

Curriculum Vitae: Louis Celliers

Name: Louis Celliers
Date of Birth: 30 January 1971
Current Employer: German Climate Services Centre (GERICS)
Designation: Scientist
Nationality: South African
Relevant Work Experience: 20 years (1998)
Education: BSc (Agric) Microbiology (University of Pretoria) 1993
MSc (Agric) Microbiology (University of Pretoria) 1996
PhD in Marine Ecology (University of Natal) 2001
Other Training: Commercial Diver Class IV; Project Management; Strategic Leadership
Languages: English, Afrikaans (mother tongue)
Countries of Project Experience: South Africa, Mozambique, Tanzania, Namibia, Mauritius, Kenya, Germany, The Netherlands, Spain, Guadeloupe

Employment Record

Period	Description
June 2016 – ongoing:	<i>CSIR</i> (Semi-state): Principal Scientist- <i>CSIR</i> Natural Resources and the Environment.
April 2011 – June 2016:	<i>CSIR</i> (Semi-state): Dual role of Research Group Leader: Coastal Systems & Principal Scientist- <i>CSIR</i> Natural Resources and the Environment.
February 2011 - March 2011:	<i>CSIR</i> (Semi-state): Acting Competence Area Manager: Coasts & Marine - <i>CSIR</i> Natural Resources and the Environment
April 2010 – January 2011:	<i>CSIR</i> (Semi-state): Senior Researchers: <i>CSIR</i> - Natural Resources and the Environment
September 2008- April 2010:	<i>SSI Engineers and Environmental Consultants</i> (Private Sector): Specialist - Coastal Management. Appointed as Senior Consultant, resigned as Specialist.
March 1998 - August 2008:	South African Association of Marine Biological Research, <i>Oceanographic Research Institute</i> (NGO Research): Appointed as Assistant Scientist, Scientist, and resigned as Senior Scientist responsible for the Coastal Management research portfolio.
September 1995 - May 1996:	Scientist, ESKOM Technology Group, South Africa & Intech 180 Corporation, Utah, USA. Funded by ESKOM to advise on the viability of emerging fungal biotechnology that was the topic of my MSc thesis, and that was under development of a USA start-up company attached to the State University of Logan, Utah, USA.

Ongoing research interest: Socio-ecology, Trans-disciplinary research relating to reducing the pathway from science to policy; Integrated Coastal Management, Coastal and Marine Governance and Institutions, Climate Change Adaptation and Knowledge

Committees and Positions

Year	Description
2016-	GEO Blue Planet Steering and Management Committees (www.geoblueplanet.com). Scientific Committee for the Blue Planet Symposium, Washington DC, May 2017
2013-	Elected Board of Trustees of the Western Indian Ocean Marine Science Association (WIOMSA; www.wiomsa.org). WIOMSA is a regional professional, non-governmental, non-profit, membership organization, registered in Zanzibar, Tanzania. The organization is dedicated to promoting the educational, scientific and technological development of all aspects of marine sciences throughout the region of Western Indian Ocean The Association has about 1000 individual members as well as about 50 institutional members from within and outside the region.
2012-2017:	Elected South African Network for Coastal and Oceanic Research (SANCOR; http://sancor.nrf.ac.za): National Forum Representative. SANCOR is a non-statutory body that generates and communicates knowledge and advice in order to promote the wise and informed use and management of marine and coastal resources and environments.
2013-2017:	Vice-chair of SANCOR & Chairperson for 2016-17
2010-2017:	Science, Engineering and Technology Leadership group, Natural Resources and the Environment, CSIR. The SET leadership comprises a group of established and experienced research leaders who are the custodians of SET excellence within the Natural Resources and Environment business unit.
2011-2017:	Appointed CSIR representative to Working Group 8 (Oceans and Coasts) of the DEA Ministerial Technical Committee. WG8 is the legal equivalent of the National Coastal Committee as required by the Integrated Coastal Management Act.
Ongoing:	Convenor and member of the Scientific Committee of the Western Indian Ocean Marine Science Association Symposium (symposium.wiomsa.org)
Ongoing:	Standing member of the International Scientific Committee of the CoastGIS Symposium Series

Key Experience and Projects

Year	Description, client, role
2015-2020:	Development of an Oceans and Coastal Information Management System for South Africa & supporting coastal and marine SDI development. Developing Decision-support Tools for coastal management in South Africa. Department of Environmental Affairs. Coastal Decision Support Tools – Manager.
2014-2017:	<i>Emerging Knowledge for Local Adaptation</i> . A trans-disciplinary project of the Western Indian Ocean Marine Science Association, Marine Science for Management Grant. Project Manager and Primary Investigator.
2014-2017:	<i>Marie-Curie International Research Staff Exchange Programme</i> , European Union, Contract Manager and Primary Investigator
2011-2017:	<i>The Negotiation of Knowledge for Coastal Governance</i> . A trans-disciplinary project within the Global Change, Society and Sustainability Research Programme of the Department of Science and Technology managed by the National Research Foundation – Knowledge Fields Development. Primary Investigator
2013-2015:	<i>UNEP Regular Process for Reporting on the Marine Environment</i> . East African State of the Coast Report for Western Indian Ocean Marine Science Association on behalf of the Contracting Parties to the Nairobi Convention for the Protection, Management and Development of the Marine and Coastal Environment of the Western Indian Ocean. Lead Author and Author (Part V: Human Activities in the Coastal Zone)
2014:	<i>Scoping meetings for the IPBES regional and sub-regional assessments</i> : Nominated expert for the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES). Scoping meetings for the IPBES regional and sub-regional assessments 17-22 August, Paris, UNESCO headquarters. Scoping a set of regional/sub-regional assessments on biodiversity and ecosystem services – the first step towards implementing deliverable 2b of the IPBES work programme.
2011-2013:	Ecosystem-scale science supporting integrated planning and development in complex urban coastal systems, Parliamentary Grant, CSIR. Project Manager and Primary Investigator
2011-2013:	<i>South Africa Environmental Outlook</i> . Drafting of the coastal and marine chapter. Department of Environmental Affairs, Contributing Author
2010-2012:	<i>The Preparedness of Coastal Government and Governance for Climate Change</i> , Western Indian Ocean Marine Science Association. Project Management and Primary Investigator
2010:	Review of the a) Coastal Profile and b) Strategic Environmental Assessment of Namibia on behalf of NACOMA. Principal Investigator
2010:	<i>Coastal Management in the City of Cape Town</i> : An Institutional Assessment of the Roles and Responsibilities for Effective Governance. City of Cape Town. Primary Investigator
2009:	Development of an Estuary Management Protocol for the Isipingo Estuary. eThekweni Municipality. Principal Investigator
2009:	Risk Assessment for the Establishment of a Coal Transit Station at Mer Rouge, Port Louis, Mauritius. Central Electricity Board of Mauritius. Primary Investigator
2009:	Integrated Coastal Management Act 2008: Developing a Toolkit for Implementation. Primary Investigator

Conferences and Publications:

- Refereed papers:**
- von der Heyden S, Lukey P, Celliers L, et al (2016) Science to policy – Reflections on the South African reality. *S Afr J Sci* Volume 112:1–6. doi: 10.17159/sajs.2016/a0183
 - Celliers L, Colenbrander DR, Breetzke T, Oelofse G. (2015) Towards increased degrees of integrated coastal management in the City of Cape Town, South Africa. *Ocean and Coastal Management* 105:138-153
 - Celliers L, Rosendo S, Coetzee I, and Daniels G. (2013) Pathways of integrated coastal management from national policy to local implementation: enabling climate change adaptation. *Marine Policy* 39:72-86
 - Floros C, Schleyer MH, Naggs JQ & Celliers L. (2012) Baseline Assessment of High-latitude Coral Reef Fish Communities in Southern Africa. *African Journal of Marine Science*, 34(1), pp.55–69.
 - Olbers J, L Celliers and MH Schleyer. (2009) Zonation of the benthic communities on the subtropical Aliwal Shoal, Durban, KwaZulu-Natal, South Africa. *African Zoology*. 44:8-23
 - Schleyer MH, Kruger A and Celliers L (2008) Long-term community changes on a high-latitude coral reef in the Greater St Lucia Wetland Park, South Africa. *Marine Pollution Bulletin* 56:493-502
 - Celliers L, BQ Mann, AHH Macdonald and MH Schleyer (2007) A benthic survey of the rocky reefs off Pondoland, South Africa. *African Journal of Marine Science*. 29:65-77
 - Celliers, L & MH Schleyer (2007) Coral community structure and risk assessment of high-latitude reefs at Sodwana Bay, South Africa. *Biodiversity and Conservation*. DOI: <http://dx.doi.org/10.1007/s10531-007-9271-6>
 - Celliers L, R Bulman, T Breetzke & O Parak (2007) Institutional mapping of integrated coastal zone management in KwaZulu-Natal, South Africa. *Ocean Yearbook*. 21:365-404
 - Celliers L & MH Schleyer (2006) Behaviour and character of an *Acanthaster planci* (L.) aggregation in a high-latitude coral community in South Africa. *Western Indian Ocean Journal of Marine Science*. 5:105-113
 - Schleyer MH & L Celliers (2006) The coral reefs of Bazaruto Island, Mozambique, with recommendations for their management. *Western Indian Ocean Journal of Marine Science*. 28:535-551
 - Mann BQ, L Celliers, ST Fennessy, S Bailey, & AD Wood (2006) Towards the declaration of a large marine protected area: a subtidal ichthyofaunal survey of the Pondoland coast in the Eastern Cape, South Africa. *African Journal of Marine Science*.
 - Schleyer MH & L Celliers (2005) Modelling reef zonation in the Greater St Lucia Wetland Park for effective management. *Estuarine Coastal and Shelf Science*. 63:351-352
 - Celliers L, NC James, T Moffett & BQ Mann (2004) A strategic assessment of off-road vehicle recreational use areas in the coastal zone of KwaZulu-Natal, South Africa. *Ocean and Coastal Management*. 47:123-140.

**Books and
chapters
in books:**

- Bartlett, D. Celliers, L. (eds.) (2017) Geoinformatics for Coastal and Marine Management. CRC Press, New York. 413pp.
- Bartlett, D. Celliers, L. (2017) Geoinformatics for Applied Coastal and Marine Management. In: Bartlett, D. Celliers, L. (eds.) (2017) Geoinformatics for Coastal and Marine Management. CRC Press, New York. p.1-15.
- Celliers, L. (2015) Summary of Other Human Activities in the Coastal and Marine Environment. In: Paula, J. (ed.) The Regional State of the Coast Report: Western Indian Ocean, 2015: Chapter 31, 3p. United Nations Environment Programme/Nairobi Convention Secretariat.
- Celliers L, Ntombela C. (2015) Urbanisation, Coastal Development and Vulnerability, and Catchments. In: Paula J. (ed.) The Regional State of the Coast Report: Western Indian Ocean, July 2015: Chapter 29, 20p. United Nations Environment Programme/Nairobi Convention Secretariat.
- Julius Francis J, Celliers L, Rosendo S. (2015) Coastal and Marine Research and Capacity Building. In: Paula J. (ed.) Regional State of the Coast Report: Western Indian Ocean, Edited by José Paula, June 2015: Chapter 35, 53p. United Nations Environment Programme/Nairobi Convention Secretariat.
- Breetzke T, Moore L, Celliers L. (2016) Oceans and Coasts. In: 2012 2nd South Africa Environment Outlook. A report on the state of the environment., Chapter: 9, Publisher: Department of Environmental Affairs, pp.155-180
- Magnan A, Turley C, Al-Moghrabi A, Celliers L, et al. (2015) Governance, Governments and Legislation. 2015. In: Ocean Acidification Impacts on Coastal Communities, Chapter: 5, Publisher: Monaco Scientific Centre (CSM) and the Ocean Acidification International Coordination Centre (OA-ICC) of the International Atomic Energy Agency (IAEA), pp.4
- Rosendo S, Celliers L, and Mechisso M. (2014) Management of Maputo Bay. In: Bandeira, S. and Paula, J. (eds.), The Maputo Bay Ecosystem. WIOMSA, Zanzibar Town, pp. 187-206.
- Celliers L, Breetzke T, Moore L & Malan D. (2009) A User-friendly Guide to the Integrated Coastal Management Act of South Africa. Department of Environmental Affairs and SSI Engineers and Environmental Consultants, 100pp.
- Breetzke T, Parak O, Celliers L. Mather A. & Colenbrander A. (2009) 'Living with Coastal Erosion': Steps That Might Be Taken, Based on the KwaZulu-Natal Best Practice Response. In: International Environmental Law-making and Diplomacy Review 2008 (Ed Couzens and Tuula Honkonen (editors), University of Joensuu – UNEP Course Series 8, University of Joensuu, Joensuu, Finland, 2009, p219-228.

- Conference papers:**
- Celliers L, Malan N, Taljaard S, van Niekerk L, Luck-Vogel M. (2013) A Structured Model to Enable Coastal and Marine Spatial Planning in South Africa. CoastGIS 2013 in Victoria, Canada
 - Celliers L, Hugo W, Malan N. (2011) Coastal Spatial Data Infrastructure in South Africa: the needs of a transforming society in a developing country. CoastGIS 2011 in Oostende, Belgium
 - Breetzke T, O Parak, L Celliers, A Mather, DR Colenbrander (eds.) (2008) Living with coastal erosion in KwaZulu-Natal: a short-term, best practice guide. KwaZulu-Natal Department of Agriculture and Environmental Affairs, Cedara, Pietermaritzburg: 13pp (This guide was recently presented as a paper at IAIAsa 2008 conference where it was awarded best paper)
 - Celliers L, T-L Duthie, DR Colenbrander (2007) Progress towards integrated coastal management in KwaZulu-Natal, South Africa: is the harvest ready? International Symposium on Integrated Coastal Zone Management 11-14 June 2007, Arendal, Norway.
 - Celliers L, RA Longhorn, K Lance, M Odido (2006) Coastal spatial data infrastructure (CSDI): African requirements and responses. Map Africa 2006, Sandton, South Africa, 20-22 November 2006. Oral Presentation.
 - Celliers L, J Francis, M Osore, J Paula, BI Everett & P De Bruyn (2005) The development of databases and data-systems in the Western Indian Ocean area. Fourth Western Indian Ocean Marine Science Association (WIOMSA) Scientific Symposium: Contribution of research in improving human welfare and poverty alleviation, Grande Baie, Mauritius, 30 August – 1 September 2005. Oral presentation.
 - Celliers L, P Pradervand & T Moffett (2004) Boat launch sites and the impact on coastal and marine resources along the coast of KwaZulu-Natal, South Africa. In Green et al. (ed) Delivering Sustainable Coasts: Connecting Science and Policy, Littoral 2004, 20-22 September 2004, Aberdeen Scotland. Conference Proceedings 1:371-376.
 - Celliers L, MH Schleyer & P Zammit (2003) Coral information management and dissemination. Bioinformatics Workshop, Seventh International Conference on Coelenterate Biology, Lawrence, Kansas, 6-11 July 2003, Lawrence, Kansas, USA.
- Unpublished Reports:**
- Celliers L. (2016) A Case for Marine Spatial Planning in the Blue Economy of the Western Indian Ocean. Western Indian Ocean Marine Science Association and the Nairobi Convention Secretariat. 30pp.
 - Celliers L. (2016) Progress on the Establishment of Ocean Policies, the Blue Economy and Marine Spatial Planning in the Western Indian Ocean. Western Indian Ocean Marine Science Association and the Nairobi Convention Secretariat. 15pp.
 - Taljaard S, Celliers L, Audouin M, Van Niekerk L, and Luck-Vogel M (2013) A case to Incorporate Coastal and Marine Spatial Planning into South Africa's Integrated Coastal Management Framework. Version 1. CSIR Report No CSIR/NRE/ECOS/IR/2013/0001/A. Stellenbosch.
 - Glassom D, L Celliers, R van der Elst, T-L Winson, DR Colenbrander (2008) Regional assessment of marine and coastal ecosystem services and poverty alleviation: Western Indian. Oceanographic Research Institute Unpublished Report, Durban.
 - Celliers L, MH Schleyer, AHH Macdonald, D Glassom, P De Bruyn, S Bailey (2008) A benthic survey of the subtidal reef communities of Richards Bay prior to dredge spoil disposal. Oceanographic Research Institute Unpublished Report 262, Durban: 44pp.

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