INTERNATIONAL SYMPOSIUM HOSTED

HTTP://WWW.SANDYBEACH2012.COM/HOME



VIthInternational Sandy Beach Symposium



ISBS-VI 2012 | Mpekweni, Eastern Cape, South Africa | 23 – 28 June 2012



VIthInternational Sandy Beach Symposium

Doc.1

Sandy Beaches 2012: A new paradiam in the face of global change

> Mpekweni, Eastern Cape, South Africa 23 - 28 June 2012









Sponsors:







6TH INTERNATIONAL SANDY BEACH SYMPOSIUM

Theme: A new paradigm in the face of global change

- 60 Delegates (including academics, students, managers, government representatives & consultants)
- 13 Countries represented
- 4 Days at Mpekeweni
- 4 Sponsored plenary speakers (USA, Brazil, UK, South Africa)
- 7 NMMU Students (most ever at this symposium)
- 6 Student awards presented







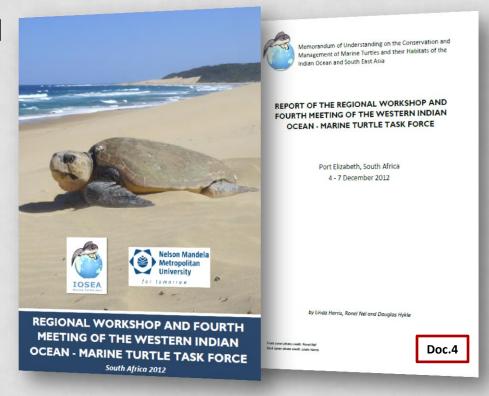
INTERNATIONAL WORKSHOP HOSTED

4TH MEETING OF THE WESTERN INDIAN OCEAN MARINE TURTLE TASK FORCE & WORKSHOP TO IDENTIFY SITES OF IMPORTANCE FOR SEA TURTLES



4TH MEETING OF WIO MTTF

- 10 Participants from 10 countries in the WIO attended
- 4 Additional International Experts
- 5 Conservation Managers
 from South Africa
- 5 Students from NMMU
- 2 Reps from IGO's
- Total of 31 participants



This was under contract from UNEP (United Nations Environment Programme)



Indian Ocean - South-East Asian Marine Turtle Memorandum of Understanding

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🛂 print

Report of the 4th Meeting of the Western Indian Ocean - Marine Turtle Task Force



REPORTS & WEB ARTICLES PRODUCED

FROM SMALL CONTRACTS, MEETINGS, DECISION SUPPORT AS AN INVITED EXPERT

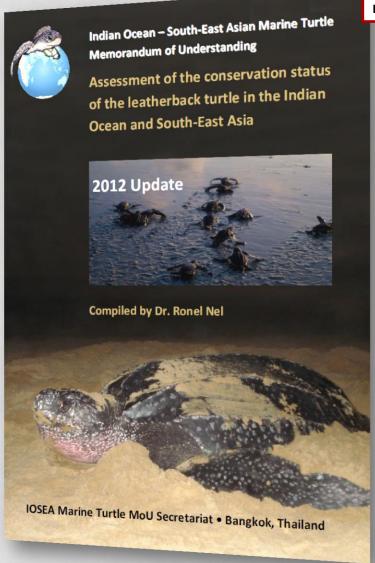


IOSEA LEATHERBACK SEA TURTLE REVIEW

This was an invited contribution as a regional expert on leatherback turtles (Unpaid)

Can be viewed on:

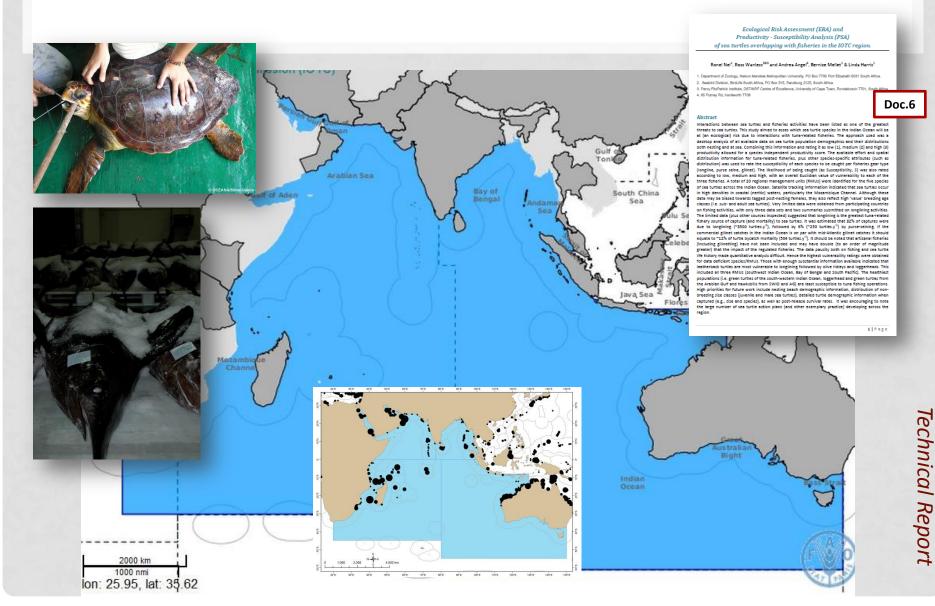
http://ioseaturtles.org/



Doc.5

Technical Report

INDIAN OCEAN TUNA COMMISSION CONTRACT





Indian Ocean - South-East Asian Marine Turtle Memorandum of Understanding

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Western Indian Ocean - Marine Turtle Task Force meets in South Africa

20 Dec 2012

The IOSEA Western Indian Ocean – Marine Turtle Task Force held its fourth meeting in Port Elizabeth, South Africa, from 4 to 7 December 2012, under the chairmanship of Dr. Ronel Nel. Much of the workshop focused on reviewing species and other site-based information contained in IOSEA national reports in order to identify candidate sites for potential inclusion in the IOSEA Site Network.

Experts attended from ten of the 11 countries that constitute the Western Indian Ocean IOSEA sub-region: Comoros, France, Kenya, Madagascar, Mauritius, Mozambique, Seychelles, South Africa, United Kingdom and United Republic of Tanzania. A representative from Somalia was unable to attend.





Indian Ocean - South-East Asian Marine Turtle Memorandum of Understanding

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Background

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Turtles get attention at the Indian Ocean Tuna Commission's WPEB meeting

Source: Dr Ronel Nel, Nelson Mandela Metropolitan University, and Douglas Hykle, IOSEA Coordinator

Photos: Dr Ronel Nel

The 8th Meeting of the Indian Ocean Tuna Commission's (IOTC) Working Party on Ecosystems and Bycatch (WPEB) took place in Cape Town, South Africa, from 17 - 19 September 2012. The meeting was co-hosted by South Africa's Department of Agriculture, Fisheries and Forestry (DAFF), and participants were welcomed by the Chief Director from Fisheries Research and Development, Dr Johann Augustyn.

The meeting was attended by approximately 50 fisheries scientists and managers from the IOTC region, including representatives from Contracting and Co-operating non-Contracting Parties (CPCs), as well as observers from key NGOs such as BirdLife International. The meeting was chaired by Dr Charles Anderson, with secretariat services provided by Dr David Wilson (Deputy Secretary, IOTC). Dr Ronel Nel (Chair of the Western Indian Ocean - Marine Turtle Task Force) attended the meeting at the request and on behalf of the IOSEA Secretariat.



print

Click: Species Overview



Leatherback Assessment 2012 UPDATE



IUCN SPECIES SURVIVAL COMMISSION

MARINE TURTLE SPECIALIST GROUP



MARINE TURTLE SPECIALIST GROUP: OUTPUTS



The IUCN is known as the **World Conservation Union**;
They evaluate the conservation status of species and
the **Marine Turtle Specialist Group** is responsible for marine turtles.

Dr Nel is acting as the **Regional Co Vice-Chair for the Western Indian Ocean Region** along with Jerome Bourjea (IFREMER, Reunion).

The work of the MTSG has resulted in **two definitive papers in 2010-2011** which have now lead to the re-assessment of the conservation status of sea turtles with the first review (for leatherback turtles) starting in 2011. After a **two year review it is ready to be submitted to the Species Survival Commission (IUCN).**

Dr Nel made a unique contribution for the Western Indian Ocean turtle population (one of six in the world, and one of the most endangered populations).



Regional Management Units for Marine Turtles: A Novel Framework for Prioritizing Conservation and Research across Multiple Scales

Doc.7

Bryan P. Wallace^{1,2,3}*, Andrew D. DiMatteo^{1,4}, Brendan J. Hurley^{1,2}, Elena M. Finkbeiner^{1,3}, Alan B. Bolten^{1,5}, Milani Y. Chaloupka^{1,6}, Brian J. Hutchinson^{1,2}, F. Alberto Abreu-Grobois^{1,7}, Diego Amorocho^{1,8}, Karen A. Bjorndal^{1,5}, Jerome Bourjea^{1,9}, Brian W. Bowen^{1,10}, Raquel Briseño Dueñas^{1,11}, Paolo Casale^{1,12,13}, B. C. Choudhury^{1,14}, Alice Costa^{1,15}, Peter H. Dutton^{1,16}, Alejandro Fallabrino^{1,17}, Alexandre Girard^{1,18}, Marc Girondot^{1,19}, Matthew H. Godfrey^{1,20}, Mark Hamann^{1,21}, Milagros López-Mendilaharsu^{1,22,23}, Maria Angela Marcovaldi^{1,22}, Jeanne A. Mortimer^{1,24}, John A. Musick^{1,25}, Ronel Nel^{1,26}, Nicolas J. Pilcher^{1,27}, Jeffrey A. Seminoff^{1,28}, Sebastian Troëng^{1,2,29,30}, Blair Witherington^{1,31}, Roderic B. Mast^{1,2}

1 International Union for Conservation of Nature (IUCN)/SSC Marine Turtle Specialist Group - Burning Issues Working Group, Arlington, Virginia, United States of America, 2 Global Marine Division, Conservation International, Arlington, Virginia, United States of America, 3 Center for Marine Conservation, Duke University, Beaufort, North Carolina, United States of America, 4 Marine Geospatial Ecology Laboratory, Duke University, Durham, North Carolina, United States of America, 5 Department of Biology, Archie Carr Center for Sea Turtle Research, University of Florida, Gainesville, Florida, United States of America, 6 Ecological Modelling Services, Pty Ltd, University of Queensland, Brisbane, Australia, 7 Unidad Académica Mazatlán, Instituto de Ciencias del Mar y Limnología, Universidad Nacional Autónoma de México, Mazatlán, Sinaloa, México, 8 Centro de Investigación para el Medio Ambiente y Desarrollo, Cali, Colombia, 9 Laboratoire Ressources Halieutiques, IFREMER, Ile Reunion, France, 10 Hawaii Institute of Marine Biology, Kaneohe, Hawaii, United States of America, 11 Banco de Información sobre Tortugas Marinas (BITMAR), Unidad Mazatlán, Instituto de Ciencias del Mar y Limnología, Universidad Nacional Autónoma de México, Mazatlán, Sinaloa, México, 12 Department of Biology and Biotechnology "Charles Darwin," University of Rome "La Sapienza," Rome, Italy, 13 World Wildlife Fund (WWF) Mediterranean Turtle Programme, World Wildlife Fund-Italy, Rome, Italy, 14 Department of Endangered Species Management, Wildlife Institute of India, Dehradun, Uttarakhand, India, 15 World Wildlife Fund-Mozambique, Maputo, Mozambique, 16 Southwest Fisheries Science Center, National Marine Fisheries Service, National Oceanic and Atmospheric Administration (NOAA), La Jolla, California, United States of America, 17 Karumbé, Montevideo, Uruguay, 18 Association RENATURA, Albens, France, and Pointe-Noire, Congo, 19 Laboratoire d'Ecologie, Systématique et Evolution, Université Paris-Sud, Orsay, France, 20 North Carolina Wildlife Resources Commission, Beaufort, North Carolina, United States of America, 21 School of Earth and Environmental Sciences, James Cook University, Townsville, Australia, 22 Projeto Tamar-ICMBio/Fundação Pro Tamar, Salvador, Bahía, Brazil, 23 Department of Ecology, Institute of Biology, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil, 24 Department of Biology, University of Florida, Gainesville, Florida, United States of America, 25 Virginia Institute of Marine Sciences, College of William and Mary, Gloucester Point, Virginia, United States of America, 26 School of Environmental Sciences, Nelson Mandela Metropolitan University, Summerstrand Campus, South Africa, 27 Marine Research Foundation, Sabah, Malaysia, 28 Marine Turtle Ecology and Assessment Program, Southwest Fisheries Science Center, NOAA-National Marine Fisheries Service, La Jolla, California, United States of America, 29 Department of Animal Ecology, Lund University, Lund, Sweden, 30 Scientific Advisory Committee, Sea Turtle Conservancy, Gainesville, Florida, United States of America, 31 Florida Fish and Wildlife Conservation Commission,



Global Conservation Priorities for Marine Turtles

Doc.8

Bryan P. Wallace^{1,2,3}*, Andrew D. DiMatteo^{1,4}, Alan B. Bolten^{1,5}, Milani Y. Chaloupka^{1,6}, Brian J. Hutchinson^{1,2}, F. Alberto Abreu-Grobois^{1,7}, Jeanne A. Mortimer^{1,8,9}, Jeffrey A. Seminoff^{1,10}, Diego Amorocho^{1,11}, Karen A. Bjorndal^{1,5}, Jérôme Bourjea^{1,12}, Brian W. Bowen^{1,13}, Raquel Briseño Dueñas^{1,14}, Paolo Casale^{1,15,16}, B. C. Choudhury^{1,17}, Alice Costa^{1,18}, Peter H. Dutton^{1,19}, Alejandro Fallabrino^{1,20}, Elena M. Finkbeiner^{1,3}, Alexandre Girard^{1,21}, Marc Girondot^{1,22}, Mark Hamann^{1,23}, Brendan J. Hurley^{1,2}, Milagros López-Mendilaharsu^{1,24,25}, Maria Angela Marcovaldi^{1,24}, John A. Musick^{1,26}, Ronel Nel^{1,27}, Nicolas J. Pilcher^{1,28}, Sebastian Troëng^{1,2,29,30}, Blair Witherington^{1,31}, Roderic B. Mast^{1,2}

1 IUCN/SSC Marine Turtle Specialist Group - Burning Issues Working Group, Arlington, Virginia, United States of America, 2 Global Marine Division, Conservation International, Arlington, Virginia, United States of America, 3 Division of Marine Science and Conservation, Duke University, Beaufort, North Carolina, United States of America, 4 Marine Geospatial Ecology Laboratory, Duke University, Durham, North Carolina, United States of America, 5 Archie Carr Center for Sea Turtle Research and Department of Biology, University of Florida, Gainesville, Florida, United States of America, 6 Ecological Modelling Services, Pty Ltd, University of Queensland, Brisbane, Australia, 7 Unidad Académica Mazatlán, Instituto de Ciencias del Mar y Limnología, Universidad Nacional Autónoma de México, Mazatlán, Sinaloa, México, 8 Department of Biology, University of Florida, Gainesville, Florida, United States of America, 9 Island Conservation Society, Victoria, Mahé, Republic of Seychelles, 10 Marine Turtle Ecology and Assessment Program, Southwest Fisheries Science Center, NOAA-National Marine Fisheries Service, La Jolla, California, United States of America, 11 Centro de Investigación para el Medio Ambiente y Desarrollo, Cali, Colombia, 12 Laboratoire Ressources Halieutiques, IFREMER, Île de la Réunion, France, 13 Hawaii Institute of Marine Biology, Kaneohe, Hawaii, United States of America, 14 Banco de Información sobre Tortugas Marinas (BITMAR), Unidad Mazatlán, Instituto de Ciencias del Mar y Limnología, Universidad Nacional Autónoma de México, Mazatlán, Sinaloa, México, 15 Department of Biology and Biotechnology "Charles Darwin," University of Rome "La Sapienza," Rome, Italy, 16 WWF Mediterranean Turtle Programme, World Wildlife Fund-Italy, Rome, Italy, 17 Department of Endangered Species Management, Wildlife Institute of India, Dehradun, Uttarakhand, India, 18 World Wildlife Fund-Mozambique, Maputo, Mozambique, 19 Southwest Fisheries Science Center, National Marine Fisheries Service, National Oceanic and Atmospheric Administration, La Jolla, California, United States of America, 20 Karumbé, Montevideo, Uruguay, 21 Association RENATURA, Albens, France, and Pointe-Noire, Congo, 22 Laboratoire d'Ecologie, Systématique et Evolution, Université Paris-Sud, Orsay, France, 23 School of Earth and Environmental Sciences, James Cook University, Townsville, Australia, 24 Projeto Tamar-ICMBio/Fundação Pro Tamar, Salvador, Bahía, Brazil, 25 Department of Ecology, Institute of Biology, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil, 26 Virginia Institute of Marine Sciences, College of William and Mary, Gloucester Point, Virginia, United States of America, 27 School of Environmental Sciences, Nelson Mandela Metropolitan University, Summerstrand Campus, South Africa, 28 Marine Research Foundation, Sabah, Malaysia, 29 Department of Animal Ecology, Lund University, Lund, Sweden, 30 Scientific Advisory Committee, Sea Turtle Conservancy, Gainesville, Florida, United States of America, 31 Florida Fish and Wildlife Conservation Commission, Melbourne Beach, Florida, United States of America

INTERNATIONAL MEETINGS ATTENDED

FOUR INTERNATIONAL MEETINGS





Indian Ocean - South-East Asian Marine Turtle Memorandum of Understanding

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Report of the Sixth Meeting of IOSEA Signatory States

Bangkok, Thailand, 23-27 January 2012

Doc.9

INVITED EXPERTS

Dr. Petronella (Ronel) Nel

The Nelson Mandela Metropolitan University (NMMU), Department of Zoology P.O. Box 77000 PORT ELIZABETH 6031 South Africa

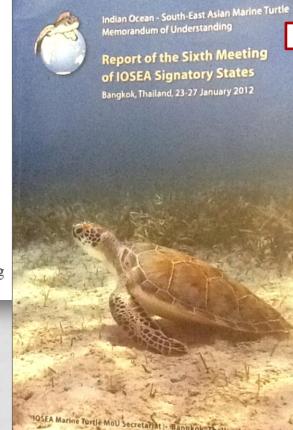
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Dr. Peter Richardson Species Policy Officer Marine Conservation Society Unit 3, Wolf Business Park, Alton Road, Ross-on-Wye, HEREFORDSHIRE HR9 5NB United Kingdom

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Email: peter.richardson@mcsuk.org









IBSA India-Brazil-South Africa



IBSA Ocean Meeting: Rio De Janeiro, Brazil 5 – 5 March 2012; Attended as invited expert as part of the South African Delegation

IBSA-OCEANS, COASTS, CLIMATE AND ANTARCTICA

Doc.10

STRATEGIC IMPLEMENTATION AND ACTION PLAN ARISING FROM SCIENTIFIC WORKSHOPS HELD IN CAPE TOWN, GOA AND RIO DE JANEIRO, 2008 – 2012





IOTC CTOI











INDIAN OCEAN TUNA COMMISSION — COMMISSION DES THONS DE L'OCÉAN INDIEN

8th Meeting of the Working Party on Ecosystems and Bycatch, 17 – 19 September 2012 Attended as Western Indian Ocean Marine Turtle Task Force Chair & on behalf of the IOSEA Secretariat.





IOTC-2012-WPEB08-R[E]

Doc.11

Report of the Eighth Session of the IOTC Working Party on Ecosystems and Bycatch

Cape Town, South Africa, 17-19 September, 2012



DISTRIBUTION:

Participants in the Session
Members of the Commission
Other interested Nations and International
Organizations
FAO Fisheries Department

BIBLIOGRAPHIC ENTRY
IOTC—WPEB08 2012. Report of the Eighth Session of
the IOTC Working Party on Ecosystems and Bycatch.
Cape Town, South Africa, 17–19 September, 2012.
IOTC—2012—WPEB08—R[E]: 77 pp.

15TH SESSION OF THE SCIENTIFIC











INDIAN OCEAN TUNA COMMISSION — COMMISSION DES THONS DE L'OCÉAN INDIEN

^{15th} Session of the Scientific Committee, 10 – 15 December 2012 Mahé Seychelles Invited Expert (*Presented an Ecological Risk Assessment for Sea Turtles*)





IOTC-2012-SC15-R[E]

Doc.12

Report of the Fifteenth Session of the IOTC Scientific Committee

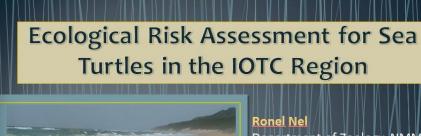
Mahé, Seychelles, 10-15 December 2012

DISTRIBUTION:

Participants in the Session Members of the Commission Other interested Nations and International Organizations

FAO Fisheries Department FAO Regional Fishery Officers BIBLIOGRAPHIC ENTRY

IOTC-SC15 2012. Report of the Fifteenth Session of the IOTC Scientific Committee. Mahé, Seychelles, 10-15 December 2012. IOTC-2012-SC15-R[E]: 288 pp.





Department of Zoology, NMMU

Ross Wanless
Seabird Division, Birdlife SA

Andrea Angel

Private Consultant,

Bernice Mellet & Linda Harris
Department of Zoology, NMMU



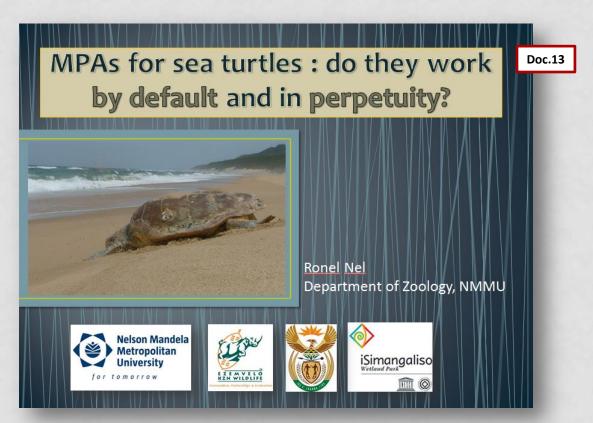
INTERNATIONAL COLLABORATIONS

UNIVERSITY OF WASHINGTON, SEATTLE & PURDUE, FORT WAYNE



INVITED GUEST PRESENTATIONS

- 5th April 2012 Departmental Seminar to School of Aquatic and Fisheries Science, *University of Washington, Seattle Washington USA*.
- 10th October 2012 Department of Biological Sciences, *Purdue, Fort Wayne, Indiana USA*.





DEPARTMENT OF BIOLOGY

Doc.14

Phone: 260-481-6305 Fax: 260-481-6087

12 June 2012

Dr. Graham Kerley, Head Department of Zoology Nelson Mandela Metropolitan University Port Elizabeth, South Africa

Dear Professor Kerley:

I am writing to you to pass along my praise and thanks for all the wonderful help and collaboration we have received from one of your faculty in the School of Science and specifically in the School of Environmental Sciences, Program in Zoology. Dr. Ronel Nel and I are collaborating on a marine turtle project at iSimangaliso Wetland Park, Bhanga Nek Research Station in KwaZulu-Natal. This project would not have been possible if not for the hard work and insights of Dr. Nel and the assistance of her Ph. D. student Jenny Tucek who is in your department of Zoology and a student of Dr. Nel. This mutual collaboration has also led to the purchase of a Rhino (4 wheel drive ATV) in South Africa which will be a permanent part of your equipment as well as the support of my Ph. D. Student, Nathan Robinson, from Purdue University who has worked at the Bhanga Nek Station on the satellite tracking of Leatherback turtles nesting in the protected areas (see attached figures of tracking). Dr. Nel and her long term data set and knowledge of leatherbacks and other marine turtles in South Africa have been instrumental in the development of this collaboration and the spectacular preliminary results we are already receiving from the first field season. I just wanted to write to you and provide you with some positive input on the excellent exposure Dr. Nel is providing NMMU to the international sea turtle community and the benefit that such an international collaboration has had on your university.

Sincerely,

Frank V. Paladino

Frank V. Paladino Ph. D., FAAAS Jack W. Schrey Distinguished Professor Chairman of Biology



Doc.14

Are Coastal Protected Areas Always Effective in Achieving Population Recovery for Nesting Sea Turtles?

Ronel Nel^{1*}, André E. Punt², George R. Hughes³

1 Department of Zoology, Nelson Mandela Metropolitan University, Port Elizabeth, South Africa, 2 School of Aquatic and Fishery Sciences, University of Washington, Seattle, Washington, United States of America, 3 Retired Conservator, Howick, South Africa

Abstract

Sea turtles are highly migratory and usually dispersed, but aggregate off beaches during the nesting season, rendering them vulnerable to coastal threats. Consequently, coastal Marine Protection Areas (MPAs) have been used to facilitate the recovery of turtle populations, but the effectiveness of these programs is uncertain as most have been operating for less than a single turtle generation (or < 20 yr). South Africa, however, hosts one of the longest running conservation programs, protecting nesting loggerhead (Caretta caretta) and leatherback (Dermochelys coriacea) turtles since 1963 in a series of coastal MPAs. This provides a unique opportunity to evaluate the long-term effect of spatial protection on the abundance of two highly migratory turtle species with different life history characteristics. Population responses were assessed by modeling the number of nests over time in an index area (13 km) and an expanded monitoring area (53 km) with varying survey effort. Loggerhead abundance increased dramatically from ~250 to >1700 nests pa (index area) especially over the last decade, while leatherback abundance increased initially~10 to 70 nests pa (index area), but then stabilized. Although leatherbacks have higher reproductive output per female and comparable remigration periods and hatching success to loggerheads, the leatherback population failed to expand. Our results suggest that coastal MPAs can work but do not quarantee the recovery of sea turtle populations as pressures change over time. Causes considered for the lack of population growth include factors in the MPA (expansion into unmonitored areas or incubation environment) of outside of the MPA (including carrying capacity and fishing mortality). Conservation areas for migratory species thus require careful design to account for species-specific needs, and need to be monitored to keep track of changing pressures.

VC'S THINK TANK ON MARINE SCIENCE

E.G. VISIT TO JAPAN



STRATEGIC COMMITTEE: MARINE SCIENCE



Delegation met with several marine science institutes in Tokyo Japan; 28 Jul – 5 Aug 2012; Committee has met three times since to develop strategic direction.

SLP: MARINE BIOLOGY IN SOUTH AFRICA

A DEDICATED SLP TO ST BENEDICTS AND ST JOHNS (USA)
OVER 15 WEEKS EVERY YEAR



BIO373: MARINE BIOLOGY

 This is a dedicated SLP to the study-abroad students from St Benedict and St Johns, with 10 – 17 science students.

It has taken place every year since 2007 under the leadership

of Dr Nel

