



Member’s report on activities related to ICRI

Reporting period July 2012 - October 2013

1. **General Information** (note that this information will be posted on the ICRI website in your member page: <http://www.icriforum.org/about-icri/members-networks>)

Are you an ICRI Member?	Yes
Member type (Country / Organization):	South Africa
Focal Point 1:	
<i>Name:</i>	Prof M.H. Schleyer
<i>Organization:</i>	Oceanographic Research Institute
<i>Email:</i>	schleyer@ori.org.za
Focal point 2:	
<i>Name:</i>	Mr C. Coetzee
<i>Organization:</i>	Ezemvelo KwaZulu-Natal Wildlife
<i>Email:</i>	cedricc@kznwildlife.com
Last meeting attended:	Cairns, July 2012
Related website(s)	www.ori.org.za

2. **Updates on your activities** (new initiatives/programs/projects of your government /organization which will be of interest to the ICRI Members). Examples include MPA declarations, World Heritage sites status, economic valuation of reefs, policy changes in relation to coral reefs etc.

- An economic valuation of the Maputaland Coral Reef System in northern KwaZulu-Natal has been completed. It became clear in this study that the value of the ecosystem services of the reefs exceed that of human extractive and non-extractive use. A proposal has been submitted to expand the study into the East African region, embracing all reef types and usage and focusing on the associated management implications. The effects of exploitation and climate change will be factored into the model.
- Recreational diving on much of the largest reef in the central core area is intense and a study was undertaken to revise and disperse diving to sustainable levels in collaboration with the conservation authority.
- Ground-breaking work on functional genetic connectivity between the reefs has revealed that coral larval dispersal is restricted; the reefs are largely self-seeding and not well connected.
- Regional studies on the incidence and dynamics of coral diseases in the western Indian Ocean are approaching completion as well as of the reproductive success of selected coral species in terms of recruitment in the face of climate change.
- The above studies are allied with ongoing coral monitoring. New initiatives commenced in late-2012, linking coral responses to climate change in terms of their resilience and gene expression.

3. Contribution to the ICRI GM

Your responses to the following questions will assist the Secretariat in assessing contributions towards the major themes of the current ICRI action plan and objectives of the general meeting.

a. Community-based monitoring

Are you engaged in, or support community-based monitoring in your marine areas? If so, think about what works and what doesn't with it to be prepared for workshop discussions on this topic. The discussions will revolve around:

- The benefit of community-based monitoring for management and reporting
- Way forward and how countries could support each other through a network of persons involved in monitoring and an online database.

b. Co-management

Do you have co-management arrangements in place for your marine reserves? If so, start thinking about what they are, and what works for you in preparation for workshop and field trip discussions on this topic. There will be some interactive exercises to help guide your thinking and possible way forward.

4. Is there any other topic you would like to raise during the meeting?

YES NO

If yes, please indicate which topic and the reason why you would like to raise it:

[\[Insert text here\]](#)

5. Please list relevant publications, reports you have been released since the last meeting.

Title (incl. author and date)	Type of publication (Paper, report etc.)
SCHLEYER, M.H. 2011. Reef Ecosystems. In: Nicola James & Juliet Hermes (Editors). Insights into impacts of climate change on the South African marine and coastal environment. South African Environmental Observation Network: Elwandle Node: 33-41.	Book chapter
MASSE, L.M., CHABANET, P. AND SCHLEYER, M.H. 2013. Spawning behaviour in <i>Platygyra daedalea</i> off South Africa. <i>Galaxea</i> , Journal of Coral Reef Studies 15: 1-2.	Short note
MASSE, L.M., SERE, M.G., SMIT, A.J & SCHLEYER, M.H. 2012. Sexual reproduction in <i>Pocillopora damicornis</i> at high latitude off South Africa. <i>Western Indian Ocean Journal of Marine Science</i> 11: 55-65.	Paper
SÉRÉ, M.G., QUOD, J.P., CHABANET, P. & SCHLEYER, M.H. 2012. <i>Porites</i> white patch syndrome: An unreported coral disease on Western Indian Ocean reefs. <i>Coral Reefs</i> 31: 739.	Short note
ATEWEBERHAN, M., FEARY, D.A., KESHAVMURTHY, S., CHEN, A., SCHLEYER, M.H. & SHEPPARD, C.R.C. 2013. Climate change impacts on coral reefs: Synergies with local effects, possibilities for acclimation, and management implications. <i>Marine Pollution Bulletin</i> , http://dx.doi.org/10.1016/j.marpolbul.2013.06.011	Paper
SCHLEYER, M.H. (in press) New distributional record of the corallimorpharian, <i>Amplexidiscus fenestrafer</i> Dunn & Hamner, 1980, in the western Indian Ocean. <i>Galaxea</i> .	Short note
MONTOYA-MAYA, P.H., SCHLEYER M.H. AND MACDONALD A.H.H. (in press) Cross-amplified microsatellites for <i>Acropora</i>	Paper

<i>austera</i> . Genetics and Molecular Research .	
CHIAZZARI, B., MACDONALD A.H.H & SCHLEYER M.H. (in press) High latitude connectivity of the scleractinian coral, <i>Acropora tenuis</i> , in the south-western Indian Ocean, using nuclear intron and mitochondrial sequence data. African Journal of Marine Science.	Paper
SCHLEYER, M.H. & PEREIRA, M.A.M. (in press). Coral Reefs. In: BANDEIRA, S. & PAULA, J.P. (eds). The Maputo Bay Ecosystem.	Book chapter
SCHLEYER, M.H & FLOROS, C. 2012. A proposed dive site zonation plan for the Central Reef Complex at Sodwana Bay, iSimangaliso Wetland Park. Oceanographic Research Institute, Durban: 24 p. (ORI Unpublished Report 302).	Report
REDDY, M.M. 2013. Molecular phylogeny and population genetic structure of the shallow-water spiny lobster <i>Panulirus homarus</i> in the south west Indian Ocean region: Implications for management. MSc thesis, University of KwaZulu-Natal, Durban. 126 pp.	Thesis
LAING, S.C.S. 2013. An economic valuation of the coral reefs of Sodwana Bay, northern Kwazulu-Natal. M Comm thesis. University of KwaZulu-Natal, Durban. 109 pp.	Thesis

6. Please indicate upcoming coral reef-related meetings you or your organisation will attend

2nd Global Conference on Land - Ocean Connections (GLOC-2) October 2- 4 2013, Montego Bay, Jamaica

17th meeting of the Subsidiary Body on Scientific, Technical and Technological Advice (SBSTTA) of the Convention on Biological Diversity (SBSTTA-17), 14-18 October 2013 Montreal, Canada

2nd Global Marine World Heritage Site Managers Conference, 17-20 October 2013, Corsica, France

International Marine Protected Areas Congress, 21-27 October, Marseille, France

9th Pacific Island Conference on Nature Conservation and Protected Areas, 2-6 December, Suva, Fiji

Other:

Eighth Western Indian Marine Science Association Marine Science Symposium, 28 October – 2 November 2013, Maputo, Mozambique

8th International Conference on Coelenterate Biology (ICCB), 1-5 December 2013, Eilat, Israel