## Contents

The Western and Central Africa Land–Sea Interface: A Vulnerable, Threatened, and Important Coastal Zone Within a Changing Environment .......................... 1  

West African Coastal Area: Challenges and Outlook ........................................ 9  
Jean-Jacques Goussard and Mathieu Ducrocq

Awa Niang and Alioune Kane

Management of a Tropical River: Impacts on the Resilience of the Senegal River Estuary ......................................................... 41  
Coura Kane, Alioune Kane, and Joël Humbert

Combined Uses of Supervised Classification and Normalized Difference Vegetation Index Techniques to Monitor Land Degradation in the Saloum Saline Estuary System .................................................... 49  
Ndéye Maguette Dieng, Joel Dinis, Serigne Faye, Marçia Gonçalves, and Mário Caetano

Studies and Transactions on Pollution Assessment of the Lagos Lagoon System, Nigeria .................................................................................. 65  
Babajide Alo, Kehinde Olayinka, Aderonke Oyeyiola, Temilola Oluseyi, Rose Alani, and Akeem Abayomi

Estuarine and Ocean Circulation Dynamics in the Niger Delta, Nigeria: Implications for Oil Spill and Pollution Management .................................. 77  
Larry Awosika and Regina Folorunsho

Morphological Characteristics of the Bonny and Cross River (Calabar) Estuaries in Nigeria: Implications for Navigation and Environmental Hazards .............................................. 87  
Regina Folorunsho and Larry Awosika

Status of Large Marine Flagship Faunal Diversity Within Cameroon Estuaries of Central African Coast .................................................... 97  
Isidore Ayissi, Gordon N. Ajonina, and Hyacinthe Angoni
Morphology Analysis of Niger Delta Shoreline and Estuaries for Ecotourism Potential in Nigeria ................................. 109
O. Adeaga

Importance of Mangrove Litter Production in the Protection of Atlantic Coastal Forest of Cameroon and Ghana ........................................... 123

Carbon Budget as a Tool for Assessing Mangrove Forests Degradation in the Western, Coastal Wetlands Complex (Ramsar Site 1017) of Southern Benin, West Africa .................................... 139
Gordon N. Ajonina, Expedit Evariste Ago, Gautier Amoussou, Eugene Diyouke Mibog, Is Deen Akambi, and Eunice Dossa

Mangrove Conditions as Indicator for Potential Payment for Ecosystem Services in Some Estuaries of Western Region of Ghana, West Africa ............. 151
Gordon N. Ajonina, Tundi Agardy, Winnie Lau, Kofi Agbogah, and Balertey Gormey

Plantation Agriculture as a Driver of Deforestation and Degradation of Central African Coastal Estuarine Forest Landscape of South-Western Cameroon ................................................ 167
Patience U. Ajonina, Francis A. Adesina, and Oluwagbenga O. I. Orimoogunje

Assessment of Mangrove Carbon Stocks in Cameroon, Gabon, the Republic of Congo (RoC) and the Democratic Republic of Congo (DRC) Including their Potential for Reducing Emissions from Deforestation and Forest Degradation (REDD+) .......................... 177
Gordon N. Ajonina, James Kairo, Gabriel Grimsditch, Thomas Sembres, George Chuyong, and Eugene Diyouke

Governing Through Networks: Working Toward a Sustainable Management of West Africa’s Coastal Mangrove Ecosystems .................. 191
Dominique Duval-Diop, Ahmed Senhoury, and Pierre Campredon

The Importance of Scientific Knowledge as Support to Protection, Conservation and Management of West and Central African Estuaries ........ 207
S. Diop, J.-P. Barusseau, and C. Descamps

Index ................................................................. 209
The Land/Ocean Interactions in the Coastal Zone of West and Central Africa
Diop, S.; Barusseau, J.-P.; Descamps, C. (Eds.)
2014, XXII, 210 p. 133 illus., 122 illus. in color., Hardcover
ISBN: 978-3-319-06387-4