

2013 Publications with a Ma-Re address

Peer reviewed journal articles (59):

1. Achterberg, E.P., Moore, C.M., Henson, S.A., Steigenberger, S., Stohl, A., Eckhardt, S., Avendano, L.C., Cassidy, M., Hembury, D., Klar, J.K., Lucas, M.I. et al. 2013. Natural iron fertilization by the Eyjafjallajökull volcanic eruption. *Geophysical Research Letters* 40(5):921-926. DOI:10.1002/grl.50221.
2. Barlow, R., Lamont, T., Britz, K. & Sessions, H. 2013. Mechanisms of phytoplankton adaptation to environmental variability in a shelf ecosystem. *Estuarine, Coastal and Shelf Science* 133: 45-57. DOI: 10.1016/j.ecss.2013.08.006.
3. Barshep, Y., Minton, C.D.T., Underhill, L.G., Erni, B. and Tomkovich, P. 2013. Flexibility and constraints in the molt schedule of long distance migratory shorebirds: causes and consequences. *Ecology and Evolution* 3(7): 1967– 1976. DOI:10.1002/ece3.612.
4. Barshep, Y., Underhill, L.G., Balachandran, S. and Pearson, D.J. 2013. Conditions on the non-breeding areas affect primary moult strategy of the Curlew Sandpiper *Calidris ferruginea*. *Ardea* 101(1):13-22. DOI:10.5253/078.101.0114.
5. Best L.N., Attwood C.G., Silva C.D., Lamberth S.J. 2013. Chondrichthyan occurrence and abundance trends in False Bay, South Africa, spanning a century of catch and survey records. *African Zoology* 48:2, 201-227. DOI:10.3377/004.048.0201.
6. Blamey, L.K., Plagányi, E.E. and Branch, G.M. 2013. Modeling a regime shift in a kelp forest ecosystem caused by a lobster range expansion. *Bulletin of Marine Science* 89(1):347-375. DOI:10.5343/bms.2011.1127.
7. Blamey, R.C. & Reason, C.J.C. 2013. The role of mesoscale convective complexes in southern Africa summer rainfall. *Journal of climate* 26(5):1654-1668. DOI:10.1175/JCLI-D-12-00239.1.
8. Bonato, M., Evans, M.R., Hasselquist, D., Sherley, R.B., Cloete, S.W.P. & Cherry, M.I. 2013. Ostrich chick humoral immune responses and growth rate are predicted by parental immune responses and paternal colouration. *Behavioral Ecology and Sociobiology* 67:1891–1901. DOI:10.1007/s00265-013-1597-3.
9. Bosch, A.C., Sigge, G.O., Kerwath, S.E., Cawthorn, D.-M. and Hoffman, L.C. 2013. The effects of gender, size and life-cycle stage on the chemical composition of smoothhound shark (*Mustelus mustelus*) meat. *Journal of the Science of Food and Agriculture* 93(10):2384-2392. DOI:10.1002/jsfa.6100.
10. Branch, G.M., Bustamante, R.H. & Robinson, T.B. 2013. Impacts of a 'black tide' harmful algal bloom on rocky-shore intertidal communities on the West Coast of South Africa. *Harmful Algae* 24:54-64. DOI:10.1016/j.hal.2013.01.005.
11. Browne, C.M., Maneveldt, G.W., Bolton, J.J. and Anderson, R.J. 2013. Abundance and species composition of non-geniculate coralline red algae epiphytic on the South African populations of the rocky shore seagrass *Thalassodendron leptocaula* M.C. Duarte, Bandeira & Romeiras. *South African Journal of Botany* 86:101-110. DOI:10.1016/j.sajb.2013.02.173.
12. Browne, C.M., Milne, R., Griffiths, C., Bolton, J.J. & Anderson, R.J. 2013. Epiphytic seaweeds and invertebrates associated with South African populations of the rocky shore seagrass *Thalassodendron leptocaula* - a hidden wealth of biodiversity. *African Journal of Marine Science* 35(4):523-531. DOI: 10.2989/1814232X.2013.864332.
13. Crichton, M., Hutchings, L., Lamont, T. and Jarre, A. 2013. From physics to phytoplankton: prediction of dominant cell size in St Helena Bay in the Southern Benguela. *Journal of Plankton Research* 35(3):526-541. DOI:10.1093/plankt/fbt012.
14. Currie, J.C., Lengaigne, M., Vialard, J., Kaplan, D. M., Aumont, O., Naqvi, S. W. A., & Maury O. 2013. Indian Ocean Dipole and El Niño/Southern Oscillation impacts on regional chlorophyll anomalies in the Indian Ocean. *Biogeosciences* 10, 6677–6698. DOI:10.5194/bg-10-6677-2013.
15. da Silva, C., Kerwath, S., Attwood, C., Thorstad, E., Cowley, P., Økland, F., Wilke, C. and Næsje, T. 2013. Quantifying the degree of protection afforded by a no-take marine

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- reserve on an exploited shark. *African Journal of Marine Science* 35(1):57-66. DOI: 10.2989/1814232X.2013.769911.
16. Field, J.G., Attwood, C.G., Jarre, A., Sink, K., Atkinson, L.J. & Petersen, S. 2013. Cooperation between scientists, NGOs and industry in support of sustainable fisheries: The South African hake *Merluccius* spp. trawl fishery experience. *Journal of Fish Biology* 83(4):1019-1034. DOI:10.1111/jfb.12118.
 17. Fleddum, A., Atkinson, L.A., Field, J.G. and Shin, P. 2013. Changes in biological traits of macro-benthic communities subjected to different intensities of demersal trawling along the west coast of southern Africa. *Journal of the Marine Biological Association of the United Kingdom* 93(8), 2027–2038. DOI: 10.1017/S0025315413000647.
 18. Fu, C., Perry, R.I., Shin, Y.-J., Schweigert, J. and Liu, H. 2013. An ecosystem modelling framework for incorporating climate regime shifts into fisheries management. *Progress in Oceanography* 115:53-64. DOI:10.1016/j.pocean.2013.03.003
 19. Gibberd, M.-J., Kean, E., Barlow, R., Thomalla, S. and Lucas, M. 2013. Phytoplankton chemotaxonomy in the Atlantic sector of the Southern Ocean during late summer 2009. *Deep-Sea Research Part I: Oceanographic Research Papers* 78:70-78. DOI:10.1016/j.dsr.2013.04.007.
 20. Glazewski, J. 2013. Ocean governance: A first step. *South African Journal of Science* 109(3/4), Art.#a011, 2pages. DOI:10.1590/sajs.2013/a011.
 21. Hutchinson, K.A., Swart, S., Ansorge, I.J. and Goni, G.J. 2013. Exposing XBT bias in the Atlantic sector of the Southern Ocean. *Deep-Sea Research Part I: Oceanographic Research Papers* 80:11-22. DOI:10.1016/j.dsr.2013.06.001.
 22. Jarre, A., Ragaller S. M., and Hutchings L. 2013. Long-term, ecosystem-scale changes in the southern Benguela marine pelagic social-ecological system: interaction of natural and human drivers. *Ecology and Society* 18(4): Article 55, 15pp. DOI: 10.5751/ES-05917-180455.
 23. Kerwath, S.E., Winker, H., Götz, A. and Attwood, C.G. 2013. Marine protected area improves yield without disadvantaging fishers. *Nature Communications* 4:2347. DOI: 10.1038/ncomms3347.
 24. Kirkman, S.P., Yemane, D., Kathena, J., Mafwila, S.K., Nsiangango, S.E., Samaai, T., Axelsen, B. and Singh, L. 2013. Identifying and characterizing demersal fish biodiversity hotspots in the Benguela Current Large Marine Ecosystem: relevance in the light of global changes. *ICES Journal of Marine Science* 70(5):943-954. DOI:10.1093/icesjms/fst040.
 25. Lill, A.W.T., Schallenberg, M., Lal, A., Savage, C. & Closs, G.P. 2013. Isolation and connectivity: Relationships between periodic connection to the ocean and environmental variables in intermittently closed estuaries. *Estuarine, Coastal and Shelf Science* 128:76-83. DOI:10.1016/j.ecss.2013.05.011.
 26. Mattio, L., Zubia, M., Loveday, B., Crochelet, E., Duong, N., Payri, C.E., Bhagooli, R. and Bolton, J.J. 2013. Sargassum (Fucales, Phaeophyceae) in Mauritius and Réunion, western Indian Ocean: taxonomic revision and biogeography using hydrodynamic dispersal models. *Phycologia* 52(6), 578–594. DOI:10.2216/13-150.1.
 27. Mead, A., Griffiths, C.L., Branch, G.M., McQuaid, C.D., Blamey, L.K., Bolton, J.J., Anderson, R.J., Dufois, F., Rouault, M., Froneman, P.W., Whitfield, A.K., Harris, L.R., Nel, R., Pillay, D. and Adams, J.B. 2013. Human-mediated drivers of change — impacts on coastal ecosystems and marine biota of South Africa. *African Journal of Marine Science* 35(3): 403–425. DOI:10.2989/1814232X.2013.830147.
 28. Milne, R & Griffiths C.L. 2013. Additions and revisions to the amphipod (Crustacea: Amphipoda) fauna of South Africa, with a list of currently known species from the region. *African Natural History* 9: 61-90.
 29. Miloslavich, P., Cruz-Motta, J.J., Klein, E., Iken, K., Weinberger, V., et al. [Mead, A.] 2013. Large-scale spatial distribution patterns of Gastropod assemblages in rocky shores. *PLoS ONE* 8(8): e71396. DOI:10.1371/journal.pone.0071396.
 30. Moloney, C. L., Coyne, V.E., Griffiths, C.L., Scott, D. and Sowman, M. 2013. Society, marine ecosystems, innovation and change: current states of knowledge in South Africa. *African Journal of Marine Science* 35:3, 359-360. DOI:10.2989/1814232X.2013.848044. [Preface]
 31. Moloney, C. L., Fennessy, S. T., Gibbons, M. J., Roychoudhury, A., Shillington, F. A., von der Heyden, B. P., and Watermeyer, K. 2013. Reviewing evidence of marine

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- ecosystem change off South Africa. *African Journal of Marine Science* 35:3, 427-448. DOI:10.2989/1814232X.2013.836135.
32. Morris, T., Lamont, T. and Roberts, M. J. 2013. Effects of deep-sea eddies on the northern KwaZulu-Natal shelf, South Africa. *African Journal of Marine Science* 35:3, 343-350. DOI:10.2989/1814232X.2013.827991.
33. Ndimele, P.E. and Ndimele, C.C. 2013. Comparative effects of biostimulation and phytoremediation on crude oil degradation and absorption by water hyacinth (*Eichhornia crassipes* [Mart.] Solms). *International Journal of Environmental Studies* 70(2):241-258. DOI:10.1080/00207233.2013.771503. [Non-accredited journal]
34. Ndjaula, H.O.N., Gerow, K.G., van der Lingen, C.D., Moloney, C.L. and Jarre, A. 2013. Establishing a baseline for evaluating changes in body condition and population dynamics of sardine (*Sardinops sagax*) in the southern Benguela ecosystem. *Fisheries Research* 147: 253– 263. DOI:10.1016/j.fishres.2013.06.006.
35. Ndjaula, H.O.N., Krakstad, J-O. and Kjesbu, O. 2013. Reproductive biology of horse mackerel *Trachurus capensis* and *Trachurus trecae* in Namibia and Angola. *African Journal of Marine Science* 35(2):141-150. DOI:10.2989/1814232X.2013.805595.
36. Paterson, B., Kirchner C., and Ommer, R. E. 2013. A short history of the Namibian hake fishery—a social ecological analysis. *Ecology and Society* 18(4): 66. DOI: 10.5751/ES-05919-180466.
37. Peloquin, J., Swan, C., Gruber, N., Vogt, M., Claustre, H., Ras, J., Uitz, J., Barlow, R., Behrenfeld, M., Bidigare, R., Dierssen, H., Ditullio, G., Fernandez, E., Gallienne, C., Gibb, S., Goericke, R., Harding, L., Head, E., Holligan, P., Hooker, S., Karl, D., Landry, M., Letellie, R., Llewellyn, C.A., Lomas, M., Lucas, M., Mannino, A., Marty, J.-C., Mitchell, B. G., Muller-Karger, F., Nelson, N., O'Brien, C., Prezelin, B., Repeta, D., Smith Jr., W.O., Smythe-Wright, D., Stumpf, R., Subramaniam, A., Suzuki, K., Trees, C., Vernet, M., Wasmund, N., and Wright, S. 2013. The MAREDAT global database of high performance liquid chromatography marine pigment measurements. *Earth Systems Science Data* 5: 109–123. DOI: 10.5194/essd-5-109-2013. [Non-accredited journal]
38. Pillay, D., Perissinotto, R. 2013. Benthic macrofauna of an estuarine lake during a drought: spatio-temporal drivers under different hydrological states. *Marine Ecology Progress Series* 492: 111-123. DOI: 10.3354/meps10474.
39. Porter, S.N., Branch, G.M. and Sink, K.J. 2013. Biogeographic patterns on shallow subtidal reefs in the western Indian Ocean. *Marine Biology* 160(5):1271-1283. DOI:10.1007/s00227-013-2179-7.
40. Richard, Y., Rouault, M., Pohl, B., Cr´etat, J., Duclot, I., Taboulot, S., Reason, C.J.C., Macron, C. & Buiron, D. 2013. Temperature changes in the mid- and high-latitudes of the Southern Hemisphere. *International Journal of Climatology* 33: 1948-1963. DOI:10.1002/joc.3563.
41. Rouault, M., Sen Roy, S. and Balling Jr., R.C. 2013. The diurnal cycle of rainfall in South Africa in the austral summer. *Short Communication. International Journal of Climatology* 33: 770–777. DOI:10.1002/joc.3451.
42. Roux, J.-P., Van Der Lingen, C.D., Gibbons, M.J., Moroff, N.E., Shannon, L.J., Smith, A.D.M. and Cury, P.M. 2013. Jellyfication of marine ecosystems as a likely consequence of overfishing small pelagic fishes: lessons from the Benguela. *Bulletin of Marine Science* 89(1):249-284. DOI:10.5343/bms.2011.1145.
43. Ruiz Sebastián, C. and McClanahan, T.R. 2013. Description and validation of production processes in the coral reef ecosystem model CAFFEE (Coral-Algae-Fish-Fisheries Ecosystem Energetics) with a fisheries closure and climatic disturbance. *Ecological Modelling* 263:326-348. DOI:10.1016/j.ecolmodel.2013.05.012.
44. Ryan-Keogh, T.J., Macey, A.I., Nielsdóttir, M.C., Lucas, M.I., Steigenberger, S.S., Stinchcombe, M.C., Achterberg, E.P., Bibby, T.S. et al. 2013. Spatial and temporal development of phytoplankton iron stress in relation to bloom dynamics in the high-latitude North Atlantic Ocean. *Limnology and oceanography* 58(2):533-545. DOI:10.4319/lo.2013.58.2.0533.
45. Scholtz, R., Bolton, J. and Macey, B. 2013. Effects of different microalgal feeds and their influence on larval development in the white-spined sea urchin *Tripneustes gratilla*. *African Journal of Marine Science* 35(1):25-34. DOI:10.2989/1814232X.2013.769902.

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46. Schüller, S.E., Allison, M.A., Bianchi, T.S., Feng, T., **Savage, C.** 2013. Historical variability in past phytoplankton abundance and composition in Doubtful Sound, New Zealand. *Continental Shelf Research* 69:110–122. DOI:10.1016/j.csr.2013.09.021.
47. Sen Roy, S. & **Rouault, M.** 2013. Spatial patterns of seasonal scale trends in extreme hourly precipitation in South Africa. *Applied Geography* 39(0):151-157. DOI:10.1016/j.apgeog.2012.11.022.
48. **Sherley, R.B., Ludynia, K.,** Lamont, T., Roux, J., Crawford, R.J.M. & **Underhill, L.G.** 2013. The initial journey of an endangered penguin: implications for seabird conservation. *Endangered Species Research* 21(1):89-95. DOI: 10.3354/esr00510. [Non-accredited journal]
49. **Sherley, R.B., Underhill, L.G.,** Barham, B.J., Barham, P.J., Coetzee, J.C., Crawford, R.J.M., Dyer, B.M., Leshoro, T.M. et al. 2013. Influence of local and regional prey availability on breeding performance of African penguins *Spheniscus demersus*. *Marine Ecology Progress Series* 473:291-301. DOI: 10.3354/meps10070.
50. **Shuuluka, D., Bolton, J.J. and Anderson, R.J.** 2013. Protein content, amino acid composition and nitrogen-to-protein conversion factors of *Ulva rigida* and *Ulva capensis* from natural populations and *Ulva lactuca* from an aquaculture system, in South Africa. *Journal of Applied Phycology* 25(2):677-685. DOI:10.1007/s10811-012-9902-5.
51. Smit, A.J., Roberts, M., **Anderson, R.J., Dufois, F.,** Dudley, S.F.J., Bornman, T.G., Olbers, J. & **Bolton, J.J.** 2013. A coastal seawater temperature dataset for biogeographical studies: large biases between in situ and remotely-sensed data sets around the coast of South Africa. *PLoS ONE* 8(12): e81944. DOI:10.1371/journal.pone.0081944.
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53. Tew Kai, E., Benhamou, S., **van der Lingen, C.D.,** Coetzee, J.C., Pichegru, L., Ryan, P.G. and Grémillet, D. 2013. Are Cape gannets dependent upon fishery waste? A multi-scale analysis using seabird GPS-tracking, hydro-acoustic surveys of pelagic fish and vessel monitoring systems. *Journal of Applied Ecology* 50(3):659-670. DOI:10.1111/1365-2664.12086.
54. **Towner, A.V., Underhill, L.G.,** Jewell, O.J.D. and Smale, M.J. 2013. Environmental influences on the abundance and sexual composition of White Sharks *Carcharodon carcharias* in Gansbaai, South Africa. *PLoS ONE* 8(8): e71197. DOI:10.1371/journal.pone.0071197.
55. **Treasure, A.M., Moloney, C.L.,** Bester, M.N., McQuaid, C.D., Findlay, K.P., Best, P.B., Cowan, D.A., De Bruyn, P.J.N. et al. 2013. South African research in the Southern Ocean: new opportunities but serious challenges. *South African Journal of Science* 109(3/4). Art. #a009. 4 pages. DOI:10.1590/sajs.2013/a009.
56. van Aken, H.M., **Lutjeharms, J.R.E., Rouault, M., Whittle, C.** and De Ruijter, W.P.M. 2013. Observations of an early Agulhas current retroflexion event in 2001: a temporary cessation of inter-ocean exchange south of Africa? *Deep-Sea Research Part I: Oceanographic Research Papers* 72:1-8. DOI:10.1016/j.dsr.2012.11.002.
57. **Weltz, K., Kock, A.A., Winker, H., Attwood, C.** and Sikweyiya, M. 2013. The Influence of environmental variables on the presence of white sharks, *Carcharodon carcharias* at two popular Cape Town bathing beaches: a Generalized Additive Mixed Model. *PLoS ONE*: 8(7), e68554. DOI:10.1371/journal.pone.0068554.
58. **Wilhelm, M. R.,** Roux, J-P., **Moloney, C. L., and Jarre, A.** 2013. Data from fur seal scats reveal when Namibian *Merluccius capensis* are hatched and how fast they grow. *ICES Journal of Marine Science* 70 (7):1429-1438. DOI: 10.1093/icesjms/fst101.
59. **Winker, H., Kerwath, S.E. & Attwood, C.G.** 2013. Comparison of two approaches to standardize catch-per-unit-effort for targeting behaviour in a multispecies hand-line fishery. *Fisheries Research* 139:118-131. DOI: 10.1016/j.fishres.2012.10.014.

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