

COMPTES RENDUS GEOSCIENCE

Volume 349 (2017) – No. 6–7 – October–November



Cover illustration: Hurricane Irma (30 August–12 September 2017) on Sint Maarten (Caribbean Netherlands). Air photo, Ministry of Defense, The Netherlands.

Thematic issue

Vulnerability of intertropical littoral areas

Guest Editors : Isabelle Manighetti, Rutger De Wit, Stéphanie Duvail, Patrick Seyler

- Preface
Philippe Charvis, Flore Gubert and Frédéric Ménard 233
- Foreword
Isabelle Manighetti, Rutger De Wit, Stéphanie Duvail and Patrick Seyler 235
- The impact of Cyclone Nargis on the Ayeyarwady (Irrawaddy) River delta shoreline and nearshore zone (Myanmar): Towards degraded delta resilience?
Manon Besset, Edward J. Anthony, Philippe Dussouillez and Marc Goichot 238
- Wave forcing and morphological changes of New Caledonia lagoon islets: Insights on their possible relations
Jérôme Aucan, Myriam Vendé-Leclerc, Pascal Dumas and Marianne Bricquir 248
- Sediment flocculation in the Mekong River estuary, Vietnam, an important driver of geomorphological changes
Nicolas Gratiot, Audrey Bildstein, Tran Tuan Anh, Heiko Thoss, Hervé Denis, Hervé Michallet and Heiko Apel 260
- The changing hydro-ecological dynamics of rivers and deltas of the Western Indian Ocean: Anthropogenic and environmental drivers, local adaptation and policy response
Stéphanie Duvail, Olivier Hamerlynck, Paolo Paron, Dominique Hervé, Wanja D. Nyngi and Michele Leone 269
- Impacts of climate change and anthropization on groundwater resources in the Nouakchott urban area (coastal Mauritania)
Ahmed-Salem Mohamed, Christian Leduc, Christelle Marlin, Oumar Wagué and Mohamed-Ahmed Sidi Cheikh 280

Continued on the next page

<ul style="list-style-type: none"> • Assessing man-induced environmental changes in the Sepetiba Bay (Southeastern Brazil) with geochemical and satellite data Daniel Ferreira Araújo, Lucas G.M. Peres, Santiago Yopez, Daniel S. Mulholland, Wilson Machado, Myller Tonhá and Jérémie Garnier 	290
<ul style="list-style-type: none"> • An empirical model to quantify fecal bacterial loadings to coastal areas: Application in a Mediterranean context Marlène Rio, Christian Salles, Claire Rodier, Franck Cantet, Pierre Marchand, Thomas Mosser, Flavie Cernesson, Patrick Monfort and Marie-George Tournoud 	299
<ul style="list-style-type: none"> • A new methodology to assess antimicrobial resistance of bacteria in coastal waters; pilot study in a Mediterranean hydrosystem Ayad Almakki, Kevin Estèves, Audrey S. Vanhove, Thomas Mosser, Fabien Aujoulat, Hélène Marchandin, Mylène Toubiana, Patrick Monfort, Estelle Jumas-Bilak and Patricia Licznar-Fajardo 	310
<ul style="list-style-type: none"> • Benthic ecology of tropical coastal lagoons: Environmental changes over the last decades in the Términos Lagoon, Mexico Christian Grenz, Renaud Fichez, Carlos Álvarez Silva, Laura Calva Benítez, Pascal Conan, Adolfo Contreras Ruiz Esparza, Lionel Denis, Silvia Díaz Ruiz, Pascal Douillet, Margarita E. Gallegos Martinez, Jean-François Ghiglione, Francisco José Gutiérrez Mendieta, Montserrat Origel-Moreno, Antonio Zoilo Marquez Garcia, Alain Muñoz Caravaca, Mireille Pujo-Pay, Rocío Torres Alvarado and Jorge Zavala-Hidalgo 	319
<ul style="list-style-type: none"> • The basics for a permanent observatory of shoreline evolution in tropical environments; lessons from back-reef beaches in La Reunion Island Marie-Myriam Mahabot, Marion Jaud, Gwenaëlle Pennober, Nicolas Le Dantec, Roland Troadec, Serge Suanez and Christophe Delacourt 	330
<ul style="list-style-type: none"> • The mangrove's contribution to people: Interdisciplinary pilot study of the Can Gio Mangrove Biosphere Reserve in Viet Nam Marie-Christine Cormier-Salem, Nguyen Van Trai, Ariadna Burgos, Jean-Dominique Durand, Yvan Bettarel, Judith Klein, Hoang Duc Huy and Jacques Panfili 	341
<ul style="list-style-type: none"> • The impact of legal vulnerability on environmental inequalities. A case study of coastal populations in Guadeloupe (French Antilles) Cécilia Claeys, Aurélie Arnaud and Marie-Laure Lambert 	351
<ul style="list-style-type: none"> • Knowledge and power in integrated coastal management. For a political anthropology of the sea combined with the sciences of the marine environment Camille Mazé, Tarik Dahou, Olivier Ragueneau, Anatole Danto, Emilie Mariat-Roy, Mélanie Raimonet and Julien Weisbein 	359