1. Record Nr. UNINA9910457899103321

Titolo	Evolutionary conservation biology / / edited by Regis Ferriere, Ulf Dieckmann, and Denis Couvet [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2004
ISBN	1-107-14714-X 1-280-54072-9 9786610540723 0-511-21423-5 0-511-21602-5 0-511-21065-5 0-511-32719-6 0-511-54202-X 0-511-21242-9
Descrizione fisica	1 online resource (xvi, 428 pages) : digital, PDF file(s)
Collana	Cambridge studies in adaptive dynamics ; ; 4
Disciplina	333.95/16
Soggetti	Conservation biology Adaptation (Biology) Evolutionary genetics Nature - Effect of human beings on
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	From individual interactions to population viability / Wilfried Gabriel and Regis Ferriere -- Age structure, mating system, and population viability / Stephane Legendre -- Spatial dimensions of population viability / Mats Gyllenberg, Ilkka Hanski and Johan A.J. Metz -- Responses to environmental change : adaptation or extinction / Richard Frankham and Joel Kingsolver -- Empirical evidence for rapid evolution / David Reznick, Helen Rodd and Leonard Nunney -- Genetic variability and life-history evolution / Kimberly A. Hughes and Ryan Sawby -- Environmental stress and quantitative genetic variation / Alexandra G. Imasheva and Volker Loeschcke -- Fixation of new mutations in small populations / Michael C. Whitlock and Reinhard Burger -- Quantitative-

genetic models and changing environments / Reinhard Burger and Christoph Krall -- Adaptive dynamics and evolving biodiversity / Ulf Dieckmann and Regis Ferriere -- Genetic structure in heterogeneous environments / Oscar E. Gaggiotti and Denis Couvet -- Conservation implications of niche conservatism and evolution in heterogeneous environments / Robert D. Holt and Richard Gomulkiewicz -- Adaptive responses to landscape disturbances : theory / Kalle Parvinen -- Adaptive responses to landscape disturbances : empirical evidence / Bruno Colas, Chris D. Thomas and Ilkka Hanski -- Coevolutionary dynamics and the conservation of mutualisms / Judith L. Bronstein, Ulf Dieckmann and Regis Ferriere -- Ecosystem evolution and conservation / Michel Loreau, Claire de Mazancourt and Robert D. Holt -- The congener as an agent of extermination and rescue of rare species / Donald A. Levin.

Sommario/riassunto

As anthropogenic environmental changes spread and intensify across the planet, conservation biologists have to analyze dynamics at large spatial and temporal scales. Ecological and evolutionary processes are then closely intertwined. In particular, evolutionary responses to anthropogenic environmental change can be so fast and pronounced that conservation biology can no longer afford to ignore them. To tackle this challenge, areas of conservation biology that are disparate ought to be integrated into a unified framework. Bringing together conservation genetics, demography, and ecology, this book introduces evolutionary conservation biology as an integrative approach to managing species in conjunction with ecological interactions and evolutionary processes. Which characteristics of species and which features of environmental change foster or hinder evolutionary responses in ecological systems? How do such responses affect population viability, community dynamics, and ecosystem functioning? Under which conditions will evolutionary responses ameliorate, rather than worsen, the impact of environmental change?