



CV - Edward J. Anthony

**Present position:** Professor (Classe Exceptionnelle II) of Physical Geography, Aix-Marseille University, France. Senior Laureate of the Institut Universitaire de France.

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### **Summary statement of activity**

30 years of engagement in research in coastal geomorphology, sedimentology, and morphodynamic processes on the Amazon-influenced coast of South America, West Africa, the Mediterranean, the French Riviera, the English Channel and North Sea coasts, and recently the Mekong and Ayeyarwady deltas. My current scientific activity focuses on the geomorphology, sediment dynamics, ecology and management of alluvial coasts. The adopted scientific approach is largely based on experimental field and laboratory work, and employs methodology and techniques relevant to high-resolution topography, sedimentology, hydrodynamics, palaeoenvironmental analysis (Holocene classical and sequence stratigraphy), and innovative techniques in remote sensing, with openings towards modelling based on statistical and cartographic treatment of data. This activity is supported by various on-going grants and projects and involves collaboration with French universities, the IRD, Japanese, American, Vietnamese and Moroccan colleagues specialised in coastal geomorphology, remote sensing and coastal ecology. The present study sites are the Amazon-influenced muddy coast of South America, the Mekong and Ayeyarwady deltas, the Atlantic and Mediterranean coasts of Morocco, the eastern English Channel, and the southern North Sea. New collaborations are also being set up on aspects of geomorphology and risk management in the face of global change, sea-level rise and sediment supply perturbations on new or revisited areas: the Rhône and Var deltas and adjacent Mediterranean coasts, the coast of Benin, and the tropical islands of Martinique and Mayotte. Since October 2015, named Editor-in-Chief of the Elsevier scientific journal *Marine Geology*.

**Keywords:** *Geomorphology; Sedimentology; Coasts; Rivers; Deltas; Mangroves; Human impacts; Vulnerability.*

### **Awards**

- October 2010: Senior laureate of the Institut Universitaire de France (Research endowment 2010-2015).
- January 2010: Officer of the Academic Palms, French ministerial decree (ministerial distinction for meritorious service in national education).
- September 2004: Knight of the Academic Palms (rectoral distinction for meritorious service in national education).

### **University Education**

- **Doctorat d'Etat** (~D.Sc. Thesis): "*A geomorphic study of the coast of Sierra Leone*". Université Louis Pasteur, Strasbourg, obtained in July 1988.
- **Doctorat de 3<sup>ème</sup> Cycle** (~PhD. Thesis): "*Geomorphic research on the coastal deposits of southern Sierra Leone*". Université Louis Pasteur, Strasbourg, obtained in septembre 1982.
- **Bachelor of Arts - Honours**, June 1978, University of Sierra Leone.

### **Career summary**

- Since September 2009: Professor of Physical Geography at Aix-Marseille University.
- 1994-2009:
  - University President (2004-2009) and Professor (1994-2009) of Coastal Geomorphology, Université du Littoral Côte d'Opale.
  - Founder and Head of research team GéoDAL (1998-2004)
  - Vice-President of the university scientific council (1999-2004)
  - Head of the university Doctorate School (2002-2004)
- 1988-94: Lecturer in Physical Geography at Université de Nice-Sophia Antipolis, tenure in 1989. One-year visiting lectureship (1992-93) at the Department of Geology of Université du Bénin, Togo (presently Université de Lomé, Togo).
- 1986-87: Assistant lecturer in Geography at Université de Caen.
- 1984-86: Contract researcher in the Department of Geography, Université Louis Pasteur, Strasbourg.

- 1982-84: Post-doctoral researcher with contracts or grants on the coastal geomorphology of Sierra Leone: Centre d'Etudes de Géographie Tropicale (CEGET), Bordeaux; Land and Water Development Division, Freetown, Sierra Leone; Departments of Geography and Geology, Université Louis Pasteur; Institut de Recherche pour le Développement – (ex-ORSTOM).
- 1979-82: Doctorate – grant from the French Ministry of Foreign Affairs and a research contract with Diamond Distributors Explorations – DDI (New York) – a mining company with concessions in Sierra Leone – geomorphology of fluvial and coastal deposits with alluvial diamonds.

### **Scientific accomplishments and influence**

- **Editor-in-Chief of the journal *Marine Geology*** (since 2016) and **member of the editorial board of the following journals: *Journal of Marine Science and Engineering*** (since 2012), *Journal of Coastal Research* (since 1996), *Africa Geoscience Review* (since 2006), **Associate editor: *Géomorphologie : relief, processus, environnement*** (since 2004), and *Méditerranée* (since 2009). Review of manuscripts (*about 15 a year over the last five years*) for numerous journals.
- **Chairman of the *Commission on Coastal Systems (CCS)*** of the International Geographical Union: December 2008-December 2014.
- **Supervision of 26 completed PhD theses since 1992, and current supervision of 4 theses**
- **Participation in 77 Phd juries in France (of which 60 as examiner/reporter)** in France since 1991 (Geography, Earth Sciences, Coastal Oceanography), and in **16 HDR juries** (~ D.Sc/D.Litt) (of which 9 as examiner/reporter).
- **Participation in 17 overseas invitations as External PhD Examiner:** UK: 5; Italy: 3; Morocco: 3; Australia: 2; Spain: 1; Tunisia: 1; Senegal: 1; Trinidad and Tobago: 1.
- **Important research grants – 2010-2015**
  - Institut Universitaire de France Laureate grant (2010-2015). 100,000 €.
  - ANR-Belmont Forum project on deltas (2013-2016). 160,000 €.
  - ERDF grant Guyacoast (2019-2021). 575,000 €.

## **PUBLICATIONS**

### **A. Books**

2. **Anthony, E.J.**, 2009. *Shore Processes and their Palaeoenvironmental Applications*. Developments in Marine Geology Volume 4. Elsevier Science, Amsterdam, 519 pp. ISBN: 9789444527332.  
[http://www.elsevier.com/wps/find/bookdescription.cws\\_home/715656/description#description](http://www.elsevier.com/wps/find/bookdescription.cws_home/715656/description#description)
1. **Anthony, E.J.**, 1990. *Environnement, Géomorphologie et Dynamique Sédimentaire des Côtes Alluviales de la Sierra Leone, Afrique de l'Ouest*. Revue d'Analyse Spatiale Quantitative et Appliquée, 27 & 28, 189 pp., CRDP, Nice.

### **B. Peer-reviewed articles (indexed in Web of Science)**

**H-Index (Web of Science): 32**

#### **2019**

126. **Anthony, E.J.**, Almar, R., Besset, M., Reyns, J., Laibi, R., Ranasinghe, R., Abessolo Ondo G., Vacchi, M., 2019. Response of the Bight of Benin (Gulf of Guinea, West Africa) coastline to anthropogenic and natural forcing, Part 2: Sources and patterns of sediment supply, sediment cells, and recent shoreline change. *Continental Shelf Research*, 173, 93-103.
125. **Anthony, E.J.**, Besset, M., Dussouillez, P., Goichot, M., Loisel, H., 2019. Overview of the Monsoon-influenced Ayeyarwady River delta, and delta shoreline mobility in response to changing fluvial sediment supply. *Marine Geology*, 417, 106038.
124. **Anthony, E.J.**, Brunier, G., Gardel, A., Hiwat, M., 2019. Chenier morphodynamics and degradation on the Amazon-influenced coast of Suriname, South America: implications for beach ecosystem services. *Frontiers in Earth Science*, 7, 35, doi: 10.3389/feart.2019.00035
123. Besset, M., **Anthony, E.J.**, Bouchette, F., 2019. Multi-decadal variations in delta shorelines and their relationship to river sediment supply: An assessment and review. *Earth-Science Reviews*, 193-199-219.
122. Besset, M., Gratiot, N., **Anthony, E.J.**, Bouchette, F., Goichot, M., Marchesiello, P. Mangroves and shoreline erosion in the Mekong River delta. *Estuarine, Coastal and Shelf Science*, 226, 106263.

121. Brunier, G., **Anthony, E.J.**, Gratiot, N., Gardel, A., 2019. Exceptional rates and mechanisms of muddy shoreline retreat following mangrove removal. *Earth Surface Processes & Landforms*, 44, 1559-1571.
120. Jeanson, M., Dolique, F., **Anthony, E.J.**, Aubry, A., 2019. Decadal-scale dynamics and morphological evolution of mangroves and beaches in a reef-lagoon complex, Mayotte Island. *Journal of Coastal Research Special Issue 82*, accepted.
119. Jolivet, M., **Anthony, E.J.**, Gardel, A., Brunier, G., 2019. Multi-decadal to short-term beach and shoreline mobility in a complex river-mouth environment affected by mud from the Amazon. *Frontiers in Earth Science*, 7:187. doi: 10.3389/feart.2019.00187.
118. Jolivet, M., Gardel, A., **Anthony, E.J.**, 2019. Multi-decadal changes on the mud-dominated coast of western French Guiana: implications for mesoscale shoreline mobility, river-mouth deflection, and sediment sorting. *Journal of Coastal Research Special Issue 82*, accepted.
117. Levoy, F., **Anthony, E.J.**, Dronkers, J., Monfort, O., Montreuil, A.L., 2019. Short-term to decadal-scale sand flat morphodynamics and sediment balance of a megatidal bay: Insight from multiple LiDAR datasets. *Journal of Coastal Research Special Issue 82*, accepted.
116. Marchesiello, P., Minh Nguyen, N., Gratiot, N., Loisel, H., **Anthony, E.J.**, Nguyen, T., Almar, R., Kestenare, E., 2019. Erosion and sediment transfers along the coastal Mekong delta. *Continental Shelf Research*, 181, 72-89. <https://doi.org/10.1016/j.csr.2019.05.004>
115. Paquier, A.E., Meulé, S., **Anthony, E.J.**, Larroudé, P., Bernard, G., 2019. Wind-induced hydrodynamic interactions with aquatic vegetation in a fetch-limited setting: implications for coastal sedimentation and protection. *Estuaries and Coasts*, 42, 688-707. <https://doi.org/10.1007/s12237-018-00487-w>
114. Ranasinghe, R., Wu, C.S., Conallin, J., Duong, T.M., **Anthony, E.J.**, 2019. Disentangling the relative contributions of climate change and human activities in sediment supply to the coast by the world's large rivers: Pearl River Basin, China. *Scientific Reports*, 9:9236 | <https://doi.org/10.1038/s41598-019-45442-2>
113. Zăinescu, F., Vespremeanu-Stroe, F., **Anthony, E.J.**, Tătui, F., Preoteasa, F., Mateescu, R., 2019. Flood deposition and storm removal of sediments in front of a deltaic wave-influenced river mouth. *Marine Geology*, 417, 106015. <https://doi.org/10.1016/j.margeo.2019.106015>

## 2018

112. Pratellesi, M., Ciavola, P., Ivalda, R., **Anthony, E.J.**, Armaroli, C., 2018. River-mouth geomorphological changes over >130 years (1882–2014) in a small Mediterranean delta: Is the Magra delta reverting to an estuary? *Marine Geology*, 403, 2-224. <https://doi.org/10.1016/j.margeo.2018.06.003>
111. Cartier, R., Brisset, E., Guiter, F., Sylvestre, F., Tachikawa, K., **Anthony, E.J.**, Pailles, C., Bruneton, H., Bard, E., Miramont, C., 2018. Multiproxy analyses of Lake Allos reveal synchronicity and divergence in geosystem dynamics during the Lateglacial/Holocene in the Alps. *Quaternary Science Reviews*, 186, 60-77. [https://DOI: 10.1016/j.quascirev.2018.02.016](https://doi.org/10.1016/j.quascirev.2018.02.016)
110. Ndour, A., Laïbi, R., Sadio, M., Degbé, C.G.E., Diaw, A.T., Oyédé, L.M., **Anthony, E.J.**, Dussouillez, P., Sambou, H., Dièye, E.H.B., 2018. Management strategies for coastal erosion problems in West Africa: Analysis, issues, and constraints drawn from examples from Senegal and Benin. *Ocean & Coastal Management*, 156, 92-106. <https://doi.org/10.1016/j.ocecoaman.2017.09.001>

## 2017

109. Besset, M., **Anthony, E.J.**, Dussouillez, P., Goichot, M., 2017. The impact of Cyclone Nargis on the Ayeyarwady (Irrawaddy) River delta shoreline and nearshore zone (Myanmar): towards degraded delta resilience? *Comptes Rendus Geoscience*, 349, 238-247. <https://doi.org/10.1016/j.crte.2017.09.002>
108. **Anthony, E.J.**, Dussouillez, P., Dolique, F., Besset, M., Brunier, G., Nguyen, V.L., Goichot, M., 2017. Morphodynamics of an eroding beach and foredune in the Mekong River delta: implications for deltaic shoreline change. *Continental Shelf Research*, 147, 155-164. <https://doi.org/10.1016/j.csr.2017.06.018>
107. Besset, M., **Anthony, E.J.**, Sabatier, F., 2017. River delta shoreline reworking and erosion in the Mediterranean and Black Seas: the potential roles of fluvial sediment starvation and other factors. *Elementa, Science of the Anthropocene*, 5: 54, <https://doi.org/10.1525/elementa.139>
106. Levoy, F., **Anthony, E.J.**, Dronkers, J., Monfort, O., Izabel, G., Larsonneur, C., 2017. Influence of the 18.6-year lunar nodal tidal cycle on tidal flats: Mont-Saint-Michel Bay, France. *Marine Geology*, 387, 108-113. <https://doi.org/10.1016/j.margeo.2017.03.009>
105. Sadio, M., **Anthony, E.J.**, Diaw, A.T., Dussouillez, P., Fleury, J.T., Kane, A., Almar, R., Kestenare, E., 2017. Shoreline changes on the wave-influenced Senegal River delta, West Africa: The roles of natural processes and human interventions. *Water*, 9 (5), 357. doi:10.3390/w9050357
104. Brisset, E., Guiter, F., Miramont, C., Troussier, T., Sabatier, P., Poher, Y., Cartier, R., Arnaud, F., Malet, E., **Anthony, E.J.**, 2017. The overlooked human influence in historic and prehistoric floods in the European Alps. *Geology*, 45, 347-350. doi: <https://doi.org/10.1130/G38498.1>

## 2016

103. **Anthony, E.J.**, Almar, R., Aagaard, T., 2016. Recent shoreline changes in the Volta River delta, West Africa: the roles of natural processes and human impacts. *African Journal of Aquatic Science*, 41, 81-87. <http://dx.doi.org/10.2989/16085914.2015.1115751>

102. Aouiche, I., Daoudi, L., **Anthony, E.J.**, Sedrati, M., Ziane, E. Harti, A., Dussouillez, P., 2016. Anthropogenic effects on shoreface and shoreline changes: Input from a multi-method analysis, Agadir Bay, Morocco. *Geomorphology*, 254, 16-31. <https://doi.org/10.1016/j.geomorph.2015.11.013>
101. Aouiche, I., Daoudi, L., **Anthony, E.J.**, Sedrati, M., Ziane, E. Harti, A., 2016. The impact of storms in the morphodynamic evolution of a human-impacted, semi-sheltered beach (Agadir Bay, Morocco). *African Journal of Earth Science*, 115, 32-47. <https://doi.org/10.1016/j.jafrearsci.2015.12.011>
100. Besset, M., **Anthony, E.J.**, Brunier, G., Dussouillez, P., 2016. Critical erosion of the Mekong River delta along the southern part of the South China Sea coast: a satellite image analysis (1973-2014). *Géomorphologie : relief, processus, environnement*. 22 (2), 5-14. <http://geomorphologie.revues.org/11336>
99. Brondizio, E.S., Vogt, N., Hetrick, S., Costa, S., **Anthony, E.J.**, 2016. A Conceptual framework for analyzing estuary-deltas as coupled social ecological systems: An example from the Amazon River Estuary-Delta. *Sustainability Sciences*, 11:591. <https://doi.org/10.1007/s11625-016-0368-2>
98. Brondizio E.S., Foufloula-Georgiou E., Szabo S., Vogt N., Sebesvari Z., Renaud F.G., Newton A., **Anthony E.J.**, Mansur A.V., Matthews Z., Hetrick S., Costa S.M., Tessler Z., Tejedor T., Longjas A. and Dearing J., 2016. Catalyzing action towards the sustainability of deltas. *Current Opinion in Environmental Sustainability* 19, 182-194. <https://doi.org/10.1016/j.cosust.2016.05.001>
97. Brunier, G., Fleury, J., **Anthony, E.J.**, Gardel, A., Dussouillez, P., 2016. Close-range airborne Structure-from-Motion Photogrammetry for high-resolution beach morphometric surveys: Examples from an embayed rotating beach. *Geomorphology*, 261, 76-88. <http://geomorphologie.revues.org/11358>
96. Brunier, G., Fleury, J., **Anthony, E.J.**, Pothin, V., Vella, C., Gardel, A., Dussouillez, P., Michaud, E., 2016 Structure-from-Motion photogrammetry for high-resolution coastal and fluvial geomorphic surveys. *Géomorphologie : relief, processus, environnement*, 22 (2), 15-25. <https://geomorphologie.revues.org/11358>
95. Gensac., E., Martinez, J.M., Vantrepotte, V., **Anthony, E.J.**, 2016. Seasonal and inter-annual dynamics of suspended sediment at the mouth of the Amazon River: The role of continental and oceanic forcing, and implications for coastal geomorphology and mud bank formation. *Continental Shelf Research*, 118, 49-62. <https://doi.org/10.1016/j.csr.2016.02.009>
94. Gratiot, N., **Anthony, E.J.**, 2016. Role of flocculation and settling processes in the geological development of the mangrove-colonized, Amazon-influenced mud-bank coast of South America. *Marine Geology*, 373, 1-10. <https://doi.org/10.1016/j.margeo.2015.12.013>

## 2015

93. Aleman, N., Robin, N., Certain, R., **Anthony, E.J.**, Barousseau, J.P., 2015. Longshore variability of beach states and bar types in a microtidal, storm-influenced low-energy Mediterranean environment (Languedoc-Roussillon, France). *Geomorphology*, 241, 175-191. <https://doi.org/10.1016/j.geomorph.2015.03.029>
92. Almar, R., Kestenare, E., Reynolds, J., Jouanno, J., **Anthony, E.J.**, Laibi, R., Hemer, M., Du Penhoat, Y., Ranasinghe, R., 2015. Response of the Bight of Benin (Gulf of Guinea, West Africa) coastline to anthropogenic and natural forcing, Part 1: Wave climate variability and impacts on the longshore sediment transport. *Continental Shelf Research*, 41, 81-87. <https://doi.org/10.1016/j.csr.2015.09.020>
91. **Anthony, E.J.**, 2015. Wave influence in the construction, shaping and destruction of river deltas: A review. *Marine Geology*, 361, 53-78. <https://doi.org/10.1016/j.margeo.2014.12.004>
90. **Anthony, E.J.**, Besset, M., Brunier, G., Goichot, M., Dussouillez, P., Nguyen, V.L. Linking rapid erosion of the Mekong River delta to human activities. *Scientific Reports*, 5, 14745. <https://www.nature.com/articles/srep14745>
89. Brisset, E., Guiter, F., Miramont, C., Revel, M., **Anthony, E.J.**, Delhon, C., Arnaud, F., de Beaulieu, J.L., 2015. Lateglacial/Holocene environmental changes in Mediterranean Alps inferred by sediments of Lake Vens (2330 m a.s.l., south-eastern France). *Quaternary Science Reviews*, 110, 49-71. <https://doi.org/10.1016/j.quascirev.2014.12.004>
88. Cartier, R., Brisset, E., Paillès, C., Guiter, F., Sylvestre, F., Ruauadel, F., **Anthony, E.J.**, Miramont, C., 2015. 5000 years of lacustrine ecosystem changes from Lake Petit (Southern Alps, 2200 m a.s.l.): regime shift and resilience of algal communities. *The Holocene*, 25, 1231-1245. <https://doi.org/10.1177/0959683615580862>
87. Walcker, R., **Anthony, E.J.**, Cassou, C., Aller, R.C., Gardel, A., Proisy, C., Martinez, J.M., Fromard, F., 2015. Fluctuations in the extent of mangrove driven by multi-decadal changes in North Atlantic waves. *Journal of Biogeography*, 42, 2209-2213. DOI: <https://doi.org/10.1111/jbi.12580>

## 2014

86. **Anthony, E.J.**, 2014. The Human influence on the Mediterranean coast over the last 200 years: a brief appraisal from a geomorphological perspective. *Géomorphologie-relief, processus, environnement*, 2014, 3, 219-266. <http://geomorphologie.revues.org/10654>
85. **Anthony, E.J.**, Gardel, A., Gratiot, N., 2014. Fluvial sediment supply, mud banks, cheniers and the morphodynamics of the coast of South America between the Amazon and Orinoco river mouths. *Geological Society, London, Special Publications*, 388, 533–560. <https://doi.org/10.1144/SP388.8>
84. **Anthony, E.J.**, Marriner, N., Morhange, C., 2014. Human influence and the changing geomorphology of Mediterranean deltas and coasts over the last 6000 years: from progradation to destruction phase? *Earth-Science Reviews*, 139, 336-361. <https://doi.org/10.1016/j.earscirev.2014.10.003>
83. **Anthony, E.J.**, Psuty, N.P., 2014. Preface: Human-altered coastal systems: processes, monitoring, and management. *Journal of Coastal Conservation*, 18, 481-482. <https://doi.org/10.1007/s11852-014-0332-1>

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81. Brisset, E., Miramont, C., Guiter, F., Arnaud, F., **Anthony, E.J.**, Delhon, C., Guibal, F., Cartier, R., Poher, Y., Chaumillon, E., 2014. Données nouvelles sur la chronologie de la déglaciation dans la vallée du Haut-Verdon (Lac d'Allos, Alpes françaises du sud). *Quaternaire*, 25, 147-156. <https://quaternaire.revues.org/7028>
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78. Jeanson, M., **Anthony, E.J.**, Dolique, F., Cremades, C., 2014. Mangrove evolution in Mayotte Island, Indian Ocean: A 60-year synopsis based on aerial photographs. *Wetlands*, 34, 483-494. <https://doi.org/10.1007/s13157-014-0512-7>
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76. Montreuil, A.L., Levoy, F., Bretel, P., **Anthony, E.J.**, 2014. Morphological diversity and complex sediment recirculation on the ebb delta of a macrotidal inlet (Normandy, France): A multiple LiDAR dataset approach. *Geomorphology*, 219, 114-125. <https://doi.org/10.1016/j.geomorph.2014.05.008>
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### 2013

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### 2012-1985

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