

# Contents

<b>1</b>	<b>Global Impacts of Fire</b> . . . . .	<b>1</b>
	Emilio Chuvieco	
<b>2</b>	<b>Eternal Flame: An Introduction to the Fire History of the Mediterranean</b> . . . . .	<b>11</b>
	Stephen J. Pyne	
<b>3</b>	<b>Fires and Landscape Conservation in Mediterranean Ecosystems</b> . . . . .	<b>27</b>
	Jan W. van Wagtendonk	
<b>4</b>	<b>Mapping Fire Risk in Mediterranean Ecosystems of California: Vegetation type, Density, Invasive Species, and Fire Frequency</b> . .	<b>41</b>
	Susan L. Ustin, David Riaño, Alexander Koltunov, Dar A. Roberts, and Philip E. Dennison	
<b>5</b>	<b>Fire Danger, Fire Detection, Quantification of Burned Areas and Description of Post-Fire Vegetation in the Central Area of Chile</b> . . . . .	<b>55</b>
	Dante Corti González and Roberto Castro Rios	
<b>6</b>	<b>Weather Factors and Fire Danger in the Mediterranean</b> . . . . .	<b>71</b>
	Andrea Camia and Giuseppe Amatulli	
<b>7</b>	<b>Estimation of Fuel Conditions for Fire Danger Assessment</b> . . . . .	<b>83</b>
	Emilio Chuvieco, Jan Wagtendonk, David Riaño, Marta Yebra, and Susan L. Ustin	
<b>8</b>	<b>Impacts of Fire on Society: Extreme Fire Propagation Issues</b> . . . .	<b>97</b>
	Domingos X. Viegas, L. M. Ribeiro, M. T. Viegas, L. P. Pita, and C. Rossa	
<b>9</b>	<b>Effects of Fire on Vegetation, Soil and Hydrogeomorphological Behavior in Mediterranean Ecosystems</b> . . . . .	<b>111</b>
	Fernando Pérez-Cabello, María Teresa Echeverría, Paloma Ibarra, and Juan de la Riva	

<b>10 Remote Sensing of Burn Severity . . . . .</b>	<b>129</b>
Ioannis Z. Gitas, Angela de Santis, and George H. Mitri	
<b>11 Human Factors of Fire Occurrence in the Mediterranean . . . . .</b>	<b>149</b>
Vittorio Leone, Raffaella Lovreglio, M. Pilar Martín, Jesús Martínez, and Lara Vilar	
<b>12 Forest Fire Emissions and Air Pollution in Southern Europe . . . . .</b>	<b>171</b>
Ana I. Miranda, Carlos Borrego, Helena Martins, Vera Martins, Jorge H. Amorim, Joana Valente and Anabela Carvalho	
<b>13 Forest Fires in the European Mediterranean Region: Mapping and Analysis of Burned Areas . . . . .</b>	<b>189</b>
Jesús San-Miguel-Ayanz, Jose M.C. Pereira, Roberto Boca, Peter Strobl, Jan Kucera and Anssi Pekkarinen	
<b>References . . . . .</b>	<b>205</b>
<b>Colour Plate Section . . . . .</b>	<b>245</b>
<b>Index . . . . .</b>	<b>255</b>

Earth Observation of Wildland Fires in Mediterranean  
Ecosystems

Chuvieco, E. (Ed.)

2009, XI, 257 p., Hardcover

ISBN: 978-3-642-01753-7