship-time) grant awarding panel, and as an Irish representative at the ICES EU VME workshop (providing advice to regional fisheries on closures to protect vulnerable ocean habitats; doi: [10.17895/ices.pub.7618](https://doi.org/10.17895/ices.pub.7618)). As a cephalopod expert, I am an invited member of the IUCN Mollusca Specialist Group and Species Survival Commission, a long-standing Irish representative on the ICES working group on Cephalopod Fisheries and Life Histories (WGCEPH), have been invited to teach specialist courses overseas (e.g., ForBio and MEDUSA course: [Systematics, Morphology and Evolution of Marine Molluscs](#)), and join international workshops and projects as a taxon expert (e.g., doi: [10.1002/ecs2.3919](https://doi.org/10.1002/ecs2.3919)). As a deep-sea biologist, I have accepted invitations to participate in and teach octocoral identification workshops, to help develop an international online guide for identifying deep-sea species from images (doi: [10.1371/journal.pone.0218904](https://doi.org/10.1371/journal.pone.0218904)) contributing images to the [online portal](#) and curating particular sections, to join two Nekton Missions to provide field expertise, and have been elected Vice Chair of COST Action [CA20102](#) on benthic marine animal forests.

CONTRIBUTION TO BROADER SOCIETY

Conservation Policy. Nationally: I chaired the Life and Ocean Sciences subgroup of the Marine Protected Area (MPA) Advisory Group that provided expert advice to the Minister for Housing, Planning and Local Government in support of Ireland's commitment to expand its MPA network to 30% by 2030 in line with EU marine policy. As chair, I co-authored a 250-page report [Expanding Ireland's Marine Protected Area Network](#) (2020) recommending how government should proceed, and supported stakeholder consultation. Separately, I provided extensive data on locations of coral-rich deep-sea habitats to the National Parks and Wildlife Service (NPWS), in support of designation of offshore MPAs, having previously co-authored a 99-page report (2017) to NPWS synthesizing current knowledge of offshore reef habitats. **Internationally:** I chaired the Status Assessments of six deep-water Threatened/Declining Habitats as part of OSPAR's Quality Status Report 2023 working with international experts from across Europe. This is a central pillar of the EU strategy to protect the NE Atlantic. As chair of the cephalopod subgroup of the IUCN Mollusc Specialist Group, I published assessments of 750 globally-distributed cephalopod species for the IUCN Red List, identifying those threatened by human impacts that warrant protective measures. I advised on the taxonomic backbone for deep-water mollusc assessments, and co-authored an impactful paper on the hazards of deep-sea mining on species with limited extents of occurrence, focusing on the Endangered scaly foot snail *Chrysomallon squamiferum* (doi: [10.1038/s41559-019-0930-2](https://doi.org/10.1038/s41559-019-0930-2)). During Seafest 2019, my invited video presentation to leaders of Small Island Developing States stressed the importance of ocean conservation in support of Irish Government policy.

Broadcast Media. I am a regular media contributor, sought after for my broad knowledge, clear communication style and interesting field of research. As part of the 2019 Nekton Mission First Descent to the Indian Ocean, I joined *Sky News* correspondent Thomas Moore for a [2-hour live broadcast](#) from our research vessel reaching 120,000 viewers. I supported onboard news teams from Sky and Associated Press with factual scientific information throughout that expedition. In Ireland, I joined presenter Mary Kennedy to discuss Ireland's deep sea for a special edition of *Nationwide* on RTE 1 (2017) and spoke about giant squid on RTE's children's show *Elev8* (2013). I provided deep-water video of Ireland's octopuses for BBC's *Springwatch* (2021, approx. 3M viewers). National radio includes *Seascapes* and *Mooney Goes Wild* on RTE radio 1 (several episodes) as well as numerous short contributions to national and regional stations. International radio includes [In Our Time](#) with Melvyn Bragg on BBC Radio 4, *Nature* with Mark Carwardine on BBC Radio 4, *Quirks & Quarks* on CBC Canada, and [Overnights](#) on ABC Australia. I supported 2019 cephalopod week on Science Friday (a weekly show carried on over 400 public radio stations in the US) with a [Reddit AMA](#) (ask me anything) on cephalopods. My research has also featured in numerous articles in the national and international press.

Exhibitions and Outreach. I have regularly contributed to the Galway Science Festival, projecting deep-sea video outside as dusk falls. I've supported [Reel Life Science](#) as a judge since 2014, developed display cabinets with Galway City Museum, and contributed to the development and subsequent redevelopment of the Ocean Exploration Centre at Titanic Belfast. I have provided diverse content to a variety of outreach providers, for example, I feature in a video loop in the Titanic Belfast exhibition talking about my life as a marine scientist, in the Marine Institute's [Oceans of Learning](#) webcast answering questions on octopuses and the deep sea, and my underwater footage is presented in [Discover the Deep](#) gallery at Dynamic Earth (Scotland).

Books. I co-authored *Octopus, Squid and Cuttlefish* published by Ivy Press (2018) in the UK (ISBN-13: 978-1782405702) and targeted at a wide non-specialist audience. It sold out and has been further licensed by University of Chicago press for sale in the US (ISBN: 978-0226459561), and translated into French (Ulmer, ISBN: 978-2379220272), German (Klasing, ISBN: 978-3667115775), Spanish (Ediciones Omega ISBN: 978-8428217217), and Japanese (化学同人 Kagaku-dojin, ISBN: 9784759820522). Rated with five stars on Amazon, it has brought accurate and detailed information on this fascinating group of organisms to thousands of non-scientists worldwide. I co-authored [Deep Ocean](#) to be published by Princeton University Press in March 2023.

A. LOUISE ALLCOCK

JOURNAL PUBLICATIONS

1. Johnson MP, Baker BJ, Laguionie-Marchais C, Conneely E-A, McKeever K, Young R, Allcock AL (2022). Phylogenetic, species richness and logistic influences on the biodiscovery process in Cnidaria. *Frontiers in Marine Science*, 9:1023518. <https://doi.org/10.3389/fmars.2022.1023518>
2. Hogan RI, Hopkins K, Wheeler AJ, Yesson C, Allcock AL (2022). Evolution of mitochondrial and nuclear genomes in Pennatulacea. *Molecular Phylogenetics and Evolution*, 178: 107630. Advance online publication. <https://doi.org/10.1016/j.ympev.2022.107630>
3. Orejas C, Carreiro-Silva M, Mohn C, Reimer JD, Samaai T, Allcock AL, Rossi S (2022) Marine Animal Forests of the World: Definition and Characteristics. *Research Ideas and Outcomes* 8: e96274. <https://doi.org/10.3897/rio.8.e96274>
4. Welsch JT, Young RM, Allcock AL, Johnson MP, Baker BJ (2022). Crannenols A–D, sesquiterpenoids from the Irish deep-sea soft coral *Acanella arbuscula*. *Journal of Natural Products*. <https://doi.org/10.1021/acs.jnatprod.2c00602>
5. Howell KL, Bridges AE, Graves KP, Allcock L, La Bianca G, Ventura-Costa C, Donaldson S, Downie A-L, Furey T, McGrath F, Ross R (2022). Performance of deep-sea habitat suitability models assessed using independent data, and implications for use in area-based management. *Marine Ecology Progress Series*, 695: 33-51. <https://doi.org/10.3354/meps14098>
6. Morrissey D, Untiedt CB, Croke K, Robinson A, Turley E, Allcock AL (2022). The biodiversity of calcaxonian octocorals from the Irish continental slope inferred from multilocus mitochondrial barcoding. *Diversity*, 14(7): 576. <https://doi.org/10.3390/d14070576>
7. Laptikhovsky V, Allcock AL, Barnwall L, Barrett C, Cooke G, Drerup C, Firmin C, Lozach S, MacLeod E, Oesterwind D, Petroni M, Robin J-P, Sheerin E, Power A-M, Pierce GJ (2022). Spatial and temporal variability of spawning and nursery grounds of *Loligo forbesii* and *Loligo vulgaris* squids in ecoregions of Celtic Seas and Greater North Sea. *ICES Journal of Marine Science* <https://doi.org/10.1093/icesjms/fsac128>
8. Rossi S, Bramanti L, Horta P, Allcock AL, Carreiro-Silva M, Coppari M, Denis V, Hadjioannou L, Isla E, Jimenez C, Johnson M, Mohn C, Orejas C, Ramšak A, Reimer J, Rinkevich B, Rizzo L, Salomidi M, Samaai T, Schubert N, Soares M, Thurstan RH, Vassallo P, Ziveri P, Zorrilla-Pujana J (2022). Protecting global marine animal forests. *Science*, 376(6596): 929. <https://doi.org/10.1126/science.abq7583>
9. Maxwell J, Gan YM, Arango C, Doemel JS, Allcock AL, van de Putte AP, Griffiths H (2022) Sea spiders (Arthropoda, Pycnogonida) from ten recent research expeditions to the Antarctic Peninsula, Scotia Arc and Weddell Sea - data. *Biodiversity Data Journal*, 10: e79353. <https://doi.org/10.3897/BDJ.10.e79353>
10. Avalon NE, Nafie J, De Marco Verissimo C, Warrensford LC, Dietrick SG, Pittman AR, Young RM, Kearns FL, Smalley T, Binning JM, Dalton JP, Johnson MP, Woodcock HL, Allcock AL, Baker BJ (2022). Tuaimenal A, a meroterpene from the Irish deep-sea soft coral *Duva florida*, displays inhibition of the SARS-CoV-2 3CLpro enzyme. *Journal of Natural Products*, 85(5): 1315-1323. <https://doi.org/10.1021/acs.jnatprod.2c00054>
11. Sheerin E, Barnwall L, Abad E, Larivain A, Oesterwind D, Petroni M, Perales-Raya C, Robin J-P, Sobrino I, Valeiras J, O'Meara D, Pierce GJ, Allcock AL, Power AM (2022). Multi-method approach shows stock structure in *Loligo forbesii* squid. *ICES Journal of Marine Science*, 79(4): 1159–1174. <https://doi.org/10.1093/icesjms/fsac039>

12. Quattrini AM, Herrera S, Adams JM, Grinyó J, Allcock AL, Shuler A, Wirshing HH, Cordes EE, McFadden CS (2022). Phylogeography of *Paramuricea*: the role of depth and water mass in the evolution and distribution of deep-sea corals. *Frontiers in Marine Science*, 9: 849402. <https://doi.org/10.3389/fmars.2022.849402>
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14. Mazzeo A, Aguzzi J, Calisti M, Canese S, Angiolillo M, Allcock AL, Vecchi F, Stefanni S, Controzzi M. Marine robotics for deep-sea specimen collection: a taxonomy of underwater manipulative actions (2022). *Sensors*, 22(4): 1471. <https://doi.org/10.3390/s22041471>
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19. Fernández-Álvarez FA, Taite M, Vecchione M, Villanueva R, Allcock AL (2022). A phylogenomic look into the systematics of oceanic squids (order Oegopsida). *Zoological Journal of the Linnean Society*, 194(4): 1212–1235. <https://dx.doi.org/10.1093/zoolinlean/zlab069>
20. Laptikhovskiy V, Cooke G, Barrett C, Lozach S, MacLeod E, Oesterwind D, Sheerin E, Petroni M, Barnwall L, Robin J-P, Allcock AL, Power AM (2021). Identification of benthic egg masses and spawning grounds in commercial squid in the English Channel and Celtic Sea: *Loligo vulgaris* vs *L. forbesii*. *Fisheries Research* 241: 106004. <https://doi.org/10.1016/j.fishres.2021.106004>
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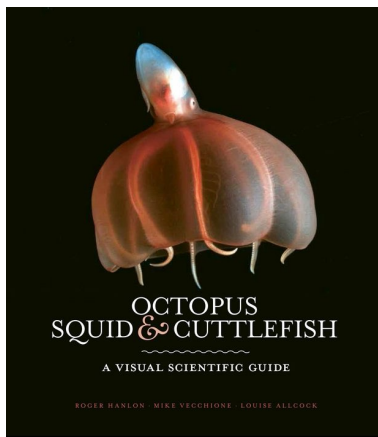
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Described by American Scientist as “an encyclopedic discussion of the animals’ evolution, biology and behaviours”, our aim in this book was to bring our scientific knowledge from decades of research to a broader audience. The UK print edition, published by Ivy Press, is sold out, with copies trading online for 100s of euro. A US print edition is available from University of Chicago Press, ebooks are available from both Ivy Press and UCP and a kindle edition is available from Amazon (where the book receives a five-star rating based on 181 reviews). It has been translated into four languages, with details of those

print editions given below.

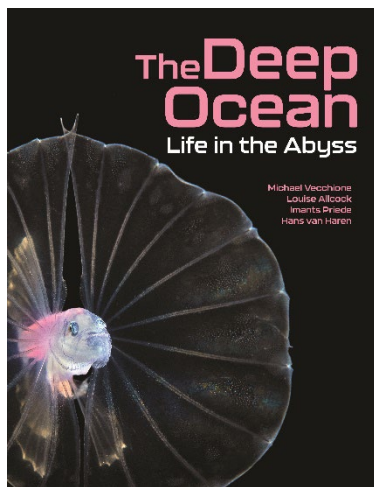
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IUCN RED LIST ASSESSMENTS

I have led the assessments of all 750 species of coleoid cephalopods for the IUCN global Red List of Threatened Species. Each assessment has been published online, with a doi, with batches of assessments published in 2019, 2018, 2014 and 2012. They represent substantial work in support of conservation over a period of 10 years. They can be found at iucnredlist.org