

**CURRICULUM VITAE**Dr Olaf L.F. Weyl

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**Professional experience**

**May 2012 - current      Principal Scientist**  
**South African Institute for Aquatic Biodiversity, Grahamstown 6139, South Africa**

My primary research focus is on fish conservation and alien fish invasions. The research is multidisciplinary and focuses not only on describing natural systems and processes but also incorporates research on understanding how humans alter and benefit from aquatic systems. My research includes assessments of the distribution and impacts of alien fishes in aquatic ecosystems ranging from headwater streams in the Eastern Cape to estuarine Lakes in the Wilderness National Park; biological investigations on fishes in both invaded and natural environments; assessments of fisheries based on indigenous and alien fishes and, more recently the role that alien fishes play in subsistence and recreational fisheries in South Africa.

My research relies on strong inter-disciplinary collaborations. Major ongoing collaborations include: (1) a SAIAB/Wageningen University/Rhodes University/University of Johannesburg research project on: assessing impacts and benefits from alien fish introductions in the Amatola region of the Eastern cape which includes social, economic, livelihoods, parasite/fish health and ecological components; (2) SAIAB/University of Namibia in assessing the dynamics of the re-colonisation of the 300km<sup>2</sup> Lake Liambezi by Zambezi fishes after 20 year dry period; (3) University of Karlsruhe, Germany on parasitic diseases, particularly those resulting from alien invasive parasites in South African Anguillid eels; (4) SAN-Parks on assessing the impact of alien fish invasions in the Wilderness Lakes system and developing management strategies for indigenous fishes in the Addo Elephant National Park; African Parks, Zambia regarding fisheries management recommendations for the Bangweulu wetlands.

**June 2009 – April 2012      Senior Scientist (Conservation Biology and Ecology Group Leader).**  
**South African Institute for Aquatic Biodiversity, Grahamstown 6139, South Africa**

**May 2004 – May 2009      Senior Lecturer**  
**Department of Ichthyology and Fisheries Science, Rhodes University, South Africa**

**Jan 2003 – Mar 2004      Post-Doctoral Research fellow,**  
**Department of Ichthyology and Fisheries Science, Rhodes University, South Africa**

**Jan 1999 – Dec 2002      Fisheries Research and Management Advisor**  
**Gesellschaft für Technische Zusammenarbeit (GTZ)/Government of Malawi -National Aquatic Resource Management Programme (NARMAP), Monkey Bay, Malawi.**

**Research Rating**

C2 National Research Foundation (NRF) rating (re-evaluation 2016)

**Editorial Board membership**

- African Zoology - Associate Editor
- African Journal of Aquatic Science - Associate Editor
- Journal of Fish Biology - Assistant Editor

**Professional Activities**

- Endangered Wildlife Trust: Source to Sea Programme (Healthy Rivers): panel of Experts members
- Chair of the Animal Ethics Committee of the South African Institute for Aquatic Biodiversity (2009-2011).
- External examiner for the University of Namibia, Department of Natural Resources (2008-2011).
- Member of the South African Society of Aquatic Scientists (SASAqS), the Zoological Society of Southern Africa (ZSSA); the Fisheries Society of the British Isles (FSBI) & Aquatic Ecosystem Health and Management Society (AEHMS)
- Peer-reviewed manuscripts for the journals: *Environmental Biology of Fishes*; *Ecological Modelling*; *Journal of Great lakes Research*; *Journal of Rural Development*; *African Journal of Marine Science*, *African Zoology*, *African Journal*

of Aquatic Sciences, Journal of East African Natural History, Hydrobiologia, Journal of Fish Biology, Fisheries Research, the Belgian Journal of Zoology, PLoS One

- Refereed MSc theses for Rhodes University, University of Johannesburg, University of Cape Town and Chancellor College, Malawi. Refereed PhD theses for University of Pretoria.
- Refereed scientific project proposals for the Nuffield Foundation – Nuffield Commonwealth Programme, SANPAD, Water Research Commission and the National Research Foundation of South Africa.
- Contributed to the formulation of fisheries policy in Malawi and have been used as a resource person for national and international fisheries policy formulation by the Food and Agriculture Organisation of the United Nations (FAO), the World Wildlife Fund (WWF) the Malawi Government and the Japanese International Co-operation Agency (JICA).

### Short term work experience

I have undertaken **short-term work** for a number of international organisations including the African Development Bank (ADB), the UNDP Western Indian Ocean Marine Ecosystem Project (WIO-MEP), the African Coelacanth Ecosystem Programme (ACEP), the Icelandic International Development Agency (ICEIDA), Japan International Co-operation Agency (JICA). Aquaculture Development in Malawi (ADiM), the European Union (EU) and the German Gesellschaft für Technische Zusammenarbeit (GTZ), the World Wildlife Fund (WWF), Namibia nature Foundation (NNF), African Parks.

### Peer-reviewed publications

1. Mäkinen T, Weyl OLF, van der Walt KA, Swartz ER. 2013. First record of an introduction of the giant pangasius, *Pangasius sanitwongsei* Smith 1931, into an African river. African Zoology (in press)
2. Weyl OLF, Ellender BR, Woodford DJ, Jordaan M (2013) Fish distributions in the Rondegat River, Cape Floristic Region, South Africa, and the immediate impact of rotenone treatment in an invaded reach. *African Journal of Aquatic Science* 2013, 38(2): xx–xx
3. Huchzermeyer CF, Weyl OLF, Cowley PD. (2013) Evaluation of acoustic transmitter implantation and determination of post-translocation behaviour of largemouth bass *Micropterus salmoides* in a South African impoundment. *African Journal of Aquatic Science* 2013, 38(2): xx–xx
4. McHugh KJ, Van Dyk JC, Weyl OLF, Smit NJ (2013) First report of nephrocalcinosis in a wild population of *Mugil cephalus* L. and *Myxus capensis* (Valenciennes). Journal of Fish Diseases. doi: 10.1111/jfd.12101
5. Jones RW, Weyl OLF, Swartz ER, Hill MP (2013). Using a unified invasion framework to characterize Africa's first lorocariid catfish invasion. *Biological Invasions*, 1-7
6. Moravec, F., Weyl, O., Taraschewski, H. (2013). Redescription of *Heliconema africanum* (Linstow, 1899) n. comb. (Nematoda: Physalopteridae), a nematode parasite of freshwater eels (*Anguilla* spp.) in South Africa. Syst. Parasitol. (in press)
7. Taylor GC, Weyl OLF (2013), Validation of annulus formation in otoliths of largemouth bass *Micropterus salmoides* outside their native range. Journal of Applied Ichthyology. doi: 10.1111/jai.12150
8. Taylor GC, Weyl OLF (2012) Otoliths versus scales: evaluating the most suitable structure for ageing largemouth bass, *Micropterus salmoides*, in South Africa. African Zoology 47: 358-362.
9. Wasserman RJ, Pereira-da-Conceicao LL, Strydom NA, Weyl OLF. 2012. Diet of *Anguilla mossambica* (Teleostei, Anguillidae) elvers in the Sundays River, Eastern Cape, South Africa. African Journal of Aquatic Science. 37: 347-349
10. Ellender BR, Taylor GC, Weyl OLF. 2012. Validation of growth zone deposition rate in otoliths and scales of flathead mullet *Mugil cephalus* and freshwater mullet *Myxus capensis* from fish of known age. African Journal of Marine Science 34: 455-458
11. Lin Y-J, Jessop BM, Weyl OLF, Iizuka Y, Lin S-H, Tzeng WN, Sun CL. 2012. Regional variation in otolith Sr:Ca ratios of African longfinned eel *Anguilla mossambica* and mottled eel *Anguilla marmorata*: a challenge to the classic tool for reconstructing migratory histories of fishes. Journal of Fish Biology 81:427-441. doi:10.1111/j.1095-8649.2012.03357.x
12. Ellender BR, Weyl OLF, Winker H. 2012. Age and growth and maturity of southern Africa's largest cyprinid fish, the largemouth yellowfish *Labeobarbus kimberleyensis*. Journal of Fish Biology 81: 1271-1284. DOI: 10.1111/j.1095-8649.2012.03395.x
13. Moravec F, Taraschewski H, Appelhoff D, Weyl OLF. 2012. A new species of *Hysterothylacium* (Nematoda: Anisakidae) from the giant mottled eel *Anguilla marmorata* in South Africa. Helminthologia, 49, 3: 174 – 180,
14. Winker H, Weyl OLF, Booth AJ, Ellender BR. 2012. Life history strategy and population characteristics of an unexploited riverine cyprinid, *Labeo capensis*, in the largest impoundment in the Orange River Basin. African Zoology 47:85-99.
15. McCafferty JR, Weyl OLF, Ellender BR, Britz P. 2012. The use of water resources for inland fisheries in South Africa. Water SA 38:327-343.

16. Ellender BR, Becker A, Weyl OLF, Swartz ER. 2012. Underwater video analysis as a non-destructive alternative to electrofishing for sampling imperiled headwater stream fishes. *Aquatic Conservation: Marine and Freshwater ecosystems*. 22: 58-65. DOI:10.1002/aqc.1236
17. Stadlander T, Weyl OLF, Booth AJ. 2011. New distribution record for the Asian tapeworm *Bothriocephalus acheilognathi* Yamaguti, 1934 in the Eastern Cape Province, South Africa. *African Journal of Aquatic Science*. 36(3): 339-343.
18. Parker D, Weyl OLF, Taraschewski H. 2011. Invasion of a South African *Anguilla mossambica* (Anguillidae) population by the alien gill worm *Pseudodactylogyrus anguillae* (Monogenea). *African Zoology* 46(2): 371-377.
19. Wassermann RG, Strydom N, Weyl OLF. 2011. Diet of largemouth bass, *Micropterus salmoides* (Centrarchidae), an invasive alien in the lower reaches of an Eastern Cape river, South Africa. *African Zoology* 46(2): 378-386.
20. Wasserman RG, Weyl OLF, Strydom NA. 2011. The effects of instream barriers on the distribution of migratory marine-spawned fishes in the lower reaches of the Sundays River, South Africa. *Water SA* 37(4), 1-10
21. Winker, H., Weyl, O.L.F., Booth, A.J. & Ellender, B.R. 2011. Life history and population dynamics of invasive common carp, *Cyprinus carpio*, within a large turbid African impoundment. *Marine and Freshwater Research* 62(11), 1270-1280.
22. Olds AA, Smith MKS, Weyl OLF, Russell IA (2011) Alien invasive freshwater fishes in the Wilderness Lakes system, a wetland of international importance, Western Cape, South Africa. *African Zoology* 46: 179-184.
23. Ellender BR, Weyl OLF, Swartz E (2011) Invasion of a headwater stream by non-native fishes in the Swartkops River system, South Africa. *African Zoology* 46: 39-46.
24. Wartenberg R, Booth AJ, Weyl OLF (2011) A comparison of three techniques for fluorochrome marking of juvenile *Clarias gariepinus* otoliths. *African Zoology* 46: 72-77.
25. Booth AJ, Traas GRL, Weyl OLF (2010) Adult African sharptooth catfish, *Clarias gariepinus*, population dynamics in a small invaded warm-temperate impoundment. *African Zoology* 45(2): 299-308.
26. Winker H, Weyl OLF, Booth AJ, Ellender BR (2010) Validating and corroborating the deposition of two annual growth zones in asteriscus otoliths of common carp *Cyprinus carpio* from South Africa's largest impoundment. *Journal of Fish Biology* 77, 2210–2228, doi:10.1111/j.1095-8649.2010.02797.x,
27. Weyl PSR, DeMoor FC, Hill MP, Weyl OLF (2010) The effect of largemouth bass *Micropterus salmoides* on aquatic macroinvertebrate communities in the Wit River, Eastern Cape, South Africa. *African Journal of Aquatic Science*. 35(4): 273-282.
28. Weyl OLF, Ribbink AJ, Tweddle D (2010) Lake Malawi: fishes, fisheries, biodiversity, health and habitat', *Aquatic Ecosystem Health & Management*, 13: 3, 241 — 254. DOI: 10.1080/14634988.2010.504695
29. Winker H, Ellender B, Weyl OLF, Booth AJ (2010) Validation of growth zone deposition in otoliths of two large endemic cyprinids in Lake Gariep, South Africa. *African Zoology* 45(1): 133-138.
30. Ellender BR, Weyl OLF, Winker H, Booth AJ (2010) Quantifying the annual fish harvest from South Africa's largest freshwater reservoir. *Water SA* 36(1) 45-51.
31. Ellender BR, Weyl OLF, Winker H, Stelzhammer H, Traas GRL (2010) Estimating angling effort and participation in a multi-user, inland fishery in South Africa. *Fisheries Management and Ecology* 17(1): 19-27, doi: 10.1111/j.1365-2400.2009.00708.x
32. Ellender BR, Weyl OLF, Winker H (2009). Who uses the fisheries resources in South Africa's largest impoundment? Characterising subsistence and recreational fishing sectors on Lake Gariep. *Water SA* 35(5): 677-682
33. Filmlalter JD, Weyl OLF, Sauer WH (2009) Otoliths and vertebrae as potential hard structures for ageing South African yellowfin tuna *Thunnus albacares*. *African Journal of Marine Science* 2009, 31(2): 271–276
34. Richardson TJ, Booth AJ, Weyl OLF (2009) Rapid assessment of the fishery potential of Xonxa Dam near Queenstown, South Africa. *African Journal of Aquatic Science*. 34(1): 87-96.
35. Weyl OLF, Stadlander T, Booth AJ (2009) Establishment of translocated populations of smallmouth yellowfish, *Labeobarbus aeneus* (Pisces: Cyprinidae) in lentic and lotic habitats within the Great Fish River system, South Africa. *African Zoology* 44, 93-105.
36. Ellender BR, Weyl OLF, Shanyengange M.K., Cowley PD (2008) Juvenile population dynamics of *Oreochromis mossambicus* in an intermittently open estuary at the limit of its natural distribution. *African Zoology* 43(2):277-283.
37. Weyl, O.L.F., Booth, A.J. (2008) Validation of annulus formation in otoliths of a temperate population of adult African sharptooth catfish *Clarias gariepinus* (Burchell, 1822) using fluorochrome marking of wild fish. *Journal of Fish Biology* 73(4): 1033-1038. DOI: 10.1111/j.1095-8649.2008.01975.x
38. Weyl OLF (2008) Rapid invasion of a subtropical lake fishery in central Mozambique by Nile tilapia, *Oreochromis niloticus* (Pisces: Cichlidae). *Aquatic Conservation Marine and Freshwater Ecosystems*. 18: 839-851. DOI:10.1002/aqc.897

39. Booth A.J., Weyl, O.L.F. (2008) Retention of T-bar anchor and dart tags in a wild population of African sharptooth catfish, *Clarias gariepinus*. *Fisheries Research* 92: 333-339
40. Whitehead A, Weyl OLF & Bills R (2007) Reproductive and feeding biology of the endangered fiery redbfin, *Pseudobarbus phlegethon* (Barnard, 1938) (Teleostei: Cyprinidae), in the Noordhoeks River, South Africa. *African Journal of Aquatic Science*, 32(3): 99-111. doi: 10.2989/AJAS.2007.32.3.8.307
41. Weyl OLF, Potts W, Britz P, & Rouhani Q. (2007) The need for inland fisheries policy in South Africa: a case study of the North West Province. *Water SA*. 33(4): 497-504.
42. Weyl O.L.F. & Lewis H. (2006) First record of predation by the alien invasive freshwater fish *Micropterus salmoides* L. (Centrarchidae) on migrating estuarine fishes in South Africa. *African Zoology* 41(2): 294-296.
43. Kanyerere, G.Z., Weyl, O.L.F. and Booth, A.J. (2005). Management advice for *Diplotaxodon limnothrissa* in the southeast arm of Lake Malawi, based on per-recruit analysis. *African Journal of Aquatic Science* 30(2) 141-145.
44. Weyl, O.L.F., Nyasulu, T. & Rusuwa, B. (2005) Assessment of catch, effort and species changes in the pair trawl fishery of southern Lake Malawi, Malawi, Africa. *Fisheries Management and Ecology* 12: 395-402
45. Kanyerere, G.Z., Weyl, O.L.F. and Booth, A.J. (2005) Growth, reproduction and population structure of *Diplotaxodon limnothrissa* in the southeast arm of Lake Malawi. *African Journal of Aquatic Science*. 30(1): 37-44.
46. Weyl O.L.F., Booth, A.J., Mwakiyongo K.R and Mandere D.S. (2005) Management recommendations for *Copadichromis chrysonotus* (PISCES: Cichlidae) in Lake Malombe, Malawi, based on per-recruit analysis. *Fisheries Research* 71: 165-173.
47. Weyl OLF, Kazembe J, Booth AJ & Mandere, DS (2004) An assessment of a light attraction fishery in southern Lake Malawi. *African Journal of Aquatic Science* 29(1): 1-11.
48. Weyl, OLF, Mwakiyongo K.R and Mandere D.S. (2004) An assessment of the nkacha net fishery of Lake Malombe, Malawi. *African Journal of Aquatic Science*. 29(1): 47-55.
49. Booth, A.J & Weyl, O.L.F. (2004) Investigations into a potential directed fishery for *Labeo cylindricus* in Lake Chicamba, Mozambique. *African Zoology*. 39(1): 77-90.
50. Bills, R & O.L.F. Weyl (2002). A new *Chetia* (Teleostei: Cichlidae) from the Lecitu River, Buzi system, Mozambique. *JLB Smith Institute, Special Publication 1*: 1-11.
51. Booth, A. J. & Weyl, O.L.F. 2000. Histological validation of macroscopic staging criteria for *Labeo cylindricus* (Pisces: Cyprinidae). *Journal of African Zoology* 35(2): 223-231.
52. Weyl, O.L.F & Booth, A.J. 1999. On the life history of a Cyprinid fish *Labeo cylindricus*. *Environmental Biology of Fishes*. 55: 215-225.
53. Weyl, O.L.F & Hecht, T. 1998. A successful population of largemouth bass, *Micropterus salmoides*, in a subtropical lake in Mozambique. *Environmental Biology of Fishes*. 54: 53 - 66.
54. Weyl, O.L.F. & Hecht, T. 1998. The biology of *Tilapia rendalli* and *Oreochromis mossambicus* (Pisces: Cichlidae) in a subtropical lake in Mozambique. *South African Journal of Zoology*. 33(3):178 - 188.
55. Weyl, O., Kaiser, H. & Hecht, T. 1996. Breath holding in tilapia *Oreochromis mossambicus*. *South African Journal of Science*. 92: 152-154.
56. Weyl, O., Kaiser, H. & Hecht, T. 1996. On the efficacy and mode of action of 2-phenoxyethanol as an anaesthetic for goldfish, *Carassius auratus* (L.), at different temperatures and concentrations. *Aquaculture Research*. 27: 757-764.
57. Kaiser, H., Weyl, O. & Hecht, T. 1995. Observations on agonistic behaviour in *Clarias gariepinus* larvae and juveniles, under different densities and feeding frequencies in a controlled environment. *Journal of Applied Ichthyology*. 11: 25-36.
58. Kaiser, H., Weyl, O., & Hecht, T. 1995. The effect of stocking density on growth, survival and agonistic behaviour of African catfish. *Aquaculture International* 3: 217-225.

### Book chapters and reviewed conference proceedings

1. Skelton P, Weyl O (2011) *Fishes*, in: Alien & invasive animals, a South African perspective. Picker M, Griffiths C (eds), Struik Nature, Cape Town. pp: 47-70.
2. Van Rensburg, B. J. van, Weyl, O.L.F., Davies, S. J., Wilgen, L. J. van, Peacock, D. S., Spear, D. & Chimimba, C. T. 2011. Chapter 15: Invasive Vertebrates of South Africa. in *Biological Invasions: Economic and Environmental Costs of Alien Plant, Animal, and Microbe Species*. 2<sup>nd</sup> Edition. Pimentel, D. (Ed.), Boca Raton, Florida: CRC Press. pp: 326-378.
3. Richardson, D.M., Wilson, J.R.U., Weyl, O. and Griffiths, C.L. (2010). South Africa: Invasions. In: *Encyclopedia of Biological Invasions*. Simberloff, D. and Rejmánek, M. (eds.) University of California Press, pp. 643-651.
4. Weyl OLF (2008) Lessons learnt from 10-years of co-management in Lake Malombe, Malawi Africa and their applicability to Sri Lanka's perennial reservoirs. In: Wijeyaratne MJS & Amarasinghe US (eds) Participatory Approaches to Reservoir Fisheries management: Issues Challenges and Policies. Proceedings of the

Symposium held on 03-06 October 2004, Dambulla, Sri Lanka. German Technical Technical Cooperation (GTZ) & Sri Lanka Association for Fisheries and Aquatic Resources, Colombo, Sri Lanka, ISBN 978-955-9044-61-1. pp 1-16.

5. Weyl OLF, Booth AJ, Mwakiyongo K, Banda MM (2005) Per-recruit simulation as a rapid assessment tool for a multi-species small-scale fishery in Lake Malombe, Malawi, Africa. In: Fisheries assessment and management in data-limited situations. G.H. Kruse, V.F. Gallucci, D.E. Hay, R.I. Perry, R.M. Peterman, T.C. Shirley, P.D. Spencer, B. Wilson & D. Woodby (Eds). University of Alaska Sea Grant Program AK-SG-05-02. pp 235-254.
6. Zwieter P.A.M. van, Njaya F. & Weyl O.L.F. 2003. Effort development and the decline of the fisheries of Lake Malombe: does environmental variability matter? pp: 132-164, In: E. Jul-Larsen, J. Kolding, R. Overå, J. Raakjær Nielsen & P.A.M. van Zwieter (eds) *Management, co-management or no-management? Major dilemmas in southern African freshwater fisheries*, FAO Fisheries Technical Paper 426/2. Rome, FAO. 266p.

### Conference contributions

1. Kinghorn J, Snowball J, Britz P, Weyl OLF. 2012 Evaluating the socio-economic benefits of alien invasive fishes: recreational angling in the Amatola Region. International Institute for Fisheries Economics and Trade (IIFET), 16<sup>th</sup> Biennial Conference, Tanzania 16-20 July 2012.
2. Weyl OLF, Woodford DJ, Ellender BR. 2012. Invasive alien smallmouth bass in the Rondegat stream: impacts, efficacy of removal and future prospects. South African Society of Aquatic Science. Cape St Francis Resort, Eastern Cape, South Africa, 1-5 July 2012
3. Appelhoff D, Weyl OLF, Taraschewski H. 2012. An assessment of helminth parasite communities in two co-occurring eel species in the Umngazi and Umzimvubu Rivers, Eastern Cape, South Africa. South African Society of Aquatic Science. Cape St Francis Resort, Eastern Cape, South Africa, 1-5 July 2012
4. Van der Walt KA, Weyl OLF, Swartz ER. 2012. Determining population level vulnerability of native fishes to largemouth bass invasions in the Groot Marico River, North West Province, South Africa. South African Society of Aquatic Science. Cape St Francis Resort, Eastern Cape, South Africa, 1-5 July 2012
5. McHugh KJ, Smit NJ, Weyl OLF. 2012. A fishy tale of three man made impoundments. South African Society of Aquatic Science. Cape St Francis Resort, Eastern Cape, South Africa, 1-5 July 2012
6. Kinghorn JW, Snowball JD, Britz P, Weyl OLF. 2012. Estimating the economic impact of alien invasive fishes: recreational angling in the Amatola region. South African Society of Aquatic Science. Cape St Francis Resort, Eastern Cape, South Africa, 1-5 July 2012
7. Taylor GC, Weyl OLF. 2012. The validation of growth zone deposition rate in sagittal otoliths and an evaluation of scales as an alternative ageing structure for south african largemouth bass (*Micropterus salmoides*) populations. South African Society of Aquatic Science. Cape St Francis Resort, Eastern Cape, South Africa, 1-5 July 2012
8. Huchzermeyer CF, Weyl OLF, Bills RI. 2012. Bangweulu wetlands: floodplain conservation management for biodiversity and livelihoods. South African Society of Aquatic Science. Cape St Francis Resort, Eastern Cape, South Africa, 1-5 July 2012
9. Peel R, Weyl OLF, Omoregie E. 2012. Age, growth and maturity of three cichlid species from the Kavango and Caprivi regions, Namibia. South African Society of Aquatic Science. Cape St Francis Resort, Eastern Cape, South Africa, 1-5 July 2012
10. Olds A, Weyl OLF, Smith K. 2012. The changes in ichthyofauna in the Wilderness Lakes system over 25 years and the implication for the conservation of fishes in estuaries. South African Society of Aquatic Science. Cape St Francis Resort, Eastern Cape, South Africa, 1-5 July 2012
11. Ellender BR, Weyl OLF, Nagelkerke LAJ. 2012. Assessing the consequences of non-native fish invasion to the endangered border barb *Barbus trevelyani* in the Keiskamma River system, eastern cape, south Africa. South African Society of Aquatic Science. Cape St Francis Resort, Eastern Cape, South Africa, 1-5 July 2012
12. Wasserman RJ, Strydom NA, Weyl OLF. The utilization of freshwater environments by young estuarine- and marine-spawned fish species: disturbance in connectivity between habitats. South African Society of Aquatic Science. Cape St Francis Resort, Eastern Cape, South Africa, 1-5 July 2012
13. Woodford DJ, Weyl OLF, Hui C. 2012. Patterns of introduced fish establishment across an artificial irrigation network: a model system for understanding fish invasions. South African Society of Aquatic Science. Cape St Francis Resort, Eastern Cape, South Africa, 1-5 July 2012

14. Woodford DJ, Weyl OLF, Bellingan T, De Moor FC, Day JA, Gouws J. 2012. Monitoring the effects of piscicide operations on the invertebrate fauna of the Rondegat River. South African Society of Aquatic Science. Cape St Francis Resort, Eastern Cape, South Africa, 1-5 July 2012
15. Ellender BR, Weyl OLF (2012) Impact of centrarchid invasion on an endangered South African fish *Pseudobarbus afer* in headwater streams. In: International Conference on Ecology and Conservation of Freshwater Fish, 28 May-2 June 2012. Vila Nova de Cerveira, Portugal.
16. Taylor GC, Weyl OLF & Cowley PD. 2012. Biology of non-native largemouth bass *Micropterus salmoides* in Southern Africa. In: Ecology and Conservation of Freshwater Fish: 28 May-2 June 2012. Vila Nova de Cerveira, Portugal.
17. Tweddle D, Cowx I, Weyl OLF. 2012. Challenges in fisheries assessment and management in the great rivers of Africa, with particular emphasis on the Zambezi River system. 6<sup>th</sup> World Fisheries Congress: Sustainable Fisheries in a Changing World, 7-11 May, 2012, Edinburgh, UK.
18. Tweddle D, Peel R, Weyl OLF, Hay C. 2012. Lake Liambezi, Namibia: Fishing community assumes management responsibility. 6<sup>th</sup> World Fisheries Congress: Sustainable Fisheries in a Changing World, 7-11 May, 2012, Edinburgh, UK.
19. Woodford DJ, Hui C, Weyl OLF (2011) Modeling the Riverscape Ecology of Fish Invasions Across an Artificial Irrigation Network, American Fisheries Society, Seattle, September 2011
20. Yu-Jia Lin, Shih-Huan Lin, Weyl O, Wann-Nian Tzeng, Yoshiyuki Iizuka (2011) Elevated Otolith Sr:Ca ratios in the African Longfinned Eel from Mangory River, Madagascar. American Fisheries Society conference, Seattle, September 2011
21. Peel R, Tweddle D, Weyl OLF, Omoregie E (2011) Fish stock development in the recently filled Lake Liambezi, Caprivi, Namibia. South African Society of Aquatic Science. Ithala Game Reserve, Kwa Zulu Natal, South Africa, 26-30 June 2011
22. Field R, Kaiser H, Weyl OLF (2011) Quantifying the risks of hybridisation within the *Labeo umbratus* group as a consequence of inter-basin water transfers (IBTs). South African Society of Aquatic Science. Ithala Game Reserve, Kwa Zulu Natal, South Africa, 26-30 June 2011
23. Kinghorn J, Snowball J, Britz P, Weyl OLF (2011) Estimating the economic impact of the wriggleswade bass fishing tournament on the local economy of the amatola region. South African Society of Aquatic Science. Ithala Game Reserve, Kwa Zulu Natal, South Africa, 26-30 June 2011
24. Huchzermeyer CF, Weyl OLF, Cowley PD (2011) Evaluation of acoustic transmitter implantation and determination of post-translocation behaviour of largemouth bass *Micropterus salmoides* (Lacepède, 1802). South African Society of Aquatic Science. Ithala Game Reserve, Kwa Zulu Natal, South Africa, 26-30 June 2011
25. Weyl OLF, Winker H, Ellender BR, McCafferty JR (2011) A standardised assessment protocol for inland fisheries in South Africa. South African Society of Aquatic Science. Ithala Game Reserve, Kwa Zulu Natal, South Africa, 26-30 June 2011
26. McCafferty JR, Weyl OLF, Swartz ER (2011) how useful are angling catch records in providing productivity predictions for South African impoundments? South African Society of Aquatic Science. Ithala Game Reserve, Kwa Zulu Natal, South Africa, 26-30 June 2011
27. Woodford DJ, Weyl OLF, Bellingan T, de Moor<sup>2</sup> FC, Day JA (2011) Setting a monitoring baseline for assessing the effects of piscicide operations on the biota of the Rondegat River. South African Society of Aquatic Science. Ithala Game Reserve, Kwa Zulu Natal, South Africa, 26-30 June 2011
28. Woodford DJ, Weyl OLF, Hui C (2011). Investigating the riverscape ecology of fish invasions across an artificial irrigation network. South African Society of Aquatic Science. Ithala Game Reserve, Kwa Zulu Natal, South Africa, 26-30 June 2011
29. Olds, A.A., Weyl, O.L.F., Smith, M.K.S., and Russell, I.A. (2011) The potential impact of freshwater fish introductions on a South African wetland of international importance, the Wilderness lakes system, Western Cape. South African Society of Aquatic Science. Ithala Game Reserve, Kwa Zulu Natal, South Africa, 26-30 June 2011
30. Schirrmann MK, Swartz ER, Weyl OLF (2011) Genetic identification of alien black bass species (*Micropterus* spp.) in South Africa. South African Society of Aquatic Science. Ithala Game Reserve, Kwa Zulu Natal, South Africa, 26-30 June 2011
31. Brödlin D, Weyl OLF (2010) Age and growth of two Anguillid eels in the Eastern Cape, South Africa. Ithala Game Reserve, Kwa Zulu Natal, South Africa, 26-30 June 2011
32. Taylor GC, Weyl OLF (2011) Age and growth of largemouth bass (*Micropterus salmoides*) in Wiggleswade Dam South Africa: Why are there so few large fish? South African Society of Aquatic Science. Ithala Game Reserve, Kwa Zulu Natal, South Africa, 26-30 June 2011

33. Ellender B.R., Becker A., Weyl O.L.F., Swartz E.R. (2011) The feasibility of underwater video analysis as a non-destructive alternative to three pass electrofishing for sampling headwater stream fishes. South African Society of Aquatic Science. Ithala Game Reserve, Kwa Zulu Natal, South Africa, 26-30 June 2011
34. Olds AA, Weyl OLF, Smith MKS (2011) Distribution and abundance of alien invasive fish species in a South African RAMSAR wetland, the Wilderness Lakes South African Marine Science Symposium 2011. Estuarine, Coastal and Oceanic Ecosystems: Breaking Down the Boundaries. Grahamstown, 4-7 April 2011
35. Weyl OLF, Taraschewki H, Parker D. An assessment of the risks of parasite transfers associated with live imports of *Anquilla mossambica* from Madagascar. The Southern African Society of Aquatic Scientists: "Aquatic biodiversity and climate change – an arid region perspective". Southern African Society of Aquatic Scientists Conference, Augrabies Falls National Park, South Africa. 13<sup>th</sup> to the 15<sup>th</sup> of June 2010
36. Ellender, B.R., Weyl, O.L.F. & Winker, H. 2010. Fishery dynamics and utilisation trends in South Africa's largest impoundment. Southern African Society of Aquatic Scientists Conference, Augrabies Falls National Park, South Africa.
37. McCafferty, J.R., Weyl, O.L.F. & Swartz, E. 2010. Why should the Department of Agriculture, Forestry and Fisheries consider recreational angling in its long term plans for inland fisheries? 14<sup>th</sup> Yellowfish Working Group Conference, Willem Pretorius Resort, South Africa.
38. McCafferty, J., Weyl, O.L.F., Wartenberg, R., Peel, R. & Booth, A.J. 2010. Can invasive populations of barbel *Clarias gariepinus* be viably harvested in the Eastern Cape? Southern African Society of Aquatic Scientists Conference, Augrabies Falls National Park, South Africa.
39. Ramoejane, M., Swartz, E. & Weyl, O.L.F. 2010. The genetic integrity of *Labeo* species (Cyprinidae) in South Africa in relation to inter-basin water transfer schemes. Southern African Society of Aquatic Scientists Conference, Augrabies Falls National Park, South Africa.
40. Swartz, E. & Weyl, O. 2010. Mapping areas for the National Environmental Management: Biodiversity Act – Implications for recreational angling and conservation of yellowfish. 14<sup>th</sup> Yellowfish Working Group Conference, Willem Pretorius Resort, South Africa.
41. Weyl OLF, Booth AJ, Traas GRL, Ramoejane M, Swartz E (2009) Cutting losses and aligning priorities in developing a management plan for freshwater fishes in a South African national park. DIVERSITAS Open Science Conference: Understanding connections managing change. Cape Town October 2009. Book of Abstracts, p 169.
42. Winker, H., Weyl, O.L.F., Ellender, B.R. and Booth, A.J. (2009) Assessing the establishment success of endemic and invasive cyprinid populations in South Africa's largest impoundment. The Southern African Society of Aquatic Scientists, Conference - "Beyond rapid assessments - time for an aquatic research renaissance in South Africa" 21 – 24 June 2009, Magaliesberg Conference Centre, Broederstroom.
43. Winker, H., Weyl, O.L.F., Ellender, B.R. and Booth, A.J. (2009) Validation of growth zone deposition rates in four large cyprinid species in Lake Gariep, South Africa. The Southern African Society of Aquatic Scientists, Conference - "Beyond rapid assessments - time for an aquatic research renaissance in South Africa" 21 – 24 June 2009, Magaliesberg Conference Centre, Broederstroom.
44. Weyl OLF, Traas GRL, Booth AJ, Ramoejane M, Swartz E (2009) The good, the bad and the ugly of alien fish invasion in the Addo Elephant national Park, South Africa. The Southern African Society of Aquatic Scientists, Conference - "Beyond rapid assessments - time for an aquatic research renaissance in South Africa" 21 – 24 June 2009, Magaliesberg Conference Centre, Broederstroom.
45. Ramoejane M, Swartz E. Weyl OLF (2009) The genetic integrity of *Labeo* species (Cyprinidae) in South Africa in relation to inter-basin water transfer schemes. The Southern African Society of Aquatic Scientists, Conference - "Beyond rapid assessments - time for an aquatic research renaissance in South Africa" 21 – 24 June 2009, Magaliesberg Conference Centre, Broederstroom.
46. Mthombeni VG, Weyl OLF, Bills R (2009) Life-history of threatened catfishes (Austroglanidae) in the Clanwilliam-Olifants system South Africa. The Southern African Society of Aquatic Scientists, Conference - "Beyond rapid assessments - time for an aquatic research renaissance in South Africa" 21 – 24 June 2009, Magaliesberg Conference Centre, Broederstroom.
47. Weyl, O.L.F., Ellender, B.R., Winker, H., Steltzhammer, H. (2009) Likely response of smallmouth yellowfish populations to fisheries development in South African Dams – Is there cause for concern? In: Yellowfish Working Group Conference Proceedings. Sterkfontein Dam, South Africa. [www.fosaf.co.za/documents/Proceedings%2009.pdf](http://www.fosaf.co.za/documents/Proceedings%2009.pdf)
48. Ellender, B.R., Weyl, O.L.F., Winker, H. (2009) The biology of smallmouth and largemouth yellowfish in Lake Gariep. In: Yellowfish Working Group Conference Proceedings. Sterkfontein Dam, South Africa. [www.fosaf.co.za/documents/Proceedings%2009.pdf](http://www.fosaf.co.za/documents/Proceedings%2009.pdf)

49. Weyl OLF, Winker H, Ellender BR, Steltzhammer H, & Booth AJ (2008) A decision-making tool for optimising social and economic potential from inland fisheries – a South African case study. *Fourth International Conference of the Pan African Fish and Fisheries Association: African Fish and Fisheries: Diversity and Utilization, Addis Ababa, Ethiopia, 22-26 September 2008.*
50. H. Winker\*, O.L.F. Weyl , A.J. Booth and B.R. Ellender (2008) The Role of Carp in South Africa's largest impoundment. *Fourth International Conference of the Pan African Fish and Fisheries Association: African Fish and Fisheries: Diversity and Utilization, Addis Ababa, Ethiopia, 22-26 September 2008.*
51. G.R.L. Traas\*, A.J. Booth, O.L.F. Weyl. Effects of alien piscivores on small indigenous ichthyofauna densities and relative abundance in seasonal rivers. *Fourth International Conference of the Pan African Fish and Fisheries Association: African Fish and Fisheries: Diversity and Utilization, Addis Ababa, Ethiopia, 22-26 September 2008.*
52. B.R. Ellender\*, O.L.F. Weyl, H. Winker (2008) Post-apartheid fishery dynamics and utilisation trends in South Africa's largest impoundment. *Fourth International Conference of the Pan African Fish and Fisheries Association: African Fish and Fisheries: Diversity and Utilization, Addis Ababa, Ethiopia, 22-26 September 2008.*
53. Olaf LF Weyl, H Winker, BR Ellender, H Steltzhammer, & AJ Booth (2008) Towards a decision-making process for deciding between conservation, social or economic goals for freshwater fish resources in two South African reserves – Oviston and the Addo Elephant National Park. *Southern African Wildlife Management Association (SAWMA) Conference: -Biodiversity Conservation: The Science Management Interface, 16-19 September 2008, Mpekweni Beach Resort – Port Alfred, Eastern Cape*
54. Bruce R Ellender, OLF Weyl, H Winker & AJ Booth (2008) Fisheries resource use and user dynamics in the Oviston Nature Reserve, Eastern Cape. *Southern African Wildlife Management Association (SAWMA) Conference: -Biodiversity Conservation: The Science Management Interface, 16-19 September 2008, Mpekweni Beach Resort – Port Alfred, Eastern Cape*
55. Henning Winker, OLF Weyl, AJ Booth, & BR Ellender (2008) Post-impoundment trends and ecology of alien common carp in Lake Gariep. *Southern African Wildlife Management Association (SAWMA) Conference: - Biodiversity Conservation: The Science Management Interface, 16-19 September 2008, Mpekweni Beach Resort – Port Alfred, Eastern Cape*
56. Anthony J Booth, OLF Weyl & GRL Traas (2008) Estimation of tag loss and abundance of sharptooth catfish in Glen Melville Dam. *Southern African Wildlife Management Association (SAWMA) Conference: -Biodiversity Conservation: The Science Management Interface, 16-19 September 2008, Mpekweni Beach Resort – Port Alfred, Eastern Cape*
57. Traas GRL, Booth AJ; Weyl OLF (2008) Effects of alien piscivores on small indigenous ichthyofauna densities and relative abundance in seasonal rivers.. *Southern African Wildlife Management Association (SAWMA) Conference: -cBiodiversity Conservation: The Science Management Interface, 16-19 September 2008, Mpekweni Beach Resort – Port Alfred, Eastern Cape*
58. Ellender, BR, Weyl, OLF, Cowley PD & Shanyengange, M. Temporal and spatial distribution of *Oreochromis mossambicus* in the intermittently open East Kleinemonde estuary, South Africa. *Southern African Marine Science Symposium (SAMSS), July 2008, Cape Town, South Africa.*
59. Mthombeni, V., Weyl, O.L.F., Bills, I.R. (2008) The biology of *Austroglanis* catfishes from the Clamwilliam-Olifants River system, South Africa. *South African Association of Botanists (SAAB) & South African Association for Systematic Biology (SASSB) Symposium, 14 - 18 January 2008, Drakensberg, South Africa.*
60. Weyl, O.L.F. (2006) The Nile tilapia *Oreochromis niloticus* invasion of Lake Chicamba, Manica Province, Mozambique. *Southern African Society of Aquatic Scientists/ Phycological Society of Southern Africa, Joint Conference – “From Source To Sea”, Maputo, Mozambique - 19 to 23 June 2006.*
61. Andrew, T.G., Weyl, O.L.F. Andrew, M. & Hecht, T. (2005) The contribution of aquaculture to livelihoods of smallholder farmers in Malawi. Presented at the 7<sup>th</sup> Bi-annual Conference of the Aquaculture Association of Southern Africa, Aquaculture for Africa – Unlocking the potential. Grahamstown, South Africa, 12-16 September 2005.
62. Weyl, O.L.F., Potts, W., Rouhani, Q. & Brits, P. (2004). The need for inland fisheries policy in South Africa: a case study on the Northwest Province. Presented at the International Workshop for Water Resources Management for Local Development, Governance, Institutions and Policies. Loskop Dam, South Africa, 8 – 11 November 2004.
63. Weyl, O.L.F. (2004). Problems and opportunities in the use and control of alien species in transboundary water systems- Asian carps in the Limpopo system. Presentation at the 13<sup>th</sup> session of the Committee for Inland Fisheries in Africa (CIFA), Food and Agriculture Organisation of the United Nations (FAO), Entebbe, Uganda, 27 – 30 October 2004.



64. Weyl, O.L.F. 2004. Lessons learnt from 10 years of co-management experience in Lake Malombe, Malawi, Africa. Presentation at the Symposium on participatory approaches to reservoir fisheries management-Issues, challenges and policies, Dambulla, Sri Lanka, 03 – 07 October 2004
65. Weyl, O.L.F. 2003. Fishery co-management and community development in Malawi, Presentation at the International Workshop - Fisheries Co-management in Southern Africa-Lessons learnt and directions for future research, University of the Western Cape, Cape Town, South Africa, 1-3 December 2003.
66. Weyl, O.L.F. 2003. NARMAP concept and implementation 1998-2003. Presentation at the International Workshop - Fisheries Co-management in Southern Africa-Lessons learnt and directions for future research, University of the Western Cape, Cape Town, South Africa, 1-3 December 2003.
67. Weyl, O.L.F., Booth, A.J., Mwakiyongo, K.R. and Mandere, D.S. 2003. Per-recruit simulation as a rapid assessment tool for a multi-species small-scale fishery in Lake Malombe, Malawi, Africa. 21<sup>st</sup> Wakefield Fisheries Symposium – Alaska Sea Grant : Fisheries in Data Limited Situations, October 2003.
68. Weyl O.L.F. 2001. Hard Choices for Chambo management in area A of the southeast arm of Lake Malawi. Presentation at the International “Lake Malawi Fisheries Management Symposium”, Capital Hotel, Lilongwe, 4<sup>th</sup> to 9<sup>th</sup> June 2001. (pp 146-155, In: Weyl, O.L.F. & Weyl M.V. (eds) 2001. Proceedings of the Lake Malawi Fisheries Management Symposium, June 4<sup>th</sup> – 9<sup>th</sup> Capital Hotel Lilongwe, Malawi. NARMAP. 273 pp.)
69. Mwakiyongo K. & Weyl O.L.F. 2001. Management recommendations for the nkacha net fishery of Lake Malombe. Presentation at the International “Lake Malawi Fisheries Management Symposium”, Capital Hotel, Lilongwe, 4<sup>th</sup> to 9<sup>th</sup> June 2001. (pp 114-120 In: Weyl, O.L.F. & Weyl M.V. (eds) 2001. Proceedings of the Lake Malawi Fisheries Management Symposium, June 4<sup>th</sup> – 9<sup>th</sup> Capital Hotel Lilongwe, Malawi. NARMAP. 273 pp.)
70. Weyl, O.L.F & Hecht, T. 1998. The Lake Chicamba subsistence fishery: a model for the assessment and management of African lacustrine fisheries. Oral presentation given at the International conference for the PARADI Association and the Fisheries Society of Africa. Grahamstown, South Africa, 13-18 September 1998.
71. Weyl, O.L.F. & Hecht, T. 1997. Operational management plan for a subsistence *Oreochromis mossambicus* fishery in central Mozambique. Presented at the Zoology Society of southern Africa Symposium, Cape Town 7-11 July 1997.

### Scientific reports & training manuals

1. Woodford DJ, Weyl OLF, Cunningham M, Bellingan TA, de Moor FC, Barber-James HM, Day JA, Ellender BR, Richardson NK (2012) Monitoring the impact and recovery of the biota of the Rondegat River after the removal of alien fishes. Water Research Commission Report No. KV 304/12, Pretoria, SA. 72p.
2. Peel RA, Weyl OLF and Omoregie E (2012) Towards a holistic management strategy for the fisheries of the Zambezi River and Eastern Caprivi Floodplains: Report on management recommendations for the fisheries of the Kavango and Caprivi Regions. *Namibia Nature Foundation*. 27p.
3. Peel RA, Weyl OLF and Omoregie E (2012) Comparative biology of three cichlid species in Lake Liambezi and the Kavango, Kwando and Zambezi river systems to make recommendations for the best source of fingerlings for stocking: Report on recommendations for the best source of fingerlings for stocking. *Namibia Nature Foundation*. 25p.
4. Peel R, Tweddle D, Weyl OLF, Chinyawezi K, Kalaluka R (2012) Ecological and socio-economic baseline assessment of artisanal fishing in the Greater Liuwa Ecosystem, Western Zambia, Report 1: Fishery Frame Survey. African Parks Zambia, Liuwa Plain National Park. 23p.
5. Tweddle D, Peel R, Weyl OLF (2012) Ecological and socio-economic baseline assessment of artisanal fishing in the Greater Liuwa Ecosystem, Western Zambia, Report 2:

- Ichthyological diversity of the upper west Zambezi Game Management Area. African Parks Zambia, Liuwa Plain National Park. 52p.
6. Murphy C, Chilala A, Peel R, Tweddle D, Weyl OLF, Chinyawezi K, Kalaluka R (2012) Ecological and socio-economic baseline assessment of artisanal fishing in the Greater Liuwa Ecosystem, Western Zambia, Report 3: Fish Marketing Survey. African Parks Zambia, Liuwa Plain National Park. 24p.
  7. McCafferty J, Ellender BRE, Weyl OLF, Brits P (2010) Literature review on use for water resources for inland fisheries in South Africa. Water Research Commission Project K5/1957/4: Baseline and scoping study on the development and sustainable utilisation of storage dams for inland fisheries and their contribution to rural livelihoods. Deliverable 1. 69 p.
  8. McCafferty, J.R., Ellender, B.R., Weyl, O.L.F, Britz, P.J. (2010) Deliverable 5: The viability of stocking dams with fish with particular reference to biodiversity and natural processes; choice of fish species; socio-economic benefits; and monitoring and evaluation. Water Research Commission Project K5/1957/4: Baseline and scoping study on the development and sustainable utilisation of storage dams for inland fisheries and their contribution to rural livelihoods. Deliverable 5.
  9. McCafferty, J.R., Weyl O.L.F. (2010) Report on recreational fishing techniques and practises in storage dams in South Africa. Water Research Commission Project K5/1957/4: Baseline and scoping study on the development and sustainable utilisation of storage dams for inland fisheries and their contribution to rural livelihoods. Deliverable 7.
  10. Woodford D, Weyl OLF (2010) a review of the vertebrate fauna of the Rondegat river and methodology for monitoring the aquatic vertebrate community before and after rotenone treatment. Water research commission project k8/922: monitoring the impact and recovery of the biota of the rondegat river after the removal of alien fishes. Deliverable 2. 24p.
  11. Weyl OLF, Booth AJ, Winker H, Traas GRL, McCafferty J, Wartenberg R, Peel R (2010) Task 3: Assessment of the fishery potential for alien species on Darlington Dam. Sundays River Freshwater Fish Research Project (*Project ID: PO64438*), Report 58p.
  12. Weyl OLF, Booth AJ, Winker H, Ellender BR (2010) Task 4: Surrogate species and monitoring of freshwater fishes in the Addo Elephant National Park. Freshwater Fish Research Project (*Project ID: PO64438*), Report 47p.
  13. Weyl OLF, Booth AJ, Winker H, Ellender BRE, Traas GRL (2010) TASK 5: Management recommendations for freshwater fishes in the Sundays River system, Addo Elephant National Park. Report prepared for SAN-Parks:Sundays River Freshwater Fish Research Project,*Project ID: PO64438*, 56p.
  14. Traas, G.R.L., Weyl, O.L.F., Booth A.J. (2007) Distribution and abundance of fish in the Sundays River Catchment of the Addo Elephant National Park - Review of Historical Data. Report prepared for SAN-Parks:Sundays River Freshwater Fish Research Project,*Project ID: PO64438*, 31p.
  15. Weyl, O.L.F., Traas, G.R.L., Booth A.J. (2008) Distribution and abundance of fish in the Sundays River Catchment of the Addo Elephant National Park: Task 1: Current distribution of freshwater fishes and initial recommendations. Report prepared for SAN-Parks:Sundays River Freshwater Fish Research Project, *Project ID: PO64438*, 40p.
  16. Weyl OLF, Ramoejane M, Swartz E (2009) Assessment of genetic diversity of *Pseudobarbus afer* and *Barbus pallidus* in the Sundays River and Swartkops River catchment to identify critical conservation areas within the Addo Elephant National Park, Eastern Cape. SANBI/Norad funded endangered species project, final report. 14p
  17. Weyl OLF, Booth AJ, Winker H, Traas GRL, McCafferty J, Wartenberg R, Peel R (2010) Task 3: Assessment of the fishery potential for alien species on Darlington Dam, Sundays River Freshwater Fish Research Project, *Project ID: PO64438*, Report No. 5, 58p.
  18. Weyl OLF, Booth AJ, Traas GRL, Swartz E (2009) Task 2: Determination of critical conservation areas in the Sundays river system for indigenous fish species, Sundays River Freshwater Fish Research Project, *Project ID: PO64438*, Report No.4, 31p.
  19. Potts, W., Weyl, O.L.F., Andrew, T.G. (2004) Final report on an initial assessment of the fisheries potential of Gariep Dam. Enviro-Fish Africa Report prepared for Department of Economic Affairs, Environment and Tourism, Northern Region, Province of the Eastern Cape. 38 pp.
  20. Weyl OLF (2003) Capture fisheries in Malawi and their contribution to national fish supply. Japanese International Co-operation Agency JICA, Aquaculture Development in Malawi, ADiM Report. 62p.
  21. Andrew TG, Weyl OLF, Andrew M (2003) Aquaculture Masterplan Development in Malawi - Socio-Economic Survey Report. Japanese International Co-operation Agency JICA, Aquaculture Development in Malawi, ADiM Report. 77p.

22. Weyl, O.L.F., Ngochera, M., Sungani, H., Namoto, W., Mhango, T. & Mponda, O.C. 2002. Verification of BVC enumeration of nkacha net fishers in the Lake Malombe Management Unit. NARMAP Survey Report No. 9.
23. Banda, M., Chisambo, J., Rusuwa, B., Nyasulu, T., Mandere, D.S, Manase, M.M. & Weyl, O.L.F. 2002. Species composition in 12 gears used in the fishery of Area A in the Southeast arm of Lake Malawi. NARMAP Survey Report No. 11
24. Weyl, O.L.F., Ngochera, M., Namoto, W. & Mponda, O.C. 2002. Mangochi District Frame Survey Report 2001. NARMAP Survey Report No. 5.
25. Weyl, O.L.F., Ngochera, M., Namoto, W. & Mponda, O.C. 2002. Mangochi District Frame Survey Report 2001 – Register of Fishers & Beaches. NARMAP Survey Report No. 5.
26. Weyl O.L.F. & Weyl M.V. (eds) 2001. Proceedings of the Lake Malawi Fisheries Management Symposium, June 4<sup>th</sup> – 9<sup>th</sup> Capital Hotel Lilongwe, Malawi. NARMAP. 273 pp.
27. Weyl O.L.F. 2001. Hard Choices for Chambo management in area A of the southeast arm of Lake Malawi. pp 146-155, In: Weyl, O.L.F. & Weyl M.V. (eds) 2001. Proceedings of the Lake Malawi Fisheries Management Symposium, June 4<sup>th</sup> – 9<sup>th</sup> Capital Hotel Lilongwe, Malawi. NARMAP. 273 pp.
28. Mwakiyongo K. & Weyl O.L.F. 2001. Management recommendations for the nkacha net fishery of Lake Malombe. pp 114-120 In: Weyl, O.L.F. & Weyl M.V. (eds) 2001. Proceedings of the Lake Malawi Fisheries Management Symposium, June 4<sup>th</sup> – 9<sup>th</sup> Capital Hotel Lilongwe, Malawi. NARMAP. 273 pp.
29. Weyl, O.L.F., Banda, M.C., Manase, M.M., Namoto, W. & Mwenekibombwe, L.H. 2001. Analysis of catch and effort data for the fisheries of Lake Malombe, 1976-1999. Government of Malawi, Fisheries Bulletin No. 45.
30. Weyl, O.L.F., Banda, M.C., Manase, M.M., Namoto, W. & Mwenekibombwe, L.H. 2001. Analysis of catch and effort data for the fisheries of the South West Arm of Lake Malawi, 1976-1999. Government of Malawi, Fisheries Bulletin No. 46.
31. Chisambo, J., Weyl, O.L.F., & Namoto, W. 2001. Analysis of catch and effort data for the fisheries of Domira Bay, 1976-1999. Government of Malawi, Fisheries Bulletin No. 47.
32. Weyl, O.L.F. & Banda, M.C. 2001. Notes on chilimira net catch composition from catch and effort data in Mangochi District. NARMAP Technical Report No. 5.
33. Weyl, O.L.F., 2001. Mortality rates and catchability coefficients for three major target species in the nkacha net fishery of Lake Malombe. NARMAP Working Paper No. 3. 5p.
34. Weyl, O.L.F. 2001. Small scale fisheries statistics summary. NARMAP Short Communication No. 2. 8p.
35. Banda, M, Jambo, C.M., Katchinjika, O. & Weyl. O.L.F. 2001. Fisheries resource user groups in Malawi. NARMAP short communication No. 3. 6p.
36. Weyl, O.L.F. 2000. A brief description of two fishing gears from Northern Lake Malawi. NARMAP Short Communication No. 1. 4p.
37. Weyl, O.L.F., Namoto, W., Banda, P.L., Chafukira, D.F., Mponda, O.C. & Mandere, D.S. 2000. Artisanal fishery catch assessment manual for Mangochi District. NARMAP manual, March 2000. 18p.
38. Weyl, O.L.F., Namoto, W., Mponda, O.C. & Mwenekibombwe L.H. 2000. Rapid appraisal of fish marketing in Mangochi District. NARMAP Survey Report No. 1.
39. Weyl, O.L.F., Sipawe, R. & Mfune, J. 2000. Rapid appraisal of the small-scale fishery in the Chiweta-Usisya area of Lake Malawi. NARMAP Survey Report No. 2.
40. Weyl, O.L.F., Manase, M.M. & Banda M. 2000. Considerations for the management of the gill net fishery in the southeast arm of Lake Malawi. NARMAP Technical Report No. 3.
41. Weyl, O.L.F., Banda, M., Sodzapanja, G., Mwenekibombwe, L.H., Namoto, W. & Mponda, O.C. 2000. Annual Frame Survey, September 1999. Government of Malawi, Fisheries Bulletin No. 42.
42. Bulirani, A.E., Banda, M.C., Palsson, O.K., Weyl, O.L.F., Kanyerere, G.Z., Manase, M.M. & Sipawe, R.D., 1999. Fish Stocks and Fisheries of Malawian Waters: Resource Report. Government of Malawi, Fisheries Department, Fisheries Research Unit. 54pp.
43. Weyl, O.L.F. 1999. Lake Malombe artisanal fishery catch assessment 1994-1998. NARMAP Technical Report No. 1. 23p.
44. Weyl, O.L.F., Manase, M.M., Namoto, W. & Banda, P.L. 1999. Assessment of the artisanal Fishery catch and effort data collection and analysis procedure in Mangochi District, Malawi. NARMAP Working Paper No. 1. 38p.
45. Weyl, O.L.F. & Manase, M.M. 1999. Assessment of routine data collection and flow of information within the Department of Fisheries. NARMAP Working Paper No. 2. 28p.
46. Weyl, O.L.F. 1999. Artisanal Fishery catch assessment for the southeast arm of Lake Malawi 1994-1998. NARMAP Technical Report No. 2. 41p.
47. Weyl, O.L.F. & Hecht, T. 1997. Lake Chicamba Fisheries Project: Final Report and Management Recommendations. Submitted to MARRP/GTZ, Chimoio, Mozambique. December 1997. 73pp.

48. Balarin, J.D. & Weyl, O. 1996. Chicamba Fisheries Project: Chicamba Fish Market Survey. Report submitted to MARRP/GTZ, Chimoio, Mozambique. April 1996. 51pp.

### Popular articles

1. Weyl, O. 2012. Visspecie. Bloukurper *Oreochromis mossambicus*. Wegsleep. March 2013. 66.
2. Weyl, O. 2012. Visspecie. Grootbekbaars *Micropterus salmoides*. Wegsleep. December 2012. 60.
3. Weyl O. 2012. Can we have our bass fisheries and still conserve endangered native fishes? SA Bass, June, 30-31
4. Weyl O. 2012. Seeking answers on the future of fish. Zambezi News. March 2012. <http://www.zambezitraveller.com/caprivi-kavango/research/seeking-answers-future-fish>
5. Weyl O. 2012. Zambezi shark fact file. Zambezi News. Tete and Lower Zambezi. Zambezi Traveller, 9:45.
6. Weyl O. 2012. Fishing the Kwando River. Fishing and Hunting Journal, March, 45:20-23
7. Taylor G, Weyl O. 2012. How often can a bass be caught? SA Bass, May, 14-16.
8. Weyl O. 2012. EUS now in South Africa. SA Bass, April, 32.
9. Weyl OLF (2011) Tigerfish, the perfect predator, Zambezi News (Kariba and middle Zambezi), Zambezi Traveller Issue 6: 17.
10. Weyl OLF (2011) Why don't they do something? Zambezi News (Kariba and middle Zambezi), Zambezi Traveller Issue 6: 22.
11. Weyl O (2011) Understanding South African Bass populations: Part 1 What is a realistic expectation from a bass fishery? SA Bass, July 2011, 12-15.
12. Weyl O (2011) Understanding South African Bass populations: Part 2, *What makes a big bass water?* SA Bass, August, 46-49
13. Weyl O (2011) Understanding South African Bass populations: Part 3, South African Bass Waters – how they measure up, SA Bass September, 38-39
14. Weyl O (2011) Understanding South African Bass populations: Part 4 History and status of Northern and Florida largemouth bass in South Africa. SA Bass, November, 28-29.
15. Weyl O (2011) Understanding South African Bass populations: Part 5 Live-well management. SA Bass, December, 32-34.
16. Taylor G, Weyl O (2011) Why are there so few Hawgs in Wriggleswade Dam? SA Bass, February 2011, 36-37.
17. Weyl O (2011) Limit the spread of fish diseases. SA Bass, February 2011, 37.
18. Weyl O (2011) Targeting smallmouth yellowfish, great winter fun. The Bank Angler, July 2011, Issue 69: 72-76.
19. Weyl OLF (2010) Where do bass really go? SA Bass, November 2010: 12-15.
20. Weyl, O.L.F., Swartz, E, 2010. carp fishing and the environmental management act. The Bank Angler, January 2011: 58-59.
21. Weyl OLF, Swartz E (2010) Bass fishing and the environmental management act. SA Bass, December 2010: 38.
22. McCafferty JR, Weyl OLF, Swartz E. 2010. Why should the Department of Agriculture, Forestry and Fisheries consider recreational angling in its long term plans for inland fisheries? Proceedings of the 14<sup>th</sup> yellowfish working group conference. Willem Pretorius Resort, Free State Province 16-17 April 2010. pp. 147-151.
23. Swartz E, Weyl O. 2010. Mapping areas for the National Environmental Management: Biodiversity Act – Implications for recreational angling and conservation of yellowfish. Proceedings of the 14<sup>th</sup> yellowfish working group conference. Willem Pretorius Resort, Free State Province 16-17 April 2010. pp. 142-146.
24. Weyl, O (2009) Exploring the Kwanza. The Fishing and Hunting Journal 12(5): 15-19.
25. Weyl, O (2009) Explorative Fishing in Ethiopia. The Fishing and Hunting Journal 12(2): 25-27.
26. Weyl, O (2008) Book review – Coastal Fishes of Southern Africa. The Fishing and Hunting Journal 11(5): 32-33.
27. Weyl, O (2008) Addicted, Fishing & Hunting Journal, 11(3): 17-18 (3 photos published).
28. Weyl, O (2008) Fishing and other experiences in Sri Lanka, Fishing & Hunting Journal, 11(2): 21-24 (8 photos published).
29. Weyl, O (2007) Mulletts and bass. Fishing & Hunting Journal, 10(6): 15.
30. Weyl, O (2006) Fishing Japanese Style. Fish, Fishing and Billy Joel in Downtown Tokyo. Fishing & Hunting Journal, 9(2): 17-22
31. Weyl, O (2005) Alaskan coho. The Fishing & Hunting Journal 8(2) 18-21.
32. Weyl, O (2004) World class fishing on our doorstep. Flyfishing, April 2004.
33. Weyl, O. (2004) Colonisation of the southeast arm of Lake Malawi by the lungfish *Protopterus annectens brienii* (Poll 1961), Ichthos Newsletter 73: pp. 12-13.
34. Weyl, O. (2004) Tiny trout of the mighty Mulunguzi, The Fishing Journal 7(2) 36-39.
35. Weyl, O. (2002) Lake Malawi salmon. The Fishing Journal 5(1).

36. Weyl, O. & Truter, E. (2002) To gaff or not to gaff. Some thoughts on catch-&-release methods. The Fishing Journal, 5(5): 26.
37. Weyl, O. (2001) Fishing in Malawi. The Fishing Journal 4(3).
38. Weyl, O. (2000) Lake Chicamba bass. The Fishing Journal 4(1).
39. Weyl, O. (1995) Lake Chicamba Fisheries Project. ALCOM News. Issue 20:1995.

## Student Supervision

### Current PhD-Students

1. Geraldine Taylor – Impacts of the flood-pulse on growth rates of Caprivi fishes. Supervisors: Olaf Weyl, Clinton Hay
2. Richard Peel – Fish community dynamics in a recently flooded lake. Supervisors: Olaf Weyl, Clinton Hay, Sven Kaehler
3. Terence Bellingan – Impact of alien fishes on invertebrate communities in Eastern Cape Rivers. Rhodes University. Supervisors: Olaf Weyl, Martin Vilet
4. Bruce Ellender - Impact of alien fishes on endangered fishes in Eastern Cape Rivers. Rhodes University. Supervisor OLF Weyl, E Swartz
5. Roy Jones - Invasions in the Richards Bay area of South Africa. Supervisors: M Hill, OLF Weyl
6. Mpho Ramoeljane - Phylogeography and conservation management of *Labeo* in South Africa. Supervisors: E Swartz, OLF Weyl.
7. Alexander Bulirani - Stock dynamics of deep water cichlids in Lake Malawi. University of Malawi. Supervisory board: E Kaunda (Uni. Malawi), George Turner (Bangor) OLF Weyl (SAIAB)

### Current MSc Students

1. Thandeka Msezane – Understanding food webs in invaded aquatic environments. University of Pretoria. Supervisors CT Chimimba, T. Zengeya, OLF Weyl.
2. Evans Simasiku - Biology and ecology of juvenile cichlids in floodplains. Rhodes. Supervisors OLF Weyl, D. Tweddle
3. Kerry Ann Van der Walt – Genetic assessment of threatened native fishes in the Groot Marico River. Rhodes University. Supervisors: Ernst Swartz, Olaf Weyl
4. Brendon Dredge: Species composition and relative abundance of fishes in five Western Cape Dams and recommendations for a fisheries independent monitoring protocol.
5. Stuart Barrow - Evaluating impacts of an alien sport fish invasion in the Cape Floristic Region. University of Stellenbosch. Supervisors Karen Estler, Olaf LF Weyl, Martine Jordaan
6. Riaan van der Walt (MTech) – managing invasive fishes in the Cape Floristic Region.

## Graduates

### PhD

1. Henning Winker (2011) Post impoundment Development of a model for optimum economic use of inland fisheries. Rhodes University. Supervisor OLF Weyl, AJ Booth

### MSc

2. Geraldine Taylor (2013) Understanding largemouth bass populations in South Africa, Rhodes University
3. Carl Huchzermeyer (2013) Fish and fisheries of the Bangweulu floodplains Zambia, Rhodes University
4. Denis Appelhoff (2013) Parasitism communities on eels, Karlsruhe Institut fuer Technologie
5. Alexis Olds (2012) - Introduction pathways, distribution, abundance and movement of Alien invasive fish species in a South African RAMSAR wetland, Wilderness Lakes. Supervisors OLF Weyl, Kyle Smith
6. James McCafferty (2012)- Predicting dam productivity from angler data in South Africa
7. Richard Peel (2012)- Biology of large cichlid fishes in the Caprivi Region Namibia. University of Namibia.
8. Thethela Bokhutlo (2012) The biology and ecology of Clariid catfishes in the Okavango Delta. Rhodes University
9. Hylton Cecil Newcombe (2012) – Contribution to the development of a management plan for the baitboat and sport fishery for tuna in South Africa. Supervisors: W Sauer, OLF Weyl.
10. Hans Sloterdijk (2011) On the Distribution and Biological Characteristics of the Alien Mosquitofish (*Gambusia affinis*) in a South African Ramsar Wetland. University of Bremen, Germany. Supervisors: W. Ekau (Bremen); OLF Weyl (SAIAB), N James (SAIAB)
11. Ryan Wasserman (2011) An assessment of the importance of freshwater environments for young marine fish. Nelson Mandela Metropolitan University. Supervisors: N. Strydom & OLF Weyl

12. Mpho Ramoejane (2011) Phylogeography and conservation management of genetic lineages of *Labeo umbratus* and *L. capensis* (Cyprinidae) in South Africa. Supervisors: E Swartz, OLF Weyl.
13. Mthombeni VG (2010) The biology of *Austroglanis gilli* and *Austroglanis barnardi* (Siluriformes: Austroglanidae) in the Olifants River system, South Africa. MSc Rhodes awarded 2010. Supervisor OLF Weyl, R Bills.
14. Donovan B (2010) A re-assessment of the Port Alfred/Kenton-on-sea/Boknes commercial and recreational deep-sea linefishery, with respect to changes in the fisheries management environment. MSc Rhodes awarded 2010. Supervisors T. Hecht & OLF Weyl
15. Traas GRL (2009) The conservation and management of freshwater fishes in the Greater Addo Elephant National Park, Rhodes University. MSc Rhodes awarded 2009. Supervisor AJ Booth & OLF Weyl
16. Ellender BR (2009) The impact of angling on smallmouth and largemouth yellowfish in Lake Gariep, South Africa. MSc Rhodes awarded 2009. Supervisor OLF Weyl
17. Kanyerere GZ (2004) Age, growth and yield-per-recruit analysis of ndunduma *Diplotaxodon limnothrissa*, in the southeastern arm of Lake Malawi, Rhodes University. MSc Rhodes awarded 2004. Supervisors AJ Booth, OLF Weyl

### **BSc(Honours) projects supervised**

1. Roy Bealey (2011) Accuracy and precision in ageing *Oreochromis niloticus* from Lake Manyame, South Africa. Supervisor OLF Weyl
2. Geraldine Taylor (2010) The growth of largemouth bass *Micropterus salmoides* in Wriggleswade Dam, South Africa. Supervisor OLF Weyl
3. Kirsten Bray (2010) Comparative growth of invasive *Micropterus salmoides* in small reservoirs in the Eastern Cape. Supervisor OLF Weyl
4. Karl Huchzermeyer (2010) Post release behaviour of largemouth bass, *Micropterus salmoides* in Wriggleswade Dam, Eastern cape. Supervisors OLF Weyl, P Cowley
5. James McCafferty (2009) The movement patterns of *Clarias gariepinus* in Darlington Dam, Eastern Cape, South Africa. Supervisors OLF Weyl & AJ Booth.
6. Denham Parker (2009) A comparison of parasite prevalence, intensity and diversity in *Anguilla mossambica* and *Anguilla marmorata* in three river systems of the Eastern Cape. Supervisor OLF Weyl.
7. Reece Wartenberg (2009) A protocol for the mass marking of the small South African fish species *Glossogobius callidus* and *Gambusia affinis*. Supervisors AJ Booth & OLF Weyl.
8. Richard Peel (2009) Estimation of *Clarias gariepinus* Abundance in Darlington Dam, Eastern Cape, South Africa. Supervisors OLF Weyl & AJ Booth.
9. Shelley Moss (2009) The Dose-Response relationship of Rotenone and Antimycin A on gill-respiring and plastron-respiring invertebrates. Supervisors OLF Weyl & AJ Booth.
10. Ashley Grimmer (2008) Population dynamics, reproductive and feeding biology of the invasive western mosquitofish, *Gambusia affinis* (Bairs & Girard, 1953) in the Great fish River. Supervisors: O.L.F. Weyl , A.J. Booth, W. Potts
11. Kate Munnik (2008) The biology of the river goby *Glossogobius callidus*, in a man-made reservoir in the Great Fish River catchment. Supervisors: O.L.F. Weyl , A.J. Booth, W. Potts
12. David Churches (2008) Resource use overlap between juvenile fishes in the littoral zone of Lake Gariep, South Africa. Supervisors: O.L.F. Weyl , A.J. Booth, W. Potts
13. Matthew Richardson (2007) – Using stable isotope analysis and gut content analysis to determine trophic position and diet of fishes in the Great Fish River. Supervisors: A. Booth and O. Weyl. Funding JRC
14. Rosanne Thornycroft (2007) – Diet and trophic position of four fish species in Glen Melville Reservoir. Supervisors: O.L.F. Weyl and A.J. Booth. Funding JRC
15. Timothy Richardson (2007) – Rapid assessment of the fishery potential of Xonxa Dam near Queenstown, Eastern Cape. Supervisors: O.L.F. Weyl and A.J. Booth. Funding: Enviro-Fish Africa; Benguela Environment Fisheries Interaction and Training Programme
16. John Filmlter (2007) – The suitability of otoliths, vertebrae and opercular bones as hard parts for ageing yellowfin tuna (*Thunnus albacares*). Supervisors: O.L.F. Weyl and W. Sauer; Funding: Fresh Tuna Exporters Association, BENEFIT.
17. Bruce Ellender (2006) – Temporal and spatial distribution of *Oreochromis mossambicus* in the intermittently open East Kleinemonde estuary, South Africa. Supervisors: O. Weyl & Paul Cowley. Funding JRC & WRC
18. Graham Traas (2006) Estimating abundance of adult *Clarias gariepinus* in Glen Melville Reservoir. Supervisors: A. Booth and O. Weyl. Funding JRC
19. Hylton Newcombe (2006) Does *Micropterus salmoides* stunt in small farm dams? Supervisors: A. Booth and O. Weyl. Funding JRC

20. Mekondjo Shanyengange (2005) Relative abundance, spatial and temporal distribution of *Oreochromis mossambicus* in the East Kleinemonde estuary. Supervisors: O. Weyl & Paul Cowley. Funding JRC & WRC
21. Alexander Whitehead (2005) Reproductive and feeding biology of the fiery redfin *Pseudobarbus phlegethon* (Barnard: 1938) in the Noerdhoeks River, Olifants River System, Western Cape. Funder: Water Research Commission (K8 592), Rhodes University JRC.
22. Jeremy Cahill (2005) The validation of growth increment deposition in otoliths of *Labeobarbus aeneus*. Supervisor: Olaf Weyl. Funding: JRC

## Research Grants and Projects

WRC/KSA2- To understand the unintended spread and impact of alien and invasive fish species in order to develop mitigation and prevention guidelines

Period: 2011-2013

Value: ZAR 800,000 (SAIAB)

Researchers: OLF Weyl (SAIAB), E. Swartz, P. Kimberg (Golder)

AIM & research objectives: Conservation of indigenous and management of invasive alien fishes in the headwaters of the Groot Marico River (Northwest Province) and understanding and mitigating the unintentional spread of invasive fish through the Sundays River Irrigation scheme (Eastern Cape Province).

Bangweulu Wetlands Management Board/*African Parks - An assessment of the fish diversity, utilisation, monitoring and sustainable management in the Bangweulu Wetlands.*

Period: 2011-2012

Value: USD 30 179.00

Researchers: OLF Weyl (SAIAB), R Bills (SAIAB), C Huchzermeyer

AIM & research objectives: The primary objective of the proposed research programme is to undertake an assessment of the fish diversity, utilisation and develop recommendations for monitoring and sustainable management in the Bangweulu Wetlands.

NRF/Namibia- Ecology and management of the Caprivi floodplain fisheries

Period: 2010-2012

Value: ZAR 163000 (SA) + matching Namibia contribution (Namibia)

Researchers: Dr Olaf Weyl (SAIAB), Prof Edosa Omoregie (UNAM), Mr Richard Peel (UNAM), Mr Denis Tweddle (NNF/SAIAB), Dr Nicola James (SAIAB).

AIM & research objectives: The primary objective of the proposed research programme is to undertake research into the recolonisation of Lake Liambezi with fish in order to understand the dynamics of recolonisation and fish invasion processes in previously desiccated environments. The research results from this project will also develop the basis developing proactive response strategies to react to both natural (annual flood cycle fluctuations) and human-induced (fishing) changes in the fishery. This will provide information for best management practice in the floodplain fishery and allow for an assessment of the vulnerability of rural people to environmental change processes such as climate change.

SANPAD-10/06: Assessing impacts and benefits of alien fish introductions: Do biodiversity costs outweigh economic, food security and recreational benefits derived from alien fishes in South Africa?

Source: South African and Netherlands Partnership for Development (SANPAD)

Period: 2011-2013

Value: ZAR 668,000

Researchers: OLF Weyl (Project Leader); Q Rouhani (Rhodes – Community liaison and Policy); Prof. P Britz (Rhodes - Policy); Prof. J Snowball (Rhodes - Economics); Prof. N Smit (University of Johannesburg – Parasites); Prof. P Van Zwieten (Wageningen – Fisheries science); Prof. L Nagelkerke (Wageningen – Fisheries Science); Dr James G (Rhodes – Environmental Science)

Aim & research objectives: The overall aim of the project is to guide the emerging inland fisheries policy by undertaking comprehensive case studies of the social, economic, livelihoods and ecological consequences of stocking alien fishes to develop recreational, subsistence and commercial fisheries in man made water bodies in the Eastern Cape Province of South Africa. The research objective is to fully assess the impacts of alien fishes on the local economy, food security, employment provision and on the environment in seven man-made impoundments and their catchments in order to determine trade-offs between environmental costs and economic benefits. This information will then be used to develop a conceptual framework and methodology for predicting the impact of using alien fish species for enhancing the fisheries potential in inland fisheries.

SAIAB/UNAM - Comparative biology of four cichlid species in the Okavango, Kwando and Chobe/Zambezi River systems.

Source: Namibia Nature Foundation; Government of Namibia; University of Namibia

Period: 2010-2011

Value: approx. ZAR 200,000 with all contributions

Researchers: Dr Olaf LF Weyl (Principal Investigator); Prof. Edosa Omoregie (University of Namibia); Mr Richard Peel (MSc – candidate UNAM); Mr Evans Simasiku (Ministry of Fisheries and Marine Resources, Government of Namibia).

Aim & research objectives: Undertake biological assessments of four large cichlid fish species *Oreochromis andersonii*, *Oreochromis macrochir*, *Tilapia rendalli* and *Serranochromis r. jallae* in the Okavango, Kwando, Lake Liambezi and Zambezi/Chobe Rivers to provide information for fisheries management.

SAIAB/UNAM - Towards a holistic management strategy for the fisheries of the Zambezi River and Eastern Caprivi Floodplains.

Source: Namibia Nature Foundation; Nedbank Go-Green fund; Government of Namibia; University of Namibia

Period: 2010-2011

Value: approx. ZAR 200,000 with all contributions

Researchers: Dr OLF Weyl (SAIAB); Prof. E Omoregie (University of Namibia); Mr R Peel (MSc – candidate UNAM); Mr E Simasiku (Ministry of Fisheries and Marine Resources, Government of Namibia); ; Mr N Shampuba (Ministry of Fisheries and Marine Resources, Government of Namibia).

Aim & research objectives: to undertake research into the dynamics of floodplain fisheries and particularly into the re-colonisation of Lake Liambezi with fish in order to understand the dynamics of re-colonisation and fish invasion processes in previously desiccated environments. The research results from this project will also develop the basis developing proactive response strategies to react to both natural (annual flood cycle fluctuations) and human-induced (fishing) changes in the fishery. This will provide information for best management practice in the floodplain fishery and allow for an assessment of the vulnerability of rural people to environmental change processes such as climate change.

WRC/KSA-2: Monitoring of the impact and recovery of the biota of the Rondegat River after the removal of alien fishes.

Source: Water Research Commission

Period: 2010-2011

Value: approx. ZAR 196000

Researchers: Dr Olaf LF Weyl (SAIAB); Mr Roger Bills (SAIAB); Dr Darragh Woodford (contractor - SAIAB).

Aim & research objectives: Assess the impact of an alien fish eradication on the Rondegat River, Western Cape, on invertebrate and vertebrate communities and provide baseline data with which to assess recovery rates.

NRF/Germany- Parasitological and ecological research on South African eels

Source: National Research Foundation - SA/Germany Agreement on Cooperation in Science and Technology.

Period: 2010-2013

Value: approx. ZAR 288,000

Researchers: Dr Olaf LF Weyl (SAIAB) & Prof. Horst Taraschewski (University Karlsruhe)

Aim & research objectives: *To contribute to the development of proactive approaches to control and treatment of parasitic diseases in South African eels.* The specific objectives are: (1) to assess the current status parasite populations on *Anguilla mossambica* and *Anguilla marmorata* in South Africa by identifying parasites, describing new species if found, and quantifying intensity and prevalence; (2) provide critical baseline information against which to assess the effect of subsequent parasite invasions; (3) assess the longitudinal distribution of *A. mossambica* and *A. marmorata* in South African rivers and assess the effect of parasites on their ecology.

NRF: Phylogeny, evolution and hybridisation of the South African endemic *Labeo umbratus* (Pisces: Cyprinidae) group

Source: NRF Competitive Support for Rated Researchers

Period: 2010-2012

Researchers: Prof Horst Kaiser (RU – Projct leader); Dr OLF Weyl (co-investigator), Dr E. swartz (SAIAB – co-investigator)



Aim & research objectives: This project will study the molecular phylogeny, relationships, evolution and hybridisation risk of the *Labeo umbratus* group, an important South African freshwater fish group that is endemic to the Orange River basin or adjacent drainages and has been shown to hybridise as a result of the transfer of *Labeos* between river systems through inter-basin water transfers.

SANBI –Assessment of genetic diversity of *Pseudobarbus afer* and *Barbus pallidus* in the Sundays River and Swartkops River catchment to identify critical conservation areas within the Addo Elephant National Park, Eastern Cape.

Source: South African Biodiversity Institute

Researchers: Olaf LF Weyl (Principal), E. Swartz (SAIAB)

Period: 2008-2009; Value: R 47 500

Aim & research objectives: Assessment of genetic diversity of *Pseudobarbus afer* and *Barbus pallidus* in the Sundays River and Swartkops River catchment to identify critical conservation areas within the Addo Elephant National Park, Eastern Cape.

NRF/Focus area poverty alleviation (FA2005021600012) – An assessment of the fishery of Lake Gariep with particular reference to the development of a decision-making tool for the obtaining optimal social and economic benefit from harvests.

Source: NRF-Focus area

Principal Investigator: Olaf LF Weyl

Period: 2006 – 2008;

Value: R 400 000

Aim & research objectives: The overall aim of this research project is to use the Lake Gariep fishery as a case study for the development of a decision-making tool for the derivation of maximum economic and social benefit from the fisheries resource of large South African dams. Funding is intended to cover field expenses and student support for this project. The project also includes biological research into the fishes in the dam.

Addo Elephant National Park/ World Bank –Sundays River Freshwater Fish Research

Source: SAN-Parks

Researchers: Olaf Weyl (Principal Investigator), Collaborators: AJ Booth (RU), E Swartz (SAIAB), J Cambray (Albany Museum), A Bok (Consultant) Tim Andrew (EFA)

Period: 2007 – 2009; Value: R 347 000

Aim & research objectives: The overall aim of this research project was to develop a management plan for the freshwater fishes of the Greater Addo Elephant National Park based on assessments of indigenous and alien fish abundance, fisheries potential and mitigation measures.