

SCIENTIFIC OUTPUT OF THE BRANCH: FISHERIES MANAGEMENT OF THE DEPARTMENT OF FORESTRY, FISHERIES AND THE ENVIRONMENT (DFFE)

2022

This document lists the scientific output of the Branch: Fisheries Management for 2022, arranged by output category. Figures in brackets represent the output for the previous two years, 2021 and 2020, respectively, and are included for comparison. After two years of restrictions on travel and in-person meetings as a result of the COVID-19 pandemic, 2022 saw a return to normal movement, which allowed those categories of output that had been most seriously affected to also return to normal. In the category 'peer-reviewed publications' there were 28 (37, 56) papers. There were 11 (12, 11) documents in the category 'theses/dissertations/tertiary projects', all of which were DFFE-supervised or co-supervised. There were 29 (24, 20) documents in the category 'book chapters, published reports and popular articles', 18 of which were species profiles in a WILDTRUST special publication entitled "*Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*". There were 71 (11, 40) 'contributions to symposia and conferences, and public presentations'. This category of output showed a dramatic post-COVID recovery. The most numerous contributions in 2022 were presentations made at the 17th Southern African Marine Science Symposium (29) and the 14th Conference of the Aquaculture Association of Southern Africa (15). There were 57 (22, 17) 'contributions to workshops, short courses, and management and scientific bodies, and unpublished technical reports', another category that showed a return to normal after being severely affected by the pandemic. Of these, 26 were contributions to activities of the Indian Ocean Tuna Commission (IOTC), 10 to activities of the International Commission for the Conservation of Atlantic Tunas (ICCAT) and 5 to activities of the Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR). Finally, there were 64 (51, 55) unpublished working group documents.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 Fisheries Management staff shown in bold, Oceans & Coasts in italics)

- Amosu AO, Robertson-Andersson DV, Maneveldt GW, Knapp JL, **Auerswald L**, Bolton JJ. 2022. Environmental response and pH tolerance of induced CO₂ in *Ulva rigida* C. Agardh, 1823 (Chlorophyta) under controlled conditions. *Journal of Animal and Plant Sciences* 32: 1605–1615.
- Assis J, Neiva J, Bolton JJ, **Rothman MD**, Gouveia L, Paulino C, Mohdhasir H, Anderson RJ, Reddy MM, Kandjengo L, Kreiner A. 2022. Ocean currents shape the genetic structure of a kelp in southwestern Africa. *Journal of Biogeography* 49: 822–835.
- Becker FK, **Shabangu FW**, Gridley T, Wittmer HU, Marsland S. 2022. Sounding out a continent: seven decades of bioacoustics research in Africa. *Bioacoustics* 31: 646–667.
- Brink-Hull M, **Cyrus MD**, **Macey BM**, Rhode C, Hull KL, Roodt-Wilding RR. 2022. Dietary effects on the reproductive performance of the sea urchin *Tripneustes gratilla* I: Implications for broodstock conditioning. *Aquaculture* 552: article 738035.
- Brink-Hull M, **Cyrus MD**, **Macey BM**, Rhode C, Hull KL, Roodt-Wilding RR. 2022. Dietary effects on the reproductive performance of the sea urchin *Tripneustes gratilla* II: Implications for offspring performance. *Aquaculture* 552: article 738038.
- Daly R, Jordaan GL, **Parker D**, Cliff G, Nkabi N, Kyle R, Fennessy ST, Mann BQ. 2022. Movement patterns and catch trends of the diamond ray *Gymnura natalensis* (Dasyatidae) in South African waters. *African Journal of Marine Science* 44: 35–48.
- Haupt TM, Ceasar J, Stefanoudis P, von der Meden C, Payne RP, Adams LA, **Anders DR**, Bernard AT, Coetzer W, Florence WK, **Janson LA**, **Johnson AS**, Juby R, Kock AA, Langenkämper D, Nadjim AM, **Parker D**, **Samaai T**, **Snyders LB**, **Upfold L**, **van der Heever GM**, Williams LL. 2022. The WIO Regional Benthic Imagery Workshop: lessons from past IIOE-2 expeditions. *Research Ideas and Outcomes* 8: e81563.
- Holness SD, Harris LR, Chalmers R, De Vos D, Goodall V, Truter H, Oosthuizen A, Bernard AT, Cowley PD, **da Silva C**, Dicken M. 2022. Using systematic conservation planning to align priority areas for biodiversity and nature-based activities in marine spatial planning: a real-world application in contested marine space. *Biological Conservation* 271: article 109574.
- Kapula VK, Ndjaula HON, Schulze M, **Durholtz D**, Japp D, **Singh L**, Mathee CA, von der Heyden S, Henriques R. 2022. Genetic assessment of seasonal alongshore migration in *Merluccius capensis* in the Benguela region. *Fisheries Research* 250: article 106293.

- Kock AA, Lombard AT, Daly R, Goodall V, Meyer M, Johnson R, Fischer C, Koen P, Irion D, Gennari E, Towner A, Jewell OJD, **da Silva C**, Dicken ML, Smale MJ, Photopoulou T. 2022. Sex and size influence the spatiotemporal distribution of white sharks, with implications for interactions with fisheries and spatial management in the southwest Indian Ocean. *Frontiers in Marine Science* 9: article 811985.
- Letshelaha IS, **Shabangu FW**, Farrell D, Andrew RK, la Grange PL, Findlay KP. 2022. Year-round acoustic monitoring of Antarctic blue and fin whales in relation to environmental conditions off the west coast of South Africa. *Marine Biology* 169: article 41.
- Madibana MJ, Fouché CH**, Davids JJ, Mthembu ST, Motubatse MH, Poni Z, Thomas AE, Nyengule O, Nemakhavhani LR. 2022. Chemical and biophysical indices of soybean meal fermented with *Lactobacillus acidophilus* and *Lactobacillus cereus*-containing products. *Agricultural Science and Technology* 14: 32–39.
- Marco HG, **Auerswald L**, Matumba TG, Gäde G. 2022. Distribution of astaxanthin in the spiny lobster *Jasus lalandii*: trends during biological cycles. *Invertebrate Reproduction and Development* 66: 120–134.
- Mbokane EM, Fouche CH**. 2022. The potential use of acid fermented one-day old male chick meat in *Oreochromis mossambicus* diets – its effect on growth performance, digestive enzymes and gut health. *Aquaculture* 554: article 738110.
- Mbokane EM, Mbokane LM, Fouche CH**. 2022. The effect of fishmeal replacement with acid-fermented chicken silage on growth, digestive enzyme activity and histology of the intestine and liver of juvenile Mozambique tilapia (*Oreochromis mossambicus*). *Aquaculture International* 30: 1–22.
- Mbokane EM, Moyo NAG**. 2022. Use of medicinal plants as feed additives in the diets of Mozambique tilapia (*Oreochromis mossambicus*) and the African sharptooth catfish (*Clarias gariepinus*) in Southern Africa. *Frontiers in Veterinary Science* 9: article 1072369.
- Nyuliwe CT, Mlambo V, **Madibana MJ**, Wokadala OC, Mwanza M. 2022. Partial substitution of fishmeal with mopane worm meal in dusky kob fingerling (*Argyrosomus japonicus*) diets: feed utilization, digestive enzyme activity, blood parameters, and growth performance. *Aquaculture Journal* 2: 59–71.
- Pons M, Watson JT, Ovando D, Andraka S, Brodie S, Domingo A, ..., **Kerwath S[E]**... et al. 2022. Trade-offs between bycatch and target catches in static versus dynamic fishery closures. *Proceedings of the National Academy of Sciences of the United States of America* 119: e2114508119.
- Ramirez F, Shannon L, **van der Lingen CD**, Julia L, Steenbeek J, Coll M. 2022. Climate and fishing simultaneously impact small pelagic fish in the oceans around the southernmost tip of Africa. *Frontiers in Marine Science* 9: article 1031784.
- Samaai T**, Turner TL, Kara J, **Yemane D**, Ngwakum BB, Payne RP, **Kerwath S[E]**. 2022. Confirmation of the southern African distribution of the marine sponge *Hymeniacidon perlevis* (Montagu, 1814) in the context of its global dispersal. *PeerJ* 10: e14388.
- Seakamela SM, Kotze PGH, Gumede NC, Sibiyi N, Shabangu FW, McCue SA**. 2022. Finally seen: a rare sighting of Antarctic blue whale cow–calf pair off the west coast of South Africa. *Polar Biology* 45: 1715–1721.
- Shabangu FW**, Hofmeyr GJG, Probert R, Connan M, Buhrmann CA, Gridley T. 2022. In-air acoustic repertoire and associated behaviour of wild juvenile crabeater seals during rehabilitation. *Bioacoustics* 32: 261–283.
- Shabangu FW**, Kowarski KA. 2022. The beat goes on: humpback whale song seasonality in Antarctic and South African waters. *Frontiers in Marine Science* 9: article 827324.
- Shabangu FW, Yemane D**, Best G, Estabrook BJ. 2022. Acoustic detectability of whales amidst underwater noise off the west coast of South Africa. *Marine Pollution Bulletin* 184: article 114122.
- Simon CA, du Toit AN, **Lamberth SJ**, Branch GM. 2022. Standardising English and Afrikaans common names for polychaetes harvested as bait in South Africa. *African Zoology* 57: 75–89.
- van Niekerk L, **Lamberth SJ**, James NC, Taljaard S, Adams JB, Theron AK, Krug M. 2022. The vulnerability of South African estuaries to climate change: a review and synthesis. *Diversity* 14: article 697.
- van Niekerk L, Taljaard S, **Lamberth SJ**, Adams JB, Weerts SP, MacKay CF. 2022. Disaggregation and assessment of estuarine pressures at the country-level to better inform management and resource protection – the South African experience. *African Journal of Aquatic Science* 47: 127–148.
- van Staden M, Ebert DA, **da Silva C**, Bester-van der Merwe AE. 2022. Comparative analyses of the complete mitochondrial genomes of two southern African endemic guitarfish, *Acroteriobatus annulatus* and *A. blochii*. *International Journal of Biological Macromolecules* 223: 1094–1106.

Theses/Dissertations/Tertiary Projects

- Nobuhle M. 2022. Description of the reproductive cycle of the clam *Venerupis corrugatus* from Langebaan Lagoon. Advanced diploma, Cape Peninsula University of Technology, South Africa. Supervisors: **Arendse DCZ**, Sparks C.
- Bennett M. 2022. Determining larval settlement, post-settlement and weaning substrates and regimes for the sea urchin *Tripneustes gratilla* in intensive aquaculture. MSc thesis, University of Cape Town, South Africa. Supervisors: Bolton JJ, **Cyrus MD**, **Macey BM**.
- Cloete A. 2022. Growth and survival of juvenile abalone *Haliotis midae* fed diets supplemented with faecal matter from the Cape Sea urchin *Parechinus angulosus*. BSc Hons thesis, University of Cape Town, South Africa. Supervisors: Bolton JJ, **Cyrus MD**, Brink-Hull M, **Macey BM**.
- Daniels R. 2022. Acoustic ecology and occurrence of killer whales at sub-Antarctic Marion Island. BSc Hons thesis, University of Cape Town, South Africa. Supervisors: **Lamont T**, **Shabangu FW**.
- Galdardt M. 2022. The potential for increasing the recirculation rate in a commercial integrated abalone-*Ulva* aquaculture system. BSc Hons thesis, University of Cape Town, South Africa. Supervisors: Bolton JJ, **Cyrus MD**, Brink-Hull M, **Macey BM**.
- Hill F. 2022. Optimal water treatment for kelp spore settlement and juvenile development. BSc Hons thesis, University of Cape Town, South Africa. Supervisors: Bolton JJ, **Cyrus MD**, Brink-Hull M, **Macey BM**.
- Mdhluvu R. 2022. Growth performance, blood parameters and meat quality in dusky kob (*Argyrosomus japonicus*, Sciaenidae) offered crocodile meal as a replacement for the fishmeal. MSc thesis, University of Mpumalanga, South Africa. Supervisors: Mlambo V, **Madibana MJ**.
- Munian A. 2022. The search for biomarkers in the growth prediction of the West Coast rock lobster, *Jasus lalandii*. PhD thesis, Stellenbosch University, South Africa. Supervisors: **Auerswald L**, **Cockcroft AC**, Hoffman LC.

- Purdon J. 2022. Cetacean distribution and anthropogenic threats in South African waters to inform conservation in an expanding economy. PhD thesis, University of Pretoria, South Africa. Supervisors: Somers MJ, Findlay K, **Shabangu FW**, Pienaar M.
- Torr M. 2022. Investigating relationships between SST patterns and small pelagic fish distributions around the South African coast. BSc Hons thesis, University of Cape Town. Supervisors: *Lamont T*, **van der Lingen CD**.
- Werner T. 2022. Growth and survival of the South African Cape sea urchin *Parechinus angulosus* under chronic hypercapnia. BSc thesis, Heinrich-Heine-University Düsseldorf, Germany. Supervisors: Bridges C, **Auerswald L**.
- Publication No. 2. Durban, South Africa: WILDTRUST. pp 113–117.

Book Chapters, Published Reports and Popular Articles

- Becker FK, **Shabangu FW**, Gridley T, Wittmer HU, Marsland S. 2022. Eavesdropping on nature: why Africa needs more bioacoustics research. *The Conversation*. Available at <https://theconversation.com/eavesdropping-on-nature-why-africa-needs-more-bioacoustics-research-175527>.
- Cliff G, **da Silva C**. 2022. *Centrophorus granulosus*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 33–37.
- Cliff G, **da Silva C**. 2022. *Centrophorus moluccensis*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 38–41.
- Cliff G, **da Silva C**. 2022. *Deania quadrispinosa*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 52–56.
- Cliff G, **da Silva C**. 2022. *Echinorhinus brucus*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 22–26.
- Cliff G, **da Silva C**. 2022. *Oxynotus centrina*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 61–65.
- Cliff G, **da Silva C**. 2022. *Squalus acanthias*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 9–16.
- Cliff G, **da Silva C**. 2022. *Alopias pelagicus*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 103–107.
- Cliff G, **da Silva C**. 2022. *Alopias superciliosus*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 108–112.
- Cliff G, **da Silva C**. 2022. *Alopias vulpinus*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 195–201.
- Cliff G, **da Silva C**. 2022. *Rostroraja alba*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 395–399.
- Cliff G, **da Silva C**, Ntuli S, Olbers JM, Voorhis R, Leslie R. 2022. *Chondrichthyans of South Africa: a compliance and law enforcement fisheries identification guide*. Special Publication No. 1. Durban, South Africa: WILDTRUST.
- Cliff G, **Dudley SFJ**. 2022. *Carcharhinus plumbeus*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 287–292.
- Cliff G, Fennessy S, **da Silva C**. 2022. *Dalatias licha*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 66–70.
- Cliff G, Fennessy S, **da Silva C**. 2022. *Leucoraja wallacei*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 381–385.
- da Silva C**, Cliff G. 2022. *Centrophorus squamosus*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 42–46.
- da Silva C**, Cliff G. 2022. *Centroscymnus owstonii*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 57–60.
- da Silva C**, Cliff G. 2022. *Cruriraja durbanensis*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 400–403.
- da Silva C**, Cliff G. 2022. *Raja ocellifera*. In: Cliff G, Olbers JM (eds), *Species profiles of South African sharks, rays and chimaeras*, vol. 1. *Threatened and endemic species*. Special Publication No. 2. Durban, South Africa: WILDTRUST. pp 390–394.
- Gabriel NN, Iitembu JA, Hasimuna OJ, Rashidian G, **Mbokane EM**, Moyo NAG, Hlophe-Ginindza SN. 2022. Medicinal plants: a perspective on their application in the African smallholder aquaculture farms. In: Rajeev RK (ed.), *Sustainable agriculture and food security*. Patancheru, Telangana, India: Semi-Arid Tropics, International Crops Research Institute.
- Mann BQ, **Lamberth SJ**. 2022. Human environment: small-scale fisheries. In: Goble BJ, van der Elst RP (eds), *State of the coast KwaZulu-Natal – a review of the state of the coast of KwaZulu-Natal*. Pietermaritzburg: KwaZulu-Natal Department of Economic Development, Tourism and Environmental Affairs. pp 131–134.
- Mbokane EM**, Mbokane LM, Motimele SS, Hlophe-Ginindza SN. 2022. Successes and challenges of catfish farming in the small-scale industry in Southern Africa. In: Atamanalp M (ed.),

- Catfish – advances, technology, experiments*. London, UK: IntechOpen.
- van Niekerk L, Adams JB, Taljaard S, Huizinga P, **Lamberth SJ**. 2022. Advancing mouth management practices in Groot Brak Estuary, South Africa. In: Slinger JH, Taljaard S, d'Hont F (eds), *Complex coastal systems – transdisciplinary learning on international case studies*. Delft, The Netherlands: Delft Academic Press. pp 89–104.
- van Niekerk L, Sink K, **Lamberth SJ**, Cilliers G, Karenzi N, Mackay F, Mtetandaba A, *Nhleko J*, Porter S, Smith M, Taljaard S, Weerts S. 2022. Policy brief: freshwater flowing into the sea is not wasted. CSIR Report No. CSIR/SPLA/SECO/IR/2022/0011/A prepared for South African National Biodiversity Institute (SANBI) by Council for Scientific and Industrial Research (CSIR) in collaboration with the Department of Forestry, Fisheries and the Environment, Oceanographic Research Institute, University of Cape Town and SANBI. Pretoria, South Africa: CSIR.
- van Niekerk L, Taljaard S, Adams JB, **Lamberth SJ**, Lemley D, Weerts S. 2022. Evaluating the vulnerability of South Africa's estuarine lakes to climate change. In: Petja BM (ed.), *Climate change impacts on water resources: implications and practical responses in selected South African systems*. WRC Report No. SP 155/22. Pretoria, South Africa: Water Research Commission. pp 143–171.
- van Niekerk L, Taljaard S, Adams JB, **Lamberth SJ**, Weerts SP, Lemley D, Riddin T. 2022. *Development of climate change mitigation and adaptation strategies for the estuarine lakes of South Africa*, vol. I. *A review of available information*. WRC Report No. TT 871/1/21. Pretoria, South Africa: Water Research Commission.
- van Niekerk L, Taljaard S, Adams JB, **Lamberth SJ**, Weerts SP, Lotter D, Lemley D, Riddin T. 2022. *Development of climate change mitigation and adaptation strategies for the estuarine lakes of South Africa*, vol. II. *Climate change vulnerability assessment and recommended mitigation and adaptation strategies*. WRC Report No. TT 871/2/21. Pretoria, South Africa: Water Research Commission.
- van Niekerk L, Taljaard S, Adams JB, **Lamberth SJ**, Weerts SP, Lotter D, Lemley D, Riddin T. 2022. *Development of climate change mitigation and adaptation strategies for the estuarine lakes of South Africa*, vol. III. *Vulnerability assessment appendices*. WRC Report No. TT 871/3/21. Pretoria, South Africa: Water Research Commission.
- Contributions to Symposia and Conferences, and Public Presentations**
- Alessio Gomiero A, Casserly J, O'Donohoe P, Michalek K, Macleod A, **Macey BM**, Lauvset SV, Goris N, Ravagnan E. 2022. Plastic litter fingerprint assessment of different trophic aquaculture systems: method development and application. *Aquaculture Europe 2022, 27–30 September, Rimini, Italy*. (oral presentation)
- Arendse DCZ**, Pitcher GC, Lewis BR, Sassman LC, Fortune MN. 2022. Preliminary results from an investigation of the reproduction cycle of the clam *Venerupis corrugatus*. *14th Conference of the Aquaculture Association of Southern Africa, 11–15 July, Stellenbosch, South Africa*. (poster presentation)
- Auerswald L**, Munian A, Hoffman LC, **Cockcroft AC**. 2022. Biological and biochemical parameters as potential growth predictors in male *Jasus lalandii*. *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa*. (poster presentation)
- Bachoo T, Bolton JJ, Reddy M, **Macey BM**. 2022. Characterization of *Ulva* (Ulvaaceae, Chlorophyta) species cultured in commercial abalone farms in South Africa, and comparison with closely related wild species. *14th Conference of the Aquaculture Association of Southern Africa, 11–15 July, Stellenbosch, South Africa*. (oral presentation)
- Bennett M, **Macey BM**, Bolton JJ, Coyne VE, **Cyrus MD**. 2022. Larval settlement, post-settlement and weaning substrates and regimes for the sea urchin *Tripneustes gratilla* in intensive aquaculture. *14th Conference of the Aquaculture Association of Southern Africa, 11–15 July, Stellenbosch, South Africa*. (oral presentation)
- Bolton JJ, **Cyrus MD**, De Prisco JA, Geldart M, Brink-Hull M, **Macey BM**. 2022. Daily rhythms of critical water quality parameters in commercial land-based, partially recirculated abalone-*Ulva* Integrated Multi-Trophic Aquaculture systems, and the potential for increasing recirculation rates. *Aquaculture Europe 2022, 27–30 September, Rimini, Italy*. (oral presentation)
- Brink-Hull M, **Cyrus MD**, Cloete A, Bolton JJ, **Macey BM**. 2022. Symbiotic integrated aquaculture: sea urchin faecal matter as a dietary supplement for juvenile abalone. *14th Conference of the Aquaculture Association of Southern Africa, 11–15 July, Stellenbosch, South Africa*. (oral presentation)
- Brink-Hull M, **Cyrus MD**, Cloete A, Bolton JJ, **Macey BM**. 2022. Using sea urchin faeces as a dietary supplement for juvenile abalone: effects on growth, survival, and the microbiome. *Aquaculture Europe 2022, 27–30 September, Rimini, Italy*. (oral presentation)
- Brinkman F, Wilhelm M, **Geja Y**, van der Lingen CD. 2022. Using otolith biochronologies from sardine (*Sardinops sagax*) in the southern Benguela to identify ecosystem shifts. *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa*. (oral presentation)
- Brown-Webb B, Stander B, Bolton JJ, Lück-Vogel M, **Rothman M**, **Cyrus MD**, **Macey B**, Ohlson H, **Arendse DCZ**, Du Toit D, Meyer I, Mtombeni N, Snyman-van der Walt L, **Bernatzeder A**, Pillay PJ. 2022. Pre-feasibility study of the potential for commercial cultivation of kelp along South Africa's west coast. *14th Conference of the Aquaculture Association of Southern Africa, 11–15 July, Stellenbosch, South Africa*. (oral presentation)
- Coetzee V, **Parker D**, **Lamberth SJ**, **Kerwath SE**. 2022. Grunting in murky waters: morphological and ethological discrimination among functional stocks of spotted grunter, an estuarine-dependent fish. *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa*. (oral presentation)
- Cyrus MD**, Bennett M, **Macey BM**, Coyne VE, Bolton JJ. 2022. Identifying suitable settlement substrates and feeds for early-stage growth of the sea urchin *Tripneustes gratilla*: implications for hatchery management protocols and production. *Aquaculture Europe 2022, 27–30 September, Rimini, Italy*. (oral presentation)
- da Silva C**. 2022. A day in the life of a Government scientist: policy and management. *WildTrust Ocean Stewards Seminars, 27–28 September 2022, Durban, South Africa*.
- da Silva C**, **Kerwath SE**. 2022. Requiem shark listings in CITES Appendix II. *CoP19 preparatory meeting, 19 July 2022, online meeting, South African National Biodiversity Institute (SANBI), Pretoria*.
- de Cubber L, Groenewald G, Horton M, Ouzara T, Le Moan E, Pecquerie L, van der Lingen C, Maury O. 2022. A generalized Dynamic Energy Budget model including 3D shape changes for modeling small pelagic fish growth. *PICES/ICES/FAO Symposium on Small Pelagic Fish: New Frontiers in Science*

- and Sustainable Management, 7–11 November 2022, Lisbon, Portugal. (oral presentation)
- De Vos B, Bolton JJ, **Macey BM**, **Cyrus MD**. 2022. Using interdisciplinary modelling to assess the feasibility of a commercial scale recirculating aquaculture system integrating sea urchins (*Tripneustes gratilla*) and seaweed (*Ulva lacunculata*). 14th Conference of the Aquaculture Association of Southern Africa, 11–15 July, Stellenbosch, South Africa. (oral presentation)
- De Vos BC, **Cyrus MD**, **Macey BM**, Batik T, Bolton JJ. 2022. The development of machine vision to measure sea urchins. *Aquaculture Europe 2022*, 27–30 September, Rimini, Italy. (oral presentation)
- Dudek T, Andersen H, **Yemane D**, Fock H, Duncan S, Ekau W. 2022. Size spectra of zooplankton and mesopelagic fish in the Benguela upwelling system. 17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa. (oral presentation)
- Duncan S, Auel H, Bode-Dalby M, Horton M, Koppelman R, Lahajnar N, **van der Lingen C**, Martin B, Sell A, Hagen W, Fock H. 2022. Pelagic food web structure in the northern and southern Benguela Upwelling Systems. 17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa. (oral presentation)
- Fouche CH**. 2022. Species selection, biology and reproduction techniques of tilapia. 14th Conference of the Aquaculture Association of Southern Africa, 11–15 July, Stellenbosch, South Africa. (oral presentation)
- Fouche CH**. 2022. Thermal induction of tetraploidy in African sharptooth catfish, *Clarias gariepinus*. 14th Conference of the Aquaculture Association of Southern Africa, 11–15 July, Stellenbosch, South Africa. (oral presentation)
- Fouche CH**, **Goodman M**. 2022. Development of a novel and efficient method for the oral delivery of bioactive peptides in commercially used finfish that are responsive to GnRH α induced spawning. 14th Conference of the Aquaculture Association of Southern Africa, 11–15 July, Stellenbosch, South Africa. (oral presentation)
- Fouche CH**, **Goodman M**, **Hendricks A**, **Sophangisa S**, **Selapa W**. 2022. Development of a relatively cheap fertilizer for the mass culture of *Isochrysis galbana* and *Nannochloropsis oculata*, the preferred algae species for rotifer enrichment and pseudo-green water practices in marine finfish hatcheries. 14th Conference of the Aquaculture Association of Southern Africa, 11–15 July, Stellenbosch, South Africa. (poster presentation)
- Haupt TM, Novak T, Naylor M, **Auerswald L**. 2022. Physiological responses to changing climates: a case study of a local abalone species. 17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa. (poster presentation)
- Horton M, Shannon LJ, **van der Lingen CD**. 2022. The morphology of early life history stages of small pelagic fish in the Benguela Upwelling System. 17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa. (oral presentation)
- Kerwath S[E]**, **Lamberth S[L]**. 2022. Island or oasis? The role of shallow oceanic seamounts in structuring populations of yellowtail *Seriola lalandi*. 17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa. (oral presentation)
- Kerwath SE**, Roodt-Wilding R, **Samaai T**, Winker H, West W, Surajnarayan S, Swart B, Bester-van der Merwe A, Götz A, **Lamberth SJ**, **Wilke C**. 2022. Shallow seamounts represent speciation islands for circumglobal yellowtail *Seriola lalandi*. 17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa. (oral presentation)
- Lamberth SJ**, Baur N, Bornman TG, Brett G, James N, **Krug M**, Russo C, Steyn P-P. 2022. A sequential account of a major ocean weather anomaly; direct and indirect impacts on marine life. 17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa. (oral presentation)
- Lamberth SJ**, Bornman TG, **Kerwath SE**, Kock A, **Mansfield L**, **Parker D**, **Rothman M**, **Samaai T**, Smith M. 2022. Gone west: first observations of surf-zone diatom *Anaulus australis* accumulations on the West Coast. 17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa. (poster presentation)
- Lamberth SJ**, **Kerwath SE**. 2022. What's in the basket? Spatial distribution and availability of harvestable marine species around the South African coast. 17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa. (oral presentation)
- Lamberth SJ**, **van der Lingen CD**. 2022. Is climate change impacting South Africa's marine fisheries? 22nd Marine and Coastal Educators Network Conference, 28–30 March 2022, online conference. (oral presentation)
- Le Moan E, Ouzara T, Flores J, De Cubber L, Menu C, Huret M, Maury O, Groenewald G, Marques S, **van der Lingen C**, Vagner M, Pecquerie L. 2022. Characterising the life trait variability of anchovy species of the genus *Engraulis* using a DEB (Dynamic Energy Budget) modelling approach. 15th Conference of the French Association of Halieutics, 29 June–1 July 2022, Brest, France. (poster presentation)
- Lillis A, Caputo M, Lebrato M, Bowles KR, **Shabangu FW**. 2022. Sounds of a changing sea: using passive acoustic monitoring to explore coastal biodiversity in Mozambique. 17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa. (oral presentation)
- Maapea AD, Vine NG, **Macey BM**. 2022. Microbiome of dusky kob (*Argyrosomus japonicus*) eggs and hatchery water and efficacy of various chemicals for egg disinfection. 14th Conference of the Aquaculture Association of Southern Africa, 11–15 July, Stellenbosch, South Africa. (oral presentation)
- Macey BM**, Brand MJ, Brink-Hull M, Bolton JJ. 2022. *Ulva* as a functional ingredient for farmed abalone: Impacts on growth, physiology, and microbiome. 14th Conference of the Aquaculture Association of Southern Africa, 11–15 July, Stellenbosch, South Africa. (oral presentation)
- Macey BM**, Bolton JJ, **Rothman M**, **Jika Z**, **Ismail I**, **Semoli B**. 2022. South African seaweed aquaculture sector. FAO Seaweed Aquaculture Policy Dialogue, 11–12 May, online meeting. (oral presentation)
- Macey BM**, Brink-Hull M, Makhahlela BN, Brand MJ, **Cyrus MD**, Bolton JJ. 2022. Impact of *Ulva lacunculata* on the microbiome of abalone-*Ulva* IMTA systems. *Aquaculture Europe 2022*, 27–30 September, Rimini, Italy. (oral presentation)
- Miller T, **van der Lingen C**, Brodeur R, Bertrand A, Espinoza P, Alegre A, Navarro J, Gimenez J, Bode A, Schwamborn R, Gimenez T, Kreiner A, Takasuka A. 2022. A global stable isotope-based comparison of small pelagic fish and other nekton across ecosystems with varying levels of productivity. PICES/ICES/FAO Symposium on Small Pelagic Fish: New Frontiers in Science and Sustainable Management, 7–11 November 2022, Lisbon, Portugal. (oral presentation)
- Mwangudza P, Jones CLW, **Macey BM**. 2022. Assessment of potential biosecurity measures on the inactivation of macroalgae-transmitted abalone pathogens. 14th Conference of the Aquaculture Association of Southern Africa, 11–15 July, Stellenbosch, South Africa. (oral presentation)
- Mwangudza P, Jones CLW, **Macey BM**. 2022. Assessment of potential biosecurity measures on the inactivation of macroalgae-transmitted abalone pathogens. *Aquaculture Europe 2022*, 27–30 September, Rimini, Italy. (oral presentation)

- O'Donohoe P, **Macey B**, Chalde T, Poersch L, Macleod A, Ravagnan E. 2022. Integrated Multi-Trophic Aquaculture All Atlantic Approach – The ASTRAL Project. *The International Institute of Fisheries Economics and Trade Conference, 18–22 July, Galicia, Spain*. (oral presentation)
- Opperman M, **Macey BM**, Henning S, Bolton JJ, Wieringa FT, Berger J, Darias MJ. 2022. Mineral content of marine organisms to develop nutrition-sensitive approaches to marine aquaculture in South Africa. *14th Conference of the Aquaculture Association of Southern Africa, 11–15 July, Stellenbosch, South Africa*. (oral presentation)
- Ouzara T, Le Moan E, Flores J, de Cubber L, Menu C, Groenewald G, Marques GM, **van der Lingen C**, Vagner M, Maury O, Pecquerie L. 2022. Comparing life-history traits of small pelagic fish within the framework of Dynamic Energy Budget (DEB) theory: application on several populations of the *Engraulis* genus. *PICES/ICES/FAO Symposium on Small Pelagic Fish: New Frontiers in Science and Sustainable Management, 7–11 November 2022, Lisbon, Portugal*. (oral presentation)
- Padare G, Cowley P, Murray T, Du Plessis J, **Lamberth SJ**, Vumazonke L. 2022. Movement patterns of spotted grunter in relation to an existing estuarine protected area. *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa*. (oral presentation)
- Peña H, **Shabangu FW**, Mamza K, Sarre A, Ahmed M, Uanivi U, Vaz Vehlo F, Stenevik E. 2022. Investigation of bias in echosounder acoustic surveys using omnidirectional sonar from South to Northwest Africa. *Small Pelagic Fish Symposium: New Frontiers in Science and Sustainable Management, 7–11 November 2022, Lisbon, Portugal*. (oral presentation)
- Purdon J, **Shabangu FW**, Pienaar M, Somers MJ, Findlay KP. 2022. Cetacean species richness in relation to anthropogenic impacts and areas that provide protection in South African Oceans. *24th Biennial Conference on the Biology of Marine Mammals, 1–5 August 2022, Palm Beach, Florida, USA*. (poster presentation)
- Purdon J, Somers M, **Shabangu FW**, Findlay K, Pienaar M. 2022. Cetacean species richness in relation to anthropogenic impacts and areas that provide protection in South African Oceans. *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa*. (oral presentation)
- Raimundo J, **van der Lingen CD**, Bakir A, Garrido S, Lopes C, Caetano M. 2022. Anthropogenic pollutants in small pelagic fishes. *PICES/ICES/FAO Symposium on Small Pelagic Fish: New Frontiers in Science and Sustainable Management, 7–11 November 2022, Lisbon, Portugal*. (oral presentation)
- Reed J, Lombard A, Sink K, **Kerwath S[E]**. 2022. Empirical move-on rules for bycatch avoidance in the South African midwater trawl fishery. *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa*. (oral presentation)
- Reed J, Lombard A, Sink K, **Kerwath S[E]**. 2022. Spatial analyses to assess the effects of new offshore MPAs on a pelagic longline fishery. *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa*. (oral presentation)
- Samaai T, **Yemane D**, Turner T, **Kerwath S[E]**, Kara J, Ngwakum B, Payne R. 2022. There and back again: confirmation of the southern African distribution of the cryptic marine sponge *Hymeniacidon perlevis* (Montagu 1814) in the context of global dispersal. *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa*. (oral presentation)
- Sassman LC, Pitcher GC, Arendse DCZ, Lewis BR, Fortune MN**. 2022. Assessment of biofouling associated with shellfish farming in Saldanha Bay. *14th Conference of the Aquaculture Association of Southern Africa, 11–15 July, Stellenbosch, South Africa*. (poster presentation)
- Shabangu FW**, Caputo M, Lebrato M, Bowles KR, Lillis A. 2022. Heard but not seen: bioacoustics reveals undocumented occurrence of baleen whales in southern Mozambique. *3rd African Bioacoustics Community Conference, 2–7 October 2022, Skukuza, South Africa*. (oral presentation)
- Shabangu FW**, Caputo M, Lebrato M, Bowles KR, Lillis A. 2022. Heard but not seen: Bryde's and sei whale acoustic occurrence in Bazaruto Archipelago, Mozambique. *12th Western Indian Ocean Marine Science Association (WIOMSA) Symposium, 10–15 October 2022, Port Elizabeth, South Africa*. (poster presentation)
- Shabangu FW**, Caputo M, Lebrato M, Bowles KR, Lillis A. 2022. Heard but not seen: Bryde's and sei whale acoustic occurrence in Bazaruto Archipelago, Mozambique. *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa*. (oral presentation)
- Shabangu FW, Yemane D**, Estabrook BJ, Best G. 2022. Spatio-temporal trends and effects of oceanic noise on whale acoustic occurrence off the west coast of South Africa. *International Statistical Ecology Conference, 27 June–1 July 2022, Cape Town, South Africa*. (oral presentation)
- Shabangu FW, Yemane D**, Estabrook BJ, Best G. 2022. Trends and effects of oceanic noise on whale acoustic detection off South Africa's west coast. *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa*. (oral presentation)
- Soares B, Lamont T, **Shabangu FW**. 2022. Seasonal characterization and environmental influence on humpback whale sounds off the west coast of South Africa. *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa*. (oral presentation)
- Sousa-Lima R, Stanley J, Di Iorio D, Havlik MH, Chanda K, Frazao F, Liffers M, van Zeeland L, Thomisch K, **Shabangu FW**, Vela S, Zuffi S, Wall C, Rountree R, Urban E, Sayigh L, Rice A, Radford C, Nedelec S, Looby A, Linke S, Li S, Lammers M, Juanes F, Erbe C, Mooney TA, Lin T-H, Parsons M. 2022. GLUBS – Global Library of Underwater Biological Sounds. *19th Work Meeting of Specialists in Aquatic Mammals of South America, and 13th SOLAMAC Congress (Latin American Society of Specialists in Aquatic Mammals), 10–11 September 2022, Balia, Brazil*. (oral presentation)
- Staby A, Shannon LJ, Sikongo B, Krakstad J-O, **van der Lingen CD**. 2022. Diversity, distribution and role of mesopelagic fishes in the Benguela Current Region. *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa*. (poster presentation)
- van der Lingen CD**. 2022. Just how many sardine stocks are there off South Africa? *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa*. (oral presentation)
- van der Lingen CD**. 2022. Trophodynamic processes and small pelagic fishes. *PICES/ICES/FAO Symposium on Small Pelagic Fish: New Frontiers in Science and Sustainable Management, 7–11 November 2022, Lisbon, Portugal*. (Invited plenary keynote oral presentation)
- van der Lingen CD**, Shongwe T, Reed CC, **Geja Y, Petersen J**, Staby A, Hulley PA. 2022. Indices and effects of infection by the parasitic copepod *Cardiodectes bellotti* on Hector's lanternfish *Lampanyctodes hectoris* in the Southern Benguela. *17th Southern African Marine Science Symposium (SAMSS)*,

- 20–24 June, Durban, South Africa. (poster presentation)
- van Niekerk L, Adams JB, **Lamberth JS**, Lemley DA, *Nhleko J*, Riddin T, Rishworth GM, Taljaard, S, Brown S. 2022. How to kill a lake: first recorded acidification of an estuarine-lake in South Africa. *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa.* (oral presentation)
- van Niekerk L, Taljaard S, Adams JB, **Lamberth SJ**, Lemley D, Weerts S. 2022. Evaluating the vulnerability of estuarine lakes to change: a South African case study. *ECSA 59, 5–9 September, Kursaal, San Sebastian, Spain.* (oral presentation)
- van Niekerk L, Taljaard S, Adams JB, **Lamberth SJ**, Lemley D, Weerts S. 2022. Evaluating the vulnerability of estuarine lakes to change: a South African case study. *WIOMSA 12th Scientific Symposium, 10–15 October 2022, Gqeberha, South Africa.* (oral presentation)
- Vine NG, Maapea AD, **Macey BM**. 2022. The efficacy of various chemicals in the disinfection of dusky kob *Argyrosomus japonicus* eggs and hatchery water. *Aquaculture Europe 2022, 27–30 September, Rimini, Italy.* (oral presentation)
- West W, **Kerwath S[E]**, Attwood C, Roodt-Wilding R. 2022. Swordfish around South Africa: Indian or Atlantic Ocean stock? *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa.* (oral presentation)
- Yemane D**, Kirkman SP, Samaai T. 2022. Ecoregions of the oceans within the EEZ of southern Africa based on openly available biogeochemical data. *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa.* (oral presentation)
- Yemane D**, Kirkman SP, Samaai T. 2022. Use of openly available occurrence data to generate biodiversity maps within the South African EEZ. *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa.* (oral presentation)
- Zacharias L, Gibbons MJ, **van der Lingen CD**. 2022. Comparing the trophic structures of mesopelagic fish communities in coastal and oceanic waters of the south Atlantic using morphometric and stable isotope analyses. *17th Southern African Marine Science Symposium (SAMSS), 20–24 June, Durban, South Africa.* (oral presentation)
- Zones (EEZs) and territorial waters. Unpublished report. *Benguela Current Convention (BCC), July 2022.*
- Coetzee JC**, de Moor CL, **van der Lingen CD**, Butterworth DS. 2022. A summary of the South African sardine (and anchovy) fishery. *International Fisheries Stock Assessment Review Workshop, 28 November–2 December 2022, Cape Town, South Africa. MARAM/IWS/2022/Sardine/BG1.*
- da Silva C**, **Kerwath SE**. 2022. South Africa NPOA Sharks II. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee, 5–9 December 2022, Seychelles. IOTC-2022-WPEB18-10.*
- da Silva C**, **Kerwath SE**, **Meyer MR**, **Parker D**. 2022. Task 2 – size sampling (tunas and sharks). *International Commission for the Conservation of Atlantic Tunas, Meeting of the Standing Committee on Research and Statistics (SCRS), 26–30 September 2022, Hybrid/Madrid (Spain). ST04_ZAF-BET2021-21P-NP_2022.* [Bigeye tuna]
- da Silva C**, **Kerwath SE**, **Meyer MR**, **Parker D**. 2022. Task 2 – size sampling (tunas and sharks). *International Commission for the Conservation of Atlantic Tunas, Meeting of the Standing Committee on Research and Statistics (SCRS), 26–30 September 2022, Hybrid/Madrid (Spain). ST04_ZAF-SBF2021-21P-NP_2022.* [Southern bluefin tuna]
- da Silva C**, **Kerwath SE**, **Meyer MR**, **Parker D**. 2022. Task 2 – size sampling (tunas and sharks). *International Commission for the Conservation of Atlantic Tunas, Meeting of the Standing Committee on Research and Statistics (SCRS), 26–30 September 2022, Hybrid/ Madrid (Spain). ST04_ZAF-BSH2021-21P-NP_2022.* [Blue shark]
- da Silva C**, **Kerwath SE**, **Meyer MR**, **Parker D**. 2022. Task 2 – size sampling (tunas and sharks). *International Commission for the Conservation of Atlantic Tunas, Meeting of the Standing Committee on Research and Statistics (SCRS), 26–30 September 2022, Hybrid/Madrid (Spain). ST04_ZAF-SMA2021-21P-NP_2022.* [Mako shark]
- da Silva C**, **Kerwath SE**, **Meyer MR**, **Parker D**. 2022. Task 2 – size sampling (tunas and sharks). *International Commission for the Conservation of Atlantic Tunas, Meeting of the Standing Committee on Research and Statistics (SCRS), 26–30 September 2022, Hybrid/Madrid (Spain). ST04_ZAF-SWO2021-21P-NP_2022.* [Swordfish]
- da Silva C**, **Kerwath SE**, **Meyer MR**, **Parker D**. 2022. Task 2 – size sampling (tunas and sharks). *International Commission for the Conservation of Atlantic Tunas, Meeting of the Standing Committee on Research and Statistics (SCRS), 26–30 September 2022, Hybrid/Madrid (Spain). ST04_ZAF-YFT2021-21P-NP_2022.* [Yellowfin tuna]
- da Silva C**, **Kerwath SE**, **Meyer MR**, **Parker D**. 2022. Task 3 – domestic observer program data. *International Commission for the Conservation of Atlantic Tunas, Meeting of the Standing Committee on Research and Statistics (SCRS), 26–30 September 2022, Hybrid/ Madrid (Spain). ST09_ZAF2021-21P-NP_2022.*
- da Silva C**, **Kerwath SE**, Samaai T (organisers). 2022. Computer vision in Marine Sciences: where are we at in South Africa? *Workshop held during 17th Southern African Marine Science Symposium, 20–24 June, Durban, South Africa.*
- Githaiga-Mwicigi J**. 2022. An overview of potential threats to the squid resource and fishery. *The Ocean Accounts Framework and Economic Model Development for Small Scale Fisheries, DFFE NOC Workshop, 18 May 2022, Cape Town, South Africa.* The National Oceanography Centre, United Kingdom, and the Department of Forestry, Fisheries and the Environment, Cape Town, South Africa.

- Githaiga-Mwici J.** 2022. Squid acoustic research at DFFE. *The South African Squid Management and Industrial Association (SASMIA) Annual General Meeting (AGM)*, 29 March 2022, Gqeberha, South Africa, online meeting.
- Glazer JP, Durholtz D.** 2022. The South African chokka squid resource *Loligo reynaudii*. Background presentation. *DAFF-MARAM International Stock Assessment Review Workshop*, 28 November–2 December 2022, Cape Town, South Africa.
- Glazer JP, Durholtz D.** 2022. The South African sole resource *Austroglossus pectoralis*. Background presentation. *DAFF-MARAM International Stock Assessment Review Workshop*, 28 November–2 December 2022, Cape Town, South Africa.
- Hampton I, Soule M, **Githaiga-Mwici J.** 2022. The squid acoustic survey. *The South African Squid Management and Industrial Association (SASMIA) Research Committee*, 23 September 2022, Gqeberha, South Africa, online meeting.
- Kerwath SE, Meyer MR, Parker D, da Silva C.** 2022. TASK 1 – nominal catches. *International Commission for the Conservation of Atlantic Tunas, Meeting of the Standing Committee on Research and Statistics (SCRS)*, 26–30 September 2022, Hybrid/ Madrid (Spain). ST02_ZAF2021-21P-NF#E21-07251_2022.
- Kerwath SE, Parker D, Meyer MR, da Silva C, Mketsu Q, Nonkenezza A, Mamaila B.** 2022. Rules of Procedures – Appendix V Compliance Questionnaire for the year 2022 (CoC20). *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee*, 5–9 December 2022, Seychelles. IOTC-2022-CoC20-CQ04[E].
- Lamberth SJ.** 2022. Monitoring and measuring illegal gillnet catch and effort in SA. *FishFORCE (Fisheries Law Enforcement Academy), Law Enforcement by Peace Officers & Law for FCOs (Gill Netting) Workshop*, February 2022, Durban.
- Lamberth SJ.** 2022. Monitoring and measuring illegal gillnet catch and effort in SA. *FishFORCE (Fisheries Law Enforcement Academy), Law Enforcement by Peace Officers & Law for FCOs (Gill Netting) Workshop*, March 2022, Richard's Bay.
- Macey BM.** 2022. IMTA Lab South Africa. *ASTRAL 2nd Annual Meeting*, 26–27 September, Rimini, Italy.
- Macey BM.** 2022. Land-based IMTA systems – ASTRAL IMTA Lab South Africa. *Aquaculture Europe 2022, ASTRAL WP2 Workshop 1: New IMTA Cultivation Opportunities*, 27–30 September, Rimini, Italy.
- Meyer MR, da Silva C, Kerwath SE, Parker D, Mketsu Q, Nonkenezza A, Mamaila B.** 2022. South Africa's annual report to the Compliance Committee. *Commission for the Conservation of Southern Bluefin Tuna (CCSBT), Extended Report of the Seventeenth Meeting of the Compliance Committee*, 4–7 October 2022. CCSBT-CC/2210/SBT Fisheries–South Africa. [Southern bluefin tuna]
- Meyer MR, Kerwath SE, Mketsu Q.** 2022. IOTC record of vessels authorized to operate in the IOTC Area. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting*, 5–9 December 2022, Seychelles. Res_19_04_Record_of_IOTC_AFVs_E.
- Meyer MR, Kerwath SE, Mketsu Q.** 2022. Resolution 21/01 on an interim plan for rebuilding the Indian Ocean yellowfin tuna stock in the IOTC area of competence for 2021. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting*, 5–9 December 2022, Seychelles. Res_21_01_Reporting_template_for_active_vessels_YFT_E_F_ZAF.
- Meyer MR, Kerwath SE, Mketsu Q, Jarvis J.** 2022. Record of active vessels. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting*, 5–9 December 2022, Seychelles. Res_10_08_Reporting_template_for_active_domestic_vessel_E_F.
- Meyer MR, Kerwath SE, Nesamvuni R.** 2022. ICCAT Recommendations 22/12 on the bycatch of sea turtles caught in association with the ICCAT fisheries – implementation into South African large pelagic and tuna pole and line permit conditions for 2023 permit cycle. *International Commission for the Conservation of Atlantic Tunas, Meeting of the Standing Committee on Research and Statistics (SCRS)*, 26–30 September 2022, Hybrid/Madrid (Spain).
- Meyer MR, Kerwath SE, Parker D, da Silva C.** 2022. TASK 1 – fleet characteristics. *International Commission for the Conservation of Atlantic Tunas, Meeting of the Standing Committee on Research and Statistics (SCRS)*, 26–30 September 2022, Hybrid/ Madrid (Spain). ST01_ZAF2021-21F-NF_2022.
- Namba T, Sarralde R, Ichii T, Okuda T, **Somhlaba S, Pompert J.** 2022. Updated analysis of the sea ice concentration in research blocks 4 and 5 of Subarea 48.6 with sea surface temperature and winds. *CCAMLR Working Group meeting on Statistical Assessment and Modelling*, June 2022, online meeting. CCAMLR WG-SAM-22/03.
- Parker D, da Silva C, Mketsu Q, Meyer MR, Kerwath SE.** 2022. South Africa – national report 2022. *Indian Ocean Tuna Commission, 23rd Scientific Committee Meeting*, 6–10 December 2021, online meeting. IOTC–2022-SC26-NR25.
- Parker D, Kerwath S[E].** 2022. Updated stock assessment of blue marlin (*Makira nigricans*) in the Indian Ocean using JABBA. Technical report. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting*, 5–9 December 2022, Seychelles IOTC WPB-2022.
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Catch by species and fishing effort by type of fishery, geographic area and month strata (fleets not providing logbook information). *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting*, 5–9 December 2022, Seychelles. FORM 3: _Form_3AR_rev20_ZAF_2022.
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Catch by species in number (or live weight) and effort in number of hooks set by 1° grid area and month strata (extrapolated to annual catch) (fleets providing logbook information). *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting*, 5–9 December 2022, Seychelles. Form_3CE_rev20_ZAF_2022.
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Estimates of total annual discard levels in live weight (or number) by IOTC area, species and type of fisher. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting*, 5–9 December 2022, Seychelles. FORM 1B: DISCARD_Form_1DI_rev20_ZAF_Cetaceans_2022.
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Estimates of total annual discard levels in live weight (or number) by IOTC area, species and type of fisher. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting*, 5–9 December 2022, Seychelles. FORM 1B: DISCARD_Form_1DI_rev20_ZAF_Mobulids_2022.
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Estimates of total annual discard levels in live weight (or number) by IOTC area, species and type of fisher. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting*, 5–9 December 2022, Seychelles. FORM 1B: DISCARD_Form_1DI_rev20_ZAF_Seabirds_2022.
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Estimates of total annual discard levels in live weight (or number) by IOTC area, species and type of fisher. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting*, 5–9 December 2022, Seychelles. FORM 1B: DISCARD_Form_1DI_rev20_ZAF_Mobulids_2022.

- Meeting, 5–9 December 2022, Seychelles. FORM 1B: DISCARD_Form_1DI_rev20_ZAF_Sharks_2022.
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Estimates of total annual discard levels in live weight (or number) by IOTC area, species and type of fisher. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting, 5–9 December 2022, Seychelles.* FORM 1B: DISCARD_Form_1DI_rev20_ZAF_Thresher Sharks_2022.
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Estimates of total annual discard levels in live weight (or number) by IOTC area, species and type of fisher. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting, 5–9 December 2022, Seychelles.* FORM 1B: DISCARD_Form_1DI_rev20_ZAF_Tuna_2022.
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Estimates of total annual discard levels in live weight (or number) by IOTC area, species and type of fisher. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting, 5–9 December 2022, Seychelles.* FORM 1B: DISCARD_Form_1DI_rev20_ZAF_Turtles_2022.
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Estimates of total annual discard levels in live weight (or number) by IOTC area, species and type of fisher. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting, 5–9 December 2022, Seychelles.* FORM 1B: DISCARD_Form_1DI_rev20_ZAF_Whale Shark_2022.
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Length/weight data by species, type of fishery and 5° grid area and month strata. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting, 5–9 December, Seychelles.* Form_4SF_rev20_ZAF_ALB_2022. [Albacore tuna]
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Length/weight data by species, type of fishery and 5° grid area and month strata. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting, 5–9 December, Seychelles.* Form_4SF_rev20_ZAF_BET_2022. [Bigeye tuna]
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Length/weight data by species, type of fishery and 5° grid area and month strata. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting, 5–9 December, Seychelles.* Form_4SF_rev20_ZAF_BSH_2022. [Blue shark]
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Length/weight data by species, type of fishery and 5° grid area and month strata. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting, 5–9 December, Seychelles.* Form_4SF_rev20_ZAF_SBF_2022. [Southern bluefin tuna]
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Length/weight data by species, type of fishery and 5° grid area and month strata. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting, 5–9 December, Seychelles.* Form_4SF_rev20_ZAF_SMA_2022. [Mako shark]
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Length/weight data by species, type of fishery and 5° grid area and month strata. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting, 5–9 December, Seychelles.* Form_4SF_rev20_ZAF_SWO_2022. [Swordfish]
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Reported catches summary binary matrix of annual records of retained catches or discards by species and fishery group. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting, 5–9 December, Seychelles.* Resolution 18/07_Form1_DR_v1.0_Rev20.
- Parker D, Kerwath SE, Meyer MR, da Silva C.** 2022. Total annual retained catches in live weight by IOTC area, species and type of fishery. *Indian Ocean Tuna Commission, 25th Session of the IOTC Scientific Committee Meeting, 5–9 December, Seychelles.* FORM 1: NOMINAL_CATCH_Form1_RC_rev20_ZAF_2022.
- Shabangu FW,** Branch T, Vermeulen E, Samaran F, Stafford K. 2022. Using bioacoustics to separate historic catches of Antarctic and pygmy blue whales from the former Durban whaling ground, western Indian Ocean. Paper SC/68D/SH/WP03. *International Whaling Commission Virtual Meeting, 25 April–13 May.*
- van der Lingen CD.** 2022. South African marine fisheries and EAF. *TRAFFIC Summer School, 17–19 June, Durban, South Africa.*
- van der Lingen CD.** 2022. Status of South Africa's small pelagic fish resources and fisheries. *Benguela Current Convention Small Pelagic Working Group Meeting, 12–16 December, Johannesburg, South Africa.*
- van der Lingen CD,** Horton M, Sardenne F. 2022. WP1 – observation: South Africa. *OMEGA Days Hybrid Workshop, 14–16 June 2022, Brest, France.*
- Zhu GP, Wei L, Okuda T, Sarralde R, **Somhlaba S.** 2022. Otolith chemistry reflects local stock connectivity of Antarctic toothfish (*Dissostichus mawsoni*) between research blocks in Subarea 48.6: an updated report. *CCAMLR Working Group Meeting on Fish Stock Assessment, October 2022, Hobart, Australia.* CCAMLR WG-FSA-22/36.
- Zhu GP, Wei L, Yang D, Okuda T, Slyphko I, **Somhlaba S,** Parker S. 2022. A comparison of methods used for assessing the ontogenetic variation in otolith shape for *Dissostichus mawsoni*. *CCAMLR Working Group Meeting on Fish Stock Assessment, October 2022, Hobart, Australia.* CCAMLR WG-FSA-22/53.

Unpublished Working Group Documents

- Auerswald L,** Butterworth DS, Johnston SJ, **Glazer JP,** Bergh M, **van Zyl DL,** **Schultz LS.** 2022. Recommendations of the Rock Lobster Scientific Working Group for the sustainable management of the West Coast rock lobster resource for the 2022/2023 season. *FISHERIES/2022/AUG/SWG/WCRL26.* Department of Forestry, Fisheries and the Environment, Cape Town.
- Auerswald L,** Butterworth DS, Johnston SJ, **Glazer JP,** **van den Heever ND.** 2022. Recommendations of the Rock Lobster Scientific Working Group for the sustainable management of the South Coast rock lobster resource for the 2022/23 season. *FISHERIES/2022/AUG/SWG/SCRL/09.* Department of Forestry, Fisheries and the Environment, Cape Town.
- Auerswald L,** **Conrad SM.** 2022. Recommendation of the Small Invertebrates and Seaweeds Scientific Working Group for the sustainable management of white mussels (*Donax serra*) for the 2023 season. *FISHERIES/2022/AUG/SWG/SIS03.* Department of Forestry, Fisheries and the Environment, Cape Town.
- Auerswald L,** **John S.** 2022. Recommendation of the Small Invertebrates and Seaweeds Scientific Working Group for the sustainable management of the oyster fishery for 2023. *FISHERIES/2022/AUG/SWG/SIS02.* Department of Forestry, Fisheries and the Environment, Cape Town.
- Auerswald L,** **Rothman MD.** 2022. Recommendations of the Abalone Scientific Working Group for the sustainable

- management of abalone for the 2022/23 season. *FISHERIES/2022/OCT/SWG/ABA01*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Auerswald L, Rothman MD, Kemp D, Boothroyd C.** 2022. Recommendation of the Small Invertebrates and Seaweeds Scientific Working Group for the sustainable management of seaweed resources for the season March 2023 to February 2024. *FISHERIES/2022/OCT/SWG/SIS01*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Auerswald L, van den Heever ND.** 2022. Recommendations of the Rock Lobster Scientific Working Group for the sustainable management of the KwaZulu-Natal prawn trawl fishery for 2023. *FISHERIES/2022/AUG/SWG/PRN/01*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Butterworth DB, **van Zyl DL.** 2022. On the implications of detection of West Coast rock lobsters in areas outside of those conventional fished in Super-Area 8+. *FISHERIES/2022/JUN/SWG/WCRL03*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Coetzee JC, Shabangu FW, Geja Y, Maliza L, Phillips M, Peterson J, Jarvis G, Jansen M, Williams M, Biyase S, Mahlathi O, Mxunyelwa N, Hendricks A, Adonis V, Merkle D.** 2022. Results of the 2022 pelagic recruit survey. *FISHERIES/2022/AUG/SWG-PEL/25rev*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Coetzee JC, Shabangu FW, Maliza L, Geja Y, Merkle D, Ntiyantiya D, Bali A, Peterson J, Jarvis G, Mxunyelwa N, Adonis V, April W, Johnson M, van Neel M, Louw A, Phillips M, Mahlathi O, Zweni S.** 2022. Results of the 2022 pelagic biomass survey. *FISHERIES/2022/DEC/SWG-PEL/40*. Department of Forestry, Fisheries and the Environment, Cape Town.
- de Moor CL, **van der Lingen CD, Teske PR.** 2022. A new hypothesis for South African sardine stock structure. *FISHERIES/2022/MAY/SWG-PEL/11*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Durholtz D.** 2022. DFFE demersal research 2022. *FISHERIES/2022/APR/SWG-DEM/02*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Durholtz D.** 2022. Squid jig catch and effort update – revised. *FISHERIES/2022/MARCH/SWG-SQ/08*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Durholtz MD.** 2022. Standardized hake CPUE indices and catches for the period 1978–2019. *FISHERIES/2022/OCT/SWG-DEM/23a*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Durholtz D, Louw GG.** 2022: 2021/2022 Squid jig catch and effort update. *FISHERIES/2022/NOV/SWG-SQ/24*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Fairweather TP.** 2022. Agulhas sole: abundance estimates within the sole grounds, survey length frequency by strata, commercial CPUE and CAL, and updated graph for model fit. *MARAM/IWS/2022/Sole/WP2*. University of Cape Town, Cape Town.
- Fairweather TP.** 2022. Horse mackerel data file. *FISHERIES/2022/OCT/SWG-DEM/23*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Fairweather TP.** 2022. Standardised abundance estimates for key commercial species 2016–2022. *FISHERIES/2022/OCT/SWG-DEM/19*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Fairweather TP, Glazer TP, Durholtz MD.** 2022. Update of annual commercial catch data for hake, Agulhas sole, monkfish and kingklip – October 2022. *FISHERIES/2022/OCT/SWG-DEM/37*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Githaiga-Mwicigi J.** 2022. Progress report on the Squid Paralarvae Project. September 2022. *FISHERIES/2022/SEPTEMBER/SWG-SQ/18*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Githaiga-Mwicigi J.** 2022. Research plan for the squid resource. *FISHERIES/2022/MARCH/SWG-SQ/01*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Githaiga-Mwicigi J.** 2022. SA squid monthly catches 2007–2021. *FISHERIES/2021/MARCH/SWG-SQ/02*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Githaiga-Mwicigi J.** 2022. Seismic surveys and squid fishery in Algoa Bay and Gamtoos Basin: project proposal and progress. *FISHERIES/2022/SEPTEMBER/SWG-SQ/20*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Githaiga-Mwicigi J.** 2022. Squid acoustic survey-cruise report. RV *Ellen Khuzwayo* November Survey. *FISHERIES/2022/SEPTEMBER/SWG-SQ/13*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Githaiga-Mwicigi J.** 2022. Squid closed season research 2022. *FISHERIES/2022/SEPTEMBER/SWG-SQ/17*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Githaiga-Mwicigi J.** 2022. Status of squid jig catch data. *FISHERIES/2022/SEPTEMBER/SWG-SQ/11*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Githaiga-Mwicigi J.** 2022. Towards setting the 2022–2023 scientific recommendation for the squid resource. *FISHERIES/2021/MARCH/SWG-SQ/06a*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Githaiga-Mwicigi J.** (with the Squid SWG members). 2022. Squid 2022–2023 TAE scientific recommendation, 24 March 2022. *FISHERIES/2021/MARCH/SWG-SQ/06b*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Githaiga-Mwicigi J.** 2022. Updated SA squid monthly catches 2007–2021. *FISHERIES/2021/MARCH/SWG-SQ/07*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Glazer JP.** 2022. An index of abundance for Zone A West Coast rock lobster. *FISHERIES/2022/JUL/SWG/WCRL21*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Glazer JP.** 2022. An updated analysis of the South Coast rock lobster size distributions per season, quarter and area utilizing both observer and industry collected size information over the period 1995–2019. *FISHERIES/2022/JUN/SWG-SCRL/03*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Glazer JP.** 2020. Sole TAC and TAE recommendations for 2021. *FISHERIES/2020/OCT/SWG-DEM/31*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Glazer JP.** 2022. South Coast rock lobster standardized CPUE indices per area. *FISHERIES/2022/JUL/SWG-SCRL/04rev*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Glazer JP.** 2022. Standardized CPUE indices per super-area in the West Coast rock lobster hoopnet fishery. *FISHERIES/2022/JUL/SWG/WCRL19*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Glazer JP.** 2022. Standardized CPUE indices in the West Coast rock lobster trapboat fishery. *FISHERIES/2022/JUL/SWG/WCRL20*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Glazer JP, Butterworth DS, Fairweather TP.** 2022. 2022 sole dynamic Schaefer production model results. *FISHERIES/2022/NOV/SWG-DEM/40*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Glazer JP, Fairweather TP.** 2022. The 2022 assessment of the South African monkfish resource. *FISHERIES/2022/NOV/*

- SWG-DEM/41. Department of Forestry, Fisheries and the Environment, Cape Town.
- Glazer JP.** 2022. The separation of catch by area in the South Coast rock lobster fishery. *FISHERIES/2022/JUN/SWG-SCRL/02*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Johnston S, **van Zyl DL, Schultz L.** 2022. New catch-at-length data obtained since 2018 from trap samples *FISHERIES/2022/JUN/SWG/WCRL05*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Kerwath SE, Parker D, Meyer MR, da Silva C.** 2022. Recommendations of the Large Pelagics and Sharks Scientific Working Group for the sustainable management of tuna and swordfish resources. *FISHERIES/2022/LPSSWG/01*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Lamberth SJ, da Silva C, Kerwath SE, Parker D.** 2022. Recommendations of the Linefish Scientific Working Group for management of sustainable beach-seine and gillnet (smallnet/driftnet) fisheries for the period 2022–2023. *FISHERIES/2022/LSWG-LF/3*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Parker D, de la Cruz Y, da Silva C, Kerwath SE.** 2022. Recommendations of the Linefish Scientific Working Group for the sustainable management of linefish resources. *FISHERIES/2022/LSWG/01*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Parker D, Meyer MR, de la Cruz Y, da Silva C, Kerwath SE.** 2022. Recommendations of the Linefish Scientific Working Group for the sustainable management of demersal shark longline resources. *FISHERIES/2022/LSWG/02*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Ross-Gillespie A, Butterworth DS, **Glazer JP, Fairweather TP.** 2022. The 2022 operational management procedure for the South African *Merluccius paradoxus* and *M. capensis* resources. *FISHERIES/2022/OCT/SWG-DEM/34rev*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Shabangu FW.** 2022. *Ad hoc* recommendation of the Small Pelagic Scientific Working Group to increase the round herring precautionary upper catch limit for the 2022 fishing season. *FISHERIES/2022/APR/SWG-PEL/10*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Shabangu FW.** 2022. Interim recommendation of the Small Pelagic Scientific Working Group to increase the round herring precautionary upper catch limit for the 2022 fishing season. *FISHERIES/2022/AUG/SWG-PEL/26*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Shabangu FW.** 2022. Outstanding and completed tasks from previous SWG-PEL meetings. *FISHERIES/2022/AUG/SWG-PEL/30*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Shabangu FW.** 2022. Recommendation of the Small Pelagic Scientific Working Group for the final anchovy and sardine total allowable catch for the 2022 fishing season. *FISHERIES/2022/AUG/SWG-PEL/27*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Shabangu FW.** 2022. Recommendation of the Small Pelagic Scientific Working Group for the initial anchovy total allowable catch and sardine total allowable by-catches for the 2022 fishing season. *FISHERIES/2022/JAN/SWG-PEL/02*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Shabangu FW.** Recommendation of the Small Pelagic Scientific Working Group to increase the sardine total allowable catch for the 2022 fishing season. *FISHERIES/2022/FEB/SWG-PEL/07*. Department of Forestry, Fisheries and the Environment, Cape Town.
- Shabangu FW.** 2022. Revised recommendation of the Small Pelagic Scientific Working Group for the interim sardine total allowable catch for the 2022 fishing season. *FISHERIES/2022/FEB/SWG-PEL/06*. Department of Forestry, Fisheries and the Environment, Cape Town.
- van der Lingen CD.** 2022. A synthesis of studies of South African sardine population structure. *FISHERIES/2022/JUN/SWG-PEL/16*. Department of Forestry, Fisheries and the Environment, Cape Town.
- van der Lingen CD.** 2022. The South African sardine boom in the early-2000s coincided with anomalously warm SSTs off the west coast. *MARAM/IWS/2022/Sardine/WP1*. University of Cape Town, Cape Town.
- van der Lingen CD, Lamont T.** 2022. Can the relative distribution of small pelagic fishes be related to SST anomalies off the South African West Coast? *FISHERIES/2022/MAY/SWG-PEL/13*. Department of Forestry, Fisheries and the Environment, Cape Town.
- van der Lingen CD, Merkle D.** 2022. Spatial patterns of directed sardine catches off the South Coast from January to July 2022. *FISHERIES/2022/AUG/SWG-PEL/24*. Department of Forestry, Fisheries and the Environment, Cape Town.
- van der Lingen CD, Coetzee JC, Merkle D.** 2022. Is there evidence to suggest multiple stocks of West Coast round herring (*Etrumeus whiteheadi*) off South Africa? *FISHERIES/2022/SEP/SWG-PEL/36*. Department of Forestry, Fisheries and the Environment, Cape Town.
- van Zyl DL.** 2022. Current separation of the inshore and offshore sectors. *FISHERIES/2022/APR/SWG/WCRL02*. Department of Forestry, Fisheries and the Environment, Cape Town.
- van Zyl DL.** 2022. Data and data updates available for West Coast rock lobster assessment for the 2022/2023 season. *FISHERIES/2022/JUN/SWG/WCRL04*. Department of Forestry, Fisheries and the Environment, Cape Town.
- van Zyl DL.** 2022. TAC split per sector per area and catches. *FISHERIES/2022/JUN/SWG/WCRL06*. Department of Forestry, Fisheries and the Environment, Cape Town.
- van Zyl DL.** 2022. West Coast rock lobster annual TAC, catch, effort and CPUE per area. *FISHERIES/2022/JUN/SWG/WCRL07*. Department of Forestry, Fisheries and the Environment, Cape Town.
- van Zyl DL, Savel F.** 2022. Updated poaching data available for West Coast rock lobster assessment for the 2022/2023 season *FISHERIES/2022/JUN/SWG/WCRL11*. Department of Forestry, Fisheries and the Environment, Cape Town.
- van Zyl DL, Schultz L.** 2022. Tagging data to be used for the 2022 assessment *FISHERIES/2022/JUL/SWG/WCRL14*. Department of Forestry, Fisheries and the Environment, Cape Town.
- van Zyl DL, Schultz L.** 2022. CPUE data to be used for the 2022 assessment *FISHERIES/2022/JUL/SWG/WCRL15*. Department of Forestry, Fisheries and the Environment, Cape Town.
- van Zyl DL, Williamson R, Sosibo L.** 2022. FIMS data to be used for the 2022 assessment. *FISHERIES/2022/JUN/SWG/WCRL08*. Department of Forestry, Fisheries and the Environment, Cape Town.