

Islands and Evolution

Islands and Evolution

Valentín Pérez-Mellado and M^a. M. Ramon (editors)

Maó, 2010



Islands and Evolution

Islands and Evolution / Valentín Pérez-Mellado and M^o. M. Ramon (eds.) - Menorca: Institut Menorquí d'Estudis, 2010.- (Recerca; 19).- 320 p.; 23,5 cm.
DL: S.1401-2010

Papers should be cited as (e.g.):

Hansen, Dennis M. On the use of taxon substitutes in rewilding projects on islands *in*: Pérez-Mellado, V. & Ramon, M^o. M. (eds.), *Islands and Evolution*, pp. 111-146. Institut Menorquí d'Estudis. Recerca, 19. Maó, Menorca.

Published by Institut Menorquí d'Estudis

Crèdits

Portada: *Podarcis lilfordi*. Fotografia: Pepa Carbonell

Edició: Institut Menorquí d'Estudis. Camí des Castell, 28. 07702 Maó (Menorca)

Realització: Jet Print Artes Gráficas. Salamanca

ISBN: 978-84-95718-82-2

Depòsit Legal: S.1401-2010

Impress en paper ecològic

CONTENTS

FOREWORD	9
GRANT, B. ROSEMARY AND GRANT, PETER R.: EVOLUTION OF DARWIN'S FINCHES	11
BERRY, R.J. (SAM): STANDING ON THE SHOULDERS OF GIANTS: WOLLASTON, WALLACE, DARWIN, HOOKER AND MORE	27
ALCOVER, JOSEP ANTONI: A CENTURY OF INSULAR VERTEBRATE PALAEONTOLOGY RESEARCH ON THE BALEARIC ISLANDS	59
FERNÁNDEZ-PALACIOS, JOSÉ MARÍA: WHY ISLANDS?	85
HANSEN, DENNIS M.: ON THE USE OF TAXON SUBSTITUTES IN REWILDING PROJECTS ON ISLANDS	111
OLESEN, JENS M.; CARSTENSEN, DANIEL W. AND DUPONT, YOKO L.: ISLAND POLLINATION: WAYS TO SOLVE THE SPECIES POVERTY PROBLEM	147
GLICK, THOMAS F.: "SO PERMANENT A BREATH:" DARWIN, LYELL, HOOKER, AND THE PROBLEM OF "TRANSPORTAL"	171
ADSRSEN, HENNING: THE MACARTHUR-WILSON PLOT – CAN IT BE USED ELSEWHERE THAN IN TEXTBOOKS?	185
AFONSO PONCE, OSCAR: THE CASE OF LA GOMERA'S GIANT LIZARD IN THE BIOGEOGRAPHY OF THE CANARY ISLANDS GALLOTIA	203
BIAGGINI, MARTA; CORTI, CLAUDIA; PÉREZ-MELLADO, VALENTÍN; KLETECKI, EDUARD AND TVRTKOVIĆ, NICOLA: ESCAPE BEHAVIOUR OF THE LACERTID LIZARD <i>PODARCIS MELISELLENSIS</i> (SAURIA, LACERTIDAE) IN SOME SMALL ISLANDS OF DALMATIA. PRELIMINARY DATA	211
CASTILLA, A.M.; COOPER, W.E. AND PONS, G.X.: THE EFFECT OF MOONLIGHT VARIATION ON SCORPION (<i>BUTHUS OCCITANUS</i>) ACTIVITY IN THE COLUMBRETES ISLANDS (MEDITERRANEAN, SPAIN)	221

COOPER, WILLIAM E. JR. AND PÉREZ-MELLADO, VALENTÍN: ISLAND TAMENESS: REDUCED ESCAPE RESPONSES AND MORPHOLOGICAL AND PHYSIOLOGICAL ANTIPREDATORY ADAPTATIONS RELATED TO ESCAPE IN LIZARDS	231
DELICADO, DIANA; RAMOS, MARIAN AND MACHORDOM, ANNIE: PRELIMINARY DATA ON MORPHOLOGICAL VS MOLECULAR DIVERGENCES BETWEEN ISLANDS AND IBERIAN POPULATIONS OF FRESHWATER GENUS <i>PSEUDAMNICOLA</i> PAULUCCI 1878 (MOLLUSCA: GASTROPODA: HYDROBIIDAE)	255
KÖHLER, MEIKE: FAST OR SLOW? THE EVOLUTION OF LIFE HISTORY TRAITS ASSOCIATED WITH INSULAR DWARFING	261
LORENZO-CARBALLA, MARÍA OLALLA; CORDERO-RIVERA, ADOLFO AND ANDRÉS, JOSÉ A.: ISLANDS AND PARTHENOGENESIS: GENETICAL AND ECOLOGICAL CORRELATES OF ASEXUAL REPRODUCTION IN <i>ISCHNURA HASTATA</i> (INSECTA: ODONATA, COENAGRIONIDAE) . . .	281
VALDECASAS, ANTONIO, G.: BIODIVERSITY HERITAGE LIBRARY (BHL): A NEW DIGITAL PORTAL FOR BIODIVERSITY STUDIES	309

FOREWORD

2009 was obviously the Darwin Year. Around the world, a myriad of conferences, symposia, congresses and other events celebrated the double date of 200 years from Darwin's birth and 150 years from the publication of the first edition of the Origin. Islands are widely recognized as key habitats in the development of first evolutionary ideas of Charles Darwin, as well as important sites for present day studies on Evolution. For this reason, we decided to organize an International Symposium of Islands and Evolution in an island, Menorca (Balearic Islands, Spain) within the Mediterranean basin. Our objective was to celebrate Darwin's dates with a multidisciplinary meeting, selecting a group of first class plenary lecturers and a wide representation of present day research on insular ecosystems. We tried to include historical views of evolutionary theories in relation to islands, as well as reviews of present day knowledge of different topics, from fossil record and insular Biogeography to adaptive radiation in islands and the evolution of plant-animal interactions. We are glad to present here the results of this International Symposium on Islands and Evolution that was held during September 2009 in Maó, Menorca. The Symposium was a part of the events sponsored by 2009: Any Darwin a les Illes Balears (Govern de les Illes Balears and Universitat de les Illes Balears) and supported by the following institutions (in alphabetical order): Ajuntament d'Alaior, Ajuntament de Maó, Club Náutico de Maó, Consell Insular de Menorca, Conselleria d'Innovació i Energia del Govern Balear, Institut d'Estudis Catalans, Institut Menorquí d'Estudis, Ministerio de Educación y Cultura and Museu de Menorca, Obra Social Sa Nostra, Caixa de Balears.

All submitted manuscripts were subjected to a review process. We acknowledge the competent task of the following reviewers: R.P. Brown (Liverpool, United Kingdom), José A. Castro (Palma, Spain), V. Pérez-Mellado (Salamanca, Spain), Antònia Picornell (Palma, Spain) and B. Terrassa (Palma, Spain).

Salamanca and Palma, September, 2010
Valentín Pérez-Mellado and M^a M. Ramon, Editors

