

# Contents

## Part I Assessment

<b>1</b>	<b>Integrated Assessment of the Quality of Harbor Sediments: Case Study Based on a Comparative Analysis of Sediments Quality of Two Industrial Ports: Bourgas (BG) and Bari (IT) .....</b>	<b>3</b>
	Matilda Mali, Maria Michela Dell’Anna, Piero Mastrorilli, Leonardo Damiani, Nicola Ungaro, Jordan Marinski and Magdalena Korsachka	
<b>2</b>	<b>The Influence of Oil, Dispersed Oil and the Oil Dispersant SD-25, on the Heart Rate of the Mediterranean Mussel (<i>Mytilus galloprovincialis</i> L.).....</b>	<b>21</b>
	Rajko Martinovic, Zoran Gacic and Zoran Kljajic	
<b>3</b>	<b>Assessing the Impact of Port Bourgas on Air Quality During Different Seasons.....</b>	<b>29</b>
	Ekaterina Batchvarova, Hristina Kirova, Anton Petrov, Damyán Barantiev, Maria Kolarova, Jordan Marinski and Hristomir Branzov	
<b>4</b>	<b>Application of Zero Liquid Discharge Water Treatment Units for Wastewater Reclamation: Possible Application in Marine Ports.....</b>	<b>39</b>
	Ioannis Katsoyiannis, Massimo Castellana, Fabricio Cartechini, Alberto Vaccarella, Anastasios Zouboulis and Konstantinos Grinias	
<b>5</b>	<b>Physical-Chemical Parameters and Assessment of Pollution Through Bioindicators of Narta Lagoon .....</b>	<b>47</b>
	Petrit Kotori, Luan Hasanaj and Sonila Kane	
<b>6</b>	<b>Water Quality Assessment of the Bourgas Port Waters .....</b>	<b>57</b>
	Zvezdimira Tsvetanova, Magdalena Korsachka and Jordan Marinski	

<b>7</b>	<b>Assessment of Soft-Bottom Communities and Ecological Quality Status Surrounding Constanta and Mangalia Ports (Black Sea)</b> .....	<b>67</b>
	Adrian Teaca, Tatiana Begun and Mihaela Muresan	
<b>8</b>	<b>Application of Hydrodynamic, Pollution Drift and Wave Models as Tools for Better Environmental Management of Ports</b> .....	<b>75</b>
	Vasko Galabov, Anna Kortcheva, Elisaveta Peneva, Georgi Kortchev, Marieta Dimitrova and Jordan Marinski	
<b>9</b>	<b>Design of Wave Energy Distribution for the Harbour and Coast Protection</b> .....	<b>85</b>
	Idlir Lami and Stavri Lami	

## **Part II Monitoring**

<b>10</b>	<b>Multi-Compartment Water Quality Assessment of Port Burgas and Burgas Bay</b> .....	<b>95</b>
	Svetla Miladinova, Dimitar Marinov, Venzislav Krastev and Jordan Marinski	
<b>11</b>	<b>Application of an Environmental Monitoring Strategy in the Port of Bari</b> .....	<b>103</b>
	Mario Mega, Annunziata Attolico and Elvira Armenio	
<b>12</b>	<b>The Black Sea Security System—A New Early Warning and Environmental Monitoring System</b> .....	<b>109</b>
	Dan Secieru, Gheorghe Oaie, Vlad Radulescu and Cristina Voicar	
<b>13</b>	<b>Environmental Assessment in Durrës Port Based on Pollution Indicators</b> .....	<b>117</b>
	Tania Floqi, Jorgaq Kaçani, Ilo Bodi, Rajmonda Gjata and Redi Kodra	
<b>14</b>	<b>Coastal Marine Environment Monitoring Using Satellite Data Derived from MODIS Instrument</b> .....	<b>125</b>
	Stavros Kolios and Chrysostomos Stylios	

## **Part III Sustainable Management System**

<b>15</b>	<b>Guidelines for Elaboration Management Action Plan for Ecologically Sustainable Development and Management of SEE Seaports of Trans-European Transport Networks</b> .....	<b>135</b>
	Jordan Marinski, Dimitar Marinov, Tatiana Branca, Matilda Mali, Tania Floqi, Chrysostomos Stylios and Leonardo Damiani	

<b>16</b>	<b>Eco-Mapping as an Integrated Approach in Environmental Protection in Ports and Adjacent Urbanized Areas .....</b>	<b>143</b>
	Vania Ioncheva, Irina Faitondzieva, Kremena Nedyalkova, Venzeslav Krastev and Jordan Marinski	
<b>17</b>	<b>Process Performance Measures and Monitoring/Control for a Sustainable Management of South East Europe Ports' Areas .....</b>	<b>151</b>
	Tatiana Branca, Matilda Mali, Jordan Marinski, Dimitar Marinov, Tania Floqi and Leonardo Damiani	
<b>18</b>	<b>Sustainable Coastal Management: Case Studies .....</b>	<b>161</b>
	Anna Trono and Gabriella Trombino	
<b>19</b>	<b>The Evaluation of Integrated Planning and Management Initiatives of Coastal Areas for Sustainable Development: The Case of Albania .....</b>	<b>171</b>
	Jonida Teta, Eralda Xhafka, Irma Shyle and Erald Piperi	

#### **Part IV Port Processes**

<b>20</b>	<b>Evidence-Based Monitoring for Sustainable Development of Port and Chain Operations .....</b>	<b>177</b>
	Vasilis Tselentis, Antonis Michail, Rosa Mari Darbra, Martí Puig and Christopher Wooldridge	
<b>21</b>	<b>The Progressive Regulation of the Passage of Large Cruise Ships in Venice: The Decision-Making Proceedings Between Law and Stakeholder Pressure .....</b>	<b>185</b>
	Marco Casagrande	
<b>22</b>	<b>The Strategic Role of Port Community Systems for enhancing Business Operations and Productivity: The Case of the Port Authority of Igoumenitsa .....</b>	<b>197</b>
	Konstantinos Grinias, Eleftherios Iakovou, Dimitrios Vlachos, Arrianos Gkikas, George Tsoukos and Apostolos Bizakis	
<b>23</b>	<b>Greener Port Performance Through ICT .....</b>	<b>207</b>
	Georgia Ayfantopoulou, George Tsoukos, Alexander Stathacopoulos, Apostolos Bizakis and Eliza Gagatsi	

#### **Part V Historical Ports**

<b>24</b>	<b>Assessment and Development of Historical Ports .....</b>	<b>219</b>
	Mariella De Fino, Fabio Fatiguso and Giambattista De Tommasi	

<b>25</b>	<b>Transformations of the Relationship of the City of Patras and its Port from 1828 to Today .....</b>	<b>229</b>
	Panagiota P. Karamesini	
<b>26</b>	<b>Ports Dubrovnik and Bar—Cooperation Opportunities for Development of Sustainable Cruise Tourism .....</b>	<b>239</b>
	Antun Asic and Deda Djelovic	
	<b>Index.....</b>	<b>251</b>

Sustainable Development of Sea-Corridors and Coastal Waters

The TEN ECOPORT project in South East Europe

Stylios, C.; Floqi, T.; Marinski, J.; Damiani, L. (Eds.)

2015, XVII, 253 p. 71 illus., 52 illus. in color., Hardcover

ISBN: 978-3-319-11384-5