



Coastal light pollution and marine turtles: assessing the magnitude of the problem

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ABSTRACT: Globally significant numbers of marine turtles nest on Australian beaches; however, the human population of Australia is also heavily concentrated around coastal areas. Coastal development brings with it increases in artificial light. Since turtles are vulnerable to disorientation from artificial light adjacent to nesting areas, the mitigation of disruption caused by light pollution has become an important component of marine turtle conservation strategies in Australia. However, marine turtles are faced with a multitude of anthropogenic threats and managers need to prioritise impacts to ensure limited conservation resources can result in adequate protection of turtles. Knowledge of the extent to which nesting areas may be vulnerable to light pollution is essential to guide management strategies. We use geographical information system analysis to over-lay turtle nesting data onto night-time lights data produced by the NOAA National Geophysical Data Center, to assess the proportion of marine turtles in Australia potentially at risk from light pollution. We also identify the Australian nesting sites which may face the greatest threat from artificial light. Our assessment indicates that the majority of nesting turtles appear to be at low risk, but population management units in Western Australia and Queensland are vulnerable to light pollution. The risk to turtles from light generated by industrial developments appears significantly higher than at any other location. Consequently, managers of turtle management units in regions of proposed or on-going industrial development should anticipate potentially disrupted turtle behaviour due to light pollution. Our methodology will be useful to managers of turtles elsewhere.

KEY WORDS: Artificial light · Orientation · Coastal development · GIS analysis · Vulnerability assessment

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INTRODUCTION

The human population on Earth is expanding rapidly (Steck et al. 2010), and artificial light is fundamental to the functioning of modern society. Yet while humans have become accustomed to artificial cycles of light and dark, other species, especially nocturnal or crepuscular organisms, may depend upon natural light cycles for successful functioning (Kramer & Birney 2001). As a result, the amount of artificial light now used around the world is causing

some concern among scientists and conservationists (Rich & Longcore 2006). On a global scale, the growth of human populations in coastal zones is occurring faster than human population growth in general (Nicholls 1995). Due to this disproportionate growth, coastal habitats have become some of those most vulnerable to light pollution (Bird et al. 2004).

Marine turtles are arguably the best-known example of an organism adversely affected by coastal lighting (Witherington & Martin 2000, Salmon 2003). Dependence upon visual brightness cues for 'sea-

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The Montenegrin Adriatic Coast Aleksandar Joksimović, Mirko Đurović, Igor S. Zonn, Andrey G. Kostianoy, Aleksander V. Semenov, 2021-06-23 This is the first of two volumes that together provide an integrated picture of the Montenegrin Adriatic coast presenting the natural components of the system as well as the chemical composition and chemical processes in the extended area This book describes the biology and ecology of the high seas of the Montenegrin coast with a special focus on their biodiversity flora and fauna fisheries mariculture marine reptiles and mammals The data has been collected through national and international projects over the last few decades and provides the reader with models and recommendations for the protection of this vital region of the Adriatic coast as well as scientific recommendations for the sustainable use of its biological resources Given the breadth and depth of its coverage the book offers an invaluable source of information for researchers students and environmental managers alike

One Health Concepts and the Aquatic Ecosystem Laura D. Urdes, Chris Walster, Julius Tepper, 2025-10-01 Oceans and other wetlands cover approximately 70% of the Earth's surface and represent some of the most vital and dynamic ecosystems on the planet These aquatic environments provide essential functions that support both planetary and human well being from regulating climate through carbon sequestration and influencing weather patterns to sustaining biodiversity and supplying food and livelihoods to billions of people They act as buffers against extreme weather events nurseries for marine life and crucial components of global nutrient and water cycles This textbook explores the interconnectedness between aquatic ecosystems and human health through the lens of the One Health approach It also aligns with a number of the United Nations Sustainable Development Goals and has been written as an accessible resource for students researchers and practitioners working within the One Health framework

The Unruly Ocean Erika Techera, Joy McCann, 2024-11-13 This book introduces non specialist readers to the history of how human societies have sought to control use and exploit our oceans seas and shorelines over time in different geographical and cultural contexts The Unruly Ocean examines the development of the modern international legal regime the law of the sea maritime law marine environmental and pollution law fisheries regulation and underwater cultural heritage law and considers how effective these laws have been in addressing the many challenges facing marine and coastal environments ranging from piracy and war to oil spills and the extraction of marine resources It concludes by discussing the socio ecological crises facing the world's oceans seas and shorelines and explores current ideas for reimagining a legal regime that restores the health of our oceanic realm and offers a more holistic transboundary rights based approach to ocean governance This book will be of value to law and non law undergraduate and postgraduate students as well as research scholars and other educated audiences interested in a legal history of the world's oceans seas and shorelines

Proceedings of the Twenty-second Annual Symposium on Sea Turtle Biology and Conservation Jeffrey Aleksandr Seminoff, 2003

Wildlife Research, 2014 *Understanding, Assessing, and Resolving Light-pollution Problems on Sea Turtle Nesting*

Beaches Blair E. Witherington, 1996 The Biology of Sea Turtles, Volume III Jeanette Wyneken, Kenneth J. Lohmann, John A. Musick, 2013-03-25 Since the first volume of *The Biology of Sea Turtles* was published in 1997 the field has grown and matured in ways few of the authors would have predicted particularly in the areas of physiology behavior genetics and health Volume III presents timely coverage of emerging areas as well as the integration of approaches and information that did not exist even a decade ago The book assembles the foremost experts in each topic to provide the most up to date and comprehensive book on sea turtles available today New areas covered include in vivo imaging of structure spatial distributions of marine turtles at sea epibiosis imprinting parasitology and climatic effects Life history is explored in three chapters covering age determination predator prey interactions and mortality from bycatch The Biology of Sea Turtles Volume III will inspire scientists and students to explore and expand their understanding of these intriguing animals The book provides clear baseline summaries thoughtful syntheses and effective presentation of the most fundamental topics spanning form and function health distributions behavior genetics evolution and ecology Its scope and depth make it the definitive go to reference in the field *Impacts of Coastal Roadway Lighting on Endangered and Threatened Sea Turtles* Michael Salmon, 2003 Journal of Land Use & Environmental Law , 1997 **Proceedings of the Twenty-first Annual Symposium on Sea Turtle Biology and Conservation, 24 to 28 February 2001, Philadelphia, Pennsylvania, USA** , 2005 **A Global Strategy for the Conservation of Marine Turtles** IUCN/SSC Marine Turtle Specialist Group, 1995 *Recovery Plan for Leatherback Turtles in the U.S. Caribbean, Atlantic, and Gulf of Mexico (Dermochelys Coriacea)* , 1992 Chelonian Conservation and Biology , 2006 *Shore and Beach* , 2007 *Alabama Wildlife: Conservation and management recommendations for imperiled wildlife* Ralph Edward Mirarchi, 2004 Volume 5 offers an all inclusive and complete update of the four previously published volumes **Zoological Studies** , 2009 Coastal Light Pollution in Australia Ruth Lisa Elaine Kamrowski, 2014 *FMRI Technical Reports* , 1996 Pollution Abstracts , 1997 **Vanishing Night Skies** David J. Simon, 1999

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