

SCIENTIFIC OUTPUT OF THE BRANCH: FISHERIES MANAGEMENT OF THE DEPARTMENT OF AGRICULTURE, FORESTRY AND FISHERIES

2014

This document lists the scientific output of the Fisheries Management Branch for 2014, arranged by output category. There are 22 peer-reviewed papers (similar to 2012 and 2013); 16 book chapters, published reports and popular articles; 83 contributions to symposia and conferences, and public presentations (many of which were presentations at the 15th Southern African Marine Science Symposium held at the University of Stellenbosch in July 2014); 29 contributions to workshops and management and scientific bodies, and unpublished technical reports; and 81 unpublished working group documents (non-administrative documents). This last category represents the output of the research component of the Branch in terms of its line function to provide scientific advice for resource management.

Peer-reviewed Publications (names of DAFF staff shown in bold)

- Christiansen HM, Hussey NE, Wintner SP, Cliff G, **Dudley SFJ**, Fisk AT. 2014. Effect of sample preparation techniques for carbon and nitrogen stable isotope analysis of hydroxyapatite structures in the form of elasmobranch vertebral centra. *Rapid Communications in Mass Spectrometry* 28: 448–456.
- Cohen LA, Pichegru L, Grémillet D, **Coetzee J**, Upfold L, Ryan PG. 2014. Changes in prey availability impact the foraging behaviour and fitness of Cape gannets over a decade. *Marine Ecology Progress Series* 505: 281–293.
- Cyrus MD, Bolton JJ, **Macey BM**, de Wet L. 2014. The use of a formulated feed containing cultivated seaweed (*Ulva*, Chlorophyta) to promote rapid growth and enhanced production of high quality roe in the sea urchin *Tripneustes gratilla*. *Aquaculture Research* 45: 159–176.
- Götz A, **Kerwath SE**, Samaai T, **Da Silva C**, **Wilke CG**. 2014. An exploratory investigation of the fish communities associated with reefs on the central Agulhas Bank, South Africa. *African Zoology* 49: 253–264.
- Green DB, Klages NTW, Crawford RJM, **Coetzee JC**, Dyer BM, Rishworth GM, Pistorius PA. 2014. Dietary change in Cape gannets reflects distributional and demographic shifts in two South African commercial fish stocks. *ICES Journal of Marine Science* 72: 771–781.
- Groeneveld JC, Cliff G, **Dudley SFJ**, Foulis AJ, Santos J, Wintner SP. 2014. Population structure and biology of shortfin mako *Isurus oxyrinchus* in coastal and offshore waters of the South West Indian Ocean. *Marine and Freshwater Research* 65: 1045–1058.
- Hara MM, Rogerson J, **de Goede J**, Raakjær J. 2014. Fragmented participation in management of the fishery for small pelagic fish in South Africa – inclusion of small-rights holders is a complex matter. *African Journal of Marine Science* 36: 185–196.
- Hussey NE, MacNeil MA, McMeans BC, Olin JA, **Dudley SFJ**, Cliff G, Wintner SP, Fennessy ST, Fisk AT. 2014. Re-scaling the trophic structure of marine food webs. *Ecology Letters* 17: 239–250.
- Lamberth SJ**, Joubert AR. 2014. Prioritising species for research, conservation and management: a case study of exploited fish species. *African Journal of Marine Science* 36: 345–360.
- Louw GG**, Fréon P, Huse G, Lipiński MR, **Coetzee JC**. 2014. Pelagic fish species assemblages in the southern Benguela. *African Journal of Marine Science* 36: 69–84.
- Lucas AJ, **Pitcher GC**, **Probyn TA**, Kudela RM. 2014. The influence of diurnal winds on phytoplankton dynamics in a coastal upwelling system off south western Africa. *Deep-Sea Research II* 101: 50–62.
- McHugh KJ, **Christison KW**, Weyl OLF, Smit NJ. 2014. Histological confirmation of epizootic ulcerative syndrome in two cyprinid species from Lake Liambezi, Zambezi Region, Namibia. *African Zoology* 49: 311–316.
- Mirimin L, **Kerwath S**, **Macey BM**, Bester-van der Merve A, **Lamberth SJ**, Bloomer P, Roodt-Wilding R. 2014. Identification of naturally occurring hybrids between two over-exploited sciaenid species along the South African coast. *Molecular Phylogenetics and Evolution* 76: 30–33.
- Nel A, **Pitcher G**, Richoux NB, Jackson S. 2014. Culture environment and hatchery of origin influence growth, condition and feeding organ morphology in the Pacific oyster *Crassostrea gigas* in South Africa. *African Journal of Marine Science* 36: 481–491.
- Pitcher GC**, Cembella AD, Krock B, **Macey BM**, **Mansfield L**, **Probyn TA**. 2014. Identification of the marine diatom *Pseudo-nitzschia multiseriis* (Bacillariophyceae) as a source of the toxin domoic acid in Algoa Bay, South Africa. *African Journal of Marine Science* 36: 523–528.
- Pitcher GC**, **Probyn TA**, **du Randt A**, Lucas AJ, Bernard S, Evers-King H, Lamont T, Hutchings L. 2014. Dynamics of oxygen depletion in the nearshore of a coastal embay-

ment of the southern Benguela upwelling system. *Journal of Geophysical Research Oceans* 199: 2183–2200.

Shabangu FW, Ona E, **Yemane D**. 2014. Measurements of acoustic attenuation at 38kHz by wind-induced air bubbles with suggested correction factors for hull-mounted transducers. *Fisheries Research* 151: 47–56.

van der Lingen CD, Miller TW. 2014. Spatial, ontogenetic and interspecific variability in stable isotope ratios of nitrogen and carbon of Cape hakes *Merluccius capensis* and *Merluccius paradoxus* off South Africa. *Journal of Fish Biology* 85: 456–472.

Ward VL, **Leslie RW**, Graham JMD, Christie D. 2014. Photographic records of grey-backed storm petrels *Garrodia nereis* in South African waters. *Ornithological Observations* 5: 301–303.

Weir CR, Coles P, Ferguson A, May D, Baines M, Figueirido I, Reichelt M, Goncalves L, de Boer MN, Rose B, Edwards M, Travers S, Ambler M, Félix H, Wall D, Azhakesan VAA, Betenbaugh M, Fennelly L, Haaland S, Hak G, Juul T, **Leslie RW**, McNamara B, Russell N, Smith JA, Tabisola HM, Teixeira A, Vermeulen E, Vines J, Williams A. 2014. Clymene dolphins (*Stenella clymene*) in the eastern tropical Atlantic: distributional, group size, and pigmentation pattern. *Journal of Mammalogy* 95: 1289–298. DOI:10.1644/14-MAMM-A-115

Winker H, **Kerwath SE**, Attwood CG. 2014. Proof of concept for a novel procedure to standardize multispecies catch and effort data. *Fisheries Research* 155: 149–159.

Yemane D, Kirkman SP, Kathena J, N'siangango SE, Axelsen BE, Samaai T. 2014. Assessing changes in the distribution and range size of demersal fish populations in the Benguela Current Large Marine Ecosystem. *Reviews in Fish Biology and Fisheries* 24: 463–483.

Book Chapters, Published Reports and Popular Articles

Bernard S, **Pitcher G**, Evers-King H, Robertson L, Matthews M, Rabagliati A, Balt C. 2014. Ocean colour remote sensing of harmful algal blooms in the Benguela System. In: Barale V, Gade M (eds), *Remote sensing of African shelf seas*. Netherlands: Springer. pp 185–203.

Freier U, Nehrke G, Teschke M, Yilmaz N, Götz A, **Kerwath SE**, Schulze B, **Auerswald L**. 2014. Scientific diving under Antarctic winter conditions. *Reports on Polar and Marine Research* 674: 10–12.

Garrido S, **van der Lingen CD**. 2014. Feeding biology and ecology. In: Ganius K (ed.), *Biology and ecology of sardines and anchovies*. Boca Raton, Florida, USA: CRC Press. pp 122–189.

Githaiga-Mwiciji JM. 2014. Making waves. The likely effects of seismic surveys on the squid resource and fishery. *Fishing Industry News Southern Africa*, December. 14–16.

Githaiga-Mwiciji JM. 2014. Squid egg detection on sonar? What about quantification? An experiment. *Fishing Industry News Southern Africa*, October. 20–21.

Götz A, **Kerwath SE**, **Auerswald L**. 2014. Diving under the ice: a first attempt at quantitative krill assessments in the Antarctic winter. *SAEON eNews* April 2014.

Meyer B, **Auerswald L** (eds). 2014. *The expedition of the research vessel "Polarstern" to the Antarctic in 2013 (ANT-XXIX/7)*. *Reports on Polar and Marine Research* 674.

Meyer B, Cantzler H, Halbach L, Krieger M, Teschke M, Mattfeldt T, Freier U, Nehrke G, Yilmaz N, Götz A, **Kerwath SE**,

Schulze B, **Auerswald L**. 2014. Physiological condition of krill, with emphasis on the larval stages, in relation to biological and physical open water and sea ice condition. *Reports on Polar and Marine Research* 674: 13–14.

Reed C, **van der Lingen CD**. 2014. Visit review. *PARSA Quarterly Newsletter*, October. 5.

Shabangu FW. 2014. Active and passive acoustic technology. In: Mtontsi T (ed.), *Marine science and climate change: elevating excellence in school science*. (Grade 11 Marine Science Programme Booklet.) Cape Town: South African Environmental Observation Network (SAEON), Egagasini Node. pp 21–23.

Shabangu FW. 2014. A whale biologist's perspective of a whaling station. *South Georgia Newsletter*, August. 4–6.

Shabangu FW. 2014. If you need me, call: Antarctic blue whale vocalization. *Fishing Industry News Southern Africa* 15: 20–21.

Shabangu FW. 2014. Why do echo sounders and sonars see less fish in bad weather? *Maritime Review Africa Magazine*, November/December. 20–23.

Shabangu FW, **Coetzee JC**, Hampton I, **Kerwath SE**, de Wet WM, Lezama-Ochoa A. 2014. Hydro-acoustic technology and its application to marine science in South Africa. In: Funke N, Claassen M, Meissner R, Nortje K (eds), *Reflections on the state of research and development in the marine and maritime sectors in South Africa*. Pretoria: Council for Scientific and Industrial Research. pp 122–152.

Shabangu FW, Findlay KP. 2014. Out of the blue – acoustic monitoring of southern African blue whales. *SANCOR [South African Network for Coastal and Oceanic Research]*, *Newsletter* 204: 1–s3.

Shabangu FW, Findlay K. 2014. Passive acoustic monitoring of marine mammals in South Africa, with special reference to Antarctic blue whales. In: Funke N, Claassen M, Meissner R, Nortje K (eds), *Reflections on the state of research and development in the marine and maritime sectors in South Africa*. Pretoria: Council for Scientific and Industrial Research. pp 153–173.

Contributions to Symposia and Conferences, and Public Presentations

Anderson RJ, Stegenga H, Bolton JJ, **Boothroyd CJT**, **Kemp FA**, Maneveldt GW. 2014. Seaweeds of the South African south coast – filling the gap. *28th Congress of the Phycological Society of Southern Africa, 13–17 January 2014, Melkbosstrand, South Africa*. (oral presentation)

Atkins F, **Probyn TA**, **Pitcher GC**, Bernard S, Moloney C. 2014. The importance of cell size in nitrogen nutrition in phytoplankton assemblages at upwelling/downwelling cycles in the southern Benguela upwelling system. *15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa*. (oral presentation)

Bolton JJ, De Clerck O, Leliaert O, **Anderson RJ**. 2014. The importance of molecular sequencing in detecting seaweed introductions into South Africa. *15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa*. (oral presentation)

Bolton JJ, Mattio L, Francis C, Leliaert F, De Clerck O, **Anderson RJ**. 2014. There are a lot more than we thought: impacts of molecular sequencing on understanding South African seaweed diversity. *28th Congress of the Phycological Society of*

- Southern Africa, 13–17 January 2014, Melkbosstrand, South Africa. (oral presentation)
- Bosch AC, Sigge GO, **Kerwath SE**, Hoffman LC. 2014. Evaluation of mercury accumulation in yellowfin tuna *Thunnus albacares* muscle with regards to muscle type and muscle position. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Brand M, Bolton JJ, **Macey BM**. 2014. The effect of effluent grown *Ulva* on growth, immunity, and glucose regulation of the cultured abalone *Haliotis midae*. World Aquaculture Meeting, 7–11 June 2014, Adelaide, Australia. (poster presentation)
- Brand M, Bolton JJ, **Macey BM**. 2014. *Ulva* grown in abalone effluent water as a potential substitute for fishmeal based feeds for the cultured abalone *Haliotis midae*. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (poster presentation)
- Cockcroft AC**. 2014. Progress and problems associated with providing scientific advice for the management of the West Coast lobster fishery. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Coetzee JC, Merkle D, Twatwa NM, Rademan J, Phillips M, Shabangu FW, Mushanganyisi K, Geja Y, Hendricks M, van der Lingen CD**. 2014. Thirty years of hydro acoustic pelagic biomass estimation surveys – what have we learnt? 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Cole G, **Christison KW**. 2014. Ichthyophonosis in a multi-species exhibit in a public aquarium. International Congress on Parasites of Wildlife and 43rd Conference of the Parasitology Society of Southern Africa, 14–18 September 2014, Kruger National Park, Skukuza, South Africa. (oral presentation)
- Currie JC, Sink KJ, Atkinson LJ, **Leslie R, Durholtz D**, Attwood CG. 2014. A century of change: comparison of historical and recent trawl surveys. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- da Silva C, Dudley SJF**, Booth AJ, Escobar J, **Kerwath SE, Lamberth SJ**, McCord M, Sauer W, Zweig T. 2014. A description and review of South Africa's chondrichthyan fisheries. Sharks International Conference, 2–6 June 2014, Durban, South Africa. (oral presentation)
- Dopolo M, **Somhlaba S**. 2014. Gill net fishery in Langebaan, consistency in reporting target species and bycatch species. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Dyer AM, Bernard ATF, Götz A, **Kerwath SE**, Winker H. 2014. The ichthyofauna of Walter's Shoal, a shallow seamount in the south-western Indian Ocean. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Elston C, **Anderson RJ, Boothroyd CJT, Kemp FA**. 2014. Bald kelps: can the method of harvesting cause frond loss in *Ecklonia maxima*? 28th Congress of the Phycological Society of Southern Africa, 13–17 January 2014, Melkbosstrand, South Africa. (poster presentation)
- Francis CM, Bolton JJ, Mattio L, **Anderson RJ**. 2014. Biogeography and phylogenetic diversity of the *Laurencia* complex (Rhodophyta) in the southwest Indian Ocean. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Francis CM, Bolton JJ, Mattio L, **Anderson RJ**. 2014. Distribution of the *Laurencia* complex (Rhodomelaceae, Rhodophyta) in the south western Indian Ocean. 28th Congress of the Phycological Society of Southern Africa, 13–17 January 2014, Melkbosstrand, South Africa. (oral presentation)
- Geja Y, Durholtz MD, van der Lingen CD**. 2014. Assessing the use of otolith morphometrics for age estimation of red-eye round herring (*Etrumeus whiteheadi*). 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Githaiga-Mwici JM**. 2014. Impacts and implications of ambient environmental variables on the spatial distribution of squid (*Loligo reynaudii*) on the Agulhas Bank: implications under a changing climate. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (poster presentation)
- Götz A, **Kerwath SE**, Winker H, Attwood CG. 2014. Marine protected area improves yield without disadvantaging fishers. 2nd National Global Change Conference, 1–5 December 2014, Port Elizabeth, South Africa. (oral presentation)
- Groenewald G, Moloney CL, **van der Lingen CD**. 2014. A dynamic energy budget (DEB) model of the growth and reproduction of anchovy (*Engraulis encrasicolus*). 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (poster presentation)
- Gumede ZP, **Coetzee JC, Shabangu FW**, Lezama-Ochoa A. 2014. The efficiency of trawl sampling for apportioning acoustic density between South African pelagic species. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (poster presentation)
- Jarre A, Hutchings L, Kirkman SP, Kreiner A, Tchivalanga P, Kainge P, Uanivi U, van der Plas A, Blamey LK, **Coetzee J**, Lamont T, Samaai T, Verheye HM, **Yemane D**, Axelsen BE, Ostrowski M, Stenevik EK, Loeng H. 2014. Climate effects on biodiversity, abundance and distribution of marine organisms in the Benguela Large Marine Ecosystem: a synthesis. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Johnson V, **Anderson RJ**, Bolton JJ. 2014. Diversity studies on South African *Hypnea* (Cystocloniaceae, Rhodophyta). 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (poster presentation)
- Kerwath SE**, Samaai T, Payne RP, Götz A, Bernard ATF, Kirkman S, Gibbons MJ, Dyer AM, Filander Z, Lamont T, Van den Berg M, Florence W, Pfaff M, De Lecea A, Winker H. 2014. The Walters Shoal expedition: concept, aim and sampling design. SANCOR Seminar Series, 3 November 2014, University of Cape Town, Cape Town, South Africa. (oral presentation)
- Kerwath SE**, Winker H, Götz A, Attwood CG. 2014. Marine protected area improves yield without disadvantaging fishers. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Knapp JL, Bridges C, Krohn J, Hoffman L, **Auerswald L**. 2014.

- Short term response mechanisms of the West coast rock lobster (*J. lalandii*) to decreased seawater pH. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Kogame K, Uwai S, **Anderson RJ**, Choi H-G, Bolton JJ. 2014. CO1 barcoding of South African geniculate corallines. 28th Congress of the Phycological Society of Southern Africa, 13–17 January 2014, Melkbosstrand, South Africa. (oral presentation)
- Lester N, **Auerswald L**, Lucas M. 2014. Impacts of low pH and warming on the South African abalone and mitigation thereof. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Letshelaha I, Lezama-Ochoa A, **Coetzee JC**, **Shabangu F**. 2014. Quantification of the bias associated with the inclusion of sound scattered by zooplankton in acoustic estimates of sardine and anchovy using the bi-frequency method. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (poster presentation)
- Llewellyn R, Götz A, Bernard ATF, **Kerwath S**, Winker W. 2014. The effectiveness of the De Hoop Marine Protected Area in the conservation of reef fish and as a tool for fisheries management. 7th Indibano GSN Conference, 5–8 September 2014, Port Elizabeth, South Africa. (oral presentation)
- Lucas M, Lester N, Dyer A, **Auerswald L**. 2014. Should we worry about ocean acidification impacts in South African Marine systems? 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Macey BM**. 2014. *Haliotricida noduliformans* infection in South African farmed abalone: molecular diagnosis and management. 10th International Mycological Congress, 2–8 August 2014, Bangkok, Thailand. (oral presentation)
- Madibana MJ**, **Fouché CH**. 2014. The effect of *Ulva* supplementation in the diet of cultured dusky kob *Argyrosomus japonicus* (Pisces: Sciaenidae). Marine Aquaculture Industry Liaison Meeting, 1 April 2014, Cape Town, South Africa. (oral presentation)
- Mansfield L**, **Pitcher GC**, **Macey BM**. 2014. Do toxic *Pseudonitzschia* species pose a threat to aquaculture in Saldanha Bay? 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (poster presentation)
- Matjila S, Hoffman LC, Jacobs K, **Kerwath S**, O'Neill B. 2014. Contamination of Cape snoek (*Thyrsites atun*) during capture and on-board storage. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (poster presentation)
- McCord M, **Lamberth SJ**, **Kerwath SE**, **Wilke CG**. 2014. Investigating habitat utilization patterns of bull sharks *Carcharhinus leucas* and their prey, spotted grunter *Pomadasys commersonnii* and dusky kob *Argyrosomus japonicus* in the Breede River estuary. Sharks International Conference, 2–6 June 2014, Durban, South Africa. (oral presentation)
- McGregor ES, Jarre A, **van der Lingen CD**. 2014. Assessing the implementation of an ecosystem approach to fisheries in the South African sardine fishery. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (poster presentation)
- McGregor ES, Jarre A, **van der Lingen CD**, Wals AEJ. 2014. Communicating an ecosystem approach to fisheries management with stakeholders in the South African small pelagics fishery: a tool for boundary crossing and social learning. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- McInnes AM, Pichegru L, Lacerda M, Nyengera R, **van der Lingen CD**, Ropert-Coudert Y, Ryan PG. 2014. Foraging strategies of breeding African penguins, *Spheniscus demersus*, in relation to fine-scale distribution and abundance of pelagic fish species. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Merkle D**, **Coetzee JC**, Lezama-Ochoa A. 2014. Estimating the acoustic target strength of round herring *Etrumeus whiteheadi* through the application of multi-frequency techniques. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (poster presentation)
- Mirimin L, **Kerwath S**, **Macey BM**, Bester-van der Merve A, **Lamberth SJ**, Bloomer P, Roodt-Wilding R. 2014. A kabeljou's tale – unravelling inter- and intra-specific barriers to gene flow in depleted sciaenid species occurring along the South African coast. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Mushanganyisi K**, **Coetzee JC**, **van der Lingen CD**, Moloney C, Huggett JA. 2014. Seasonal variability of zooplankton abundance in the St Helena Bay area and its links to pelagic fish abundance. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (poster presentation)
- Mzimba LM**, Steinarsson A. 2014. The effect of disinfection on survival and feeding quality of rotifers (*Brachionus plicatilis*) and brine shrimp (*Artemia salina*). United Nations University Fisheries Training Programme, Marine Research Institute, Reykjavik, Iceland. (oral presentation)
- Ndjaula HON, **van der Lingen CD**, Jarre A, Moloney C. 2014. Comparing temporal variability in relative weight of sardine, anchovy, and round herring in the southern Benguela. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Novak T, Naylor M, Bridges C, **Auerswald L**. 2014. Physiological response of farmed South African abalone, *Haliotis midae*, to hypercapnic events. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (poster presentation)
- Nunkoo I, Reed C, Attwood C, **Kerwath S**. 2014. Snoek and squatters. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Pfaff MC, Schroeder DC, Flaviani F, Morrissey K, **Pitcher G**, Rybicki EP. 2014. Do viruses terminate red tides and cause severe anoxic events in the Benguela upwelling region? 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Phillips M**, **Yemane D**, **Twatwa N**, **Coetzee JC**. 2014. Remote identification of small pelagic fish schools during acoustic surveys using classification models. 15th Southern African Marine Science Symposium (SAMSS), 15–18 July 2014,

- University of Stellenbosch, South Africa. (poster presentation)
- Pichegru L, Steinfurth A, Sherley RB, Waller LJ, van Eeden RB, Robinson KJ, McInnes A, Oosthuizen A, Moseley C, **van der Lingen CD**, Ryan PG, Crawford RJM. 2014. Experimental fishing exclusions for penguins in South Africa – a success story. *15th Southern African Marine Science Symposium (SAMSS)*, 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Pitcher GC**. 2014. Ecology of harmful algal blooms and their impacts in upwelling and coastal ecosystems. *4th Peruvian Congress of Marine Sciences*, 24–28 June 2014, Lima, Perú. (oral presentation)
- Pitcher GC, Probyn TA**, Smith M. 2014. Estimating the productivity of Saldanha Bay, South Africa. 2014. *28th Congress of the Phycological Society of Southern Africa*, 13–17 January 2014, Melkbosstrand, South Africa. (oral presentation)
- Pitcher GC, Probyn TA**, Pfaff MC, Rybicki E, Schroeder DC. 2014. Causes of anoxia in St Helena Bay. *15th Southern African Marine Science Symposium (SAMSS)*, 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Pitcher GC, Probyn TA**, Pfaff MC, Rybicki E, Schroeder DC. 2014. Red tide and anoxia in a coastal embayment of the southern Benguela upwelling system. *46th International Liege Colloquium – Low Oxygen Environments in Marine, Estuarine and Fresh Waters*, 5–9 May 2014, Liege, Belgium. (oral presentation)
- Reddy M, Bolton JJ, **Anderson RJ**. 2014. Molecular systematics of foliose Bangiales (*Porphyra*) in South Africa. *15th Southern African Marine Science Symposium (SAMSS)*, 15–18 July 2014, University of Stellenbosch, South Africa. (poster presentation)
- Reed CC, MacKenzie K, **van der Lingen CD**. 2014. An overview of applied marine parasitology research in sub-Saharan Africa. *15th Southern African Marine Science Symposium (SAMSS)*, 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Ritter A, Bridges C, **Auerswald L**. 2014. Female physiology and embryonic development in the West Coast rock lobster, *Jasus lalandii*, under hypercapnic conditions. *15th Southern African Marine Science Symposium (SAMSS)*, 15–18 July 2014, University of Stellenbosch, South Africa. (poster presentation)
- Roagasha M, Herbet S, Veitch J, **van der Lingen CD**. 2014. Influence of short-term fine physical processes on the southern Benguela/Agulhas bank connectivity. *15th Southern African Marine Science Symposium (SAMSS)*, 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Rothman MD**, Mattio L, Wernberg T, **Anderson RJ**, Uwai S, Mohring MB, Bolton JJ. 2014. A molecular investigation of the genus *Ecklonia* (Phaeophyceae, Laminariales) with special focus on the Southern Hemisphere. *15th Southern African Marine Science Symposium (SAMSS)*, 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
- Rothman MD**, Mattio L, Wernberg T, **Anderson RJ**, Uwai S, Mohring M, Bolton JJ. 2014. A phylogeny of the kelp genus *Ecklonia* (Laminariales, Lessoniaceae) with special focus on South Africa. *28th Congress of the Phycological Society of Southern Africa*, 13–17 January 2014, Melkbosstrand, South Africa. (oral presentation)
- Shabangu FW**. 2014. Acoustic assessment of Antarctic blue whales *Balaenoptera musculus intermedia* and their prey. *SA Agulhas II Auditorium*, 14 December 2014, Cape Town, South Africa. (oral presentation)
- Shabangu FW, Coetzee JC**, Findlay KP. 2014. Past and present acoustic studies of Antarctic krill *Euphausia superba* in South Africa: from echo rolls to echograms. *15th Southern African Marine Science Symposium (SAMSS)*, 15–18 July 2014, University of Stellenbosch, South Africa. (poster presentation)
- Shabangu FW**, Findlay KP, Best PB. 2014. Acoustic estimations of Antarctic blue whale *Balaenoptera musculus intermedia* relative abundance and distribution using IWC sonobuoy data from 1995 to 2009. *15th Southern African Marine Science Symposium (SAMSS)*, 15–18 July 2014, University of Stellenbosch, South Africa. (oral presentation)
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