

1. Record Nr.	UNINA9910438226703321
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Titolo	Mapping archaeological landscapes from space // Douglas C. Comer, Michael J. Harrower
Pubbl/distr/stampa	New York, NY, : Springer, c2013
ISBN	1-299-19736-1 1-4614-6074-3
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (275 p.)
Collana	SpringerBriefs in archaeology
Altri autori (Persone)	HarrowerMichael J
Disciplina	999
Soggetti	Archaeology - Remote sensing Archaeological surveying
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Mapping Archaeological Landscapesfrom Space; Foreword; Acknowledgements; Contents; Contributors; Chapter 1: Introduction: The History and Future of Geospatial and Space Technologies in Archaeology; 1.1 Historic Air and Spaceborne Imagery; 1.2 Multispectral and Hyperspectral Imagery; 1.3 SAR (Synthetic Aperture Radar); 1.4 LiDAR (Light Detection and Ranging); 1.5 Archaeological Site Detection and Modeling; References; Part I: Historic Air and Spaceborne Imagery; Chapter 2: An Overview of the Application of Remote Sensing to Archaeology During the Twentieth Century; 2.1 Introduction 2.2 Aerial Photographs and Archaeology, 1908 to the 1960s2.3 Post 1950s Through the End of the Twentieth Century: Photography from Space, Satellite Imagery, and Radar; 2.4 Conclusion; References; Chapter 3: CORONA Satellite Imagery and Ancient Near Eastern Landscapes; 3.1 Introduction; 3.2 Settlements; 3.3 "Off-site" Landscape Features; 3.3.1 Roads and Tracks; 3.3.2 Irrigation and Water Management; 3.3.3 Field Systems; 3.4 Nomadic Landscapes; 3.5 Landscapes and Environments; 3.6 Conclusions; References Chapter 4: The CORONA Atlas Project: Orthorectification of CORONA Satellite Imagery and Regional-Scale Archaeological Exploration in the Near East4.1 Introduction; 4.2 Geometric Correction of CORONA Imagery; 4.3 Exploring Regional-Scale CORONA in the Northern Fertile

Crescent; 4.3.1 Revisiting Previous Surveys; 4.3.2 Discovering New Sites; 4.3.3 Documenting Landscape Features; 4.3.4 Mapping Regional Settlement Systems; References; Chapter 5: Archaeological Landscapes of China and the Application of Corona Images; 5.1 Introduction; 5.2 Teaching Chinese Archaeology with Corona Images  
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6.2.4 Recording of Energy by the Sensor  
6.2.5 Transmission, Reception, and Processing; 6.2.6 Concepts of Resolution; 6.2.7 Analysis and Interpretation; 6.2.8 Application; Bibliography; Chapter 7: Petra and the Paradox of a Great City Built by Nomads: An Explanation Suggested by Satellite Imagery; 7.1 Introduction; 7.1.1 Agriculture; 7.1.2 Attenuation of Nabataean Control Over Trade; 7.1.3 The Landscape in Aerial and Satellite Imagery; References; Chapter 8: Beyond the Bend: Remotely Sensed Data and Archaeological Site Prospection in the Boyne Valley, Ireland; 8.1 Introduction  
8.2 Regional Introduction

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## Sommario/riassunto

Mapping Archaeological Landscapes from Space: In Observance of the 40th Anniversary of the World Heritage Convention offers a concise overview of air and spaceborne imagery and related geospatial technologies tailored to the needs of archaeologists. Leading experts including scientists involved in NASA's Space Archaeology program provide technical introductions to five sections: 1) Historic Air and Spaceborne Imagery, 2) Multispectral and Hyperspectral Imagery, 3) Synthetic Aperture Radar, 4) Lidar, and 5) Archaeological Site Detection and Modeling. Each of these five sections includes two or more case study applications that have enriched understanding of archaeological landscapes in regions including the Near East, East Asia, Europe, Meso- and North America. Targeted to the needs of researchers and heritage managers as well as graduate and advanced undergraduate students, this volume conveys a basic technological sense of what is currently possible and, it is hoped, will inspire new pioneering applications. Particular attention is paid to the tandem goals of research (understanding) and archaeological heritage management (preserving) the ancient past. The technologies and applications presented can be used to characterize environments, detect archaeological sites, model sites and settlement patterns and, more generally, reveal the dialectic landscape-scale dynamics among ancient peoples and their social and environmental surroundings. In light of contemporary economic development and resultant damage to and destruction of archaeological sites and landscapes, reflexively nurturing advances in applications of air and spaceborne technologies in archaeology is a matter of wide utility and a particularly appropriate goal at the 40th anniversary of the World Heritage Convention. .

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