CV
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Overview

I am a wildlife biologist with a diverse background in research, conservation and environmental management. A common theme during my 15yr career has been the design and implementation of wildlife monitoring to provide robust information on status and trends in populations and communities. My PhD on seabirds, and subsequent research in Antarctica and Tasmania, mainly focused on defining spatial habitat use and identifying drivers of breeding success and population dynamics in key species.

Current projects involve statistical analysis of long term datasets on mammal, reptile, and bird communities. I use various modelling approaches to identity spatial and temporal trends in occupancy, abundance, and community structure to inform management and conservation. Through this work, and a range of other ongoing research collaborations, I strive to identify how species and communities responding to, and coping with habitat loss, anthropogenic pressures, and climatic changes.

Relevant Background

- Telemetry and GIS on a range of seabirds to model patterns of spatial habitat use, and identify key feeding and breeding habitat
- Surveyed seabird breeding colonies using a range of methods to identify preferred habitats and estimate population size
- Monitored seabird foraging and breeding to gauge their performance, detect change, and investigate potential drivers of change
- Identified threatening process to key bird and mammal species and entire communities, and subsequently developed and implemented management actions, and prepared management plans

The majority of my work experience has involved state and federal government agencies and consulting firms. I have been involved in all elements of scientific research from its conceptualisation and design, to writing ethics approvals and tenders, to field research and data management. I also have extensive experience in the analysis of statistical and spatial data, and in the writing of environmental impact assessment reports, technical reports, and scientific papers.

Education

2004-2009: Phd,
University of Adelaide, SA
1998-1999: Bachelor of Science (Zoology, First class Honours)
The University of Tasmania, TAS
1995-1997: Bachelor of Science (Zoology Major),
The University of Tasmania, TAS

Publications

Available at
http://www.researchgate.net/profile/Luke_Einoder/

Key Positions - Major Duties

Terrestrial Scientist - Flora and Fauna Division,
Department of Land Resource Management, NT

- Data analyst and ecological modeller
- Provide advice on development applications regarding threatened species and wildlife communities

Biodiversity Officer - Derwent Estuary Program, TAS

- Implemented biodiversity components of grants focussing on the monitoring, protection and restoration of estuarine and coastal habitats and wildlife
- GIS mapping for flora and fauna management and field projects
- Compiled reports and assisted in the preparation of a conservation action plan for the Derwent estuary
- Implemented research projects on heavy metal contamination in estuarine birds, and condition of moth communities in coastal habitats

Avian Ecologist - Australian Antarctic Division, TAS

- Ran a summer research program on Adélie Penguins and Snow Petrels in East Antarctica
- Designed and implemented a monitoring program on snow petrels
- Modelled habitat preferences of snow petrel
- Undertook population surveys and made population estimates
- Analysed and interpreted annual and long term population trends

Ornithologist - Environment and Biodiversity Services, SA

- Designed and implemented monitoring programs, and performed field surveys of species and communities
- Provided advice to a wide range of clients in the mining and energy industry
- Assessed bird habitat utilisation at wind farm instillations in coastal and agricultural regions
- Performed surveys of shorebird and waterbird foraging distribution and habitat usage for environmental impact assessment

GIS Modeller - Centre for Environmental Management
Central Queensland University, QLD

- Mapped threatened species distributions from varied data sources
- Developed habitat utilisation models for a wide-range of threatened species to identify areas of vital habitat to assist in landscape management

Technical Officer - Arthur Rylah Institute, VIC

- Implemented surveys of native mammals and feral predators to assess the effectiveness of varied management methods in temperate mixed forests

Guest University Lecturer - University of Tasmania, TAS

- Prepared and delivered lectures to undergraduate and Master's students seabird communities of the Southern Ocean, and seabirds as indicators of marine environmental health and fisheries management