

1. Record Nr.	UNINA9910481045503321
Titolo	Remote Sensing of Large Wildfires [[electronic resource] ] : in the European Mediterranean Basin // edited by Emilio Chuvieco
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1999
ISBN	3-642-60164-2
Edizione	[1st ed. 1999.]
Descrizione fisica	1 online resource (XII, 212 p. 52 illus., 16 illus. in color.)
Disciplina	550 526.1
Soggetti	Geophysics Geographical information systems Agriculture Forestry Ecotoxicology Geophysics/Geodesy Geographical Information Systems/Cartography
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Introduction -- 2 The role of fire In European Mediterranean ecosystems -- 2.1 Introduction -- 2.2 Fire history -- 2.3 Fire effects on soils -- 2.4 Post-fire regeneration of vegetation -- 2.5 Concluding remarks -- 3Short-term fire risk: foliage moisture content estimation from satellite data -- 3.1 The role of foliage moisture content in the short-term estimation of fire danger -- 3.2 The estimation of foliage moisture content -- 3.3 The effect of moisture content on reflectance and temperature -- 3.4 The use of low resolution data for foliage moisture estimation -- 3.5 Application of NOAA-AVHRR to FMC estimation -- 3.6 Foliage moisture assessment using high resolution data -- 4 Meteorological fire danger indices and remote sensing -- 4.1 Introduction -- 4.2 Processes and components embodied in fire danger indices -- 4.3 Meteorological fire danger indices -- 4.4 Large fire danger rating with meteorological indices in the European Mediterranean Basin -- 4.5 Satellite data and meteorological danger

indices -- 5 Integrated fire risk mapping -- 5.1 Temporal and spatial scales in fire risk mapping -- 5.2 The use of GIS in fire risk assessment -- 5.3 Analysis of long-term fire risk on a European level -- 5.4 Examples of local-scale risk analysis -- 6 Fire detection and fire growth monitoring using satellite data -- 6.1 Introduction -- 6.2 Basis for fire detection from satellite data -- 6.3 General issues related to remote sensing of active fires -- 6.4 Active fire detection with NOAA-AVHRR images -- 6.5 Fire growth monitoring using AVHRR images -- 6.6 Future systems -- 6.7 Conclusions -- 7 Spectral characterisation and discrimination of burnt areas -- 7.1 Introduction -- 7.2 Spectral properties of burnt areas -- 7.3 Conclusions -- 8 Regional-scale burnt area mapping in southern Europe using NOAA-AVHRR 1km data  $\mu$  -- 8.1 Introduction  $\mu$  -- 8.2 Methods for burnt land mapping -- 8.3 Mapping burnt areas in southern Europe from NOAA-AVHRR data -- 8.4 Discussion and conclusions -- 9 Burnt land mapping at local scale -- 9.1 Introduction -- 9.2 Scale issues in burnt land mapping -- 9.3 Operational burnt land mapping in Mediterranean landscapes -- 9.4 Techniques for burnt land mapping -- 9.5 Discrimination of damage intensities -- 9.6 Epilogue -- References.

---