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*Coral Reefs, Oceans
Climate Resilience/Adaptation - Evolution/biogeography
Management and policy for sustainability at scale*

*Coastal Oceans Research and Development
in the Indian Ocean (CORDIO East Africa)
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Personal mission – as an individual and scientist with a passion for oceans and biodiversity, and bridging the developing and developed worlds, to play my part in moving people, organizations and countries to greater sustainability.

Principal research interests and application to policy and management:

	Research/research support	Application to policy & management	Strategy, outreach and innovation
Corals, reefs & climate	Coral and reef ecological resilience, reef recovery dynamics, coral life history strategies and climate change impacts.	Hazard forecasting related to short term climate variability, building adaptive capacity, planning for regional scale conservation and management.	I participate in multiple ocean fora and working groups, principally at regional and global levels, providing an African and developing country perspective on biodiversity, nature conservation, sustainability and development issues.
Evolution & biogeography	Evolutionary history and biogeography of corals and coral reefs in the western and northern Indian Ocean.	Regional scale planning for marine conservation and sustainable use of marine natural resources.	Being a science and sustainability communicator on coral reefs and oceans, I increasingly play a role in bridging gaps and building partnerships for large scale and long term conservation.
Livelihoods & adaptation	Resource use, perceptions and sustainability in relation to climate variability and change.	Building capacity for adaptation to climate change to enhance food and livelihood security.	The increasingly complex and pressing social and ecological issues require innovations in thought and practice, and harnessing the power of ICT and big data, my 'near future' in personal and professional development.

These are implemented through the following roles and collaborations

CORDIO	<p>1999 to date. <i>Founding Director of CORDIO East Africa.</i> CORDIO's activities include primary research, monitoring and coordinating partners in studies on the implications of coral bleaching and mortality on coral reef biophysical and socio-economic parameters, biogeography of coral reef species, fish ecology and reef fisheries, and using this knowledge in conservation planning, fundraising, and capacity building for coral reef science in the Western Indian Ocean.</p> <p>CORDIO is a member of the Consortium of NGOs for the Conservation of the Western Indian Ocean (www.wio-c.org). We are the smallest member, and the only one that is purely regional and focused on ocean research and conservation. As the Founding Director of the organization, I use this as a strong platform for engagement in regional marine issues, such as under the Nairobi Convention (the Regional Seas convention) and in relation to countries and national and international partners.</p>
IUCN	<p>International Union for the Conservation of Nature:</p> <p>2008-present. <i>Commissions – Chair, Coral Specialist Group and Member, Marine Conservation Sub-Committee (MCSC), Species Survival Commission.</i></p> <p>2006-2012. <i>Programme – Chair, Working Group on Climate Change and Coral Reefs.</i> Global Marine Programme.</p> <p>1999 to present – <i>East Africa Marine programme – partner and contributing member, Membership – CORDIO East Africa is a member since 2008.</i></p>
High Level Panels and Working Groups	<p>2014-2017. <i>Steering Committee, bioDISCOVERY (FutureEarth/DIVERSITAS), 3 yr appointment.</i></p> <p>2014-ongoing. <i>GOOS BioEco – Global Ocean Observing System Biodiversity and Ecosystems Panel.</i></p> <p>2014- ongoing. <i>MPA Action Group, a grouping of NGOs and Foundations aligning messages and communications to support MPA expansion and enhancement globally, led by WWF Netherlands, Adessium Foundation.</i></p>

	<p>2013-2014. <i>Global Partnership for Oceans Blue Ribbon Panel</i>, to identify principle and criteria for investments for the GPO. See https://globalpartnershipforoceans.org/</p> <p>2012-ongoing. <i>GEOBON Oceans working group</i> (#5).</p> <p>2005-2009. <i>World Bank-GEF – Coral Reef Targeted Research and Capacity Building project</i>. Member of the Bleaching Working Group.</p>
Phoenix Islands Protected Area (PIPA), Kiribati	<p>2000 ongoing, <i>Senior Research Associate</i>, Global Marine Programs, New England Aquarium, USA. Chief scientist on coral reef and marine biodiversity surveys of the Phoenix Islands leading to designation of the 2nd largest MPA and largest World Heritage site in the world, and endowment funding for conservation.</p>
Kwetu Training Centre	<p><i>Board member since 2000</i>. Chairman of the Board 2007-2015. A non-profit-making NGO providing training and applied research on sustainable livelihoods in rural coastal areas.</p>

Education and employment

Academic	<p><i>Doctor of Philosophy (Ph.D.)</i>, Univ. of Miami, USA, 1995. Division of Marine Biology and Fisheries, Rosenstiel School of Marine and Atmospheric Science (RSMAS). Dissertation title: Environmental Stress and Life History Strategies, a Case Study of Corals and River Sediment in Malindi, Kenya. Advisor: Dr. Peter W. Glynn.</p> <p><i>Bachelor of Arts (B.A.) with Honours</i>, Harvard University, USA, 1989. Biology Department. Thesis with Highest Honours.</p> <p><i>International Baccalaureate (Distinction)</i>. Lester B. Pearson United World College of the Pacific. 1983-85. CIDA fellowship.</p>
Past positions	<p>2006-09. <i>Adjunct Senior Lecturer</i>, Faculty of Biological and Chemical Sciences (Centre for Marine Studies), University of Queensland. Brisbane, Australia.</p> <p>1997–98. <i>Research Fellow</i>, Coral Reef Conservation Program, Mombasa, Kenya</p> <p>1995–96. <i>Senior Conservation Associate</i>, New England Aquarium, Boston, USA</p>
Awards	<p>2007. <i>Fellow of the Western Indian Ocean Marine Science Association</i></p>

Experience

Principal projects (current)	<p>2009 ongoing. <i>Northern Mozambique Channel Initiative</i>. Strategic Advisor with WWF (since 2014) leading the development of a regional initiative for sustainable use and development based on valuation and management of core assets. For CORDIO, this project grew out of a research project “<i>Is there a Western Indian Ocean “coral triangle?”</i>” funded by the WIOMSA Marine Science for Management programme (2008-11), leading to close engagement with the WWF Madagascar and Western Indian Ocean Islands programme (MWIOPO) and WWF International’s Global Marine Programme (www.cordioea.net/nmc). <i>Northern Mozambique Channel initiative</i>.</p> <p>2015 ongoing. <i>Global Coral Reef Monitoring Network (GCRMN)</i>: Strategic leadership bringing together four main constituencies to strengthen global reporting on coral reef health: the coral reef conservation and monitoring community (ICRI/GCRMN); the biodiversity management and conservation community (represented by the IUCN members and commissions); the coral reef science community (ICRS/ISRS) and the global observation science community (GOOS /GEOBON). A 4-year action plan (2017-2020) is being developed in 2016, to identify how to bring these communities together and build commitment for concerted action to report on Aichi Target 10, and thereafter, on the Sustainable Development Goals.</p> <p><i>Global Coral Reef Monitoring Network in the Western Indian Ocean (GCRMN-WIO)</i>: Ongoing consultancies (2013 to present) with the Indian Ocean Commission ISLANDS and Biodiversity projects, to support regional capacity and coordination for coral reef monitoring. Primary output will be a regional GCRMN report for the WIO, in 2016.</p> <p><i>Coral reef resilience and health</i>. Science to management, measuring resilience, advice to management partners and NGO/INGOs, Marine Spatial Planning. Multiple projects in which CORDIO is a partner (Kenya, Djibouti, Mozambique Channel countries), with IUCN, ICRAF (International Centre for Research in Agroforestry) and IRD (Institute for Research for Development, France).</p> <p><i>Coral bleaching forecasting for the Western Indian Ocean</i>. Principal investigator, CORDIO, and developing partnership with WIOMSA, UNESCO-IOC, IGAD-GHACOF, SERVIR Africa.</p>
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Adapting to climate change – coping with short term climate variability through seasonal forecasting of climate-related hazards, and use of climate adaptation information in Local Government. CORDIO, CSIR (South Africa), Kenya Meteorological Dept, U. of Cape Town and other partners. WIOMSA-MASMA.

For indication of past projects, see publications list

Science to policy and management (Climate change, reef resilience)	<p>2011-ongoing. <i>Marine World Heritage</i>. An ongoing role with the Marine Programme of UNESCO's World Heritage Centre and IUCN's World Heritage programme, starting with a study of potential marine World Heritage sites in the Western Indian Ocean, author of IUCN thematic guidance on expanding marine World Heritage globally, and advisory/contributor role in projects on mWH in the Arctic and the High Seas</p> <p>2011 June. <i>ASCLME/SWIOFP</i> (Agulhas-Somali Current Large Marine Ecosystems project/South West Indian Ocean Fisheries Project) Science to Governance workshop, South Africa.</p> <p>2011 June. <i>WIOMSA COMPASS</i> Resource person in MPA managers course/accreditation.</p> <p>2010 May. <i>UNEP/HABITAT Cities and climate change project</i>. Climate change sensitisation workshop for Mombasa Municipal Council.</p> <p>2009 July. <i>Royal Society/Zoological Society of London/IPSO</i> – expert meeting and statement on “The coral reef crisis: addressing the threats of climate change & ocean acidification”</p> <p>2009 May. <i>International Marine Conservation Congress</i>, Washington DC. Three sessions on reef resilience assessments and their application in management.</p> <p>2009 January. <i>Regional Consultation Meeting</i> on the Development of the Global Climate Change Adaptation Network In Africa. UNEP Nairobi.</p> <p>2009-ongoing – <i>Reef resilience training</i>. Participation in The Nature Conservancy-led managers training and capacity building in using resilience principles in management (technical role, workshops in Kenya, Sri Lanka, Indonesia, Zanzibar).</p> <p>2008 October – <i>IUCN Conservation Forum and Congress</i>. Three forum sessions on reef resilience, management and climate change, and drafting of IUCN Resolution 4.080 “Mobilizing action to build resilience and assist adaptation to climate change of coral reefs and marine ecosystems and people that depend on them”</p> <p>2008 January. <i>Madagascar national vulnerability assessment</i> for marine and terrestrial biodiversity. WWF-US and Conservation International, funded by Macarthur Foundation.</p> <p>2006 November. <i>IUCN Delegation</i> to 12th Conference of Parties of the United Nations Framework Convention on Climate Change. Nairobi, Kenya.</p> <p>2006 June. <i>Global Symposium for Africa 2006</i>. Impacts of climate change on marine ecosystems and fisheries. Conservation International. Tananarive, Madagascar</p> <p>2006 April. <i>GBIF conference</i>. Climate change impacts on African tropical marine biodiversity – Cape Town, South Africa.</p> <p>2005 October. <i>Climate change impacts on tropical marine biodiversity</i> - current trends and potential scenarios for scleractinian corals. Climate Change & Biodiversity in Africa. Royal Society/Natural History Museum/South African National Biodiversity Institute.</p> <p>2003 October. <i>Resilience, coral bleaching and MPA design</i>. Plenary address, WIOMSA Third Scientific Symposium, 15th - 18th October 2003. Maputo, Mozambique</p> <p>2003 October. <i>World Parks Congress, IUCN</i>, Durban, South Africa. Two Sessions: 1) Adaptive responses for nature conservation to climate change: Linkages in the Landscape; 2) Building protection of bleaching resistant sites into MPA networks: The Next 20 Years and Beyond: Incorporating Resilience into MPA Design and Management.</p>
Science-policy communications	<p>2015. <i>GEOBON Book chapter</i> - Methods for the observation of marine biodiversity</p> <p>2013-14. <i>World Ocean Assessment</i>, contributing author to Chapters 34 and 35</p> <p>2013-14. <i>Western Indian Ocean State of the Coast report</i>, Chapters 29-33</p> <p>2011. <i>GEO-5 Report</i>: Contributing Author for Chapter 2: Options for Africa</p> <p>2007. <i>State of the Environment, Coast, Kenya</i>. Member of core team.</p> <p>2006. <i>IPCC</i>. Expert reviewer - WGII Fourth Assessment report</p> <p>2006. <i>GEO-4 Report</i>. Peer reviewer – Global Environment Outlook report.</p> <p>2002-3. <i>GIWA (Global International Waters Assessment) 2002-3</i> – member of Somali Coastal Current subregion team.</p>
Community-	<p>2011. <i>Biodiversity and natural resource monitoring</i>. Community Conservation Areas project with</p>

based research and action, raising awareness and adult education	<p>East African Wildlife Society. Darwin Initiative.</p> <p>2007-10. <i>Development of participatory adult education</i> model combined with capacity building for sustainable livelihoods and ICT4D. SPIDER, Sweden.</p> <p>2007-9. <i>Kuruwitu Conservation Area</i>. Technical support, natural resource monitoring.</p> <p>2001 – ongoing. <i>SocMon WIO</i> - support to development and implementation of the Socioeconomic monitoring programme of the western Indian Ocean, with NOAA/SocMon global/GCRMN.</p> <p>1999-2006. <i>Participatory monitoring of fisheries</i>, Diani-Chale area, Kenya. CORDIO</p> <p>1997-98. <i>Participatory monitoring and indigenous knowledge mapping</i>, south coast, Kenya. MacArthur Foundation/AAAS</p>
Methods and manuals	<p>2014. Coral reef monitoring manual for the SW Indian Ocean islands Global Coral Reef Monitoring Network</p> <p>2009. A Framework for Social Adaptation to Climate Change, combining elements of the SocMon programme and social-ecological resilience concepts. IUCN working group on Climate Change and Coral Reefs. IUCN, Gland, Switzerland (Marshall et al. 2009)</p> <p>2007-9. <i>Resilience Assessment of coral reefs</i>. An assessment protocol for coral reefs, focusing on coral bleaching and thermal stress. IUCN working group on Climate Change and Coral Reefs. IUCN, Gland, Switzerland. Obura, D.O. and Grimsditch, G. (2009). www.iucn.org/cccr/publications. 70 pages. ISBN: 978-2-8317-1151-5</p> <p>2005. Manual and guidelines for assessing Tsunami Damage to Coral Reefs. International Coral Reef Initiative/International Society for Reef Studies</p>
Environmental Appraisals/ Impact Assessments	<p>Critical appraisals</p> <p>2015. <i>Independent review of EIA for Lamu Port development, 1st phase (LAPSET Corridor project)</i>. EIA on the first 3 berths of the Lamu Port, conducted by HezTech Engineering Services for the Ministry of Transport, February 2013. Expert witness in High Court Case brought by Save Lamu/Katiba Institute.</p> <p>2015. <i>Independent review of EIA for Sand Harvesting on coral reefs, Kwale County</i>. EIA conducted by Africa Waste and Environment Management Centre for the China Road and Bridge Corporation, March 2015.</p> <p>2014-5. <i>Independent review and expert witness of Whale Shark Adventures/Seaquarium</i> EIA on capture and captivity of whale sharks at Tiwi, Kenya. Critique contributed to rejection of EIA. Expert witness in ongoing National Environment Tribunal (Kenya) case.</p> <p>2013. <i>Contributor, evaluation of the EIA for Anadarko/ENI on natural gas</i> mining and an onshore plant in Palma Bay, northern Mozambique. Led by IUCN.</p> <p>2009. <i>Expert witness of Blazer Watamu</i> development plans, to National Environment Tribunal, Kenya. Critique contributed to revocation of EIA licence.</p>
	<p>EIA leader</p> <p>2011 <i>Project leader, East African Wildlife Society</i>. EIA of Community Conservation Area management plans.</p> <p>2007-11 <i>East Africa Submarine Cable</i> project (EASSy), TEAMS and LION2 submarine cable projects, Telkom Kenya.</p> <p>1999 <i>Baseline Ecological surveys and EIA of TIOMIN Resources Inc.</i>, Kenya. Coast Environment Services, South Africa</p> <p>1997 <i>Mombasa Wastewater Ocean Outfall</i>–Environmental Assessment. World Bank.</p> <p>1994–95 <i>Rapid Biodiversity Resource Appraisal</i>, Canberra. World Bank–GEF/AusAID.</p>
Student supervision	<ol style="list-style-type: none"> 1. Obed Matundura; MSc; University of Nairobi, Kenya. 2015-16; co-supervisor; climate 2. Benjamin Cowburn; PhD; Oxford University; UK; 2012-ongoing; co-supervisor; Biological 3. Juliet Furaha; PhD; Academia Sinica; Taiwan; 2012-ongoing; co-supervisor; Biological 4. Estelle Crochelet; PhD; Univ. of Reunion. 2015. Thesis reviewer; Biological. 5. Josphine Mutiso; Masters; Pwani University; Kenya; 2013-ongoing; co-supervisor; Biological 6. Innocent Wanyonyi; PhD; Kalmar University; Sweden; 2009-ongoing; co-supervisor; Biological 7. Sander den Haring; PhD; James Cook University; Australia; 2013; co-supervisor; Social 8. Oscar Henrikson; PhD; Stockholm University; Sweden; 2011; support; Biological 9. Michael Olendo; Masters; VLIR; Belgium; 2009; co-promoter; Biological

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10. Sarah Ater; Masters; Newcaslte University; UK; 2008; support; Social
 11. Cosmas Munga; Masters; VLIR; Belguim; 2008; co-promoter; Biological
 12. Juliet Furaha; Masters; Moi University; Kenya; 2008; co-supervisor; Biological
 13. Stephen Mangi; PhD; York University; UK; 2008; support; Biological
 14. Petra Souter; PhD; Stockholm University; Sweden; 2007; support; Biological
 15. Sangeeta Mangubhai; PhD; Southern Cross University; Australia; 2006; support; Biological
 16. Shakil Visram; PhD; York University; UK; 2006; support; Biological
 17. Innocent Wanyonyi; Masters; Newcaslte University; UK; 2005; support; Social
 18. Rennatus Mdodo; Masters; University of Georgia; USA; 2000; support; Biological
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Regional experience

Regions	<p><i>Indian Ocean</i> – Kenya, Mozambique, Tanzania, Seychelles, Comoros, Mayotte, Scattered Islands (France), Madagascar, South Africa, St. Brandons island, Chagos, Myanmar.</p> <p><i>Red Sea/Gulf of Aden</i> – Saudi Arabia, Djibouti, Somaliland.</p> <p><i>Pacific Ocean</i> – Kiribati (Phoenix Islands, Line Islands), Fiji, Galapagos islands (Ecuador).</p>
Survey and research expeditions	<p>2016 Mayotte and Europa, French territories and Iles Eparses in the Mozambique Channel (IRD SIREME project)</p> <p>2015 Quirimbas archipelago, northern Mozambique. Reef health assessments for Our Seas Our Life project (w. Zoological Society of London and Fauna and Flora International).</p> <p>2015 Pate/Lamu archipelago, Kenya. With The Nature Conservancy/Northern Rangelands Trust – Coast. Reef resilience and status in support of Community Conservation Areas.</p> <p>2014 Djibouti. Coral reef assessment for seascape conservation planning.</p> <p>2014 Myeik Archipelago, Myanmar, with Fauna and Flora International. Coral diversity and resilience assessment.</p> <p>2014 Pristine Seas/National Geographic expedition to Inhambane/Bazaruto, Mozambique</p> <p>2014 SeaKeys expedition to Sodwana Bay reefs, iSimangaliso Wetland Park, South Africa.</p> <p>2011 Quirimbas archipelago to Nacala, northern Mozambique. CORDIO/WIOMSA program on the WIO center of diversity.</p> <p>2011 Scattered Islands (Mozambique Channel – Glorieuse & Tromelin), France. Resilience assessments and coral biogeography.</p> <p>2010 Tara Oceans, coral reef resilience scientist – Djibouti, St. Brandons (Mauritius), Mayotte.</p> <p>2010 Conservation International Marine Rapid Assessment and Climate resilience study of northeastern Madagascar. Lead scientist. Conservation International.</p> <p>2009 Southern Line Islands, Kiribati. Invited expert, National Geographic Society.</p> <p>2009 Farquhar atoll, resilience assessment. National Geographic Society.</p> <p>2008 Climate change vulnerability surveys of the Nosy Hara marine park, northwestern Madagascar. WWF Madagascar</p> <p>2008 Saudi Arabian Red Sea. Living Oceans Foundation.</p> <p>2008 Seychelles resilience assessments. Aldabra atoll, Amirantes group. IUCN/ICS</p> <p>2007, 2009 Climate change vulnerability surveys of the Mafia Island Marine Park and Songosongo archipelago, Tanzania. WWF/GEF.</p> <p>2006 Chagos Archipelago, Indian Ocean</p> <p>2005 Northern Line Islands, Kiribati/USA. Invited expert, Scripps Institution of Oceanography.</p> <p>2005 Mayotte, GIS/Lag-May expedition to western barrier.</p> <p>2005 Seychelles - Tsunami impact assessment, UNEP/IUCN/CORDIO.</p> <p>2004 Mafia Island Marine Park. Coral biodiversity surveys, WWF Tanzania.</p> <p>2003 Mnazi Bay Marine Park, Tanzania. Baseline ecological surveys. IUCN/TMPRU</p> <p>2003 Pemba, Mozambique. Coral biodiversity surveys, CORDIO.</p> <p>2002 Cosmoledo atoll, Seychelles. CORDIO/ICS/Environment Dept, Seychelles</p> <p>2000, 2002, 2005 & 2009. <i>Phoenix Islands</i>, Kiribati. Establishing and leading the development of the Phoenix Islands Protected Area (PIPA), and the PIPA Science programme.</p> <p>1998-2007 (annual). Kiunga Marine Reserve, Kenya, WWF and Kenya Wildlife Service.</p> <p>1998 Djibouti. IUCN</p> <p>1998 Masoala Peninsula, Wildlife Conservation Society</p> <p>1997 Saad ed Din islands, Somaliland. IUCN</p> <p>1996 Galapagos Marine Survey #2.</p>

Languages

English (fluent); French (working); Swahili, Spanish (basic)

Publications

Policy documents (high level)

1. Obura, D. et al. (2016). Reviving the Western Indian Ocean Economy: Implementing the SDGs to sustain a healthy ocean economy. WWF International, Gland, Switzerland.
 2. Obura DO, Burgener V, Ralison HO, Scheren P, Nuñez P, Samoily M, Waruinge D, & John Tanzer J (2016) The Northern Mozambique Channel – a capitals approach to a Blue Economy future. IN: Handbook on the Economics and Management for Sustainable Oceans. Editors: Lisa Emelia Svansson, Paulo A.L.D. Nunes, Pushpam Kumar and Anil Markandya. Publisher: Edward Elgar Publishing (UK).
 3. Freestone, D. et al. (2016) World Heritage in the High Seas: An Idea Whose Time Has Come. World Heritage Centre reports, #44, United Nations Education, Science and Cultural Organization (UNESCO). ISBN 978-92-3-100159-8. 79 pp.
 4. Hoegh-Guldberg O. et al. (2013) Indispensable Ocean. Aligning ocean health and human well-being. Guidance from the Blue Ribbon Panel to the Global Partnership for Oceans
 5. Abdulla, A., Obura, D., Bertzky, B. and Shi, Y. (2013). Marine Natural Heritage and the World Heritage List: Interpretation of World Heritage criteria in marine systems, analysis of biogeographic representation of sites, and a roadmap for addressing gaps. IUCN, Gland, Switzerland
 6. Obura, D.O., Church, J.E. and Gabrié, C. (2012). Assessing Marine World Heritage from an Ecosystem Perspective: The Western Indian Ocean. World Heritage Centre, United Nations Education, Science and Cultural Organization (UNESCO). 124 pp.
- Peer reviewed**
7. Costello M.J., Basher Z., McLeod L., Asaad I., Claus S., Vandepitte L., Yasuhara M., Gislason H., Edwards M., Appeltans W., Enevoldsen H., Edgar G.J., Miloslavich P., De Monte S., Pinto I.S., Obura DO, & Bates A.E. (2016) Methods for the Study of Marine Biodiversity. The GEO Handbook on Biodiversity Observation Networks (ed. by M. Walters and R.J. Scholes), pp. 129–163. Springer International Publishing, Cham.
 8. Obura, D. O. (2016), An Indian Ocean centre of origin revisited: Palaeogene and Neogene influences defining a biogeographic realm. *Journal of Biogeography*. 43:229–242 doi: 10.1111/jbi.12656.
 9. Crochelet E, Roberts J, Lagabrielle E, Obura DO, Petit M (2016) A model-based assessment of reef larvae dispersal in the Western Indian Ocean reveals regional connectivity patterns – Potential implications for conservation policies. DOI: 10.1016/j.rsma.2016.06.007
 10. Smith JE, Brainard R, Carter A, Grillo S, Edwards C, Harris J, Lewis L, Obura DO, Rohwer F, Sala E, Vroom PS & Sandin S. (2016) Re-evaluating the health of coral reef communities: baselines and evidence for human impacts across the central Pacific. *Proc. R. Soc. B* 283: 20151985. <http://dx.doi.org/10.1098/rspb.2015.1985>
 11. Macharia D, Grimsditch G, Abdulla A, and Obura D. (2016) Mapping Factors That Contribute to Coral Reef Resilience Using In situ and Satellite Data in East Africa. In: S. Diop et al. (eds.), *Estuaries: A Lifeline of Ecosystem Services in the Western Indian Ocean*, *Estuaries of the World*, DOI 10.1007/978-3-319-25370-1_16. Pp. 259-277
 12. Snelgrove, Paul, & 28 others (incl. D. Obura) (2016) Global Patterns in Marine Biodiversity. In: *The First Global Integrated Marine Assessment - World Ocean Assessment*). Chapter 34. (Coordinators) Lorna Inniss and Alan Simcock The Group of Experts of the Regular Process. C. United Nations. http://www.un.org/Depts/los/global_reporting/WOA_Reg_Process.htm
 13. Miloslavich, Patricia & 41 others (incl. D. Obura) (2016) Extent of Assessment of Marine Biological Diversity. In: *The First Global Integrated Marine Assessment - World Ocean Assessment I*). Chapter 35. (Coordinators) Lorna Inniss and Alan Simcock The Group of Experts of the Regular Process. C. United Nations. http://www.un.org/Depts/los/global_reporting/WOA_Reg_Process.htm
 14. Chabanet P., Bigot L., Nicet J.B., Durville P., Massé L., Mulochau T., Russo C., Tessier E., & Obura D.O. (2015) Coral reef monitoring in the Iles Eparses, Mozambique Channel (2011-2013). *Acta Oecologica*, 1–10.
 15. Obura DO, Burgener V, Ralison HO, Scheren P, Nuñez P, Samoily M, Waruinge D, & John Tanzer J (in review) The Northern Mozambique Channel – a capitals approach to a Blue Economy future. IN: Handbook on the Economics and Management for Sustainable Oceans. Editors: Lisa Emelia Svansson, Paulo A.L.D. Nunes, Pushpam Kumar and Anil Markandya. Publisher: Edward Elgar Publishing (UK).
 16. Facon, M., Pinault, M., Obura, D., Pioch, S., Pothin, K., Bigot, L., Garnier, R., Quod, J.P. (2015). A comparative study of the accuracy and effectiveness of Line and Point Intercept Transect methods for coral reef monitoring in the southwestern Indian Ocean islands. *Ecological Indicators*.
 17. Curnick D.J., Head C.E.I., Huang D., Crabbe M.J.C., Gollock M., hoeksema B.W., Johnson K.G., Jones R., Koldewey H.J., Obura D.O., Rosen B.R., Smith D.J., Taylor M.L., Turner J.R., Wren S., & Redding D.W. (2015) Setting evolutionary-based conservation priorities for a phylogenetically data-poor taxonomic group (Scleractinia). *Animal Conservation*, doi:10.1111/acv.12185.
 18. Rotjan R, Jamieson R, Carr B, Kaufman L, Mangubhai S, Obura DO, et al. (2014) Establishment, Management, and Maintenance of the Phoenix Islands Protected Area. *Advances in Marine Biology*. *Advances in Marine Biology*. Elsevier, Vol. 69. pp. 289–324. doi:10.1016/B978-0-12-800214-8.00008-6.
 19. Abdulla A., Obura D.O., Brtsky B., & Shi Y. (2014) Marine World Heritage: creating a globally more balanced and representative list. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 24, 59–74.
 20. Anthony, KRN, PA Marshall, A Abdullah, R Beeden, C Bergh, R Black, M Eakin, ET Game, M Gooch, NAJ Graham, A Green, S Heron, R van Hooedonk, C Knowland, S Mangubhai, N Marshall, JA Maynard, P McGinnity, E McLeod, PJ Mumby, M Nyström, DO Obura, J Oliver, HP. Possingham, B Pressey, GP Rowlands, J Tamelander, D Wachenfeld, S Wear. (2014) Operationalizing resilience for adaptive coral reef management under global environmental change. *Global Change Biology* (2014), doi: 10.1111/gcb.12700
 21. Sale PF, Agardy T, Ainsworth CH, Feist BE, Bell JD, & 20 others. (2014) Transforming management of tropical coastal seas to cope with challenges of the 21st century. *Marine Pollution Bulletin*: 1–16. doi:10.1016/j.marpolbul.2014.06.005
 22. Gamoyo N, Reason C & Obura D (2014) Rainfall variability over the East African coast. *Theor Appl Climatol*. DOI 10.1007/s00704-014-1171-6
 23. Friedlander AM, Obura D, Aumeeruddy R, Ballesteros E, Church J, et al. (2014) Coexistence of Low Coral Cover and High Fish Biomass at Farquhar Atoll, Seychelles. *PLoS ONE* 9(1): e87359. doi:10.1371/journal.pone.0087359
 24. Hatakka M, Ater S, Obura DO, Mibei B (2014) Capability outcomes from educational and ICT capability inputs – an analysis of ICT use in informal education in Kenya. *EJISDC* 61, 1, 1-17
 25. Mangubhai S, Strauch AM, Obura DO, Stone G, Rotjan RD (2013) Short-term changes of fish assemblages observed in the near-pristine reefs of the Phoenix Islands. *Rev Fish Biol Fisheries*. DOI 10.1007/s11160-013-9327-5
 26. Keshavmurthy S, Yang S-Y, Alamaru A, Chuang Y-Y, Pichon M, Obura DO, et al. (2013) DNA barcoding reveals the coral “laboratory-rat,” *Stylophora pistillata* encompasses multiple identities. *Sci Rep* 3: 1520. doi:10.1038/srep01520.
 27. Pereira H.M., et al. (incl. D. Obura) (2013) Essential Biodiversity Variables. *Science* (339), 277-278. [DOI:10.1126/science.1229931]
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