

Peer-reviewed publications since 2020 by Department of Environment staff

2025

- **Etongo D., Bristol U.,** Cetoupe D., Landry J., Labrosse J-C. (2025). Integrating disaster risk reduction and climate change adaptation in Seychelles: Challenges and proposed strategies. *Journal of Disaster Risk Studies*. DOI: 10.4102/jamba.v17i2.1808
- Benkovic R., Miroslavljec K., Brmez M., **Etongo D.,** Zimmer D., Jug D., Jug I., Sumanovac L. (2025). Different tillage systems and their influence on crops yield formation and post-harvest residues. *Poljoprivreda* 31(1): 13-24. <https://doi.org/10.18047/poljo.31.1.2>
- Bailey LA, Childs AR, James NC, **Duncan MI,** Pringle BA, Pots WM. 2025 Assessing individual physiological variability and future performance phenotypes is essential for predicting the resilience of fish populations to anthropogenic climate change. *Conservation Physiology* 13. DOI: 10.1093/conphys/coaf043.
- Pringle BA, **Duncan MI,** Winkler A et al. 2025. Effect of temperature on metabolic stress and recovery of two *Argyrosomus* species from simulated catch-and-release angling. *Fisheries Management and Ecology*, DOI: 10.1111/fme.12696.
- **Gordon N,** Noyan M, Kaullysing D, Bhagooli R, Rama S, Ternon JF, Marzocchi B, Marsac F. 2025. Distribution and drivers of phytoplankton biomass along the Saya de Malha Bank in the Western Indian Ocean. *Deep Sea Research Part II: Topical Studies in Oceanography* 221. DOI: 10.1016/j.dsr2.2025.10548

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- Keiner D., Gulagi A., Satymov R., **Etongo D.,** Lavidas G., Oyewo A.S., Khalili S., Breyer C. (2024). Future role of wave power in Seychelles: A structured sensitivity analysis empowered by a novel EnergyPLAN-based optimization tool. *Energy*. <https://doi.org/10.1016/j.energy.2024.131905>
- Epule TE, **Etongo D,** Andriamasinoro J. (2024). Identifying yield and growing season precipitation gaps in Cameroon. *Journal of Water & Climate Change*, 15 (2): 499–517. <https://doi.org/10.2166/wcc.2024.447>
- **Duncan MI,** Micheli F, Marques JA, Lowe CJ, Hamilton SL, Sperling EA. 2024. Temperature dependent hypoxia tolerance of purple sea urchin *Strongylocentrotus purpuratus* across biogeography and ontogeny. *Marine Ecology Progress Series*, 739: 129-146. DOI: 10.3354/meps14602.
- Edworthy C, James NC, Pots WM, **Duncan MI,** Dupont S. 2024. Temperate coastal fish shows resilience to extreme low pH in early larval stages. *Journal of Experimental Marine Biology and Ecology*, 578. DOI: 10.1016/j.jembe.2024.152037.
- March A, Evens T, **Laing SCS,** Raguain J. 2024. Evaluating the World's First Sovereign Blue Bond: Lessons for Operationalising Blue Finance. *Commodities* 3(2) 151-167. DOI: 10.3390/commodities3020010.

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- **Etongo D.,** Serret L., Epule TE., **Bristol U.,** Nancy K., Sinon S. (2023). Farm households' adoption of climate-smart agricultural practices: Empirical evidence from Seychelles. *GeoJournal*. <https://doi.org/10.1007/s10708-023-10945-z>
- **Etongo D.,** Lafleur H, **Vel T.** (2023). Community perceptions and attitudes towards the management of protected areas in Seychelles with Morne Seychellois National Park as case study. *World Development Sustainability*. <https://doi.org/10.1016/j.wds.2023.100091>

- **Etongo D.**, Bristol U., Epule TE., Bandara A., Sinon S. (2023). Expert elicitations of smallholder agroforestry practices in the Seychelles: A SWOT-AHP analysis. *Regional Sustainability* 2023 4(3). <https://doi.org/10.1016/j.regfus.2023.08.006>
- **Etongo D.** (2023). Mainstreaming climate adaptation into sectoral policies in Seychelles. *Seychelles Research Journal* 5(2): 37-58.
- **Etongo D.** (2023). A situational analysis of agricultural development, food, and livelihood security in Seychelles: Where to from here? *PLOS Climate* 2(4): e0000192. <https://doi.org/10.1371/journal.pclm.0000192>
- **Duncan MI**, Micheli F, Boag TH, Marquez JA, Deres H, Deutsch CA, Sperling EA. 2023. Oxygen availability and body mass modulate organismal responses to ocean warming. *Nature Communications*, 14. DOI: 10.1038/s41467-023-39438-w.
- Pringle BA, **Duncan MI**, et al. 2023. Ocean warming favours a northern *Argyrosomus* species over its southern congener, whereas preliminary metabolic evidence suggests that hybridization may promote their adaptation. *Conservation Physiology*, 11(1). DOI: 10.1093/conphys/coad026
- Stafford, K., Boussarie, G., Caputo, M., Irvine, L. M., **Laing, S.**, Nancy, E., Pearson, H., & Kiszka, J. J. 2023. Acoustic detections and sightings of blue whales (*Balaenoptera musculus*) in the Seychelles, western tropical Indian Ocean (2020-2022). *Endangered Species Research*. <https://doi.org/10.3354/esr01277>
- Verhofstede, A., Dobbelaere, T., **Harlay, J.**, & Hanert, E. 2023. Seychelles Plateau's oil spill vulnerability. *Marine Pollution Bulletin*. <https://doi.org/10.1016/j.marpolbul.2023.115652>
- Lee, C. B., Martin, L., Traganos, D., Antat, S., Baez, S. K., Cupidon, A., Faure, A. J., **Harlay, J.**, Morgan, M., Mortimer, J. A., Reinartz, P., & Rowlands, G. (2023). Mapping the National Seagrass Extent in Seychelles Using PlanetScope NICFI Data. *Remote Sensing*. <https://doi.org/10.3390/rs15184500>
- Stefanoudis, P. V., Fassbender, N., Samimi-Namin, K., Adam, P. A., Ebrahim, A., **Harlay, J.**, Koester, A., Samoilys, M., Sims, H., Swanborn, D. J. B., Talma, S., Winter, S., & Woodall, L. C. (2023). Trait-based approaches reveal that deep reef ecosystems in the Western Indian Ocean are functionally distinct. *Science of the Total Environment*; Elsevier BV. <https://doi.org/10.1016/j.scitotenv.2023.162111>

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- **Etongo D.**, Bandara A., Murugaiyan A., Bristol U., Nancy K., Petrousse B., Sinon S. (2022). Risk perceptions, vulnerability and adaptation to climate change at farm level across four agricultural zones in Seychelles. *World Development Sustainability*. <https://doi.org/10.1016/j.wds.2022.100025>.
- **Etongo D.**, Naidu H. (2022). Determinants of household adoption of solar energy technology in Seychelles in a context of 100% access to electricity. *Discover Sustainability* 3, 38. <https://doi.org/10.1007/s43621-022-00108-4>
- **Etongo D.**, D'Offay K., Vel T., Murugaiyan P., Henriette E. (2022). Growth rate and survivorship of *Rhizophora mucronata*, *Avecennia marina*, and *Ceriops tagal* seedlings with freshwater and seawater treatment for mangrove propagation in nurseries. *Applied Ecology and Environmental Research* 20(6): 5409 – 5431.
- Epule TE., Chehbouni A., Chfadi T., Ongoma V., Er-Raki S., Khaba S., **Etongo D.**, Martinez-Cruz AL., et al. (2022). A systematic national stocktake of crop models in Morocco. *Ecological Modelling* 470, 110036. <https://doi.org/10.1016/j.ecolmodel.2022.110036>

- **Etongo D.**, Gill K. (2022). Local governance capacity needs for implementing climate change adaptation in Seychelles: An assessment based on the Capital Approach. *Challenges* 13, 49. <https://doi.org/10.3390/challe13020049>
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- Woods HA, Moran AL, Atkinson D, ... **Duncan MI**, et al. 2022. Integrative approaches to understanding organismal responses to deoxygenation. *Biological Bulletin*, 243. DOI: 10.1086/722899
- Holly J. Niner, Noel C. Barut, Tom Baum, Daniela Diz, Daniela Laínez del Pozo, **Stuart Laing**, Alana Malinde S.N. Lancaster, Kirsty A. McQuaid, Tania Mendo, Elisa Morgera, Payal N. Maharaj, Ifesinachi Okafor-Yarwood, Kelly Ortega-Cisneros, Tapiwa V. Warikandwa, Sian Rees (2022). Issues of context, capacity and scale: Essential conditions and missing links for a sustainable blue economy. *Environmental Science & Policy* (130). pp25-35. ISSN 1462-9011. <https://doi.org/10.1016/j.envsci.2022.01.001>.
- Ramessur, R. T., Dupont, S., **Harlay, J.**, Pearton, D., Porter, S. N., de Abreu, D. C., Kirimei, A., Neehaul, Y., Boodhoo, K., Okuku, E., Rushingisha, G & Scarlet, M. P. (2022). Ocean Acidification: A hidden risk to sustainable development in the Western Indian Ocean. *WIO Science to Policy Platform Series*, 1-7.

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- Djenontin, I.N.S., Zulu, L.C., **Etongo, D.** (2021). Ultimately, What is Forest Landscape Restoration in Practice? Embodiments in Sub-Saharan Africa and Implications for Future Design. *Environmental Management* 68, 619–641. <https://doi.org/10.1007/s00267-020-01360-y>
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- **Etongo, D.**, Arrisol, L. (2021). Vulnerability of fishery-based livelihoods to climate variability and change in a tropical island: insights from small-scale fishers in Seychelles. *Discov Sustain* 2, 48. <https://doi.org/10.1007/s43621-021-00057-4>
- Epule, T.E., Dhiba, D., **Etongo, D.** et al. Identifying maize yield and precipitation gaps in Uganda. *SN Appl. Sci.* 3, 537 (2021). <https://doi.org/10.1007/s42452-02104532-5>
- **Etongo D.**, Barbe R., Monthy M., Millett J., Henriette E., Vel T. (2021). Community engagement in forest rehabilitation within the context of a tropical island: Insights from Praslin, Seychelles. *Applied Ecology & Environmental Research* 19(5): 4185-4217. DOI: http://dx.doi.org/10.15666/aecer/1905_41854217

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- **Laing, S.C.S.** (2020). Blue Economy and blue bonds: An overview of the concepts and the pioneering case of Seychelles. *Seychelles Research Journal*, 2:1, 155-164
- **Etongo, D.**, Vel, T., Port-Louis, A. (2020). Community perceptions of climate change vulnerability in Seychelles and some considerations on data and methodological gaps. *Seychelles Research Journal* 2(2): 93-120.