**Documents for MARAM/DAFF International Fisheries Stock Assessment Review Workshop, 2010:**

**West Coast rock lobster:**

**Primary documents – Session A:**

1. MARAM IWS/DEC10/WCRLA/P1: S.J. Johnston. 2007 International Stock Assessment Workshop recommendations relating to west coast rock lobster data and operating models.
2. MARAM IWS/DEC10/WCRLA/P2: S.J. Johnston and D.S. Butterworth. The size-structured (length-based) stock assessment methodology applied to west coast rock lobster.
3. MARAM IWS/DEC10/WCRLA/P3: S.J. Johnston and D.S. Butterworth. West Coast Rock Lobster 2010 updated assessments.
4. MARAM IWS/DEC10/WCRLA/P4 (revised): S.J. Johnston and D.S Butterworth. Retrospective analyses.
5. MARAM IWS/DEC10/WCRLA/P5: S.J. Johnston and D.S. Butterworth. West Coast rock lobster Reference Set and Initial set of Robustness Tests.
6. MARAM IWS/DEC10/WCRLA/P6 (revised): S.J. Johnston and D.S. Butterworth. Key Issues for West Coast rock lobster to be discussed at International Workshop

**Primary documents – Session B:**

1. MARAM IWS/DEC10/WCRLB/P1: S.J. Johnston, D.S. Butterworth and J.P. Glazer. OMP 2007 re-cast to be used for setting TACs for the West Coast rock lobster fishery for the 2008+ seasons.
2. MARAM IWS/DEC10/WCRLB/P2: D.S. Butterworth. Possible Approaches for incorporating Flexibility in OMP Outputs with Comments on Possible Application to West Coast Rock Lobster
3. MARAM IWS/DEC10/WCRLB/P3: S.J. Johnston and D.S. Butterworth. Current and past OMPs for West Coast Rock Lobster - what are appropriate management targets?
4. MARAM IWS/DEC10/WCRLB/P4: S.J. Johnston and D.S. Butterworth. Key Issues for West Coast rock lobster to be discussed at International Workshop

**Background documents:**

1. MARAM IWS/DEC10/WCRLB/BG1: S.J. Johnston and D.S. Butterworth. Evolution of operational management procedures for the South African West Coast rock lobster (*Jasus lalandii*) fishery. *NZ Journal of Marine and Freshwater Research, 2005, Vol. 39: 687-702*.\*

**Working Papers**

* + - 1. MARAM IWS/DEC10/WCRL/WP1: J. Gaylard.Plots of somatic growth rate estimates +/- 2 standard errors (hessian-based estimates) for 70 mm male West Coast rock lobsters in each of the 5 super- areas. By OLRAC. November 2010.
      2. MARAM IWS/DEC10/WCRL/WP2: J. Glazer. West Coast rock lobster: catches and CPUE pertinent to East of Hangklip (Areas 12-14)
      3. MARAM IWS/DEC10/WCRL/WP3: S.J. Johnston. Further West Coast rock lobster assessment output plots.
      4. MARAM IWS/DEC10/WCRL/WP4: S.J. Johnston. Further outputs for a re-look at the original model fits for Area 5+6 and some further plots of combined resource estimates.

**Penguin:**

**Primary documents – Session A:**

1. MARAM IWS/DEC10/PA/P1: W. Robinson, É. Plagányi, D.S. Butterworth and C.L. de Moor. Summary of penguin–pelagic fish interaction modelling during 2008. *(MCM/2010/SWG/PEL/35)*
2. MARAM IWS/DEC10/PA/P2: D.S. Butterworth, W. Robinson, É. Plagányi, and C.L. de Moor. Response to MCM/2010/PEL/48: Suggestions for improving the penguin modelling framework developed by William Robinson. *(MCM/2010/SWG-PEL/50)*
3. MARAM IWS/DEC10/PA/P3: W. Robinson and D.S. Butterworth. Penguin survival estimates from tag data using a multinomial likelihood. *(MCM/2010/SWG-PEL/53)*
4. MARAM IWS/DEC10/PA/P4: W. Robinson and D.S. Butterworth. Data inputs for the African penguin population model. *(MCM/2010/SWG-PEL/54)*
5. MARAM IWS/DEC10/PA/P5: R.J.M. Crawford. Some likely bounds for demographic parameters of African Penguins.
6. MARAM IWS/DEC10/PA/P6: W. Robinson and D.S Butterworth. Penguin population models for Robben Island.
7. MARAM IWS/DEC10/PA/P7: W. Robinson and D.S Butterworth. Checking the penguin population model estimator for bias.
8. MARAM IWS/DEC10/PA/P8: R. Altwegg and R.J.M. Crawford. Response to MCM/2010/SWG-PEL/50: Suggestions for improving the penguin model.
9. MARAM IWS/DEC10/PA/P9: Key issues for Penguin A to be discussed at International Workshop.
10. MARAM IWS/DEC10/PA/P10: D.S. Butterworth and W. Robinson. Some Comments on: “Response to MCM/2010/SWG-PEL/50: Suggestions for improving the penguin model” (Altwegg and Crawford: MARAM IWS/DEC10/PA/P8)
11. MARAM IWS/DEC10/PA/P11: W. Robinson and D.S. Butterworth. Robustness of the penguin population model estimator.

**Primary documents – Session B:**

1. MARAM IWS/DEC10/PB/P1: D.S. Butterworth. On whether to alternate between pairs of islands in the penguin feasibility study.
2. MARAM IWS/DEC10/PB/P2: A. Brandão and D.S. Butterworth. An initial analysis of the power of monitoring certain indices to determine the effect of fishing on penguin reproductive success from an experiment whether pelagic fishing is prohibited in the neighbourhood of Robben Island, but continues around Dassen Island. *(EAFWG/OCT2007/STG/04)*
3. MARAM IWS/DEC10/PB/P3: W. Robinson and D.S. Butterworth. GLMs relating penguin demographics to pelagic catches close to islands and to pelagic abundance. (*MCM/2010/SWG-PEL/Island Closure Task Team/19)*
4. MARAM IWS/DEC10/PB/P4: D.S. Butterworth. A Note on the Penguin Feasibility Study.
5. MARAM IWS/DEC10/PB/P5: R.J.M Crawford. Feasibility study regarding closed areas around African penguin colonies.
6. MARAM IWS/DEC10/PB/P6: Key issues for Penguin B to be discussed at International Workshop.

**Background documents:**

1. MARAM IWS/DEC10/P/BG1: W. Robinson and D.S. Butterworth. A proposed new method for obtaining penguin moult counts estimates.
2. MARAM IWS/DEC10/P/BG2: M.O. Bergh and J.D. Gaylard. Suggestions, comments and questions on penguin-pelagic fish interaction modelling work.
3. MARAM IWS/DEC10/P/BG3: D.S. Butterworth and C.L. de Moor. An extension to the simple implementation of the “River Model” to estimate the impact of fishing on the amount of anchovy available to West Coast penguin colonies which takes account of within season variability in recruitment.
4. MARAM IWS/DEC10/P/BG4: D.S. Butterworth and W. Robinson. Some comments on “Suggestions, comments and questions on penguin-pelagic fish interaction modelling work” (Bergh and Gaylard: MARAM IWS/DEC10/P/BG2)
5. MARAM IWS/DEC10/P/BG5: L.G. Underhill *et al.* Regionally coherent trends in colonies of African penguins *Spheniscus demersus* in the Western Cape, South Africa, 1987–2005.\*
6. MARAM IWS/DEC10/P/BG6: J.Barham *et al*. The efficacy of hand-rearing penguin chicks: evidence from African Penguins (Spheniscus demersus) orphaned in the Treasure oil spill in 2000\*.
7. MARAM IWS/DEC10/P/BG7: R. Altwegg. Survival of African Penguins on Robben and Dassen islands from 2002 to 2006. (*MCM/2009/SWG-PEL*/16: 11–17)

**Working Papers**

* + - 1. MARAM IWS/DEC10/P/WP1: W. Robinson. Penguin nest counts.
      2. MARAM IWS/DEC10/P/WP2: R. Altwegg and R.J.M Crawford. Estimates of survival of African penguins at Dassen and Robben islands, 1993−2007.
      3. MARAM IWS/DEC10/P/WP3: A. Brandão. Confidence interval estimates for the estimates of additional variants in MARAM IWS/DEC10/PB/P2.

**Data-poor**

**Primary documents – Session A:**

1. MARAM IWS/DEC10/DPA/P1: D.S. Butterworth and H.F. Geromont. Generic MPs for data-poor fisheries: Southern Hemisphere collaboration.
2. MARAM IWS/DEC10/DPA/P2: H.F. Geromont and D.S. Butterworth. Initial investigation of generic management procedures for data-poor fisheries.
3. MARAM IWS/DEC10/DPA/P3: L. Little et al. Development and evaluation of a CPUE-based Harvest Control Rule for the Southern and Eastern Scalefish and Shark Fishery of Australia
4. MARAM IWS/DEC10/DPA/P4: N. Bentley. Developing effective management of low and medium information stocks.
5. MARAM IWS/DEC10/DPA/P5: Key Issues for Data-Poor Fisheries Generic Management Procedures A to be discussed at International Workshop
6. MARAM IWS/DEC10/DPA/P6: G. Fay, A.E. Punt and A.D.M. Smith. Impacts of spatial uncertainty on performance of age structure based harvest strategies
7. MARAM IWS/DEC10/DPA/P7: S.E. Wayte and N.L. Klaer. An effective harvest strategy using improved catch-curves. \*
8. MARAM IWS/DEC10/DPA/P8: C. Wetzel. Model performance for the determination of appropriate harvest levels in the case of data-poor stocks. \*

**Primary documents – Session B:**

1. MARAM IWS/DEC10/DPB/P1: Key Issues for Data-Poor Fisheries Generic Management Procedures B to be discussed at International Workshop

**Sardine**

**Primary documents**

1. MARAM IWS/DEC10/S/P1: C.L. de Moor and D.S. Butterworth. Items to be considered in the development of an updated management procedure for the South African pelagic fishery (OMP-12)
2. MARAM IWS/DEC10/S/P2: Key Issues for Sardine-anchovy OMP revisionto be discussed at International Workshop

**Hake**

**Primary documents:**

1. MARAM IWS/DEC10/H/P1: R.A. Rademeyer and D.S. Butterworth: Conditioning of the full set of robustness tests for the South African hake resource to be used in OMP-2010 testing and constant catch projections. (*MCM/2010/JUNE/SWG-DEM/31*)
2. MARAM IWS/DEC10/H/P2: R.A. Rademeyer, T. Fairweather, J.P. Glazer, R.L. Leslie and D.S. Butterworth: The 2010 Operational Management Procedure for the South African *Merluccius paradoxus* and *M. capensis* Resources. (*MCM/2010/JUNE/SWG-DEM/59*)
3. MARAM IWS/DEC10/H/P3: R.A. Rademeyer and D.S. Butterworth: Implications of the Impacts on CPUE as a Result of the Introduction of MPAs on Hake OMP Performance.
4. MARAM IWS/DEC10/H/P4: Key issues for Hake OMP to be discussed at International Workshop.

**Miscellaneous**

**Primary documents:**

1. MARAM IWS/DEC10/MISC/P1: A. Müller and D.S. Butterworth. Prior incoherence within a Bayesian assessment of the Southern Hemisphere humpback whale breeding stock B population.
2. MARAM IWS/DEC10/MISC/P2: L.B. Furman and D.S. Butterworth. Testing time-varying selectivity models of the South Coast rock lobster with data generated by a model with spatial structure. (Revised)
3. MARAM IWS/DEC10/MISC/P3: Key Issues for the miscellaneous sessionto be discussed at International Workshop.