



## XV. Publications

### a. Book Chapter

1. **Abuodha, P.A.** and Woodroffe, C.D., *in press*. Vulnerability Assessment. In: D. Green (Editor), Coastal Zone Management. Telford Publishing House, United Kingdom. Chapter 12: 262– 290. To be published by **17<sup>th</sup> November 2009**.
2. Nicholls, R.J., P.P. Wong, V.R. Burkett, J.O. Codignotto, J.E. Hay, R.F. McLean, S. Ragoonaden and C.D. Woodroffe, **P. A. Abuodha** et al. **2007**: Coastal systems and low-lying areas. Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden and C.E. Hanson, Eds., Cambridge University Press, Cambridge, UK, 315–356. Accessed online on 15<sup>th</sup> August 2009 at <http://ro.uow.edu.au/scipapers/164>

### b. Journal Articles

1. **Abuodha, P.A.** and Woodroffe, C.D., *in press*. Assessing vulnerability to sea-level rise using a coastal sensitivity index: A case study from Southeast Australia. Manuscript Number: JCCO110. Submitted to the Journal of Coastal Conservation: Planning and Management. Accessed online on 15<sup>th</sup> August 2009 at <http://www.editorialmanager.com/jcco/default.asp>
2. Woodroffe, C. D and **Abuodha, P. A.**, 2007. Vulnerability of the Australian coast to climate change– Lessons from overseas. Waves Journal, 13 (1): 17. Accessed online on 15<sup>th</sup> August at [http://www.mccn.org.au/act\\_now/detail/1778?q=marine\\_coastal\\_issues/detail/400](http://www.mccn.org.au/act_now/detail/1778?q=marine_coastal_issues/detail/400)
3. **Abuodha, P.A.** and J. G. Kairo, 2001. Human-induced stresses on mangrove swamps along the Kenyan coast in D. Harper, R. Boar, M. Evarard & P. Hickley (eds.) Science and the sustainable management of shallow tropical waters. *Hydrobiologia* 458: 255–256. Accessed online on 15<sup>th</sup> August 2009 at <http://ro.uow.edu.au/scipapers/165>

### c. Conference Proceedings

1. **Abuodha, P. A.** and Woodroffe, C. D., **2007**. Assessing vulnerability of coasts to climate change: a review of approaches and their application to the Australian coast. In C. D. Woodroffe, E. M. Bruce, M. Puotinen and R. A. Furness (editors). GIS for the coastal zone: A selection of papers from CoastGIS 2006. Wollongong Papers on Maritime Policy no. 16. 219 – 234. Accessed online on 15<sup>th</sup> August 2009 at <http://ro.uow.edu.au/scipapers/161>



2. **Abuodha, P. A., 2003.** Geomorphology of the Kenyan coast: Not as a result of sea level change alone. Buletim Geologico no. 43 Mozambique. 2–7 pp. Paper presented during the 'Impact of sea level rise: Past–Present–Future' Inhaca Island, Mozambique 4– 8 November 2002. Organized and sponsored by the Commission of the Holocene of the International Union for Quaternary Research (INQUA). Accessed online on 15<sup>th</sup> August 2009 at <http://iodeweb1.vliz.be/odin/bitstream/1834/407/1/1Abuodha.pdf>
3. **Abuodha, P. A., 2002.** Beach erosion as an environmental hazard in Kenya: a case study of Shanzu – Bamburi area. Journal of Africa Geoscience Review, 9 (4): 351 – 367. Paper presented during the Workshop on Geo– Environmental Hazards and Disasters in Africa, Gigiri, Nairobi. 1 – 3 July 2002. Sponsored by United Nations Environmental Program (UNEP).
4. **Abuodha, P.A. and Fondo E., 2000.** Evaluating the sustainability of mangrove forest: A case Study of Gazi Bay, Kenya in M. Foth (ed.) Sustainable development of coastal zones and instruments for its evaluation. 169–171 pp. Accessed online on 15<sup>th</sup> August 2009 at <http://iodeweb1.vliz.be/odin/bitstream/1834/292/1/Abuodha169-173.pdf>
5. **Abuodha, P. A., 1999.** Status and Trends in Kenyan Recreational Marine Fisheries In T. J. Pitcher (ed.) Evaluating the Benefits of Recreational Fisheries. Fisheries Centre Research Reports. Vol. 7 (2) 46–50. Paper presented at the Evaluating the Benefits of Recreational Fisheries, 1 – 3 June 1999, Toronto, Canada. Sponsored by the South African Deep Sea Angling Association (SADSAA). Accessed online on 15<sup>th</sup> August 2009 at <http://www.fisheries.ubc.ca/archive/publications/reports/7-2.pdf>
6. **Abuodha, P. A., 1995.** Beach Sedimentology of the Mombasa– Diani area, Kenya in I. O. Nyambok and D. W. Ichangi (eds.) Geology for development within a sustainable environment. Geological Society of Africa (GSA) international conference, 9–13 October 1995, Nairobi, Kenya. 1– 17 pp
7. **Abuodha, P. A. and Abuodha, J. O. Z., 1995.** Geochemical and heavy mineral investigations of Beach sediments on the northern coast of Kenya in I. O. Nyambok and D. W. Ichangi (eds.) Geology for development within a sustainable environment. Geological Society of Africa (GSA) international conference, 9–13 October 1995, Nairobi, Kenya. 339 – 352 pp
8. **Abuodha, P.A., 1995.** Effects of Development pressure on the coastal zone: Examples from Kenya in E. Duursma (ed.) Intergovernmental Oceanographic Commission (IOC) workshop report supplement. 1. no. 105: 364 – 372. Bordeaux, France 6 – 10 February 1995. Accessed online on 15<sup>th</sup> August 2009 at <http://unesdoc.unesco.org/images/0010/001008/100843eo.pdf>
9. **Abuodha, P.A., 1994** – Coastal Erosion in Kenya: A case study of the Mombasa – Diani area In IOC (ed) IOC–UNEP – WMO – SAREC Planning Workshop on an Integrated Approach to Coastal Erosion, Sea Level Changes and their Impacts. IOC Workshop Report 96 (1) 17–28.



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[http://www.jodc.go.jp/info/ioc\\_doc/Workshop/w096s1.pdf](http://www.jodc.go.jp/info/ioc_doc/Workshop/w096s1.pdf)

## d. Project Reports

1. **Abuodha, P. A.** and Woodroffe, C. D. **2006**. International assessments of the vulnerability of the coastal zone to climate change, including an Australian perspective. Report to the Australian Greenhouse Office in response to RFQ 116/2005DEH. Accessed online on 15<sup>th</sup> August 2009 at <http://ro.uow.edu.au/scipapers/159>. Executive summary accessed online on 15<sup>th</sup> August 2009 at <http://www.climatechange.gov.au/impacts/publications/coastal-international.html>
2. **Abuodha, P. A., 2006**. Implications of coastal processes for the management of the Shanzu – Bamburi coastal zone, Mombasa, Kenya. Western Indian Ocean Marine Science Association (WIOMSA)/Marine Association Research Grant (MARG– I/2006–02. 38 pp. Accessed online on 15<sup>th</sup> August at <http://www.wiomsa.org/filearchive/1/1079/Abhuodha.pdf>
3. **Abuodha, P. A., 2004**. Bamburi– Shanzu, Mombasa, Kenya case study. In UNEP/GPA ‘Shoreline Change in the Western Indian Ocean Region: An Overview’ report prepared by Western Indian Ocean Marine Science Association (WIOMSA), 2004 A–3 to A–5 pp.
4. **Abuodha, P. A., 2003**. Sediment grain size composition and sedimentation in the Malindi – Ungwana bay continental shelf waters 8 – 9 pp In Kitheka J. U. (ed) 2004. Marine Environmental and Ecological Research program Annual report June 2002 – June 2003. KMFRI, Mombasa, Kenya. 16 pp
5. **Abuodha, P. A., 2002**. Sediment composition and characteristics in the Malindi – Ungwana Bay In: KMFRI (2003): Current status of Trawl Fishery of Malindi – Ungwana Bay 23–30 pp. Accessed online on 15<sup>th</sup> August 2009 at <http://iodeweb1.vliz.be/odin/bitstream/1834/927/1/Ungwana2002.pdf>
6. Kairu, K. K., **P. A. Abuodha** and Onganda, H., **2002**. Implications of shoreline change on the utilization and management of the Malindi – Ungwana Bay shorelines In: KMFRI (2003): Current status of Trawl Fishery of Malindi – Ungwana Bay 90–96 pp. Accessed online on 15<sup>th</sup> August 2009 at <http://iodeweb1.vliz.be/odin/bitstream/1834/927/1/Ungwana2002.pdf>
7. Kairu K., **Abuodha, P. A.** and Onganda H., **2002**. Coastal shoreline change along the North Kenya coast and its impact. 15 – 16 pp. In Kitheka J. U. (ed) 2002. Marine Environmental and Ecological Research program Annual report June 2001 – June 2002. KMFRI, Mombasa, Kenya. 47 pp.
8. **Abuodha, P. A., 2002**. Shoreline change in the Shanzu – Bamburi area in Mombasa District, 16 – 17 pp. In Kitheka J. U. (ed) 2002. Marine



Environmental and Ecological Research program Annual report June 2001 – June 2002. KMFRI, Mombasa, Kenya. 47 pp.

9. **Abuodha, P. A., 2002.** Analysis offshore sediment of Ungwana bay. 17 – 18 pp. In Kitheka J. U. (ed) 2002. Marine Environmental and Ecological Research program Annual report June 2001 – June 2002. KMFRI, Mombasa, Kenya. 47 pp.
10. **Abuodha, P. A., 2001.** Physical shoreline change in the Shanzu – Bamburi area, near Mombasa, Kenya; a classification. A report for UNESCO project office, Paris, under contract No. SC/RP 207.597.1 between KMFRI & UNESCO, 76 pp.

## e. Published Abstracts

1. **Abuodha, P. A., 2004.** Human impact on coastal evolution at Malindi Bay, north Kenya Coast. International Geological Correlation Program # 495. Quaternary Land–Ocean Interactions: Driving Mechanisms and Coastal Responses. Department of Earth Sciences, University of Maine, **Bar Harbor Maine, USA.** October 14–17, 2004. Accessed online on 15<sup>th</sup> August 2009 at <http://www.geomorphology.org.uk/pages/geophemera/PDF/geophemera94.pdf>
2. **Abuodha, P. A., 2004.** Modern mega flooding in Kenya especially Budalangi Division and Tana River Districts. Dark Nature rapid natural change and human responses. How to identify mega–floods in palaeorecords. The impacts of mega–flood events. **Bobole–Mozambique.** November 1–5, 2004. 17–18 pp. Accessed online on 15<sup>th</sup> August 2009 at <http://www.climatechange.gov.au/impacts/publications/pubs/coastal-workshop.pdf>
3. **Abuodha, P. A., 2003.** Sea level changes on the Kenyan coast during the Quaternary period In XVI INQUA congress book of abstracts pp 238 pp. Poster presented at the XVI International Union for Quaternary Research (INQUA) Congress– Shaping the Earth, a Quaternary Perspective. Session no. 92 on Quaternary sea level changes and their physical biological and oceanic impacts (Commission on sea–level change and coastal evolution), Reno **Nevada USA** 23 – 30 July 2003. Sponsored by INQUA. Accessed online on 15<sup>th</sup> August 2009 at [http://www.inqua2003.dri.edu/inqua03\\_abstracts\\_p231-244.pdf](http://www.inqua2003.dri.edu/inqua03_abstracts_p231-244.pdf)
4. **Abuodha, P. A., 2002.** Training today’s coastal and marine managers from the Western Indian Ocean (WIO) region on Coastal Zone Management (CZM) In Resource Kit of the Managing Shared Waters towards Sustainable Transboundary Coastal Ecosystems international conference, 23 – 28 June, 2002 Hamilton, Ontario, Canada. Accessed online on 15<sup>th</sup> August 2009 at <http://www.pollutionprobe.org/managing.shared.waters/afternoonprog.pdf>



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5. **Abuodha, P. A., 2001.** Mangrove swamps in Kenya's delta's: Human pressure. In D. Harper and M. Zalewski, 2001. Science and the sustainable management of tropical waters. A summary of the projects presented to the conference Naivasha, Kenya, 11-16 April, 1999. Technical documents in Hydrology No. 46. Prepared and published in co-operation with the UNESCO Venice Office UNESCO, Paris, 2001. pp 62. Accessed online on 15<sup>th</sup> August 2009 at [http://www.le.ac.uk/bl/staff/dmh/ew/Exib7\\_Harper&Zalewski2001.pdf](http://www.le.ac.uk/bl/staff/dmh/ew/Exib7_Harper&Zalewski2001.pdf)
  6. Kairu, K., **Abuodha P. A.** and Onganda H., **2000.** Applications of environmental geology in coastal zone planning and management. 11 pp. In the 9<sup>th</sup> regional conference of the Geological Society of Kenya. Abstracts volume 26 pp. Nairobi, Kenya. 16 - 17 November, 2000.
  7. **Abuodha, P. A., 2000.** Sustainable use of coastal resources: The key to development in this millennium. 21 pp. Paper presented during the workshop on Gender and Environmental concerns among female Geoscientists in Africa, Dar es Salaam, Tanzania, 25 - 27 May, 2000. Sponsored by UNESCO.

## f. Thesis

1. **Abuodha, P. A., 2009.** Application and Evaluation of Shoreline Segmentation Mapping Approaches to Assessing Response to Climate Change on the Illawarra Coast, South East Australia Unpublished PhD Thesis, University of Wollongong, Wollongong, Australia. 286 pp
2. **Abuodha, P. A., 1992.** Geomorphology and Sedimentology of the Mombasa- Diani area, Kenya coast: Implications to coastal zone management. Unpublished MSc Thesis. University of Nairobi, Nairobi, Kenya. 158 pp