This document lists the scientific output of the Fisheries Management Branch for 2015, arranged by output category. In the category ‘peer-reviewed publications’ there were 39 papers, as well as one editorial contribution to a special issue of the African Journal of Marine Science. This represents a 77% increase in the output of published papers compared with the previous year. There were six documents in the category ‘theses/dissertations/tertiary projects’, including two PhD theses, and five documents in the category ‘book chapters, published reports and popular articles’. There were 50 ‘contributions to symposia and conferences, and public presentations’, and 26 ‘contributions to workshops and management and scientific bodies, and unpublished technical reports’. Collectively, the largest number of symposium contributions were made at the 12th Conference of the Aquaculture Association of Southern Africa held in Polokwane in September and the 29th Congress of the Phycological Society of Southern Africa held at St Lucia in June. Finally, there were 66 unpublished working group documents.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)


areas. Marine Ecology Progress Series 537: 277–288.
Mhlongo N, Yemane D, Hendricks M, van der Lingen CD. 2015. Have the spawning habitat preferences of anchovy (Engraulis encrasicolus) and sardine (Sardinops sagax) in the southern Benguela changed in recent years? Fisheries Oceanography 24: 1–14.
Yemane D, Mafwila SK, Kathena J, Nsiangango SE, Kirkman SP.

**Theses/Dissertations/Tertiary Projects**


**Lewis BR. Arendse DCZ.** Sparks C. 2015. Spawning induction and the influence of stocking density on larval growth and survival of the scallop *Pecten sulcicostatus*. BTech, Cape University of Technology, Cape Town, South Africa.

**Mohale JM, Somhlaba S, Geja Y, Mushanganyisi K.** 2015. Review of data collection strategies at the port site for hake longline fishery and the implications for the quantification of tonnages and levies that are collected. Cape University of Technology (CPUT) diploma, Cape Town, South Africa.


**Rothman, M.** 2015. *The importance of* *Ulva as a feed supplement for the cultured abalone* *Haliotis midae*. 12th Conference of the Aquaculture Association of Southern Africa, 27–30 September 2015, Polokwane, South Africa. (oral presentation)

**Brand MD.** 2015. The importance of *Ulva as a feed supplement for the cultured abalone* *Haliotis midae*. 29th Congress of the Phycological Society of Southern Africa, 22–26 June 2015, St Lucia, South Africa. (poster presentation)

**Book Chapters, Published Reports and Popular Articles**


**Contributions to Symposia and Conferences, and Public Presentations**

**Anderson RJ.** Bolton JJ, De Clerck O, Francis CM, Siyanga-Tembo F. 2015. Two newly discovered *Grateloupia* (Rhodophyta) species on aquaculture reefs on the west coast of South Africa, including the widely introduced G. turuturu. 29th Congress of the Phycological Society of Southern Africa, 22–26 June 2015, St Lucia, South Africa. (oral presentation)

**Arendse DCZ, Pitcher GC.** 2015. An overview of scallop research in South Africa. 20th International Pectinid Workshop, 22–28 April 2015, Galway, Ireland. (oral presentation)


**Boothroyd CJT, Kemp AF, Rothman MD, Anderson RJ.** 2015. *Gelidiun pristoides* along the South African coast: biomass, accessibility and commercial viability. 29th Congress of the Phycological Society of Southern Africa, 22–26 June 2015, St Lucia, South Africa. (poster presentation)


**Coetsee J, Merkle D, Rademan J.** 2015. “Seas of plenty”, a conundrum of sorts for African Penguins. 2nd World Seabird Conference, 26–30 October 2015, Cape Town, South Africa. (oral presentation)

**Cyrus MD.** Bolton JJ, Macey BM. 2015. Echinoculture – a new and exciting chapter for South African aquaculture. 29th Congress of the Phycological Society of Southern Africa, 22–26 June 2015, St Lucia, South Africa. (oral presentation)

**Cyrus MD.** Bolton JJ, Macey BM. 2015. The uses of stable isotope analysis to track the proportional incorporation of dietary ingredients from aquaculture feeds. 12th Conference of the Aquaculture Association of Southern Africa, 27–30 September 2015, Polokwane, South Africa. (oral presentation)

**Davids A, Leslie R, Gibbons M.** 2015. Geographic and bathymetric overlap between the two common Squaloid sharks, *Squalus acutipinnis* and *Squalus mitsukurii*, caught by-catch off the coast of South Africa. 3rd Southern African Shark and Ray Symposium, 7–8 September 2015, Cape Town, South Africa. (oral presentation)


**Dziergwa J, Singh S, Enax J, Bridges C, Kerwath S, Auerswald L.** 2015. Dentine corrosion and other impacts of hypercapnia on a South African shark species. 3rd Southern African Shark and Ray Symposium, 7–8 September 2015,
Cape Town, South Africa. (oral presentation)


Henning SS-T, Manley M, van der Lingen C[D]. 2015. The presence of *Kudoa paniformis* and K. thrysites, responsible for myoliquification, in Cape snoek (*Thrysites atun*) and South African sardine (*Sardinops sagax*): a pilot study. 21st South African Association for Food Science and Technology (SAAFoST) Biennial International Congress and Exhibition, 6–9 September 2015, Durban, South Africa. (poster presentation)


Lombard AT, Sink K, van der Lingen CD. 2015. Incorporating pelagic ecosystem services into marine spatial planning. 8th Conference of the Ecosystem Services Partnership, 9–13 November 2015, Stellenbosch, South Africa. (oral presentation)


Madibana JM, Fouche CH. 2015. The combined effect of formulated trout food, fishmeal and inactivated yeast, compared to selectively added probiotics or herbal stimulants on the growth performance of South African juvenile dusky kob (*Argyrosomus japonicus*). 12th Conference of the Aquaculture Association of Southern Africa, 27–30 September 2015, Polokwane, South Africa. (oral presentation)


Pitcer GC, Probyn TA. 2015. Fluctuations in oxygen-depleted bottom waters, including episodic events of anoxia, in St Helena Bay in the southern Benguela upwelling system. 29th Congress of the Phycological Society of Southern Africa, 22–26 June 2015, St Lucia, South Africa. (oral presentation)


Rothman MD, Mattio L, Anderson RJ, Bolton JJ. 2015. A molecular investigation of Laminaria (Laminariales, Phaeop-
hyceae), focusing on Southern Africa. 29th Congress of the Phycological Society of Southern Africa, 22–26 June 2015, St Lucia, South Africa. (oral presentation)


Singh L, Reed CC, van der Lingen CD. Mackenzie K. 2015. Using parasite biotags to elucidate population structure of two Merluccius species off South Africa. 9th International Symposium on Fish Parasites, 31 August–4 September 2015, Valencia, Spain. (oral presentation)


van der Lingen CD, Coetzee JC. 2015. Changes in the abundance and distribution of small pelagic fish in the southern Benguela. 2nd World Seabird Conference, 26–30 October 2015, Cape Town, South Africa. (oral presentation)


Contributions to Workshops and Management and Scientific Bodies; Unpublished Technical Reports


Leslie RW, Taki K, Ichii T, Somhlaba S. 2015. Progress report for the third year of the research fishery for Dissostichus spp. in Subarea 48.6 being jointly undertaken by Japan


van der Lingen CD. 2015. Changes in the abundance and distribution of small pelagic fishes in the Benguela upwelling ecosystem. Farallon Institute Workshop on Climate Change in the California and Benguela Ecosystems, 9–13 March 2015, Lambert's Bay, South Africa.

van der Lingen CD. 2015. Climate change and small pelagic fish in EBUS. CLIVAR Upwelling Research Focus Planning Workshop, 2–3 October 2015, Ankara, Turkey.


van der Lingen CD. 2015. Using a parasite bio-tag to examine population structure of SA sardine. MARAM International Stock Assessment Workshop, 30 November–4 December 2015, Cape Town, South Africa.


Unpublished Working Group Documents


Coetzee JC and members. 2015. Collated comments from members of the SWG-PEL on the final report: The economic impact of penguin island closures on the pelagic fishing industry produced by OLRAC SPS. Fisheries/2015/N0V/PEL/43. Department of Agriculture, Forestry and Fisheries, Cape Town.


de Moor CL, Coetzee JC, Merkle D, van der Westhuizen JJ, van der Lingen CD. 2015. A record of the generation of data used in the 2015 sardine and anchovy assessments. Fisheries/2015/N0V/PEL/42. Department of Agriculture, Forestry and Fisheries, Cape Town.

de Moor CL, van der Lingen CD, Butterworth DS. 2015. Overview of sardine documents. MARAM/IFS/DEC15/
Sardine/BG1. University of Cape Town, Cape Town.


Glaizer JP. 2015. South Coast rock lobster standardized CPUE indices per area. Fisheries/2015/JUN/SWG-SCRL/03. Department of Agriculture, Forestry and Fisheries, Cape Town.


Glaizer JP. 2015. The separation of catch by area in the South Coast rock lobster fishery. Fisheries/2015/JUN/SWG-SCRL/01. Department of Agriculture, Forestry and Fisheries,


Ross-Gillespie A, Butterworth DS, Fairweather TP, Rademeyer RA. 2015. Investigating different methods for obtaining hake survey probability distributions for length, and an inspection of the sub-sample for which biologicals were measured. Fisheries/2015/AUG/SWG-DEM/STT/02. Department of Agriculture, Forestry and Fisheries, Cape Town.


