



Edited By
Emmanuel Reynard and José Brilha



Geoheritage

Assessment, Protection, and Management

Geoheritage

Assessment, Protection, and Management

Edited by:

Emmanuel Reynard University of Lausanne, Switzerland

Jose Brilha University of Minho, Portugal



The first reference book presenting state-of-the-art research on geoheritage and geoconservation around the World

KEY FEATURES

- Written by a panel of 46 authors from 14 countries in all continents
- Based on conceptual, methodological, and applied research carried out by academics and practitioners
- Includes 160 colour images and maps of geoheritage sites
- Features six case studies from sites in Africa, Asia, Australia, Europe, North America and South America

DESCRIPTION

For the last 20 years there has been a growing interest in the geosciences for topics related to geoheritage: geoconservation, geotourism and geoparks. *Geoheritage: Assessment, Protection, and Management* is the first and only reference book to cover these main topics as well as the relationship of geoheritage to other subjects such as landscapes, conservation, and tourism. The book also includes methodologies for assessment, mapping, and visualisation, along with case studies and colour images of some of the most important global geosites. This book is an essential resource for geoscientists, park and geopark managers, tourism and regional planning managers, as well as university students interested in geoheritage, geosites, geomorphosites, geoconservation, and geotourism. It also includes critical information on UNESCO's Global Geoparks, World Heritage and Biosphere Reserve sites, national parks and protected areas in general, land-use planning and nature conservation policies, and in the general contribution of geodiversity for sustainable development.

ISBN: 978-0-12-809531-7

PUB DATE: December 2017

LIST PRICE: \$150.00

FORMAT: Paperback

PAGES: c. 460

TRIM: 7.5w x 9.25h

AUDIENCE

Geoscientists, park and geopark managers, tourism and regional planning managers, as well as university students interested on geoheritage, geosites, geomorphosites, geoconservation, geotourism, geodiversity, UNESCO's Global Geoparks, World Heritage and Biosphere Reserve sites, national parks and protected areas in general, land-use planning and nature conservation policies, and in the general contribution of geodiversity for sustainable development

EARTH & ENVIRONMENT

Geology

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.

TABLE OF CONTENTS

Geoheritage: A Multidisciplinary and Applied Research Topic

Emmanuel Reynard and José Brilha

Geodiversity

1. Geodiversity: The Backbone of Geoheritage and Geoconservation

Murray Gray

2. Methods for Assessing Geodiversity

Zbigniew Zwoliński, Alicija Najwer and Marco Giardino

3. Geodiversity Action Plans – A Method to Facilitate, Structure, Inform and Record Action for Geodiversity

Lesley Dunlop, Jonathan Larwood and Cynthia Burek

Geoheritage

4. Geoheritage: Inventories and Evaluation

José Brilha

5. The Specificities of Geomorphological Heritage

Paola Coratza and Fabien Hobléa

6. Fossils, Heritage and Conservation: Managing Demands on a Precious Resource

Kevin N. Page

7. Geoheritage and Museums

Patrick De Wever and Michel Guiraud

8. The Landscape and the Cultural Value of Geoheritage

Emmanuel Reynard and Christian Giusti

9. Geomining Heritage as a Tool to Promote the Social Development of Rural Communities

Josep Mata Perelló, Paul Carrión, Jorge Molina, and Roberto Villas-Boas

10. GSSPs as International Geostandards and as Global Geoheritage

Stannley C. Finney and Asier Hilario

Geoheritage and Conservation

11. The Conservation of Geosites: Principles and Practice

Colin D. Prosser, Enrique Díaz Martínez and Jonathan G. Larwood

12. Geoheritage Conservation and Environmental Policies: Retrospect and Prospect

John E. Gordon, Roger Crofts and Enrique Díaz-Martínez

13. Geoheritage and World Heritage Sites

Piotr Migoń

14. Geoheritage and Environmental Impact Assessment (EIA)

Viola Maria Bruschi and Paola Coratza

Uses of Geoheritage

15. Geoheritage: Getting the Message Across. What Message and to Whom?

John Macadam

16. Digital Geovisualisation Technologies Applied to Geoheritage Management

Nathalie Cayla and Simon Martin

17. Geoheritage and Geotourism

David Newsome and Ross Dowling

18. Geoheritage and Geoparks

José Brilha

Case Studies

19. Potential Geoheritage Sites in Ethiopia: Challenges of Their Promotion and Conservation

Asfawossen Asrat

20. Geodiversity and Geoconservation in Land Management in Tasmania – A Top-Down Approach

Chris Sharples, Peter McIntosh and Michael Comfort

21. Geoheritage Evaluation of Caves in Korea: A Case Study of Limestone Caves

Kyung Sik Woo and Lyoun Kim

22. Managing Conservation, Research, and Interpretation of Geoheritage Assets at Florissant Fossil Beds National Monument, Colorado, USA

Herbert W. Meyer

23. Varvite Park, A Brazilian Initiative for the Conservation and Interpretation of Geoheritage

Gilson Burigo Guimarães, Flavia Fernanda de Lima and Antonio Carlos Rocha-Campos

24. Techniques for the Monitoring of Geosites in Cabañeros National Park, Spain

Andrés Díez-Herrero, Juana Vegas, Luis Carcavilla, Miguel Gómez-Heras and Ángel García-Cortés

Conclusion

Geoheritage and Geoconservation: The Challenges

José Brilha and Emmanuel Reynard