



**MEMORANDUM OF UNDERSTANDING  
ON THE CONSERVATION AND  
MANAGEMENT OF MARINE TURTLES  
AND THEIR HABITATS OF THE INDIAN  
OCEAN AND SOUTH-EAST ASIA**

CMS/IOSEA/MOS8/Doc.14.1.b

28 August 2019

Original: English

8<sup>TH</sup> MEETING OF THE SIGNATORY STATES

Da Nang, Viet Nam, 21-25 October 2019

Agenda Item 14.1

**NOMINATIONS FOR MEMBERS OF THE IOSEA ADVISORY COMMITTEE**

*(Prepared by the Secretariat)*

Action Requested:

- Review the nominations received
- Decide on the future composition of the Advisory Committee

## NOMINATIONS FOR MEMBERS OF THE IOSEA ADVISORY COMMITTEE

1. The Terms of Reference (ToR) for the Advisory Committee (found [here](#)) determine that each member “should serve for a period of two regular Meetings of the Signatory States, and should be eligible for re-nomination and reappointment”.
2. On 2 May 2019, the Secretariat wrote to all Signatories informing them that of the current eight members, only one, Manjula Tiwari, was appointed at the 6<sup>th</sup> Meeting of Signatories (MOS6), her term therefore ends at MOS8. Dr. Tiwari has indicated her willingness to be reappointed for another term.
3. The seven other members, Robert Baldwin, Jérôme Bourjea, Jack Frazier, Mark Hamann, Colin Limpus, Jeffrey Miller and Ronel Nel, were appointed or reappointed at the 7<sup>th</sup> Meeting of Signatories (MOS7). Their terms are therefore only ending at MOS9.
4. Since the maximum number of AC members is set at ten, Signatory States were encouraged to nominate or re-nominate candidates for up to three positions. As outlined in the ToR, “Signatory States should strive to achieve a balance among the areas of expertise set forth in the Memorandum of Understanding (marine turtle biology, marine resource management, coastal development, socio-economics, law, fisheries technology, and other relevant disciplines), as well as an equitable representation of sub-regions and gender, to the extent possible.”
5. Four nominations were received by the deadline of 22 August 2019:
  - Re-nomination of Dr. Manjula Tiwari (United States/India) by Australia
  - Nomination of Dr. Scott Whiting (Australia) by the United States
  - Nomination of Dr. Jarina Jani (Malaysia) by the United Kingdom
  - Nomination of Dr. Madhuri Ramesh (India) by the United Kingdom

### Recommended Actions

6. The Meeting of the Signatories is recommended to:
  - a) Review the nominations received.
  - b) Decide on the future composition of the Advisory Committee.



## Memorandum of Understanding on the Conservation and Management of Marine Turtles and their Habitats of the Indian Ocean and South-East Asia

Nomination for membership of the IOSEA Advisory Committee – 2019  
(For completion by Signatory States only)

Name of nominee (Title, first name, LAST NAME):

Dr. Manjula TIWARI

**THE INDIVIDUAL NOMINATED must not be from same country making the nomination.  
Please consult AC Terms of Reference, paragraph 1.**

Institutional affiliation (provide full contact details, including functional email address):

NOAA Fisheries  
Southwest Fisheries Science Center  
Marine Turtle Ecology and Assessment Program  
8901 La Jolla Shores Drive  
La Jolla, CA 92037, USA

**Postal Address**

8901 La Jolla Shores Drive  
La Jolla, CA 92037, USA

**Email:** Manjula.Tiwari@noaa.gov

**Ph** (858) 546-5658

**For brand new nominations (only): attach current *Curriculum vitae* of the nominee**

Field(s) of expertise (tick relevant boxes):

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Marine turtle biology | <input type="checkbox"/> Law  |
| <input type="checkbox"/> Marine resource management       | <input type="checkbox"/> Fisheries technology                                       |
| <input type="checkbox"/> Coastal development              | <input checked="" type="checkbox"/> Other relevant discipline (state which, below): |
| <input type="checkbox"/> Socio-economics                  | Integrative conservation; Fisheries<br>bycatch                                      |

Working language(s) of the nominee:

English, French, Portuguese, Spanish, basic Bahasa Indonesia, Bengali, Hindi, Punjabi

Has the nominee been contacted and agreed to serve on the Advisory Committee for a two-session term, if appointed (or re-appointed, in the case of an incumbent)?

- Yes  
 Not contacted yet (will be contacted prior to the Meeting of Signatory States)  
 Other (please explain):



Other remarks in support of the nomination (use additional pages, if necessary):

Dr. Manjula Tiwari, originally from India, has extensive 29 years of experience in the Southeast Asian/Indian Ocean area in sea turtle research and conservation—she started her career working on sea turtles in the Andaman and Nicobar Islands, and has participated in the drafting of “A Marine Turtle Conservation Strategy and Action Plan for the Northern Indian Ocean” by the IUCN-Marine Turtle Specialist Group, and has analysed the country reports for the IOSEA.

For many years now, she has been the scientific and technical advisor to several countries in the IOSEA region on behalf of the US Fish and Wildlife’s Marine Turtle Conservation Fund – her work focuses on the development of nesting beach and bycatch projects in Oman, Bangladesh, India, Myanmar, Cambodia, and Indonesia.

She has initiated and led workshops/trainings in sea turtle biology, fisheries bycatch and data collection in several countries in this region: e.g., in Oman, Indonesia, Myanmar, Cambodia, as well as a Regional Training Workshop for Cambodia, Myanmar, Thailand, and Vietnam.

Recently she established the Andaman& Nicobar-Sumatra Leatherback Network to understand leatherback movement and biology along this island chain.

Her work is very multi-faceted and integrative involving governments, Embassies, NGOs, big international organizations and the local communities while developing nesting beach and bycatch programs and science-based management plans for sea turtle conservation in the countries where she works.

She brings extensive experience to the IOSEA also from all her projects around the world including the Atlantic and Pacific Oceans.

She has been an active member of the Advisory Committee (AC) for one term and the participating AC member at the IOSEA’s Northern Indian Ocean Task Force meetings.

She is happy to serve a second term on the IOSEA Advisory Committee.

Nominated by (Name of Official, Agency, Signatory State making the nomination):

FIONA BARTLETT, DEPARTMENT OF THE ENVIRONMENT AND ENERGY

AUSTRALIA  
Signature / Date:

*Fiona Bartlett*

31 July 2019.

## Memorandum of Understanding on the Conservation and Management of Marine Turtles and their Habitats of the Indian Ocean and South-East Asia

Nomination for membership of the IOSEA Advisory Committee – 2019  
(For completion by Signatory States only)

Name of nominee (Title, first name, LAST NAME): Dr Scott WHITING								
<b>THE INDIVIDUAL NOMINATED must <u>not</u> be from same country making the nomination. Please consult AC Terms of Reference, paragraph 1.</b>								
Institutional affiliation (provide full contact details, including functional email address):  Marine Science Program Department of Biodiversity, Conservation and Attractions 17 Dick Perry Av., Kensington, WA, 6151  <b>Postal Address</b> Marine Science Program Department of Biodiversity, Conservation and Attractions Locked Bag 104 Bentley Delivery Centre, WA, 6983  <i>Email: scott.whiting@dbca.wa.gov.au</i> <i>Ph 08 9219 9752</i>								
<b>For brand new nominations (only): attach current <i>Curriculum vitae</i> of the nominee</b>								
Field(s) of expertise (tick relevant boxes): <table><tr><td><input checked="" type="checkbox"/> Marine turtle biology</td><td><input type="checkbox"/> Law</td></tr><tr><td><input checked="" type="checkbox"/> Marine resource management</td><td><input type="checkbox"/> Fisheries technology</td></tr><tr><td><input checked="" type="checkbox"/> Coastal development</td><td><input type="checkbox"/> Other relevant discipline (state which, below):</td></tr><tr><td><input checked="" type="checkbox"/> Socio-economics</td><td></td></tr></table>	<input checked="" type="checkbox"/> Marine turtle biology	<input type="checkbox"/> Law	<input checked="" type="checkbox"/> Marine resource management	<input type="checkbox"/> Fisheries technology	<input checked="" type="checkbox"/> Coastal development	<input type="checkbox"/> Other relevant discipline (state which, below):	<input checked="" type="checkbox"/> Socio-economics	
<input checked="" type="checkbox"/> Marine turtle biology	<input type="checkbox"/> Law							
<input checked="" type="checkbox"/> Marine resource management	<input type="checkbox"/> Fisheries technology							
<input checked="" type="checkbox"/> Coastal development	<input type="checkbox"/> Other relevant discipline (state which, below):							
<input checked="" type="checkbox"/> Socio-economics								
Working language(s) of the nominee:  English								
Has the nominee been contacted and agreed to serve on the Advisory Committee for a two-session term, if appointed (or re-appointed, in the case of an incumbent)?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not contacted yet (will be contacted prior to the Meeting of Signatory States) <input type="checkbox"/> Other (please explain):								
Other remarks in support of the nomination (use additional pages, if necessary):								



Dr Whiting holds a PhD and has over 25 years experience in marine and turtle research, prioritisation, planning and delivery of large research programs. His work experience extends across university, non-government (WWF), state and territory governments and his own marine consultancy. He has an extensive publication record with over 50 peer reviewed papers in specialist and cross discipline journals with high profile co-authors (see CV).

Scott has been activity involved in sea turtle conservation through the development of the *Recovery Plan for Marine Turtles in Australia*, mitigation of light impacts, advice on impact assessments, as member of the IUCN Specialist Group, as an independent expert on several large industrial developments, through Marine Park Planning processes and advice to politicians at state and Federal levels. Scott was involved in the IOSEA in 2004 and 2005 as a WWF observer and was an invited speaker on the issue of marine debris.

He has demonstrated through past projects his capabilities in developing systems approaches to long-term issues and have integrated science, education, administration, data systems, planning and measurements of success. He has also been actively involved in ensuring governance models are aligned to program needs. Scott has a track record of securing funding through government grants, private industry and through leveraged partnerships with diverse stakeholders.

Scott has developed several long-term or large-scale plans that deliver multifaceted programs. A key example is the planning and delivery of the Northwest Shelf Flatback Turtle Conservation Program (NWSFTCP) (\$32.5M). The key to the success of this program is the NWSFTCP Strategic Conservation Plan 2014-2021 and several sub-plans such as the NWSFTCP Education and Communication Plan and the Indigenous Engagement, Education and Employment Pathways Plan.

Scott has developed multiple cross discipline partnerships. In his current role as coordinator of one of the largest environmental offsets in Australia Scott has developed over 40 partnerships delivering in areas on science, education and mitigation. I have been highly successful in my current role and have navigated many challenges to bring together a diverse range of stakeholders and partners to deliver over 40 components of work concurrently. Scott has broad research experiences on species groups such as sea turtles, marine mammals, sea snakes, marine pollution, seagrass and marine algae, corals, reef fish, sea birds, crocodiles. He has work experience throughout most of Australia including the Great Barrier Reef, Gulf of Carpentaria, Northern Territory, Western Australian Coast, oceanic islands in the Indian Ocean (Cocos (Keeling) Islands, Christmas Island and Ashmore Reef).

Scott has experience and/or has supervised students in the areas of monitoring trends, population dynamics, marine debris, blood chemistry, habitat mapping, animal movement, impacts of light pollution on marine turtles, feral animal impacts, health of marine megafauna, adaptive pathways and partnership networks, the impacts of climate change on marine turtles, and oceanography.

Nominated by (Name of Official, Agency, Signatory State making the nomination):

EARL POSSARDT, U.S. FISH & WILDLIFE SERVICE USA

Signature / Date:

Earl Possardt July 30, 2019

# ***CURRICULUM VITAE***

**(Extended Version)**

## **Scott Whiting**

*Ph.D. (Charles Darwin University)*  
*BSc (Hons) (James Cook University)*  
*BSc (James Cook University)*

**Australian Citizen & Resident**

### **Address and Contact Details**

*Home*

PO Box 1212,  
Bentley Delivery Centre, WA  
6983, Australia  
TEL./FAX 08 61613034  
Alternant email - [s\\_whiting@biomarine.com](mailto:s_whiting@biomarine.com)

*Work*

Marine Science Program  
Department of Environment and Conservation  
Locked Bag 104, Bentley DC  
WA, 6983, Australia  
WK 08 9219 9752  
Mobile 0413375782  
Email - [scott.whiting@dec.wa.gov.au](mailto:scott.whiting@dec.wa.gov.au)

## SUMMARY OF RANGE OF EXPERIENCE

I hold a PhD in the field of marine science (marine turtles) (Charles Darwin University) and BSc (marine biology and zoology) (James Cook University) and BSc (Hons) (zoology) (JCU). I have extensive experience in marine science research, prioritisation, planning and delivery of large research programs. My work experience extends across university, non-government (WWF), state and territory governments and my own marine consultancy. I have an extensive publication record in specialist and cross discipline journals with high profile co-authors (see CV).

I welcome and create opportunities to develop systems approaches to long-term issues and have integrated science, education, administration, data systems and planning. In my current role we have over 40 partnerships delivering in areas on science, education and mitigation. Success requires quantification and measurement and in my current role this is a high priority. Measures need to be relevant and may require traditional or innovative metrics to meet public, university and political needs. My diverse knowledge allows big picture planning and prioritization but my specialist knowledge in certain fields allows an understanding of the intricate relationships between pure and applied science in terms of public benefit and public acceptance.

I have a track record of securing funding through government grants, private industry and through leveraged partnerships with diverse stakeholders.

I currently supervise four PhD students in the fields of animal movement, impacts of light pollution on marine turtles, feral animal impacts, health of marine megafauna and adaptive pathways and partnership networks. Previous students have studied the impacts of climate change on marine turtles, oceanography and movement of threatened species.

I am a strategic thinker have developed several long-term plans that deliver multifaceted programs. A key example is the planning and delivery of the Northwest Shelf Flatback Turtle Conservation Program (NWSFTCP) (\$32.5M). The key to the success of this program is the NWSFTCP Strategic Conservation Plan 2014-2021 and several sub-plans such as the NWSFTCP Education and Communication Plan and the Indigenous Engagement, Education and Employment Pathways Plan.

Partnerships are a key to all research and conservation programs, especially in the current competitive economic climate. I will always be looking at a long-term horizon with highly adaptive and strategic short-term, mid-term and long-term plans that are measured by milestones. Measurable outputs need to be followed by measurable outcomes. I have been highly successful in my current role and have navigated many challenges to bring together a diverse range of stakeholders and partners to deliver over 40 components of work concurrently.

I have broad research experiences on species groups such as sea turtles, marine mammals, sea snakes, marine pollution, seagrass and marine algae, corals, reef fish, sea birds, crocodiles. Themes include population dynamics, spatial distribution and movement with satellite telemetry, climate change movement, blood chemistry and marine protected areas. My geographic range of experience covers inner and outer Great Barrier Reef, Gulf of Carpentaria, Northern Territory, Western Australian Coast, oceanic islands in the Indian Ocean (Cocos (Keeling) Islands, Christmas Island and Ashmore Reef).

Key strengths – Planning, prioritisation, science for conservation, developing partnerships, broad marine knowledge

## EDUCATION

### **2000 - Doctor of Philosophy at Northern Territory University**

The foraging ecology of green and hawksbill turtles foraging on two reef systems in north-western Australia

### **1993 - Bachelor of Science (Honours) at James Cook University**

The movements of foraging green turtles in Repulse Bay, North Queensland as determined by conventional radio tracking.



### **1991 - Bachelor of Science at James Cook University**

Majored in Marine Biology and Zoology. Subjects included: Fisheries Science, Coral Reef Ecology, Marine Biology, Wildlife Conservation, Population Biology, Ichthyology Biology, Biology of Marine Plants, Statistics and Impact Assessment, Invertebrate and Vertebrate Zoology, Zoological Methods, Geographical Environment, Ecological Concepts and Remote Sensing Techniques

## **SUMMARY OF RECENT POSITIONS**

**June 2011 – Principal Research Scientist, Department of Environment and Conservation, WA Government.** – Coordinator of North West Shelf Flatback Turtle Conservation Program (NWSFTCP) which is one of the Gorgon environmental offsets as well as coordinating research on other species in Western Australia (\$32.5M). In addition, Leader of WASMI Turtle Project in the Kimberley \$1.2M 2013-2018.

**Sept 2010 June 2011 – Acting Director of Marine Biodiversity Group, Department of Natural Resources, Environment and the Arts – Northern Territory Government**  
Leading the department's marine group on all research issues.

**2006 – Research Scientist, Department of Natural Resources, Environment and the Arts – Northern Territory Government.** Fulfilling NT Government obligations to NRM NHT projects, research on marine vertebrates, responding to public enquires, expert advice to assessment section, Director and national committees

**2003 - 2005 Program Officer - Turtles and Marine Management – WWF**

This position specialised in sea turtle research and management. Projects included partnerships with Indigenous Sea Rangers to manage sea turtle resources.

**2000- 2006 Principal Scientist and Proprietor - Biomarine International**

This business specialises in biological research and education for government agencies and private businesses. Clients have included: Dept. of Environment and Heritage, Canberra; Parks Australia North, Cocos (Keeling) Islands; National Oceans Office, Power and Water Authority, NT and Coral Princess Cruises (See below for details of contracts).

**2003 – Current Honorary Fellow – Charles Darwin University**

This position was awarded to Scott Whiting because of contributions made to research and for the supervision of post-graduate students.

**2001 - 2002 Research Fellow – Northern Territory University**

Studying the distribution and behaviour of dugongs in the NT. Project involved aerial surveys, satellite telemetry and GIS presentation. This project worked closely with all stake-holders including aboriginal communities.

**2001 Guest Lecturer in Marine Science at Northern Territory University**

Guest lecturers in second and third year marine biology classes

**1996 - 2002 Expedition Leader for Annual Bare Sand Island Research Trip**

Expedition leader for month long research trip to remote island offshore from Darwin. Responsibilities involved designing the specific studies, coordination of volunteers, training and safety of up to 20 personnel per trip, logistics and trip preparation, repairs and servicing of boats, obtaining funding and research permits for the project.

**2000 - Tutor in Marine Biology and Human Anatomy and Physiology at NT University**

Help to plan, conduct and mark practicals in the above subjects.

**1998-1999 Lecturer in Scientific Writing at NT University**

Coordinate and lecture in Scientific Writing

**1994-1995 Research Officer - Dugong Research Project at James Cook University, Townsville**

To assist in the study of the feeding ecology of dugongs around the Sir Edward Pellew Islands in the Gulf of Carpentaria, Northern Territory, Australia. Areas of study included identifying dugong movements using satellite telemetry, abundance using aerial survey techniques, as well as seagrass distribution and abundance. The job entailed liaison with aboriginal groups.

- 1994 Marine Biologist - Coral Princess, Townsville**  
 Interpretation of coral reef, mangrove and rainforest ecosystems to passengers aboard the Coral Princess that operated between Townsville and Cairns.
- 1992-1993 Zoologist at Queensland Parks and Wildlife Service, Townsville.**  
 To design and implement a study to assess the impact of a new resort on green sea turtles in Repulse Bay, Qld. Project included monitoring movements of turtles via radio tracking and assessment of the quality of seagrass beds. Project included liaison with private companies and local community groups.
- 1990-1992 Research Volunteer - Queensland Parks and Wildlife Service**  
 Dr. Jeffrey Miller (Townsville) and Dr Colin Limpus (Brisbane).  
 Duties included assisting in the following programs: Sea Turtle Research - Whitsunday Region, Raine Island, Gulf of Carpentaria, Bundaberg; Crocodile Research - Mt Surprise, Qld; Sea Bird surveys - Raine Island; Island Vegetation surveys - Raine Island. Other duties included maintenance of databases and the collation of information for reports.

## GRANTS AND FUNDING

- 2012 – 2019 – Leverages \$8M of project value through partnerships and collaborations.**
- 2012-2016 – (Coordinated by Parks and Wildlife) S. Whiting project lead. \$300,000 from WAMSI –Total Project Value \$1.5M.**
- 2009-2069 – (to WA Parks and Wildlife) S Whiting Coordinates the funding Northwest Shelf Flatback Turtle Conservation Program \$32.5 Million.**
- 2009 Community Based Scientific Monitoring of Sea Turtles in the NT to S. Whiting at Dept. NRETAS**  
 \$166,000 (NRETAS lead agency).
- 2008 Cetacean study (With JCU as lead agency)**  
 \$78,900 - Developing a decision process based on expert knowledge to inform the management of dugongs and coastal dolphins in Northern Australia: the Yanyuwa sea country in the Northern Territory
- 2007/2008 Recruitment of Olive Ridley Turtles in Northern Australia – to Scott Whiting at Dept. NRETAS**  
 \$36 000 Consortium between NT Government, Queensland Government and Tiwi Land Council
- 2006 Climate Change and sea turtles:**  
 \$78,000 – consortium between NT Gov, Qld Gov and WA Gov
- 2005 Natural Heritage Grant with Parks Australia North, Cocos (Keeling Islands) To PAN with Scott Whiting**  
 \$43,500 for sea turtle satellite tracking studies at Cocos (Keeling) Islands.
- 2004 Tony and Lisette Lewis Foundation – Application written by Scott Whiting for WWF**  
 \$210, 000 over three years to support Sea Turtle Research within WWF Australia
- 2004 Natural Heritage Trust – Australian Government – To Scott Whiting at WWF with Tiwi Land Council.**  
 \$112, 000 Sea Turtle Conservation on the Tiwi Islands. In partnership with the Tiwi Land Council
- 2004 Natural Heritage Trust – Australian Government – To Scott Whiting at WWF with Mabunji Resource Assoc, Borroloola.**  
 \$123,600 for Sea turtle and dugong conservation at Sir Edward Pellew Islands. Lianhawirryarra Sea Rangers at Borroloola.
- 2003 Natural Heritage Trust – Australian Government – To Scott Whiting at WWF.**  
 \$17,000 Feral dog control project to increase survivorship of olive ridley sea turtle nests

- 2003 Natural Heritage Trust – Australian Government – To Scott Whiting at WWF.**  
\$22, 000. Post nesting movements by olive ridley turtles as determined by satellite telemetry.
- 2003 Department of Environment and Heritage - To Scott Whiting at Charles Darwin University**  
\$7500 for dugong research at Ashmore Reef
- 2004 Australian Geographic – To Scott Whiting at Charles Darwin University**  
\$3,500 for Sea Turtle Project
- 2001 Coast and Clean Seas Funding NHT - Australian Government – To Scott Whiting at Charles Darwin University**  
\$99,000 - Dugong Research
- 2001 Research Office, Northern Territory University – To Scott Whiting at CDU**  
\$30,000 – Dugong Research
- 1998,1999 Centre for Tropical Wetlands, NT University**  
Small Grant – Sea Turtle Research
- 1997, 1998, 1999 Keep Australia Beautiful Committee**  
Small Grant - Marine Pollution
- 1997 Queens Trust for Young Australians**  
\$3500 – Sea Turtle Research

## **CONSULTANCIES**

### **Within Government**

- Turtle tracking (Woodside 2018) \$170,000**
- Habitat Mapping of Darwin Harbour 2010 (\$140,000)**
- Fircroft Australia NT Government for Chevron – Nov 2008- 2011 (\$20,000)**
- Woodside Australia – May 2010 – 2011 (\$5,000).**

### **Outside of Government**

- 2016 - Parks Australia North, Dept. of Environment & Heritage, (Aust. Gov't).**  
Sea Turtle Research at Cocos (Keeling) Islands, Indian Ocean.
- 2014 - Parks Australia North, Dept. of Environment & Heritage, (Aust. Gov't).**  
Sea Turtle Research at Cocos (Keeling) Islands, Indian Ocean.
- 2012 - Parks Australia North, Dept. of Environment & Heritage, (Aust. Gov't).**  
Sea Turtle Research at Cocos (Keeling) Islands, Indian Ocean.
- 2010 - Parks Australia North, Dept. of Environment & Heritage, (Aust. Gov't).**  
Sea Turtle Research at Cocos (Keeling) Islands, Indian Ocean. Year 10.
- 2006 (Dec) - Parks Australia North, Dept. of Environment & Heritage, (Aust. Gov't).** Sea Turtle Research at Cocos (Keeling) Islands, Indian Ocean. Year 7.
- 2006 – Coral Princess Cruises**  
Guest lecturer
- 2006 – Big Wave Productions**  
Filming of crocodile foraging behaviour on sea turtle beach
- 2006 - Parks Australia North, Dept. of Environment & Heritage, (Aust. Gov't)**  
Migration movements of green turtles using satellite tracking at Cocos (Keeling) Islands, Indian Ocean
- 2006 - Parks Australia North, Dept. of Environment & Heritage, (Aust. Gov't)**  
Sea Turtle Research at Cocos (Keeling) Islands, Indian Ocean. Year 6.
- 2005 - Dept. of Environment and Heritage, (Aust. Gov't)**  
Analysis and Review of Sea Turtles at Ashmore Reef
- 2005 - Parks Australia North, Dept. of Environment & Heritage, (Aust. Gov't)**  
Sea Turtle Research at Cocos (Keeling) Islands, Indian Ocean. Year 5.

- 2004 – National Oceans Office, (Aust. Gov't)**  
Review of marine snakes for the Northern Planning Region, in northern Australia
- 2004 – HoverCocos**  
Assess the potential impacts of a proposed Hovercraft service on the residents green and hawksbill sea turtles at Cocos (Keeling) Islands
- 2004 - Parks Australia North, Dept. of Environment Australia, (Aust. Gov't)**  
Sea Turtle Research at Cocos (Keeling) Islands, Indian Ocean. Year 5.
- 2003 – Dept. of Environment and Heritage, (Aust. Gov't) – Ashmore Reef Dugongs**  
Research on dugongs at Ashmore Reef
- 2003 Parks Australia North, Dept. of Environment & Heritage, (Aust. Gov't)**  
Sea Turtle Research at Cocos (Keeling) Islands, Indian Ocean. Year 4
- 2002 (Dec) Halpern Glick and Maunsell Pty Ltd.**  
Professional comments on a review of dolphins, dugongs and sea turtles in the region of the proposed tidal Power plant in King Sound near Derby
- 2002 - Northern Territory University**  
Expedition Leader for annual Sea Turtle Research Trip to Bare Sand Island, Darwin.
- 2002 Parks Australia North, Dept. of Environment & Heritage, (Aust. Gov't)**  
Sea Turtle Research at Cocos (Keeling) Islands, Indian Ocean. Year 3
- 2001/2002 – Coral Princess Cruises**  
Write Expedition Leader's Manual for the Kimberley, WA. History and Natural History of the Kimberley
- 2001 - Power and Water Authority, Darwin**  
Dugong Research Project in waters around power plant.
- 2001 - Northern Territory University**  
Expedition Leader for annual Sea Turtle Research Trip to Bare Sand Island, Darwin.
- 2001 - Environment Australia (Aust. Gov't), Canberra**  
Review of all marine reptiles for submission to SPRAT database on Rare and Threatened Species
- 2000 - Parks Australia North, Environment Australia, (Aust. Gov't)**  
Sea Turtle Research at Cocos (Keeling) Islands, Indian Ocean – Year 2
- 2000 - Northern Territory University, Aquaculture**  
Crayfish Project
- 2000- 2001 - Coral Princess Cruises**  
Guest Lecturer and Expedition Leader in the Kimberley, Arnhem Land and Cape York.
- 2000 - Northern Territory University**  
Expedition Leader for annual Sea Turtle Research Trip to Bare Sand Island, Darwin.
- 2000 – Environment Australia (Marine Protected Areas), Canberra**  
Provide advice on research and management issues at Ashmore Reef National Nature Reserve.
- 1999 - Parks Australia North, Environment Australia, (Aust. Gov't)**  
Train Parks Australia North staff and assess sea turtle resources at the Cocos (Keeling) Islands, eastern Indian Ocean. Year 1.
- 1998 - TV New Zealand / Discovery Channel - Fox Network.**  
Assist in the production of a documentary on sea snake biology and ecology at Ashmore Reef.

## PROFESSIONAL COMMITTEES AND PANELS

- Secretariat for Advisory Committee (Northwest Shelf Flatback Turtle Conservation Program) (2011- current) Establishment, terms of reference
- Marine Turtle Expert Panel (MTEP) –Independent Panel providing advice to WA and Australia Government's (Chevron Gorgon Project) 2009- Current
- IUCN Sea Turtle Specialist Group – Member
- Australian Government National Recovery Team for Marine Turtles –2004-current
- IUCN Taskforce for the Recovery of the Hawksbill Turtle – Since 2002
- Advisory Committee – Australian Marine Mammal Centre 2006-2011

- Marine Expert Advisory Panel (MEAP) – Independent Panel providing advice to Woodside Energy 2010-2011.

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### **SCIENTIFIC REVIEWS**

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I have reviewed articles for the following journals: Marine Ecology Progress Series, Endangered Species Research, Global Change Biology, Estuarine, Coastal and Shelf Science, Journal of Veterinary Medicine and Animal Health, Chelonian Conservation Biology, Veterinarski Arch, Journal of Royal Society of Western Australia, Sustainability, Marine Biology, Conservation Biology, Ecological Management and Restoration, ICES Journal of Marine Science.

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### **INVITED SPEAKER**

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- 2018 - 50 Years of Turtle research in Queensland  
2018 - Department of DoEE – Environmental Offsets  
2002-2018 – various invitations to Canberra DoEE (sea turtles of Cocos Keeling Islands, marine debris)  
2009 - International Sea Turtle Symposium, Brisbane - Olive Ridleys  
2004 - Indian Ocean Sea Turtle Memorandum of Understanding for the Indian Ocean and south east Asia (IOSEA) – UN Building, Bangkok, Thailand.

## SUPERVISION OF STUDENTS

### PhD

2019- Current	Casper Avenant – Edith Cowan University. Assessing the impact of ghost crabs on sea turtles.
2016-Current	Erina Young – Murdoch University. Investigation health and disease of sea turtles in Western Australia.
2016-Current	Phillipa Wilson – UWA How does light impact of sea turtle hatchlings at sea.
2016-Current	John Stuart - Murdoch. Understanding fox biology to better protect sea turtles at their rookeries.
2014-2018	Blair Bentley – UWA. Predicting the impacts of increasing nest temperatures associated with climate change on Western Australian sea turtles
2011-2015	Jamie Tedeschi - UWA Tedeschi, J.N. (2015). Assessing the resilience of sea turtle embryos to extreme temperatures. Ph D Thesis. The University of Western Australia, Nedlands. Pp 129.
2009-2013	Xavier Hoenner –CDU Nesting and post-nesting ecology of hawksbill sea turtles - Completed

### MASTERS

2005	Simon Gummer – CDU Tourism impacts on sea turtle nesting. Completed.
2003	Deirdre Allen – CDU Preparation of the Pulu Keeling National Park Management Plan. Masters in Tropical Environmental Management. Completed 2003.

### HONOURS

2016	Rushan bin Abdul Rahman (Murdoch University) relationship between coastal morphology and turtle nesting density and distribution
2016	Clemency Whittles (UWA) – Risk assessment of hawksbill turtles in interesting habitat
2014/15	Joanne King (Murdoch University) – Fox impacts on turtle eggs at a flatback rookery
2014/15	Natalie Robson (UWA). Robson, N. (2015). The development of a decision support system to assist in the release of rehabilitated sea turtles back into the wild. Honours Thesis. The University of WA, Nedlands
2012/13	Jessica Stubbs (UWA). Importance of Identifying the Timing of Gonad Differentiation in the Flatback Turtle ( <i>Natator depressus</i> )
2003	Megan Becker – CDU The impacts of light on flatback sea turtle hatchlings. 2nd Class Honours.
2002	Andrea Koch – CDU The effects of clutch size and nest depth on nest success and hatchling vigor of flatback sea turtles, <i>Natator depressus</i> . 1st class honours and Chancellor’s Medal.

## LICENCES AND CERTIFICATES

- 4WD Training
- Euthanasia training
- WA “C” Class drivers licence
- PADI open water SCUBA
- Coxwains Certificate (commercial boat licence)
- St John’s Ambulance Senior First Aid Certificate
- St John’s Ambulance Remote First Aid Certificate
- Shipboard safety
- Radio operators licence
- Observer leader - Aerial Search and Rescue training



## PUBLICATIONS

### THESES

*The ecology of immature green and hawksbill turtles on two reef systems in north-western Australia*  
Ph.D. Thesis. Northern Territory University, Darwin (2000).

*The movements of foraging green turtles in Repulse Bay, North Queensland as determined by conventional radio tracking.* Bachelor of Science (Honours) Thesis, James Cook University of North Queensland, Townsville. (1993).

### REFEREED PUBLICATIONS

Journal Name	Impact Factor	Number	Theme
Trends in Ecology & Evolution	15.93	1	Ecology
Molecular Ecology	6.49	1	Genetics
BioScience	6.09	1	Science
Proceedings B of Royal Society	5.05	1	Biology
Medical Journal of Australia	4.22	1	Medical
Biological Conservation	3.76	3	Biology
PLoS ONE	3.53	2	Ecology
Marine Pollution Bulletin	2.79	1	Pollution
Marine Ecology Progress Series	2.54	1	Marine
Journal of Experimental Marine Biology	2.48	2	Ecology
Endangered Species Research	2.26	2	Ecology
Marine and Freshwater Research	2.25	1	Marine Ecology
Royal Society Open	2.24	1	Conservation
Veterinary Record	2.14	1	Veterinary
Biodiversity and Conservation	2.07	1	Management
Naturwissenschaften (now Science of Nature)	2.09	1	Inter discipline
Marine Mammal Science	1.82	1	Mammal biology/ecology
Journal of Thermal Biology	1.54	1	Thermal Biology
Emu	1.52	1	Bird ecology
Wildlife Research,	1.19	2	Ecology
Raffles Bulletin of Zoology	0.91	3	SE Asian records
Marine and Freshwater Behaviour and Physiology	0.91	1	Behaviour
Journal of Herpetology	0.84	2	Herpetofauna
Australian Mammalogy	0.83	2	Mammals
Frontiers in Marine Science	0.72	1	Marine Science
Australian Journal of Zoology	0.71	3	Ecology
Chelonian Conservation Biology	0.70	1	Turtles
Comparative Clinical Pathology	0.47	1	Pathology
Conservation Science W. Aust.		2	Conservation
Climate Change Responses		1	Climate change
NT Naturalist		3	Ecology
Marine Turtle Newsletter		4	Turtles
The Beagle		2	N. Aust. records
Herpetological Review		1	Herpetofauna
Herpetofauna		1	Herpetofauna
Indian Ocean Marine Turtle Newsletter		1	Turtles
39 journals		55	



## Submitted and in Review

### Bentley

Whittles, C., Whiting, S.D., Boruff, B. Integrated assessment of multiple threats for threatened marine turtles within concentrated port infrastructure. Drafted for Marine Ecology Progress Series

Fitzsimons et al

## Accepted and In Press

### 2019

Wilson, P., Ferreira, I., Meekan, M., Whiting, S., Pendoley, K., Thums, M., Pattiaratchi, C. (Accepted and In Press). High predation of marine turtle hatchlings near a coastal jetty. Biological Conservation. IN PRESS

Hays GC, Bailey H, Bograd SJ, Bowen WD, Campagna C, Carmichael RH, Casale P, Chiaradia A, Costa DP, Cuevas E, de Bruyn PJN, Dias MP, Duarte CM, Dunn DC, Dutton PH, Esteban N, Friedlaender A, Goetz KT, Godley BJ, Halpin PN, Hamann M, Hammerschlag N, Harcourt R, Harrison A-L, Hazen EL, Heupel MR, Hoyt E, Humphries NE, Kot CY, Lea JSE, Marsh H, Maxwell SM, McMahon CR, Notarbartolo di Sciara G, Palacios DM, Phillips RA, Righton D, Schofield G, Seminoff JA, Simpfendorfer CA, Sims DW, Takahashi A, Tetley MJ, Thums M, Trathan PN, Villegas-Amtmann S, Wells RS, Whiting SD, Wildermann NE, Sequeira AMM (2019). Translating marine animal tracking data into conservation policy and management. Trends in Ecology and Evolution. <https://doi.org/10.1016/j.tree.2019.01.009>

Waayers, D., Tucker, T., Whiting, S., Groom, R., Vanderklift, M. Pillans., Rossendell, J., Pendoley, K., Hoenner, X., Thums, M., Dethmers, K., Limpus, C.J., Wirsing, A., McMahon, C., Strydom, A., Whittock, P., Howlett, K., Oades, D., McFarlane, G., Duke, T., Guinea, M., Whiting, A., Speirs, M., King, J., Hattingh, K., Heithaus, M., Mau, R., & Holley, D. (2019). ) Satellite tracking of marine turtles in south eastern Indian Ocean: a gap analysis of deployments spanning 1990-2016. Indian Ocean Marine Turtle Newsletter, 29: 23-37.

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Wilson, P., Thums, M., Pattiaratchi, C. Meekan, M. Pendoley, K., Fisher, R. and Whiting, S. Artificial light disrupts the nearshore dispersal of neonate flatback turtles (*Natator depressus*). Marine Ecology Progress Series. Pre Press

Bevan, E., **Whiting, S.**, Tucker, T., Guinea, M., Raith, A. and Douglas, R., 2018. Measuring behavioral responses of sea turtles, saltwater crocodiles, and crested terns to drone disturbance to define ethical operating thresholds. PloS one, 13(3), p.e0194460.

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### 2016

Butt, N., **Whiting, S.** and Dethmers, K., 2016. Identifying future sea turtle conservation areas under climate change. Biological Conservation. <http://dx.doi.org/10.1016/j.biocon.2016.10.012>

Salmon, M., Wyneken, J., Hamann, M. and **Whiting, S.**, 2016. Early growth and development of morphological defenses in post-hatchling flatbacks (*Natator depressus*) and green turtles (*Chelonia mydas*). Marine and Freshwater Behaviour and Physiology, pp.1-15

Hoenner, X. **Whiting, S.** Enever, G., Lambert, K., Hindell, M., McMahon, C. (2016). Nesting ecology of hawksbill turtles at a rookery of international significance in Australia's Northern Territory. Wildlife Research. <http://dx.doi.org/10.1071/WR16047>

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- Kendrick, A., Wilson, S., Friedman, K., Waples, K., **Whiting, S.**, Holmes, T., Rule, R., Halford, A., Quartermaine, T., Bobojcov, A., McCarthy, A., Stevens, D., Marshall, R., Barnes, P., Holley, D., Jennings, P., Evans, M., Dasey, M., Ossinger, S. and Holmes J. (2016). Strategic marine ecological research priorities for CALM Act marine parks and reserves 2016–2021. *Conservation Science W. Aust.* 10 : 7.
- Thums, M. M., **Whiting, S. D.**, Reisser, J., Pendoley, K. L., and Pattiaratchi, C.B., Proiettie, M. Meekan, M.G. Artificial light on water attracts turtle hatchlings during their nearshore transit. *Royal Society Open Science* 3(160142). DOI: 10.1098/rsos.160142
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- Hoenner, X., **Whiting, S.**, Hamann, M., Limpus, C., Hindell, M., McMahon, C.(2015). High resolution movements of critically endangered hawksbill turtles help elucidate conservation requirements in northern Australia. *Marine and Freshwater Research*. DOI: 10.1071/MF15013
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- Whiting, S.D.**, Guinea, M. L., Fomiatti, K., Flint, M., Limpus, C. J. (2014). Plasma biochemical and PCV ranges for healthy wild immature hawksbill (*Eretmochelys imbricata*) sea turtles. *Veterinary Record*. 17:608. doi:10.1136/vr.101396
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## 2012

- Hoenner X, **Whiting SD**, Hindell MA, McMahon CR (2012) Enhancing the use of Argos satellite data for home range and long distance migration studies of marine animals. *PLoS ONE* 7(7): e40713. doi:10.1371/journal.pone.0040713

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- Whiting, S. D.** (2008) Movements and distribution of dugongs (*Dugong dugon*) in a macro-tidal environment in northern Australia. *Australia Journal of Zoology*.
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- Reviewed New Scientist 5 Jan 2008 pg 8**
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## 2007

- Whiting, S. D.**, Long, J. L., Hadden, K., and Lauder, A. (2007). Insights into size, seasonality and biology of an olive ridley (*Lepidochelys olivacea*) nesting population in northern Australia. *Wildlife Research*, 34, 200-210.
- Koch, A. U., Guinea, M. L. and **Whiting, S. D.** (2007). Effects of sand erosion and current harvest practices on flatback sea turtles, *Natator depressus*, incubation. *Australian Journal of Zoology*. 55, 97-105.
- Whiting, S. D.**, Guinea, M. L., Limpus, C. L. and Fomiatti, K. (2007). Blood chemistry reference values for two ecologically distinct populations of foraging green turtles, eastern Indian Ocean. *Comparative Clinical Pathology*. 16,109-118.
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## 2006

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- Whiting, S. D.** and Guinea, M. L. (2005). Dugongs of Ashmore Reef and the Sahul Banks: A review of current knowledge and a distribution of sightings. *The Beagle* 2005. Supplement 1. 207-210.
- Guinea, M. L. and **Whiting, S. D.** (2005). Insights into the sea snakes of Ashmore Reef. *The Beagle* 2005. Supplement 1. 199-205.
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#### 2004

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#### 2002

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- Whiting, S. D.** (1997). Opportunistic observations of marine mammals from the coastal waters of Fog Bay, NT. *NT Naturalist* 15, 16-26.
- Whiting, S. D.** (1997). Observations of a nesting olive ridley turtle in the Northern Territory. *Herpetofauna*. 27 (2), 39-42.
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## BOOK CHAPTERS

## CONFERENCE PROCEEDINGS

#### 2018

- Young, E. Stephens, N., Whiting, SD., Vaughan-Higgins, R., Blair, D., Bannister., J., Buller, N., Miller, T., O'dea, M., Flint., M., Yeap, L., and Warren, K. Emerging Disease Discovered During Preliminary Baseline Health Investigations of Sea Turtles. In Western Australia. Australian And New Zealand College of Veterinary Scientists Conference. 5-7 July 2018. QT Hotel, Surfers Paradise, Gold Coast

- Johansen, MP., Child, DP., Cresswell, T., Harrison, JJ., Hotchkis, MAC., Howell, N., Sdraulig, S., Thiruvoth, S., Whiting, SD., Young, E.. Initial survey of plutonium at the Montebello Islands nuclear test sites: uptake in marine and terrestrial organisms in a hot-particle environment. 15th biennial South Pacific Environmental Radioactivity Association (SPERA) 6-9 November 2018.
- Wilson, P., Thums, M., Whiting, S., Pendoley, K., Meekan, M., Pattiaratchi, C. (2018). The impact of artificial light and structures on nearshore dispersal and predation rates of turtle hatchlings. Proceedings of the 38th Annual Symposium on Sea Turtle Biology and Conservation. Kobe, Japan, 2018.
- Whiting, S., Tucker, T., Fossette, S. (2018). Flatback turtle conservation priorities: the intersection of biology, pressures, economics, stakeholders and politics
- Young, E., Stephens, N., Vaughan-Higgins, R., Whiting, S., Blair, D., O'Dea, M., Bannister, J., Buller, N., Miller, T., Flint, M., Yeap, L., Warren, K. (2018). Preliminary insights into health status and pathological findings of the Indian Ocean sea turtles of Western Australia. Proceedings of the 38th Annual Symposium on Sea Turtle Biology and Conservation. Kobe, Japan, 2018.
- Tucker, T., Avens, L., Shaw, J., Limpus, C., Pendoley, K., Guinea, M., Whiting, S. (2018). Skeletochronology with flatback Turtles: can winter and summer hatchling cohorts be distinguished? Proceedings of the 38th Annual Symposium on Sea Turtle Biology and Conservation. Kobe, Japan, 2018.
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- FitzSimmons, NN., Berry, O., Feutry, P., Tucker, T., Whiting, S. (2018). New insights from genomics? Testing new approaches to population Genetics in flatback and green turtle populations in Australia. Proceedings of the 38th Annual Symposium on Sea Turtle Biology and Conservation. Kobe, Japan, 2018.

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- Johansen, MP, Child, DP, Cresswell,., Harrison, JJ, Hotchkis, MAC., Howell, N., and Whiting, S. Plutonium in marine and terrestrial organisms at the Montebello Islands nuclear test sites: dose rates to sea turtles in a hot-particle environment. 4th International Conference on Radioecology and Environmental Radioactivity (ICRER) Berlin, September 2017.
- Meekan, M, Wilson, P., Thums, M., Whiting, S., Pendoley, K., Pattiaratchi. Shedding light on the in-water behaviour of neonate flatback turtles (*Natator depressus*). The 6th international bio-logging science symposium 25–29 Sep 2017. Lake Constance, Germany
- Stuart, J-M, Whiting, S., Adams, P., Kreplins, T., Bateman, B., Fleming, T. Foxes selectively forage on beaches during nesting season. Australian Veterinary Pest Conference, Canberra 1-4 May 2017.
- Stuart, J-M., Whiting, S., Kobryn, H., Adams, P., Kreplins, T., Bateman, B., Fleming, T. Habitat use of the red fox at a flatback turtle rookery in the Pilbara, Western. Australia. Australian Wildlife Management Society. Katoomba 5-7 Dec 2017.
- Blair Bentley, Scott Whiting & Nicola Mitchell Geographic variation in temperature-dependent sex determining mechanisms and development rate of sea turtles (*Chelonia*, *Natator*) in Western Australia. Australia. Australian Society of Herpetologists Conference, June 2017 Fairbridge, Western Australia.
- Jamie N. Tedeschi, Nicola J. Mitchell, Olly Berry, Scott Whiting, Mark Meekan & Jason Kennington Flatback sea turtle embryos (*Natator depressus*) show a positive response to acute thermal stress. Australian Society of Herpetologists Conference, June 2017 Fairbridge, Western Australia.

## 2016

- Scott Whiting, Tony Tucker, Sabrina Fossette, Liz Grant, Florian Mayer, Corrine Severin, Ryan Douglas, Nichola Mitchell, Oliver Berry, Blair Bentley, Jamie Tedeschi, Nancy Fitzsimmons, Kellie Pendoley, Michele Thums, Phillipa Wilson, Joanne King, Jessica Stubbs, Erina Young, Leah Person, Kelly Howlett, John Stuart, Carolyn Williams, Craig Williams, Stuart Field, Ben Corey, Danny Barrow, Miriuwung Gajerrong Rangers, Balangarra Rangers, Wunambal Gaambera Rangers, Dambimangari Rangers, Nyul Nyul Rangers, Bardi Jawi Rangers, Yawuru Rangers, Karajarri Rangers, Nyangumarta Rangers, Ngarla Rangers and Alan Kendrick. Planning And Implementing Flatback Turtle Conservation Strategies In Western Australia., 3<sup>rd</sup> Australian Sea Turtle Symposium. August 2016, Darwin, Australia.

- Clemency Whittles, Scott Whiting. 2017. Assessing Anthropogenic Risks To Hawksbill Turtles During Their Inter-Nesting Phase At Dampier Archipelago. 3<sup>rd</sup> Australian Sea Turtle Symposium, August 2016, Darwin, Australia.
- Phillipa Wilson, Scott Whiting, Chari Pattiaratchi, Mark Meekan. 2017. Movement Of Flatback Hatchlings Through The Nearshore Zone And The Impact Of Artificial Light. 3<sup>rd</sup> Australian Sea Turtle Symposium, August 2016, Darwin, Australia.
- Dethmers, K., Treml, E. , Leiper, I., Windia Adnyana, IB., McMahon, C., Jensen, M., Whiting, S., Keogh, S. (presentation 2016). Ghost nets jeopardise the remaining olive ridley populations of the SE Asia – W Pacific Region –36<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation 29<sup>th</sup> February - 4<sup>th</sup> March Lima, Perú 2016
- Salmon M., Wyneken, J., Hamann, M., Whiting, S. Is juvenile growth pattern and morphology shaped by predation risk? Hypothesis testing through comparisons between flatbacks (*Natator depressus*) and green turtles (*Chelonia mydas*) (presentation 2016). 36<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation 29<sup>th</sup> February - 4<sup>th</sup> March Lima, Perú 2016
- Wyneken, J, Salmon, M., Hamann, M., Tucker, A. & Whiting, S. (presentation 2016). Successful and unsuccessful adhesives for use on neonate flatback Turtles (*Natator depressus*): what works and doesn't work on the "teflon Turtles" - 36<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation 29<sup>th</sup> February - 4<sup>th</sup> March Lima, Perú 2016

## 2015

- King J, Adams P, Fleming T, Bateman B, Whiting S (2015). Assessment of fox predation of flatback turtle nests using remote cameras at Mundabullangana Station (ABSTRACT). In: Australasian Wildlife Management Society 28<sup>th</sup> Annual Conference: Wildlife Management in a Changing Environment, 23-26 November, 2015, Perth, Western Australia: Book of Abstracts p. 26. Conference Organising Committee, Perth.
- Hyndes G, Heck K, Harvey E, Kendrick G, Lavery P, McMahon K, Orth R, Pearce A, Vanderklift M, Verges A, Wernberg T, Whiting S, Wilson S Tropicalization effects in temperate seagrass meadows: consequences to ecosystem processes and services. Coastal and Estuarine Research Federation. 22<sup>nd</sup> Biennial, Nov 2015.
- Whiting, S, Tucker, T, Mitchell, N, Berry, O., Pendoley, K. FitzSimmons, N. 2015. WAMSI Project 1.2.2. – Marine Turtles. P64. In: Proceedings 2015 WAMSI Research Conference. Perth, Western Australia, 30 March- 1 April 2015. Western Australian Marine Science Institution. Pp 80

## Australian Marine Turtle Symposium

### Compilers

- Whiting SD, Tucker A** (comps) (2015). Proceedings of the Second Australian and Second Western Australian Marine Turtle Symposia : Perth, 25-27 August 2014. Department of Parks and Wildlife, Kensington, WA. 102 p.
- Bentley BP, Mitchell NJ, Whiting S, Berry O (2015). Adaptive capacity of marine turtles to a warming climate: a full transcriptomic analysis (ABSTRACT). In: Proceedings of the Second Australian and Second Western Australian Marine Turtle Symposia: Perth, 25-27 August 2014 (comps SD Whiting & A Tucker), p. 15. Department of Parks and Wildlife, Kensington, WA.
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**POPULAR ARTICLES**

Meylan, A. & Whiting, S. 2008. The hawksbill's distinctive diet. SWoT Report 3, 15



## Memorandum of Understanding on the Conservation and Management of Marine Turtles and their Habitats of the Indian Ocean and South-East Asia

Nomination for membership of the IOSEA Advisory Committee – 2019  
(For completion by Signatory States only)

Name of nominee (Title, first name, LAST NAME):

Dr Jarina Jani

**THE INDIVIDUAL NOMINATED must not be from same country making the nomination.  
Please consult AC Terms of Reference, paragraph 1.**

Institutional affiliation (*provide full contact details, including functional email address*):

Level 4, SMES Building  
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Terengganu  
Tel: +609 – 6683220  
Fax: +609 – 6683193  
E-mail: jarina@umt.edu.my

**For brand new nominations (only): attach current *Curriculum vitae* of the nominee**

Field(s) of expertise (*tick relevant boxes*):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Marine turtle biology      | <input type="checkbox"/> Law   |
| <input checked="" type="checkbox"/> Marine resource management | <input type="checkbox"/> Fisheries technology                            |
| <input type="checkbox"/> Coastal development                   | <input type="checkbox"/> Other relevant discipline (state which, below): |
| <input checked="" type="checkbox"/> Socio-economics            |  |

Working language(s) of the nominee:

Has the nominee been contacted and agreed to serve on the Advisory Committee for a two-session term, if appointed (or re-appointed, in the case of an incumbent)?

- Yes  
 Not contacted yet (will be contacted prior to the Meeting of Signatory States)  
 Other (please explain):



Other remarks in support of the nomination (*use additional pages, if necessary*):

Dr Jani has a background in social sciences. Since moving into academia in 2005, she has focussed her efforts on bringing together social and applied scientists in the field of marine nature conservation. She has led human-turtle interaction projects in Malaysia and her background from social sciences should contribute expertise on approaches to conservation of the very many social/biological interactions in the IOSEA area that are underrepresented on the AC currently.

Nominated by (*Name of Official, Agency, Signatory State making the nomination*):

Gerlinde Schaeffter  
Department of Food, Environment and Rural Affairs  
UK

Signature / Date:

 19.08.19

## Dr. Jarina Mohd Jani

*B.A. (Hons), Social and Economic Administration, 1998, UFR Tours, France*

*M.Env. Management, 2004, Universiti Kebangsaan Malaysia, Malaysia*

*Ph.D Human Geography, 2011, University of Edinburgh, Scotland*

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### **Research Interest**

After years of working on various projects that involved environmental management and nature conservation with all levels of stakeholders - from international agencies to national policy makers, down to local communities - I decided to join the academia in 2005 with hope to contribute towards closing the gap that I found to exist between what is called “real” sciences and social sciences in these important fields.

Since then, my work has concentrated on the application of social science in biodiversity-related research to support sensitive ecosystem management and sustainable development. I have experience and ongoing research interests in Ecosystems Management and Sustainable Livelihoods in coastal areas as well as in Marine Protected Areas, focusing on human ecology, biodiversity conservation, and societal benefits. My role in the School of Marine and Environmental Sciences of Universiti Malaysia Terengganu is to promote and assist in the integration of social sciences into oceanographic and environmental researches, with hope to one day see a strong community of marine social scientists established in Malaysia.

### **Current and Recent Project(s)**

**Title :** Setiu Flora Women Social Entrepreneurship

**Position:** Leader

**Grant name:** Translational Research Grant (UMT); RM 128,000.

**Project Period:** 15/9/18 → ongoing

**Title :** Setiu Wetlands Monsoon Expedition

**Position:** Leader

**Grant name:** Translational Research Grant (UMT); RM 15,000.

**Project Period:** November 2018

**Title :** Setiu Community-based Mud Crab Seed Bank

**Position:** Leader

**Grant name:** Dana Pembangunan Produk dan Sumber Manusia; RM 50,000

**Project Period:** 1/1/19 → ongoing

**Title :** Elucidating The Use Of Natural Resources For Livelihood-Making Among The Local Communities Of Setiu Wetlands

**Position:** Leader

**Grant name & amount received:** Niche Research Grant Scheme (KPM) ; RM 41,700

**Project Period:** 1/1/14 → 1/7/2017

**Title :** Elucidating the human-sea turtle interactions in the Terengganu coastal areas to ensure sustainable coastal community livelihood and marine endangered species preservation.

**Position:** Leader

**Grant name & amount received:** Research Acculturation Collaborative Effort (KPM) Grant; RM 50,000

**Project Period:** 1/1/14 → 30/5/2016

## **Publications**

### **Year 2018**

**Mohd Jani, J.,** Olson, E. & Patenaude. Re-Exploring the Application of Artificial Reefs for Community-Based Fishery Management in Malaysia. In Bortone, S. A., editor. (2018). *Marine Artificial Reef Research and Development: Integrating Fisheries Management Objectives. American Fisheries Society Symposium*. Vol. 86. Bethesda, Maryland.

### **Year 2017**

**Mohd Jani, J. &** Horsali, N.A.I. In Search Of The Lost Lake Of Setiu Wetlands: Exploring The Local Awareness On Tasik Berombak. In Matthews, D. et al., (Eds). (2017). *Prosiding Seminar Ekspedisi Sainifik Tanah Bencah Setiu 2016*. Kuala Lumpur. WWF-Malaysia.

### **Year 2015**

**Mohd Jani, J.** Artificial reefs in Setiu: at a crossroad between tradition and modernity. In Mohamad, F. et al., (Eds). (2015). *Setiu Wetlands: Species, Ecosystems and Livelihoods*. Kuala Terengganu. Penerbit UMT.

**Mohd Jani, J.** Diverse Fishing Operations Of Setiu Small-Scale Fishery. In Mohamad, F., et al. (Eds).(2015). *Setiu Wetlands: Species, Ecosystems and Livelihoods*. Kuala Terengganu. Penerbit UMT.

### **Year 2014**

**Mohd Jani, J.** (2014). The perceptions of poverty among small-scale fisher-folks in Terengganu, Malaysia. *Dynamiques Internationales*, 9: 21 pages.

### **Year 2009**

Jamilah, MS, **Jarina, J.** and Amirrudin. A. (2009). BRIS ecosystem, Melaleuca swamp and Jambu Bongkok Forest Reserve - First Nature Park of Terengganu?. *Proceeding Gunung Gagau Expedition Seminar, 10/05/2009, 12/05/2009, Kenyir Lake View and Spa Resort, Terengganu*



### **Year 2007**

Jamilah, MS, Wahizatul Afzan Azmi, Amirrudin Ahmad, Muhammad Razali Salam and **Jarina Mohd Jani**. (2007). Reinforcement of the Roles of Recreational Forest in Malaysia. *Proceedings of National Forest Biodiversity: Management and Conservation 20 – 21 Mac 2007, Marriot Putrajaya Hotel, Putrajaya*.

### **Year 2006**

**Jarina Mohd Jani**. (2006). Local Fishermen Community and the Sustainable Management of Redang Island Marine Park. *Proceeding Persidangan Pertama Pembangunan Komuniti Pulau dan Pesisir Pantai 2006*. Penerbit UMT

### **Postgraduate supervision**

**Name:** Ms Long Seh Ling

**Project title:** The human ecology of sea turtle conservation in Terengganu Marine Park islands.

**Degree level:** PhD (ongoing)

**Award received:** 1st Runner-up for Best Student Presentation (Oral), ISTS 2018.

**Name:** Mr Muhammad Allim Jamalludin

**Project title:** Local community livelihood perspective of the Terengganu sea turtle egg trade.

**Degree level:** MSc (ongoing – waiting for vivae examination)

**Award received:** Best Student Presentation (Oral), PPSMS Graduate Conference 2017

**Name:** Ms Meenaksri Poti

**Project title:** Conservation and consumption of sea turtle eggs in Redang Island, Terengganu.

**Degree level:** MSc (graduated- project dissertation prepared for the degree completion)

**Award received:** Best Thesis MSc Tropimundo (Erasmus Mundus) 2018

**Name:** s Christine Rohani Longuet

**Project title:** Traditional knowledge and landscapes of medicinal plant in Terengganu: an ethnobotanical account from 1980s.

**Degree level:** PhD (ongoing)

**Name:** Ms Nur Amira Izzary Horsali

**Project title:** Mapping the local ecological knowledge and utilisation of three flora species of Setiu Wetlands.

**Degree level:** MSc (ongoing)

**Name:** Ms Nik Siti Aishah Shukor

**Project title:** Local ecological knowledge of mudcrab fishers and the sustainability of their utilisation in Setiu Wetlands.

**Degree level:** MSc (ongoing)

**Name:** Ms Ani Aiza Shaari

**Project title:** Environmental Geology in Practice: a case study in Malaysia.

**Degree level:** PhD (ongoing)



## Memorandum of Understanding on the Conservation and Management of Marine Turtles and their Habitats of the Indian Ocean and South-East Asia

Nomination for membership of the IOSEA Advisory Committee – 2019  
(For completion by Signatory States only)

Name of nominee (Title, first name, LAST NAME):

Dr Madhuri Ramesh

**THE INDIVIDUAL NOMINATED must not be from same country making the nomination.  
Please consult AC Terms of Reference, paragraph 1.**

Institutional affiliation (*provide full contact details, including functional email address*):

Dakshin Foundation,  
Andaman and Nicobar Environment Team (ANET)  
Post Bag No. 1, Junglighat Post Office,  
Port Blair 744103, Andaman & Nicobar Islands

Email: [madhuri.ramesh@dakshin.org](mailto:madhuri.ramesh@dakshin.org)

Tel: +91 8197607665

**For brand new nominations (only): attach current *Curriculum vitae* of the nominee**

Field(s) of expertise (*tick relevant boxes*):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Marine turtle biology      | <input type="checkbox"/> Law   |
| <input checked="" type="checkbox"/> Marine resource management | <input type="checkbox"/> Fisheries technology                            |
| <input checked="" type="checkbox"/> Coastal development        | <input type="checkbox"/> Other relevant discipline (state which, below): |
| <input type="checkbox"/> Socio-economics                       |  |

Working language(s) of the nominee:

English, Tamil, Hindi, Kadar  
Marwari, Nagamese, Oriya (working knowledge)

Has the nominee been contacted and agreed to serve on the Advisory Committee for a two-session term, if appointed (or re-appointed, in the case of an incumbent)?

- Yes  
 Not contacted yet (will be contacted prior to the Meeting of Signatory States)  
 Other (please explain):

Other remarks in support of the nomination (*use additional pages, if necessary*):



Dr Ramesh has over a decade of conservation management experience working on sea turtles in India and islands in the Bay of Bengal. Her applied work is interdisciplinary and she works with a wide range of stakeholders from Governments to local communities.

Nominated by (*Name of Official, Agency, Signatory State making the nomination*):

Gerlinde Schaeffter  
Department of Food, Environment and Rural Affairs  
UK

Signature / Date:

*Schaeffter* 19.08.19

# MADHURI RAMESH

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CONTACT INFORMATION: madhuri.ramesh@dakshin.org  
+91 8197607665

DATE OF BIRTH: 24<sup>th</sup> January 1980

EDUCATION: Ph.D. Conservation Science and Sustainability Studies  
(Ashoka Trust for Research in Ecology and Environment & Manipal Academy of Higher Education, 2018)

M.S. Ecology (Pondicherry University, 2003)  
B.Sc. Zoology (Madras University, 2000)

LANGUAGES: English, Tamil, Hindi, Kadar  
Marwari, Nagamese, Oriya (working knowledge)

## PROFESSIONAL EXPERIENCE

2017—: *Senior Fellow*, Dakshin Foundation, Andaman and Nicobar Environment Team (ANET)

My primary focus is on conducting interdisciplinary research on sustainable use and development of coastal resources and spaces in the Andaman and Nicobar Islands, as well as designing related interventions. I also liaison with different government agencies as well as communities; represent the institution in various state-level policy committees; teach short courses for graduate students on the postcolonial history of settler communities and their contribution to the economy of the island; supervise student dissertations/internships; assist with fund raising and library development at ANET.

2011-2017: *Doctoral program*, Ashoka Trust for Research in Ecology and the Environment, Bangalore.

Dissertation: Conservation amidst development in a nonequilibrium environment: a study of marine turtles in Odisha, India

Part of the Student Working Group from 2012 to 2016: contributed to curriculum design, built up the institutional library, arranged talks and discussions with senior scholars and organized student seminars on ongoing studies. I was a Teaching Assistant (in 2015) for the core course 'Integrated approaches in Conservation, Environment and Society'.

2010–2011: *Project Manager*, Pitchandikulam Forest, Auroville.

Projects involved restoration of tropical dry evergreen vegetation, environment education and livelihood options involving use of bioresources in villages along the Coromandel Coast, Tamil Nadu. My tasks involved coordination, proposal and report-writing and assisting with designing publicity and educational materials.

2009–2010: *Copy Editor*, Laserwords Pvt Lmt.

Edited content and style of articles for encyclopedias, books and journals for publishing companies in the UK and USA; reviewed manuscripts and compiled style sheets.

2008–2009: *Resource Person*, Nagaland's Empowerment of People through Ecological Development (NEPED) & Sálím Ali Centre for Ornithology and Natural History (SACON).

Coordinated village meetings within and between different tribes to initiate community conservation efforts in the northern districts; compiled a database on local ecological knowledge.

2007–2009: *Researcher*, Group for Nature Preservation and Education (GNAPE) & SACON.

Carried out an extensive survey and behavioural study of the Indian spiny-tailed lizard *Uromastyx hardwickii* in the Thar Desert. Also provided management input for the Desert National Park, report submitted to the Rajasthan Forest Department.

2006–2007: *Education Officer*

At GNAPE, also developed age- specific content for environmental education programs for schoolchildren, with focus on Indian biodiversity and interlinkages to the regular CBSE syllabus.

2004–2006: *Educator*, Bala Vidya Mandir Senior Secondary School.

Taught English to students of class IV to VIII and coordinated extracurricular programs for the Nature Club (turtlewalks, slideshows, composting, birding etc).

2003: *Research Assistant*, Centre for Indian Knowledge Systems (CIKS).

Assisted with archival research and report-writing for the COMPAS endogenous agriculture program, which focussed on traditional agriculture in the Kanchipuram district, Tamil Nadu.

2002–2003: *Student Researcher*, Centre for Herpetology, Madras Crocodile Bank Trust (MCBT).

Conducted an ecological study on the microhabitat, diet and morphometrics of the Travancore tortoise *Indotestudo travancorica* in the southern Western Ghats.

2000–2001: *Student Research Assistant*, SACON.

Assisted with a project assessing the reproductive, genetic and parasitic impacts of habitat fragmentation on the Lion-tailed macaque (*Macaca silenus*), in the southern Western Ghats.

1999–2000: *Student Researcher/Volunteer*, Centre for Herpetology, MCBT.

Learned to handle and maintain captive reptiles including monitor lizards, turtles, tortoises and crocodiles. Studied enclosure utilization and reproduction of the Travancore tortoise *Indotestudo travancorica* in captivity.

1997–2000: *Student Volunteer*, Students' Sea Turtle Conservation Network.

Monitored nesting of Olive ridleys (*Lepidochelys olivacea*) along the south Madras coast. Assisted with relocation of nests, conducting guided walks for the public and raised funds.

*Other activities:*

2018— Reviewer. Research in Translation, Current Conservation.

2016 & 2015. Resource person. *Exploring the 'loose contact' between the text and practice in field biology*. In: 'What is behind a scientific paper?' workshop at the Student Conference on Conservation Science (SCCS), with Pankaj Sekhsaria, John Mathew and Hari Sridhar.

2013. Reviewer. Journal of Threatened Taxa

2013. Reviewer. Critical Ecosystems Partnership Fund's Western Ghats Small Grants Programme

## ARTICLES/MONOGRAPHS/REPORTS

- Oommen, M. A. Cooney, R., Ramesh, M., Archer, M., Brockington, D., Büscher, B., Fletcher, R., Natusch, D. J. D., Vanak, A. T., Webb, G., and Shanker, K. 2019. The fatal flaws of compassionate conservation. *Conservation Biology*. Pre-print version: <https://onlinelibrary.wiley.com/doi/abs/10.1111/cobi.13329>
- Oommen, M. A. and Ramesh, M. 2019. Tides of change in the Andaman and Nicobar Islands. *Ecology, Economy and Society—the INSEE Journal* 2(1): 145-149.
- Ramesh, M. and Namboothri, N. 2018. Maximum sustainable yield: a myth and its manifold effects. *Economic & Political Weekly* 53: 58-63.
- Bijoor, S., Sharma, D., and Ramesh, M. 2018. Management of Marine Protected Areas in the Andaman Islands: Two case studies. Technical report. Dakshin Foundation, Bangalore. 40 pp.
- Ramesh, M. 2018. Conservation amidst development in a nonequilibrium environment: a study of marine turtles in Odisha, India. PhD dissertation: Ashoka Trust for Research in Ecology and the Environment and Manipal Academy of Higher Education.
- Ramesh, M. and Shanker, K. 2018. From fishes to flagship. *Seminar* 702: 37-40.
- Muralidharan, R. and Ramesh, M. 2017. Marine protected areas in India: Protection for whom? In: *Occupation of the Coast: Blue Economy in India*. Programme for Social Action, New Delhi. 102-104.
- Ramesh, M. and Rai, N. 2017. Trading on conservation: A marine protected area as an ecological fix. *Marine Policy* 82: 25-31.
- Ramesh, M. 2014. Contributor *In* Srinivasulu C, Srinivasulu B and Molur S (Compilers). The status and distribution of reptiles in the Western Ghats, India. CAMP. Wildlife Information Liaison Development Society. Coimbatore. 148 pp.
- Ramesh, M. and Sankaran, R. 2013. Natural history of the Indian spiny-tailed lizard *Uromastyx hardwickii* In: *Faunal Heritage of Rajasthan, India*. (Eds: BK Sharma, S Kulshreshtha and AR Rahmani). Vol I: 295-310. Springer, New York.
- Deepak, V., Ramesh, M., Bhupathy, S. and Vasudevan, K. 2011. *Indotestudo travancorica* (Boulenger, 1907) – Travancore tortoise. In: *Conservation Biology of Freshwater Turtles and Tortoises: A compilation project of the IUCN/SSC Tortoise and Freshwater Turtle Specialist Group* (Eds: Rhodin et al). *Chelonian Research Monographs* No.5, pp 054.1-054.6.
- Ramesh, M. 2008. Preliminary survey of the Travancore tortoise *Indotestudo travancorica* from the Indira Gandhi Wildlife Sanctuary, India. *Hamadryad* 33:118-120.
- Ramesh, M. 2008. Relative abundance and morphometrics of the Travancore tortoise *Indotestudo travancorica* in the Indira Gandhi Wildlife Sanctuary, southern Western Ghats, India. *Chelonian Conservation and Biology* 7:108-113.
- Ramesh, M. and Ishwar, N.M. 2008. Status and distribution of the Indian spiny-tailed lizard *Uromastyx hardwickii* in the Thar Desert, western Rajasthan. *GNAPE Technical Report No T02*. Group for Nature Preservation and Education, India. 48pp.
- Ramesh, M. 2007. Hole-nesting in captive *Indotestudo travancorica*. *Journal of the Bombay Natural History Society* 104(1): 101.

- Ramesh, M. and Parthasarathy, N. 2006. A note on the diet of the Travancore tortoise (*Indotestudo travancorica*). Journal of the Bombay Natural History Society 103 (1): 106.
- Ramesh, M. 2004. A note on external injury on wild Travancore tortoises (*Indotestudo travancorica*). ReptileRap, South Asian Reptile Network Newsletter (6): 1.
- Ramesh, M. 2004. Long distance dispersal by a Travancore tortoise (*Indotestudo travancorica*). Hamadryad 27 (1): 105.
- Ramesh, M. 2002. Observations on the Travancore tortoise (*Indotestudo forstenii*) in captivity. ReptileRap, South Asian Reptile Network Newsletter 4: 4.

## CONFERENCE PRESENTATIONS

2018. Fixed ideas in fluid contexts: research and management of olive ridley turtles in Odisha, India. In: Making Science Matter, International Marine Conservation Congress V, organized by the Society for Conservation Biology, Marine Section.
2018. Displacements: a panel discussion. Local node of the biennial conference of the Society for Cultural Anthropology, organised by the Bangalore Research Network and National Institute for Advanced Studies, Bangalore, India.
2017. "There's no such thing as a turtle expert": Technologies of rule in wildlife conservation. In: The Value of Life: Measurement, Stakes, Implications organised by the Centre for Space, Place & Society, University of Wageningen, Netherlands.
2017. Frenemies: unpacking neoliberal support and its consequences for the Gahirmatha Marine Sanctuary, eastern India. In: MARE People and the Sea Conference organised by the Centre for Maritime Research, University of Amsterdam, Netherlands.
2017. Frenemies: unpacking neoliberal support and its consequences for the Gahirmatha Marine Sanctuary, eastern India. Department of International Environment and Development Studies (NORAGRIC), Norwegian University of Life Sciences (NMBU), Norway.
2013. Status and distribution of the Indian Spiny-tailed lizard (*Saara hardwickii*) in the Thar desert. In the Grants Recipients Conference (India), The Rufford Foundation. Organised by Foundation for Ecological Research, Advocacy and Learning (FERAL), Pondicherry, National Centre for Biological Sciences (NCBS), Bengaluru and Researchers for Wildlife Conservation (RWC).

## POPULAR WRITING

- Sharma, D., Ramesh, M. and Bijoor, S. 2018. Development in Andaman and Nicobar Islands: for tourism or by tourism? Andaman Chronicle (Oct 5, 2018).
- Ramesh, M. and Shanker, K. 2018. Turtle and I. Current Conservation 12.4 <https://www.currentconservation.org/issues/the-turtle-and-i/>
- Ramesh, M. 2018. Tracking tortoises. Current Conservation 12.3. <https://www.currentconservation.org/issues/tracking-tortoises/>

Shanker, K. and Ramesh, M. 2017. Turtle song. Current Conservation 11.2.  
<https://www.currentconservation.org/cc-kids/turtle-song/>

Ramesh, M. and Chandi, M. 2017. Walking is a way of knowing: In a Kadar forest.  
Tara Books, Chennai.

Chandi, M. and Ramesh, M. 2017. Speaking to an elephant and other tales from the Kadar.  
Tara Books, Chennai.

Ramesh, M. and Muralidharan, M. Turning Turtle. The Hindu (Dec 1, 2016).

## GRANTS

2017: Edda Sehgal Travel Grant

Royal Norwegian Embassy Student Exchange Grant

2014–2016: The Rufford Maurice Laing Foundation (Rufford Small Grants Programme, RSG II)

2006–2007: The Rufford Maurice Laing Foundation (Rufford Small Grants Programme, RSG I)

2006–2007: Idea Wild

2002–2003: Centre for Herpetology, Madras Crocodile Bank Trust