

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

2016

This document lists the scientific output of the Fisheries Management Branch for 2016, arranged by output category. Figures in brackets represent the output for 2015, and are included for comparison. In the category 'peer-reviewed publications' there were 39 (37) papers. There were no documents in the category 'theses/dissertations/tertiary projects', which contrasts with a total of six in 2015, and there were two (five) documents in the category 'book chapters, published reports and popular articles'. There were 48 (50) 'contributions to symposia and conferences, and public presentations', of which 16 were presented at the Benguela Symposium held in Cape Town in November and 13 at the 45th Annual Conference of the Parasitological Society of Southern Africa, held in Cape Town in August. There were 26 (24) 'contributions to workshops and management and scientific bodies, and unpublished technical reports'. Finally, there were 83 (66) unpublished working group documents.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)

- Ansorge IJ, Brundrit G, Brundrit J, Dorrington R, Fawcett S, Gammon D, Henry T, Hermes J, Hölscher B, d'Hotman J, Meiklejohn I, Morris T, Pinto I, du Plessis M, Roman R, Saunders C, **Shabangu FW**, de Vos M, Walker DR, Louw G. 2016. SEAmester – South Africa's first class afloat. *South African Journal of Science* 112: 1–4.
- Ball RE, Serra-Pereira B, Ellis J, Genner M, Iglésias S, Johnson A, Jones CS, **Leslie RW**, Lewis J, Mariani S, Menezes G, Neat F, Noble LR, Sims DW, Griffiths AM. 2016. Resolving taxonomic uncertainty in vulnerable elasmobranchs: are the Madeiran skate (*Raja maderensis*) and the thornback ray (*Raja clavata*) distinct species? *Conservation Genetics*. doi:10.1007/s10592-015-0806-1.
- Bolton JJ, **Cyrus MD**, Brand MJ, Joubert M, **Macey BM**. 2016. Why grow *Ulva*? Its potential role in the future of aquaculture. *Perspectives in Phycology* 3: 113–120.
- Bolton JJ, De Clerck O, Francis CM, Siyanga-Tembo F, **Anderson RJ**. 2016. Two newly discovered *Grateloupia* (Rhodophyta) species on aquaculture rafts on the west coast of South Africa, including the widely introduced *G. turuturu*. *Journal of Phycology* 55: 659–664.
- Bosch AC, O'Neill B, Sigge GO, **Kerwath SE**, Hoffman LC. 2016. Heavy metals in marine fish meat and consumer health: a review. *Journal of the Science of Food and Agriculture* 96: 32–48.
- Bosch AC, O'Neill B, Sigge GO, **Kerwath SE**, Hoffman LC. 2016. Heavy metal accumulation and toxicity in smoothhound (*Mustelus mustelus*) shark from Langebaan Lagoon, South Africa. *Food Chemistry* 190: 871–878.
- Bosch AC, O'Neill B, Sigge GO, **Kerwath SE**, Hoffman LC. 2016. Mercury accumulation in yellowfin tuna (*Thunnus albacares*) with regards to muscle type, muscle position and fish size. *Food chemistry* 190: 351–356.
- Coll M, Shannon LJ, Kleisner KM, Juan-Jorda MJ, Bundy A, Akoglu AG, Banaru D, Boldt JL, Borges MF, Cook A, Diallo I, Fu C, Fox C, Gascuel D, Gurney LJ, Hattab T, Heymans JJ, Jouffre D, Knight BR, Kucukavsar S, Large SI, Lynam C, Machias A, Marshall KN, Masski H, Ojaveer H, Piroddi C, Tam J, Thiao D, Thiaw M, Torres MA, Travers-Trolet M, Tsagarakis K, Tuck I, Meeren GI, **Yemane D**, Zador SG, Shin Y-J. 2016. Ecological indicators to capture the effects of fishing on biodiversity and conservation status of marine ecosystems. *Ecological Indicators* 60: 947–962.
- Crawford RJM, Randall RM, Cook TR, Ryan PG, Dyer BM, Fox R, Geldenhuys D, Huisamen J, McGeorge C, Smith MK, Upfold L, Visagie J, Waller LJ, Whittington PA, **Wilke CG**, Makhado AB. 2016. Cape cormorants decrease, move east and adapt foraging strategies following eastward displacement of their main prey. *African Journal of Marine Science* 38: 373–383.
- Christiansen HM, Campana SE, Fisk AT, Cliff G, Wintner SP, **Dudley SFJ**, Kerr LA, Hussey NE. 2016. Using bomb radiocarbon to estimate age and growth of the white shark, *Carcharodon carcharias*, from the southwestern Indian Ocean. *Marine Biology* 163: 144. doi:10.1007/s00227-016-2916-9.
- De Vynck JC, **Anderson RJ**, Atwater C, Cowling RM, Fisher EC, Marean CW, Walker RS, Hill K. 2016. Return rates from intertidal foraging from Blombos Cave to Pinnacle Point: understanding early human economies. *Journal of Human Evolution* 92: 101–115.
- Ebert DA, Straube N, **Leslie RW**, Weigmann S. 2016. *Etmopterus alphas* n. sp.: a new lanternshark (Squaliformes: Etmopteridae) from the south-western Indian Ocean. *African Journal of Marine Science* 38: 329–340.
- Erbe C, Wintner S, **Dudley SFJ**, Plön S. 2016. Revisiting acoustic

- deterrence devices: long-term bycatch data from South Africa's bather protection nets. *Proceedings of Meetings on Acoustics* 27: doi: 10.1121/2.0000306.
- Geja Y, Durholtz MD, Moloney CL.** 2016. Age and growth of redeye round herring *Etrumeus whiteheadi* off the South African coast. *African Journal of Marine Science* 38: 493–501.
- Gersun L, **Anderson RJ**, Hart JR, Maneveldt GW, Bolton JJ. 2016. Sublittoral seaweed communities on natural and artificial substrata in a high-latitude coral community in South Africa. *African Journal of Marine Science* 38: 303–316.
- Grüss A, **Yemane D, Fairweather TP.** 2016. Exploring the spatial distribution patterns of South African Cape hakes using generalised additive models. *African Journal of Marine Science* 38: 395–409.
- Idris I, Moloney CL, **van der Lingen CD.** 2016. Spatial variability in branchial basket meristics and morphology of southern African sardine *Sardinops sagax*. *African Journal of Marine Science* 38: 351–362.
- Jansen T, Kristensen K, Kainge P, **Durholtz D**, Strømme T, Thygesen UH, Wilhelm MR, Kathena J, **Fairweather TP**, Paulus S, Degel H, Lipiński MR, Beyer JE. 2016. Migration, distribution and population (stock) structure of shallow-water hake (*Merluccius capensis*) in the Benguela Current Large Marine Ecosystem inferred using a geostatistical population model. *Fisheries Research* 179: 156–167.
- Kawai H, Takeaki H, Bolton JJ, **Anderson RJ.** 2016. Molecular phylogeny of *Zeacarpa* (Ralfsiales, Phaeophyceae) proposing a new family Zeacarpaceae and its transfer to Nemodermatales. *Journal of Phycology* 52: 682–686.
- Kirkman SP, Blamey L, Lamont T, Field JG, Bianchi G, Huggett JA, Hutchings L, Jackson-Veitch J, Jarre A, Lett C, Lipiński MR, Mafwila SW, Pfaff MC, Samaai T, Shannon LJ, Shin Y-J, **van der Lingen CD, Yemane D.** 2016. Spatial characterisation of the Benguela ecosystem for ecosystem-based management. *African Journal of Marine Science* 38: 7–22.
- Kirkman SP, **Yemane DG**, Lamont T, Meÿer MA, Pistorius PA. 2016. *Foraging behavior of subantarctic fur seals supports efficiency of a marine reserve's design.* PLoS ONE 05/2016; 11:e0152370. DOI:10.1371/journal.pone.0152370.
- Knapp JL, Bridges CR, Krohn J, Hoffman LC, **Auerswald L.** 2016. The effects of hypercapnia on the West Coast rock lobster (*Jasus lalandii*) through acute exposure to decreased seawater pH – physiological and biochemical responses. *Journal of Experimental Marine Biology and Ecology* 476: 58–64.
- Krumhansl KA, Byrnes J, Okamoto D, Rassweiler A, Novak M, Bolton J, Cavanaugh KC, Connell SD, Johnson C, Konar B, Ling S, Micheli F, Norderhaug K, Pérez-Matus A, Pinto IS, Reed D, Salomon A, Shears N, Wernberg T, **Anderson R**, Barrett N, Buschmann AH, Carr M, Caselle JE, Derriene S, Goodwin C, Edgar GJ, Edwards ME, Estes J, Kenner M, Kushner DJ, Moy F, Nunn J, Steneck R, Vásquez J, Vega A, Witman J. 2016 Global patterns of kelp forest *change* over the past half century. *PNAS (Proceedings of the National Academy of Sciences)* 113: 13785–13790.
- Macey BM, Christison KW, de Goede J, Hutchings L, van der Lingen CD.** 2016. Testing for the occurrence of pilchard herpesvirus (PHV) in South African sardine *Sardinops sagax*. *African Journal of Marine Science* 38: 269–273.
- Maduna SN, da Silva C, Wintner SP, Roodt-Wilding R, Bester-van der Merwe AE. 2016. When two oceans meet: regional population genetics of an exploited coastal shark, *Mustelus mustelus*. *Marine Ecology Progress Series* 544: 183–196.
- Makwela MS, **Kerwath SE**, Götz A, Sink K, Samaai T, **Wilke CG.** 2016. Notes on a remotely operated vehicle survey to describe reef ichthyofauna and habitats – Agulhas Bank, South Africa. *Bothalia* 46. [a2108. http://dx.doi.org/10.4102/abc.v46i1.2108]
- Mattio L, Zubia M, Maneveldt GW, **Anderson RJ**, Bolton JJ, de Gaillande C, De Clerck O, Payri CE. 2016. Marine flora of the Iles Eparses (Scattered Islands): a longitudinal transect through the Mozambique Channel. *Acta Oecologica* 72: 33–40.
- McKinney M, Dean K, Hussey N, Cliff G, Wintner S, **Dudley SFJ**, Zungu MP, Fisk AT. 2016. Global versus local causes and health implications of high mercury concentrations in sharks from the east coast of South Africa. *Science of the Total Environment* 541: 176–183.
- Mirimin L, **Kerwath SE, Macey BM, Lamberth SJ**, Cowley PD, Bester-van der Merwe A, Bloomer P, Roodt-Wilding R. 2016. Genetic analysis of overfished silver kob *Argyrosomus inodorus* (Sciaenidae) [sic] stocks along the southern African coast. *Fisheries Research* 176: 100–106.
- Mirimin L, **Macey BM, Kerwath SE, Lamberth SJ**, Bester-van der Merwe A, Bloomer P, Roodt-Wilding R. 2016. Genetic analyses reveal declining trends and low effective population size in an overfished South African sciaenid species, the dusky kob (*Argyrosomus japonicus*). *Marine and Freshwater Research* 67: 266–276.
- Nunkoo MAI, Reed CC, **Kerwath SE.** 2016. Community ecology of the metazoan parasites of snoek *Thyrsites atun* (Euphrasen, 1791) (Perciformes: Gempylidae) off South Africa. *African Journal of Marine Science* 38: 363–371.
- Parker D**, Winker H, Attwood CG, **Kerwath SE.** 2016. Dark times for dageraad *Chrysoblephus cristiceps*: evidence for stock collapse. *African Journal of Marine Science* 38: 341–349.
- Pitcher GC, Probyn TA.** 2016. Suffocating phytoplankton, suffocating waters – red tides and anoxia. *Frontiers in Marine Science* 3: 186. doi:10.3389/fmars.2016.00186.
- Pretorius M**, Huggett JA, Gibbons MJ. 2016. Summer and winter differences in zooplankton biomass, distribution and size composition in the KwaZulu-Natal Bight, South Africa. In: Roberts MJ, Fennessy ST, Barlow RG (eds), *Ecosystem processes in the KwaZulu-Natal Bight.* *African Journal of Marine Science* 38(Suppl.): S155–S168.
- Swart BL, Bester-van der Merwe AE, **Kerwath SE**, Roodt-Wilding R. 2016. Phylogeography of the pelagic fish *Seriola lalandi* at different scales: confirmation of inter-ocean population structure and evaluation of southern African genetic diversity. *African Journal of Marine Science* 38: 513–524.
- Swart S, Zietsman JJ, **Coetzee JC**, Goslett DG, Hoek A, Needham D, Monteiro PMS. 2016. Ocean robotics in support of fisheries research and management. *African Journal of Marine Science* 38: 525–538.
- van der Lingen CD**, Hutchings L, Lamont T, **Pitcher GC.** 2016. Climate change, dinoflagellate blooms and sardine in the southern Benguela Current Large Marine Ecosystem. *Environmental Development* 17: 230–243.
- Vieira C, Camacho O, Wynne MJ, Mattio L, **Anderson RJ**, Bolton JJ, Sansón M, D'hondt S, Leliaert F, Fredericq S, Payri C. 2016. Shedding new light on old algae: matching names and sequences in the brown algal genus *Lobophora* (Dictyotales, Phaeophyceae). *Taxon* 65: 689–707.
- Viskich M, Griffiths CL, **Erasmus C, Lamberth S.** 2016. Long-term physical, chemical and biological changes in a small, urban estuary. *African Journal of Marine Science* 38: 23–37.

Book Chapters, Published Reports and Popular Articles

- Findlay KP, **Shabangu FW**. 2016. First sound recordings of Antarctic blue whales found off the South African west coast. *University of Pretoria Press Release*, March 2016.
- Shabangu FW, Somhlaba S, Leslie RW**. 2016. Should South Africa participate in the krill fishery? *Fishing Industry News Southern Africa* 17 February: 18–20.

Contributions to Symposia and Conferences, and Public Presentations

- Agabi Y, Reed C, **Leslie R, van der Lingen C**. 2016. Parasites of South African monkfish, *Lophius vomerinus* and their potential as biotags for stock discrimination. *45th Annual Conference of the Parasitological Society of Southern Africa, 28–31 August 2016, Cape Town, South Africa*. (poster presentation)
- Attwood CG, Atkinson LJ, Sink KJ, von der Meden C, **Leslie RW**. 2016. Measuring change in a southern Benguela benthic ecosystem after cessation of trawling I Experimental design and description of fish fauna. *Benguela Symposium, 15–18 November 2016, Cape Town, South Africa*. (oral presentation)
- Bester-van der Merwe AE, Swart BL, Roodt-Wilding R, **Kerwath SE**. 2016. A tail of two seamounts: population connectivity of *Seriola lalandi* (yellowtail) across southern African waters. *Annual Symposium of the Fisheries Society of the British Isles, 18–22 July 2016, Bangor, UK*. (oral presentation)
- Bowker J, Le Roux J, Reed C, **van der Lingen CD**, Hemmingsen W, Mackenzie K. 2016. Parasites of Cape (*Trachurus capensis*) and Cunene (*T. trecae*) horse mackerel in the Benguela ecosystem. *45th Annual Conference of the Parasitological Society of Southern Africa, 28–31 August 2016, Cape Town, South Africa*. (oral presentation)
- Bovungana AQ, Vine N, **Macey BM**. 2016. Microbial indicators of water quality for human and ecosystem health on selected beaches along the East Coast of South Africa. *Symposium of Contemporary Conservation Practice, 31 October–4 November 2016, Howick, KwaZulu-Natal, South Africa*. (poster presentation)
- Coetzee JC**, de Moor CL, **van der Lingen CD**, Butterworth DS. 2016. Evaluating trade-offs: Sustainable management of sardine in the face of low abundance, distributional changes, needs of the ecosystem and industry for stability. *Benguela Symposium, 15–18 November 2016, Cape Town, South Africa*. (oral presentation)
- Coetzee JC, Merkle D, Rademan J**. 2016. Changes in pelagic fish shoaling behaviour are likely to complicate interpretation of results from studies aimed at detecting effects of pelagic fishing on seabird foraging. *9th International Penguin Congress, 5–9 September 2016, Cape Town, South Africa*. (oral presentation)
- Cyrus MD**, Bolton JJ, Wozniak D, **Macey BM**. 2016. Settlement, metamorphosis and post-settlement survival of the sea urchin *Tripneustes gratilla*. *11th International Marine Biotechnology Conference, 29 August–2 September 2016, Baltimore, USA*. (poster presentation)
- Cyrus MD**, Bolton JJ, **Macey BM**. 2016. The use of stable δ 13C and δ 15N isotopes to track the proportional incorporation of *Ulva* and other important dietary ingredients into sea urchin gonads. *11th International Marine Biotechnology Conference, 29 August–2 September 2016, Baltimore, USA*. (oral presentation)
- de Moor CL, Butterworth DS, **Coetzee JC**. 2016. Assessment and Management of the South African Purse-Seine Fishery for Small Pelagics (Sardine, Anchovy and Round-Herring). *NOAA Southwest Fisheries Science Centre and Pacific Fishery Management Council Workshop on Coastal Pelagic Species Assessments, 2–6 May 2016, La Jolla, USA*. (oral presentation)
- de Moor C, Butterworth D, **van der Lingen CD**. 2016. Using parasite data to quantify multiple stock. *7th World Fishery Congress, 23–27 May 2016, Busan, Korea*. (oral presentation)
- Dziergwa J, Bridges C, **Auerswald L**. 2016. Transgeneration effect of parental hypercapnic exposure of the Cape urchin – fertilization success and larval development. *Benguela Symposium, 15–18 November 2016, South Africa*. (oral presentation)
- Ferrari A, Salzburger W, **Leslie R**, Scarcella G, Tinti F. 2016. Species diversity and morphological stasis in skates (order Rajiformes): the challenge of skin transcriptome profiling in non-model species. *Biology'16, 11–12 February 2016, Lausanne, Switzerland*. (poster presentation)
- Garcia-Reyes M, Lamont T, Bograd SJ, Black B, Crawford RJM, **van der Lingen CD**, Thompson SA, Rykaczewski RR, Syderman WJ. 2016. Modes of upwelling variability in the Benguela Current System and how they relate to ecosystem productivity. *American Geophysical Union Ocean Sciences Meeting, 21–26 February 2016, New Orleans, USA*. (oral presentation)
- Groenewald G, Moloney CL, **van der Lingen CD**. 2016. Spatial variation in body shape of sardine off southern Africa. *Benguela Symposium, 15–18 November 2016, Cape Town, South Africa*. (poster presentation)
- Hampton S, Moloney CL, **van der Lingen CD**, Labonne M. 2016. Spatial and temporal variability in elemental signatures of sardine otoliths in South Africa. *Benguela Symposium, 15–18 November 2016, Cape Town, South Africa*. (oral presentation)
- Hendricks J, Reed C, **van der Lingen CD**. 2016. Investigating the parasite assemblages of two round herring species (*Etrumeus whiteheadi* and *E. wongratana*) off South Africa. *45th Annual Conference of the Parasitological Society of Southern Africa, 28–31 August 2016, Cape Town, South Africa*. (poster presentation)
- Henning S, **van der Lingen CD**. 2016. Seasonality of *Kudoa thyrsites* and/or *Kudoa paniformis* infection in South African sardine *Sardinops sagax*. *45th Annual Conference of the Parasitological Society of Southern Africa, 28–31 August 2016, Cape Town, South Africa*. (poster presentation)
- Hugget J, Lamont T, **Coetzee JC**, Verheye H. 2016. Long-term declines in southern Benguela zooplankton during summer: bottom-up or top-down forcing? *Benguela Symposium, 15–18 November 2016, Cape Town, South Africa*. (poster presentation)
- King P, Agabi Y, Reed C, **van der Lingen C**, Baker C. 2016. Morphology of a Hemiurid found in the stomach of monkfish, *Lophius vomerinus* in South Africa. *45th Annual Conference of the Parasitological Society of Southern Africa, 28–31 August 2016, Cape Town, South Africa*. (oral presentation)
- Lamont T, Garcia-Reyes M, Bograd SJ, **van der Lingen CD**, Syderman WJ. 2016. Upwelling indices for comparative ecosystem studies: variability in the Benguela upwelling system. *Benguela Symposium, 15–18 November 2016,*

- Cape Town, South Africa. (poster presentation)
- Macey BM**, Bellstedt DU, Mouton A, Kutu V. 2016. Diversity of the fish pathogen *Lactococcus garvieae* in South Africa and Lesotho. *11th International Marine Biotechnology Conference, 29 August–2 September 2016, Baltimore, USA*. (poster presentation)
- Macey BM**, Brand MJ, Bolton JJ, Cyrus MD. 2016. *Ulva* as a functional ingredient in aquafeeds. *11th International Marine Biotechnology Conference, 29 August–2 September 2016, Baltimore, USA*. (oral presentation)
- Mackintosh A, Reed C, **van der Lingen CD**. 2016. Parasites of South African angelfish *Brama brama*. *45th Annual Conference of the Parasitological Society of Southern Africa, 28–31 August 2016, Cape Town, South Africa*. (poster presentation)
- Maduna SN, Farrel ED, Boomer JJ, Verissimo A, **da Silva C**, Soekoe M, Wintner S, Mariani S, Bester-van-der-Merwe AE. 2016. The historical biogeography of the systematically challenging smoothhound shark genus *Mustelus* in southern Africa. *Genetics and Bioinformatics Conference, 20–23 September 2016, Durban, South Africa*.
- Maduna SN, Hull K, **da Silva C**, Soekoe M, Bester-van der Merwe AE. 2016. Development of molecular identification methods of houndsharks (Carcharhiniformes: Triakidae) from southern Africa. *Genetics and Bioinformatics Conference, 20–23 September 2016, Durban, South Africa*.
- Maduna SN, Rossouw C, **da Silva C**, Soekoe M, Bester-van der Merwe AE. 2016. Discovery and application of molecular markers in a bio-economically important demersal shark *Mustelus mustelus* using next-generation sequencing technology. *Genetics and Bioinformatics Conference, 20–23 September 2016, Durban, South Africa*.
- Mobara A, Reed C, **van der Lingen CD**, Sibanda S, Nunkoo I. 2016. Comparison of two different parasite processing methods for stock assessment of South African kingklip, *Genypterus capensis* (Smith 1874). *45th Annual Conference of the Parasitological Society of Southern Africa, 28–31 August 2016, Cape Town, South Africa*. (oral presentation)
- Moloney C, **van der Lingen C**, Ryan P, Hampton S. 2016. Microplastic ingestion by sardine, *Sardinops sagax*, in the Benguela region. *Benguela Symposium, 15–18 November 2016, Cape Town, South Africa*. (poster presentation)
- Phillips M**, **Yemane D**, **Twatwa NM**, **Coetzee JC**. 2016. Classification of small pelagic species in southern Benguela using multiple models. *Benguela Symposium, 15–18 November 2016, Cape Town, South Africa*. (oral presentation)
- Pitcher GC, Probyn TA, du Randt A, Mansfield LA. 2016. Water column autotrophy, heterotrophy and anoxia in St Helena Bay in the southern Benguela. *Benguela Symposium 2016: Opportunity, Challenge and Change, 15–18 November 2016, Cape Town, South Africa*. (oral presentation)
- Pitcher GC, TA Probyn. 2016. Suffocating phytoplankton, suffocating waters – red tides and anoxia. *17th International Conference on Harmful Algae, 9–14 October 2016, Florianopolis, Brazil*. (oral presentation)
- Rothman MD**, **Anderson RJ**. 2016. The appearance of the west coast kelp *Ecklonia maxima* in the De Hoop MPA: lessons for the management of MPAs. *WWF-SA and DEA 2016 Marine Protected Area Forum, 25–27 October 2016, Port Elizabeth, South Africa*. (oral presentation)
- Rothman MD**, Bolton JJ, Stekoll M, **Boothroyd CJT**, **Kemp FA**, **Anderson RJ**. 2016. Geographical variation in morphology of the two dominant kelp species, *Ecklonia maxima* and *Laminaria pallida* (Phaeophyceae, Laminariales), on the west coast of southern Africa. *International Seaweed Symposium, 19–24 June 2016, Copenhagen, Denmark*. (oral presentation)
- Roy C, **van der Lingen C**, Hermes J. 2016. Strengths and weaknesses of climate re-analyses to quantify wind variability: a focus on the 20th century reanalysis in the Benguela and adjacent areas. *Benguela Symposium, 15–18 November 2016, Cape Town, South Africa*. (poster presentation)
- Shabangu FW**. 2016. Potential effects of climate change on the distribution and acoustic behaviour of Antarctic blue whales. *2nd Student Conference on Climate Change and Development, 18 March 2016, Cape Town, South Africa*. (oral presentation)
- Shabangu FW**, Findlay KP. 2016. Acoustic monitoring of the recovery of large baleen whales in the Benguela ecosystem. *4th African Marine Mammal Colloquium (AMMC), 22–27 May 2016, Kleinbaai, South Africa*. (oral presentation)
- Shabangu FW**, Findlay KP. 2016. Acoustic monitoring of the recovery of blue and fin whales in the Benguela ecosystem. *Mammal Research Institute 50th Anniversary Symposium, 12–16 September 2016, Kruger National Park, South Africa*. (oral presentation)
- Shabangu FW**, Findlay KP. 2016. Acoustic monitoring of the recovery of Antarctic blue and fin whales in the Benguela ecosystem. *Benguela Symposium, 15–18 November 2016, Cape Town, South Africa*. (oral presentation)
- Shabangu FW**, Findlay KP. 2016. Sounds of Antarctic blue and fin whales off the west coast of South Africa. *American Cetacean Society's 15th International Conference, 11–13 November 2016, Monterey, USA*. (poster presentation)
- Sibanda S, Reed C, **van der Lingen CD**. 2016. Parasites of *Genypterus capensis* (kingklip) and assessment of their potential as biological tags. *45th Annual Conference of the Parasitological Society of Southern Africa, 28–31 August 2016, Cape Town, South Africa*. (oral presentation)
- Singh L**, **van der Lingen CD**, Reed C, Mackenzie K. 2016. Using parasites as biological tags for examining population structure of Cape hakes *Merluccius capensis* and *M. paradoxus* off South Africa. *45th Annual Conference of the Parasitological Society of Southern Africa, 28–31 August 2016, Cape Town, South Africa*. (oral presentation)
- Staby A, Stenevik EK, Krakstad JO, **Coetzee JC**, **Yemane D**. 2016. Distribution of egg and larvae of Mueller's pearlside (*Maurollicus muelleri*) and Hector's lanternfish (*Lampanyctodes hectoris*) in the Benguela current region related to environmental variables. *Benguela Symposium, 15–18 November 2016, Cape Town, South Africa*. (poster presentation)
- Tsanwani M, Bolton JJ, **Auerswald L**, Monteiro PMS. 2016. Description of the carbonate system of the Benguela Current Large Marine Ecosystem and its implications on the design of biological ocean acidification experiment. *Benguela Symposium, 15–18 November 2016, University of Cape Town, Cape Town, South Africa*. (poster presentation)
- Turley BD, Lamont T, Garcia-Reyes M, Van der Sleen P, Black BA, Bograd SJ, Thompson SA, Sydeman WJ, **van der Lingen CD**, Rykaczewski RR. 2016. Reconsidering the optimal environmental window in the southern Benguela. *Benguela Symposium, 15–18 November 2016, Cape Town, South Africa*. (poster presentation)
- Tyler T, **van der Lingen CD**, De Lecea A, Jarre A. 2016. The feeding ecology of two mesopelagic fishes off the South African west coast: a comparative analysis using stable

- isotope and dietary data. *Benguela Symposium, 15–18 November 2016, Cape Town, South Africa*. (poster presentation)
- Ukomadu N, King P, Reed C, **van der Lingen CD**. 2016. Morphology of a strigeid metacercaria found in the eyes of sardine, *Sardinops sagax* in South Africa. *45th Annual Conference of the Parasitological Society of Southern Africa, 28–31 August 2016, Cape Town, South Africa*. (poster presentation)
- van der Lingen CD**. 2016. An overview of applied parasitological studies on commercially exploited fish off southern Africa. *45th Annual Conference of the Parasitological Society of Southern Africa, 28–31 August 2016, Cape Town, South Africa*. (oral presentation)
- van der Lingen CD**, Lamont T, **Geja Y**, van den Berg M. 2016. Harmful algal blooms and sardine in the southern Benguela. *Benguela Symposium, 15–18 November 2016, Cape Town, South Africa*. (oral presentation)
- van der Ploeg J, Reed C, **van der Lingen CD**. 2016. Applying the parasite biotag approach to investigate population structure in St Joseph's sharks (*Callorhinchus capensis*) in shelf waters off South Africa. *45th Annual Conference of the Parasitological Society of Southern Africa, 28–31 August 2016, Cape Town, South Africa*. (poster presentation)
- Weston M, Reed C, **van der Lingen CD**, Nunkoo I. 2016. Investigating trophic interactions between parasites and their hosts using stable isotope analysis. *45th Annual Conference of the Parasitological Society of Southern Africa, 28–31 August 2016, Cape Town, South Africa*. (oral presentation)
- Wozniak D, **Cyrus MD**, Bolton JJ, **Macey BM**. 2016. The effects of different microalgal feeds and temperature on the growth and survival of post-settled juvenile *Tripneustes gratilla*: implications for the potential establishment of a sea urchin aquaculture industry in South Africa. *Symposium of Contemporary Conservation Practice, 31 October–4 November 2016, Howick, KwaZulu-Natal, South Africa*. (poster presentation)
- Contributions to Workshops and Management and Scientific Bodies; Unpublished Technical Reports**
- Da Silva C**, **Wilke CG**, **Lamberth SJ**, **Kerwath SE**. 2016. Research towards realistic shark conservation and management in South Africa. *CITES shark training workshop, 13–15 September 2016, Cape Town*.
- Delegations of South Africa and France. 2016. Proposal to reposition the boundary between CCAMLR statistical sub-areas 58.6 and 58.7 on the 44°E meridian. Report No. CCAMLR-XXXV/BG/18. *35th Meeting for the Commission for the Conservation of Antarctic Marine Living Resources, 17–28 October 2016, Hobart, Tasmania*. (Prepared by **Leslie RW**)
- Fouche CH**. 2016. An impact assessment of water quality parameters in aquaculture. *Farmers training, 8 December 2016, Gariiep Dam, South Africa*.
- Fouche CH**. 2016. An overview of equipment required in aquaculture. *Farmers training, 8 December 2016, Gariiep Dam, South Africa*.
- Fouche CH**. 2016. A lecture and demonstration of artificially manipulated spawning in sharp-toothed catfish. *Farmers training, 8 December 2016, Gariiep Dam, South Africa*.
- Githaiga-Mwicigi JM**. 2016. Climate Change Mitigation and Adaptation Plan: The Adaptation Workshop 30–31 March 2016. *National Adaptation Workshop, 30–31 March 2016, Pretoria, South Africa*.
- Githaiga-Mwicigi JM**. 2016. Fisheries Branch: Climate Change Adaptation and Mitigation Plan. *CCAMP National Workshop, 29–30 June 2016, Johannesburg, South Africa*.
- Macey BM**, **Semoli B**. 2016. Aquaculture food safety. *European Commission Workshop on Aquaculture Food Security, 20 September 2016, Edinburgh, Scotland*.
- Macey BM**, **Semoli B**. 2016. Ecosystem approach to aquaculture. *European Commission Workshop on Aquaculture Food Security, 20 September 2016, Edinburgh, Scotland*.
- Macey BM**, **Semoli B**. 2016. Identification of new/native species for cultivation/production and market analysis. *European Commission Workshop on Aquaculture Food Security, 20 September 2016, Edinburgh, Scotland*.
- Macey BM**, **Semoli B**. 2016. Improvement of production systems. *European Commission Workshop on Aquaculture Food Security, 20 September 2016, Edinburgh, Scotland*.
- Madibana MJ**. 2016. Introduction to fish nutrition and feeding. *Farmers training, 9 December 2016, Gariiep Dam, South Africa*.
- Mbokane E**, **Fouche CH**, Moyo N, Nephale E. 2016. A preliminary investigation into the potential effect of *Artemisia afra* on growth and disease resistance in sub-adults of *Oreochromis mossambicus*. Technical Report-3-2017(CR). 15 March 2016, Limpopo University, Polokwane, South Africa.
- Parker D**, **West W**, **Mketsu Q**, **Kerwath SE**. 2016. South African National Report to the Scientific Committee of the Indian Ocean Tuna Commission. Report No. IOTC-2016-SC19-NR26. *19th IOTC Scientific Committee, 1–4 December 2016, Victoria, Seychelles*.
- Selapa NW**, **Fouche CH**. 2016. Determination of lethal concentration of unionized ammonia on juvenile dusky kob (*Argyrosomus japonicus*) and the effect of nonlethal concentrations on growth performance. Technical Report-2-2017(CR). 15 March 2016, Rhodes University, Grahamstown, South Africa.
- Somhlaba S**, **Leslie RW**, Taki K, Ichii T, Namba T. 2016. Progress report for the fourth year of the research fishery for *Dissostichus* spp. in Subarea 48.6 being jointly undertaken by Japan and South Africa in the years 2013–2016. *2016 Meeting of the CCAMLR Working Group on Statistics, Assessments and Modelling 27 June–1 July 2016, Genoa, Italy*. CCAMLR WG-SAM-16/41 Rev1.
- Somhlaba S**, **Leslie RW**, Taki K, Ichii T, Namba T. 2016. Revised progress report for the fourth year of the research fishery for *Dissostichus* spp. in Subarea 48.6 being jointly undertaken by Japan and South Africa in the years 2013–2016. *2016 meeting of the CCAMLR Working Group on Fish Stock Assessment, 3–12 October 2016, Hobart, Tasmania*. CCAMLR WG-FSA-16/56.
- Taki K, Ichii T, Nambe T, **Leslie RW**, **Somhlaba S**. 2016. Research plan for the 2016/17 exploratory long line fishery of *Dissostichus* spp. in Subarea 48.6 by South Africa and Japan. *2016 Meeting of the CCAMLR Working Group on Statistics, Assessments and Modelling 27 June–1 July 2016, Genoa, Italy*. CCAMLR WG-SAM-16/07.
- Taki K, Ichii T, Nambe T, **Leslie RW**, **Somhlaba S**. 2016. Revised research plan for the 2016/17 exploratory long line fishery of *Dissostichus* spp. in Subarea 48.6 by South Africa and Japan. *2016 meeting of the CCAMLR Working Group on Fish Stock Assessment, 3–12 October 2016, Hobart, Tasmania*. CCAMLR WG-FSA-16/32 Rev1.
- Teske P, **van der Lingen C**, Golla T, Sandoval-Castillo J, Beheregaray L. 2016. A genomic appraisal of the stock structure of South African sardines. *DAFF/MARAM International Stock Assessment Workshop, 28 November–*

2 December 2016, Cape Town, South Africa.

- van der Lingen CD.** 2016. Incorporating marine fisheries and marine aquaculture into the DAFF CCAMP. *Workshop on Adaptation to Climate Change in the South African Marine Fisheries and Marine Aquaculture Sectors, 11–12 October 2016, Cape Town, South Africa.*
- van der Lingen CD.** 2016. Adaptation methods for offshore fisheries: the small pelagic fishery as an example. *Workshop on Adaptation to Climate Change in the South African Marine Fisheries and Marine Aquaculture Sectors, 11–12 October 2016, Cape Town, South Africa.*
- van der Lingen CD.** 2016. Offshore fisheries report-back. *Workshop on Adaptation to Climate Change in the South African Marine Fisheries and Marine Aquaculture Sectors, 11–12 October 2016, Cape Town, South Africa.*
- van der Lingen CD.** 2016. The biological basis for hypothesizing multiple stocks in South African sardine *Sardinops sagax* (cont...). *DAFF/MARAM International Stock Assessment Workshop, 28 November–2 December 2016, Cape Town, South Africa.*
- Winker H, **Kerwath SE, West WM.** 2016. Standardization of the catch per unit effort for albacore (*Thunnus alalunga*) for the South African tuna-pole-line (baitboat) fleet for the time series 2003–2015. Report to the Albacore Stock Assessment Meeting of the International Commission for the Conservation of Atlantic Tuna (ICCAT).
- ## Unpublished Working Group Documents
- Anderson RJ** and members. 2016. Recommendations of the Abalone Scientific Working Group for the sustainable management of abalone for the 2016/17 season. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Butterworth DS, **Coetzee JC.** 2016. Comparative harvest rates for sardine and anchovy stocks elsewhere. *FISHERIES/2016/AUG/SWG-PEL/35.* Department of Agriculture, Forestry and Fisheries, Cape Town.
- Butterworth DS, **Glazer JP, Fairweather TP, Durholtz D.** 2016. An updated assessment of the Agulhas sole resource, *Austroglossus pectoralis*. *FISHERIES/2016/SEPT/SWG-DEM/53.* Department of Agriculture, Forestry and Fisheries, Cape Town and University of Cape Town, Cape Town.
- Butterworth DS, **van der Lingen CD, Coetzee JC, de Moor CL.** 2016. The present agreed hypothesis for South African sardine stock structure. *FISHERIES/2016/NOV/SWG-PEL/69* and *MARAM/IWS/DEC2016/SARDINE/P7.* Department of Agriculture, Forestry and Fisheries, Cape Town and University of Cape Town, Cape Town.
- Coetzee JC.** 2016. *Ad hoc* recommendation of the Small Pelagic Scientific Working Group to allow for a further adjustment to the maximum tonnage of directed sardine that may be caught in the area to the west of Cape Agulhas – September 2016. *FISHERIES/AUG/2016/SWG-PEL/40.* Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC.** 2016. *Ad hoc* recommendation of the Small Pelagic Scientific Working Group to allow for an adjustment to the maximum tonnage of directed sardine to be caught in the area to the west of Cape Agulhas – June 2016. *FISHERIES/JUN/2016/SWG-PEL/19.* Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC. 2016. *Ad hoc* recommendation of the Small Pelagic Scientific Working Group to support the continuation of the pelagic trawl experiment. *FISHERIES/AUG/2016/SWG-PEL/31.* Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC.** 2016. Alternative options for allocation of TAC between West and South Coasts – Collation of initial issues raised, comments made and random thoughts to initiate discussion. *FISHERIES/2016/OCT/SWG-PEL/54.* Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC.** 2016. Catch update. *FISHERIES/2016/SEP/SWG-PEL/42.* Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC. 2016. Comments from the DAFF Small Pelagic Scientific Working Group on the proposed new DEA MPA declarations. *FISHERIES/APR/2016/SWG-PEL/15.* Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC.** 2016. Consideration of the data available to DAFF for evaluation of the Island Closure study. *FISHERIES/2016/DEC/SWG-PEL/75.* Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC.** 2016. Estimation of the effective proportion of sardine biomass contributing to putative western stock recruitment by including the proportion of eggs transported to the West Coast nursery area from South Coast spawning areas. *FISHERIES/2016/AUG/SWG-PEL/37* and *MARAM/IWS/DEC16/SARDINE/P3.* Department of Agriculture, Forestry and Fisheries, Cape Town and University of Cape Town, Cape Town.
- Coetzee JC. 2016. Final TAC recommendation of the Small Pelagic Scientific Working Group for the sustainable management of small pelagic resources for the 2016 season – July 2016. *FISHERIES/2016/JUL/SWG-PEL/27.* Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC.** 2016. Initial recommendation of the Small Pelagic Scientific Working Group for the sustainable management of small pelagic resources for the season 2017. *FISHERIES/2016/DEC/SWG-PEL/81.* Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC.** 2016. Progress by DAFF in respect of objectives of the African Penguin Biodiversity Management Plan. *FISHERIES/2016/NOV/SWG-PEL/62.* Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC. 2016. Recommendation of the Small Pelagic Scientific Working Group in response to a request by Pioneer Fishing West Coast (Pty) Ltd for an experimental permit to catch mesopelagic fish species by means of the pelagic trawl fishing method – June 2016. *FISHERIES/2016/JUN/SWG-PEL/20.* Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC. 2016. Recommendation of the Small Pelagic Scientific Working Group to establish a directed commercial mesopelagic trawl fishery – July 2016. *FISHERIES/2016/JUL/SWG-PEL/24.* Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC. 2016. Request for approval of external observers to attend meetings of the Small Pelagic Scientific Working Group in 2016/2017. *FISHERIES/APR/2016/SWG-PEL/08.* Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC, Butterworth DS, van der Lingen CD, de Moor CL.** 2016. Summary of issues pertinent to a decision on possible adjustment of the maximum directed sardine catch allowance west of Cape Agulhas for 2016. *FISHERIES/2016/JULY/SWG-PEL/39.* Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC, Merkle D, Geja Y, Mushanganyisi K, Shabangu**

- FW.** 2016. Results of the 2016 Spawner Biomass Survey. *FISHERIES/2016/DEC/SWG-PEL/79*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC, Merkle D, Philips M, Geja Y, Mushanganyisi K, Shabangu FW.** 2016. Results of the 2016 pelagic recruitment survey. *FISHERIES/2016/JUL/SWG-PEL/25REV*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC, Merkle D, Rademan J, van der Westhuizen JJ.** 2016. Small scale hydro-acoustic surveys 2013 to 2015. *FISHERIES/2016/DEC/SWG-PEL/73*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC, van der Westhuizen JJ, Merkle D.** 2016. Biomass and catch within the proposed 'boundary zone' off Cape Agulhas. *FISHERIES/2016/OCT/SWG-PEL/52*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC, van der Westhuizen JJ, Merkle D.** 2016. Comparison of the recruit sardine to anchovy biomass ratio observed during the recruitment surveys with that estimated from catch data. *FISHERIES/2016/OCT/SWG-PEL/50*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Coetzee JC, van der Westhuizen JJ, Merkle D.** 2016. Finer-scale sardine exploitation rates. *FISHERIES/2016/OCT/SWG-PEL/51*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Cooper RM, Singh L, Durholtz D.** 2016. Evaluation of the potential impacts of seal catches by the *Desert Diamond* on South Coast seal colonies. *FISHERIES/2016/AUG/SWG-DEMPEM/HMTT/02*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- de Moor CL, Butterworth DS, Coetzee JC. 2016. Alternative hypotheses of west to south movement considered for South African sardine. *MARAM/IWS/DEC16/Sardine/P12*. University of Cape Town, Cape Town.
- de Moor CL, Butterworth DS, **Coetzee JC.** 2016. Draft for OMP-17 simulation projection framework discussions regarding sardine. *FISHERIES/2016/SEP/SWG-PEL/43*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- de Moor CL, Butterworth DS, **van der Lingen CD.** 2016. The quantitative use of parasite data in multi-stock modelling of South African sardine (*Sardinops sagax*). *MARAM/IWS/DEC2016/Sardine/P1*. University of Cape Town, Cape Town.
- de Moor CL, **Coetzee JC, Merkle D, van der Westhuizen JJ, van der Lingen CD.** 2016. A record of the generation of data used in the 2016 sardine and anchovy assessments. *FISHERIES/2016/MAY/SWG-PEL/13 and MARAM/IWS/DEC 2016/Sardine/BG4*. Department of Agriculture, Forestry and Fisheries, Cape Town and University of Cape Town, Cape Town.
- Durholtz D.** 2016. DAFF Demersal Research 2016. *FISHERIES/2016/MAR/SWG-DEM/02*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Durholtz D.** 2016. Patterns in hake deepsea trawl and longline fishing activity as a possible reason for the recent decline in the proportion of *M. capensis* in catches. *FISHERIES/2016/JUL/SWG-DEM/27*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Fairweather TP.** 2016. Agulhas sole historic fishing effort 2000–2015. *FISHERIES/2016/OCT/SWG-DEM/70*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Fairweather TP.** 2016. Alternative methods for determining effort in the sole grounds and the 2015 effort analysis. *FISHERIES/2016/MAR/SWG-DEM/03*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Fairweather TP.** 2016. Collation of data for the assessment of Agulhas sole. *FISHERIES/2016/AUG/SWG-DEM/31*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Fairweather TP.** 2016. Horse mackerel catch and effort by components of the demersal fleet. *FISHERIES/2016/JULY/SWG-DEM/18*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Fairweather TP.** 2016. Horse mackerel catch and effort by the dual-right component of the demersal fleet – expanded series. *FISHERIES/2016/AUG/SWG-DEM/36*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Fairweather TP.** 2016. Monitoring fishing effort on the Agulhas sole grounds in 2016. *FISHERIES/2016/OCT/SWG-DEM/64*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Fairweather TP.** 2016. Monitoring fishing effort on the Agulhas sole grounds in 2016 – mid-year update. *FISHERIES/2016/AUG/SWG-DEM/30*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Fairweather TP.** 2016. Presentation of horse mackerel nominal catch and effort data for the midwater fleet and demersal fleets. *FISHERIES/2016/MAY/SWG-DEM/15*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Fairweather TP.** 2016. Provision of horse mackerel catch and effort data from observer databases for standardised CPUE. *FISHERIES/2016/JULY/SWG-DEM/19*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Fairweather TP, Durholtz D.** 2016. DSWG input into Climate Change Adaptation and Mitigation Plan (CCAMP) for the major demersal commercial species – initial response. *FISHERIES/2016/OCT/SWG-DEM/65*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Fairweather TP, Durholtz D.** 2016. Fishing effort on the Agulhas sole grounds and its management in 2016. *FISHERIES/2016/JUL/SWG-DEM/25*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Fairweather TP, Durholtz D.** 2016. Re-evaluation of the 2013 and 2015 effort on the sole grounds and proposed improvements for the management of effort in 2016. *FISHERIES/2016/MAY/SWG-DEM/12*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Fairweather TP, Glazer JP, Durholtz D.** 2016. Summary of Agulhas sole CPUE analyses. *FISHERIES/2016/AUG/SWG-DEM/38*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Githaiga-Mwicigi JM, Kerwath SE.** 2016. Linefish and Small Scale Adaptation Options 12 Feb 2016. *FISHERIES/2016/FEBRUARY/CCTT/4*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Githaiga-Mwicigi JM.** 2016. DRAFT Complete Climate Change Mitigation and Adaptation Plan 16Mar16. *FISHERIES/2016/MARCH/CCTT/14*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Githaiga-Mwicigi JM.** 2016. Proposed MPAs implications for Squid. *FISHERIES/2016/APRIL/SWG-SQ/13*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Githaiga-Mwicigi JM.** 2016. Squid Research Plan 2016. *FISHERIES/2016/APR/SWG-SQ/16*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Githaiga-Mwicigi JM.** 2016. Squid Climate Change Adaptation Measures Table. *FISHERIES/2016/OCTOBER/SWG-SQ/34*. Department of Agriculture, Forestry and Fisheries, Cape Town.

- Githaiga-Mwicigi JM** (with members of the Squid SWG). 2016. Draft Squid TAE recommendation for the 2017 fishing year. *FISHERIES/2016/OCTOBER/SWG-SQ/37*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Glazer JP**. 2016. An index of abundance for Zone A West Coast rock lobster. *FISHERIES/2016/JUL/SWG/WCRL17*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Glazer JP**. 2016. A note regarding the trawl catches of *Loligo reynaudii* as used in the stock assessment model. *FISHERIES/2016/OCT/SWG-SQ/24*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Glazer JP**. Further calculations related to the additional closed season. *FISHERIES/2016/OCT/SWG-SQ/33*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Glazer JP**. 2016. Offshore hake species-specific standardized CPUE indices. *FISHERIES/2016/AUG/SWG-DEM/33*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Glazer JP**. 2016. Separating the offshore hake catches by coast and species. *FISHERIES/2016/AUG/SWG-DEM/32*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Glazer JP**. 2016. South Coast rock lobster size distributions for the 2014/15 fishing season. *FISHERIES/2016/AUG/SWG/SCRL/04*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Glazer JP**. 2016. South Coast rock lobster standardized CPUE indices per area. *FISHERIES/2016/AUG/SWG/SCRL/02*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Glazer JP**. 2016. Standardized CPUE indices in the West Coast rock lobster hoopnet fishery *FISHERIES/2016/JUL/SWG/WCRL16*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Glazer JP**. 2016. Standardized CPUE indices in the West Coast rock lobster trapboat fishery *FISHERIES/2016/JUL/SWG/WCRL15*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Glazer JP**. 2016. The separation of catch by area in the South Coast rock lobster fishery. *FISHERIES/2016/AUG/SWG/SCRL/03*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Glazer JP**, Butterworth DS. 2016. A 2016 updated assessment of the squid resource, *Loligo reynaudii*. *FISHERIES/2016/OCT/SWG-SQ/25*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Glazer JP**, Butterworth DS. 2016. Further squid analyses. *FISHERIES/2016/OCT/SWG-SQ/30*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Glazer JP**, Butterworth DS. 2016. Updated calculations related to the additional closed season. *FISHERIES/2016/OCT/SWG-SQ/26* Amended. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Hampton I, **Githaiga-Mwicigi JM**, **van der Lingen CD**, **Lamberth S**, Augustyn J. 2016. Linefish Workshop report 10 December 2015, edited 13 January 2016 for circulation. *FISHERIES/2016/JANUARY/CCTT/6*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Hampton I, **Githaiga-Mwicigi JM**, **van der Lingen CD**, Augustyn J. 2016. Framework addition of MFAQ_15Feb16. *FISHERIES/2016/FEBRUARY/CCTT/8*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Hampton I, **Githaiga-Mwicigi JM**, **van der Lingen CD**, Augustyn J. 2016. Linefish and Small Scale Adaptation Options_25 Feb 2016. *FISHERIES/2016/FEBRUARY/CCTT/10*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Johnston SJ, Butterworth DS, **van Zyl D**. 2016. Comparable West Coast rock lobster catch and effort data up to 31 March 2016 for the past five seasons, with implications for exceptional circumstances. *FISHERIES/2016/MAY/SWG/WCRL/08*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Kerwath SE**. 2016. Recommendations of the large pelagics and sharks scientific working group for the sustainable management of tuna and swordfish resources in 2017 (large pelagic longline and tuna pole-line). *FISHERIES/2016/NOV/LPSSWG*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Maharaj G**, **Mackenzie AJ**. 2016. Data updates and decision rules for Zone E, F and G. *FISHERIES/2016/JUL/SWG-AB/04*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Maharaj G**, **Mackenzie AJ**. 2016. Progress with Inshore FIAS density and catch-at-age data for Zones A to D. *FISHERIES/2016/JUL/SWG-AB/03*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Maharaj G**, **Mackenzie AJ**. 2016. Summary of commercial data updates for the abalone fishery in Zones A–D. *FISHERIES/2016/JUL/SWG-AB/02*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Maharaj G**, **Mackenzie AJ**. 2016. Summary of confiscations numbers and size (catch-at-age) data for the abalone fishery in Zones A–D in 2016. *FISHERIES/2016/AUG/SWG-AB/08*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- Somhlaba S**, **Leslie RW**, Butterworth DS. 2016. Revised catch per unit effort for hake long line fishery in South Africa: *FISHERIES/2016/AUG/SWG-DEM/HSATT*.
- van der Lingen CD**. 2016. Collated data on chub mackerel *Scomber japonicus* in South African waters to inform an application for an experimental jig fishery for this species. *FISHERIES/2016/SWG-NF/SEPTEMBER/2016/01*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- van der Lingen CD**. 2016. A description of parasite data (2010–2015). *MARAM/IWS/DEC/2016/SARDINE/BG5*. University of Cape Town, Cape Town.
- van der Lingen CD**, **Coetzee JC**, McGrath A. 2016. Data for informing the choice of a prior for the contribution of South Coast spawner biomass to West Coast recruitment. *FISHERIES/2016/NOV/SWG-PEL/58* and *MARAM/IWS/DEC/2016/Sardine/P8*. Department of Agriculture, Forestry and Fisheries, Cape Town and University of Cape Town, Cape Town.
- van der Lingen CD**, McGrath A, **Coetzee JC**. 2016. Sources of uncertainty in IBM modelling of sardine off South Africa. *MARAM/IWS/DEC2016/SARDINE/WP1*. University of Cape Town, Cape Town.
- van der Lingen CD**, **Geja Y**. 2016. Estimating sardine recruit cut-off length from 2016 pelagic recruit survey gonad maturity data. *FISHERIES/2016/JULY/SWG-PEL/29*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- van der Lingen CD**, **Shabangu F**. 2016. Priority projects of the SWG(PEL) EAF task team. *FISHERIES/2016/FEB/SWG-PEL/05CORR*. Department of Agriculture, Forestry and Fisheries, Cape Town.
- van der Lingen CD**, **van der Westhuizen JJ**, **de Goede J**. 2016. Spatial patterns in monthly directed sardine catches, January 2014 to August 2016. *FISHERIES/SEP/2016/SWG-PEL/41*. Department of Agriculture, Forestry and Fisheries, Cape Town.

Fisheries, Cape Town.

van Zyl D. 2016. Effort catch calculations. *FISHERIES/2016/AUG/SWG/WCRL/35*. Department of Agriculture, Forestry and Fisheries, Cape Town.

van Zyl D. 2016. West Coast rock lobster- annual TAC, catch, effort and cpue per area. *FISHERIES/2016/JUL/SWG/WCRL/13*. Department of Agriculture, Forestry and Fisheries, Cape Town.

Winker H, Thorson J, **Fairweather T, Leslie RW, Durholtz D.** 2016. Towards improving precision in South African demersal trawl survey indices of abundance using geostatistical GLMMs. *FISHERIES/2016/AUG/SWG-DEM/40*. Department of Agriculture, Forestry and Fisheries, Cape Town.