



CV (February 2015) - Edward J. Anthony (aged 58)

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

Present Professional address: Aix-Marseille University, CEREGE UM 34 AMU-CNRS-IRD-Collège de France, Europôle Méditerranéen de l'Arbois, B.P. 80, 13545, Aix en Provence Cedex 04, France. Tel: +33674534556; E-mail: anthony@cerege.fr

Summary statement of activity

30 years of engagement in research and university teaching on the geomorphology, sediment dynamics, ecology and management of 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 has involved collaboration with French universities, the IRD, European, Japanese, American, Vietnamese and Moroccan colleagues specialised in geomorphology, the physics of remote sensing and of fine-grained sediments, and mangrove ecology. My study sites are the Amazon-influenced muddy coast of South America, the Mekong River delta, the Mediterranean, the eastern English Channel, the southern North Sea, and West Africa. 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 of river deltas, and of the tropical islands of French Polynesia, Martinique and Mayotte.

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^{ème} 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

- **Member of the editorial board of the following scientific journals:** *Journal of Marine Science and Engineering* (since 2012), *Marine Geology* (since 2006), *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 the following journals (in alphabetical order): *African Journal of Earth Science*, *Bio-Geoscience*, *Continental Shelf Research*, *Coastal Engineering*, *Earth-Science Reviews*, *Earth Surface Processes and Landforms*, *Ecological Engineering*, *Estuaries and Coasts*, *Estuarine Coastal and Shelf Science*, *Forest Ecology and Management*, *Geographical Journal*, *Geography Compass*, *Geology*, *Geological Society of London – Special Issues*, *Geo-Marine Letters*, *Geomorphology*, *Hydrobiologia*, *International Journal of Earth Sciences*, *International Journal of Ecology and Development*, *Journal of Archaeological Science*, *Journal of Geophysical Research*, *Journal of Sedimentary Research*, *Progress in Physical Geography*, *Sedimentary Geology*, *Sedimentology*, *Wetlands*, *Tourism Management*, *Zeitschrift für Geomorphologie*.
- **Chairman of the Commission on Coastal Systems (CCS)** of the International Geographical Union, December 2008-December 2014.
- **Supervision of 19 completed PhD theses since 1992**

(1) M'hamed AMYAY, 30/09/1992. Professor, Université d'Oujda, Morocco. (2) Olivier COHEN, 18/12/1996. Lecturer, Université du Littoral Côte d'Opale (ULCO), Dunkerque. (3) Franck DOLIQUE, 12/01/1998. Professor, Université Antilles-Guyane, Martinique. (4) Vincent SIPKA, 19/12/1998. Research Engineer, ULCO, Dunkerque. (5) Christine DOBRONIAK, 25/12/2000. Project manager (PM) Développement Durable, Aulnay/Bois, 93. (6) Antoine GARDEL, 8/11/2000. Lecturer, ULCO, Dunkerque. (7) Stéphane VANHEE, 9/12/2002. PM, Institution Interdépartementale des Wateringues, St. Omer, Pas de Calais. (8) Béatrice REICHMÜTH, 17/12/2003. Roadworks engineer, Société Guintoli, St. Etienne-du-Grès, 13. (9) Méha MRANI, 31/03/2006. Senior officer, Institut supérieur du Génie Appliqué, Fès, Morocco. (10) Yacine Hemdane, 10/10/2006. Coastal Engineer, Société SOGREA, Oran, Algeria. (11) Mouncef SEDRATI, 13/12/2006. Lecturer, Université de Bretagne Sud. (12) Claire Marion, 3/12/2007. Lecturer, CNAM INTECHMER, Cherbourg. (13) Arnaud OBLINGER, 8/12/2008. Teaching and research assistant, ULCO, Dunkerque. (14) Matthieu JEANSON, 18/12/2009. Teaching and research assistant, Université de Pau. (15) Abdel ELMIMOUNI, 19/12/2009. Teaching and research assistant, Université Cadi Ayyad, Marrakech, Morocco. (16) Julia BASTIDE, 31/03/2011. Company director. (17) Raoul LAIBI, 22/09/2011, Teaching and Research Assistant, Université Abomey-Calavi, Benin. (18) Elodie BRISSET, 08/05/2014, Post-Doc., IBMBE, France. (19) Anne-Eleonore PAQUIER, 27/11/2014.
- **Current PhD supervision:** (1) Romain WALCKER, viva in 2015, (3) Guillaume BRUNIER, viva in 2015, (4) Benjamin KULLING, viva in 2016, (5) Ismail AOUCHE, viva in 2016, (6) Mamadou Sadio, viva in 2016 ; (7) Manon BESSET, viva in 2017.
- **Participation in 46 Phd juries in France (of which 28 as examiner/reporter)** in France since 1991 (Geography, Earth Sciences, Coastal Oceanography), and of **13 HDR** (~ D.Sc/D.Litt) (of which 7 as examiner/reporter).
- **Overseas invitations as External PhD Examiner for the following theses:** (1) Brian Baily, December 2000, University of Portsmouth, U.K. (2) Selma van Houwelingen, January 2005, Loughborough University, U.K. (3) Kevin Lynch, December 2006, University of Ulster, U.K. (4) Dylan Horne, February 2010, University of New South Wales, Australia. (5) Abdel Elmrini, 2011, Université Abdelmalek Essaadi, Morocco. (6) Mohammed Taouati, April 2012, Université Abdelmalek Essaâdi, Morocco. (7) Anne Montreuil, September 2012, Loughborough University, U.K. (8) Mehdi Maanan, October 2013, Université d'El Jadida, Morocco. (9) Rory Floyd, June 2014, Sween's University, Belfast, U.K.
- **Founder and head of the Coastal Geomorphology and Shoreline Management Unit (*Géomorphologie Dynamique et Aménagement des Littoraux*) (CGSMU)** from September 1994 to March 2004 (ministerial recognition/funding in 1998 and 2002, enabling upgrading in January 2008 into part of a CNRS unit UMR 8187 *Laboratory of Oceanology and Geoscience*, Wimereux). With 9 permanent staff, 2-3 PhD candidates a year, and up-to-date equipment (~2.2 M€), the CGSMU had already become a recognised leader in coastal geomorphology by 2004.
- **Head of doctorate studies:** Head of the Doctorate School of Université du Littoral Côte d'Opale from January 2002 to March 2004 – 13 research teams, 150 academic staff. Federation of all the doctorate schools of the 6 universities of Nord-Pas de Calais at my instigation in 2006.
- **Beneficiary of the Prime d'Excellence Scientifique (Bonus for Quality Research).**
- **Scientific expertise (national)**

Scientific expertise at the behest of the Ministry of Higher Education DS3 (Earth Science Section) 2002 to 2006, and of the National Agency for Research and Teaching Evaluation (*Agence d'Evaluation de la Recherche et de l'Enseignement AERES*) – evaluation of research teams and doctorate schools. • Since 1998, evaluation of scientific project proposals in response to

programmes run by the National Research Agency (*Agence Nationale de la Recherche ANR*): Programme Ecosphère Continentale et Côtière (EC2CO), ANR blancs, Programme National Environnement Côtier PNEC.

● **Scientific expertise for overseas institutions and international research programmes**

- Netherlands: Research projects - Netherlands Organisation for Scientific Research (ALW1PJ/11086).
- U.S.A.: Research projects - National Science Foundation; Professoral mobility - New Jersey Institute of Technology and Rutgers The State University of New Jersey.
- Portugal: Research projects - Portuguese Foundation for Science and Technology.
- Romania: Research projects - National Council for Development and Innovation.
- Japan: Research projects - International Ocean Drilling Program (IODP).
- U.K.: Research projects and PhD projects - University of Ulster.

● **Important scientific grants**

- Institut Universitaire de France Laureate grant (2010-2015). 100,000 €.
- Belmont Forum project on deltas (2013-2016). 160,000 €
- Nord-Pas de Calais Region and French State Contract Plan (2000-2006). *Evolution and Dynamics of a Temperate Macrotidal Estuary, the Authie, Northern France: A Multi-Discipline and Multi-Scale Approach*. Phase 1: 2000-2004; Phase 2: 2004-2008. Project Coordinator. 680,000 €.
- INTERREG II – Nord-Pas de Calais Region, France and Kent County, England. *Sediment dynamics and coastal zone management in the TransManche area*. 1999-2001. Principal Investigator. 155,000 €.
- European Regional Development Funds – ERDF. *Coastal geomorphology of the Nord-Pas de Calais Region – sediment exchanges within the coastal boundary layer*. 1998-2000. Principal Investigator. 95,000 €.
- Contrat d'Objectif-Région Nord-Pas de Calais. *Coastal sediment fluxes in the Nord-Pas de Calais Region*. 1995-97. 30,000 €.
- Université du Littoral Côte d'Opale grants in support of various research projects within the 1996-1999. *Laboratory of Coastal Geomorphology and Shoreline Management – University Research Unit JE 2208*. 120,000 €.

● **University courses taught over the last five years (75 h/yr without counting field trips)**

- Field and laboratory methods in geomorphology – Third year (Licence 3) - 12 h + 2 field trips (trip 1: 1 day, trip 2: 4 days)
- Fluvial geomorphology and river management – Masters 1 – 15 h
- The sediment budget of fragile coastal systems – Masters 2 – 20 h + 1-day field trip
- The geomorphology and management of river deltas – Masters 2 – 20 h
- Extreme events: storms and tsunamis in the palaeoenvironmental record – 8 h + 1/2 field trip

PEER-REVIEWED PUBLICATIONS

Web of Science H-index (February 2015): 22

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
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.

Peer-reviewed articles (indexed in Web of Science)

Submitted

Almar, R., Kestenare, E., Reyns, J., Jouanno, J., Anthony, E.J., Laibi, R., Hemer, M., Du Penhoat, Y., Ranasinghe, R. Wave climate variability and trends in the Gulf of Guinea, West Africa, and consequences for longshore sediment transport. *Continental Shelf Research*.

Anthony, E.J., Almar, R., Aagaard, T. Recent shoreline changes in the Volta River delta, West Africa: the roles of natural processes and human impacts. *African Journal of Aquatic Science*.

- Aouiche, I., Daoudi, L., **Anthony, E.J.**, Sedrati, M., Ziane, E. Harti, A. Multi-decadal shoreline and inner shoreface changes in response to development pressures, Agadir Bay, Morocco: a combined remote sensing, bathymetric-differencing, and wave-current modeling approach. *Geomorphology*.
- Gensac, E., Martinez, J.M., Vantrepotte, V., **Anthony, E.J.** 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*.
- Paquier, A.E, Meulé, S., **Anthony, E.J.**, Bernard, G., Delanghe, D. Interactions of hydrodynamics and *Zostera noltei* meadows in a wind-wave-dominated fetch-limited setting. *Earth Surface Processes & Landforms*.

Accepted

- Aleman, N., Robin, N., Certain, R., **Anthony, E.J.**, Barusseau, J.P., Longshore variability of beach states and bar types in a microtidal, storm-influenced low-energy Mediterranean environment (Languedoc-Roussillon, France). *Geomorphology*.
- Cartier, R., Brisset, E., Paillès, C., Guiter, F., Sylvestre, F., Ruaudel, F., **Anthony, E.J.**, Miramont, C. 5000 years of lacustrine ecosystem changes from Lake Petit (Southern Alps, 2200 m a.s.l.) : regime shift and résilience of algal communities. *The Holocene*.
- Walcker, R., **Anthony, E.J.**, Cassou, C., Aller, R.C., Gardel, A., Proisy, C., Fromard, F. Control of mangrove abundance by decadal changes in oceanic wave fields. *Journal of Biogeography*.

Published

106. **Anthony, E.J.**, 2015. Wave influence in the construction, shaping and destruction of river deltas: A review. *Marine Geology*, 361, 53-78. [INVITED REVIEW BY ELSEVIER].
105. 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.
104. **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. In: Martini, I. P., Wanless, H. R. (eds), *Sedimentary Coastal Zones from High to Low Latitudes: Similarities and Differences*. *Geological Society, London, Special Publications*, 388, 533–560.
103. **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. [INVITED REVIEW BY ELSEVIER].
102. **Anthony, E.J.**, Psuty, N.P., 2014. Human-altered coastal systems: processes, monitoring, and management. *Journal of Coastal Conservation*, 18, 481-482.
101. Almar, R., Hounkonnou, N., **Anthony, E.J.**, Castelle, B., Sénéchal, N., Laïbi, R.A., Mensah-Senoo, T., Degbe, G., Quenum, M., Dorel, M., Chuchla, R., Lefebvre, J-P, du Penhoat, Y., Laryea, W.S., Zodehougan, G., Sohou, Z., Appeaning Addo, K., Kestenare, E., 2014. The Grand Popo beach 2013 experiment, Benin, West Africa: from short timescale processes to their integrated impact over long-term coastal evolution. *Journal of Coastal Research*, Special Issue 70, 651-656.
100. **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.
99. Brisset, E., Miramont, **Anthony, E.J.**, Bruneton, H., Rosique, J., Sivan, O., 2014. Sediment budget quantification of a sub-Alpine river catchment since the end of the last glaciation. *Catena*, 114, 169-179.
98. 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.
97. Brunier, G., **Anthony, E.J.**, Goichot, M., Provansal, M., Dussouillez, P., 2014. Recent morphological changes in the Mekong and Bassac river channels, Mekong Delta: The marked impact of river-bed mining and implications for delta destabilisation. *Geomorphology*, 224, 177-191.
96. Castelle, B., Almar, R., Dorel, M., Lefebvre, J.P., Sénéchal, N., **Anthony, E.J.**, Laïbi, R., Chuchla, R., du Penhoat, Y., 2014. Rip currents and circulation on a high-energy low-tide-terraced beach (Grand Popo, Benin, West Africa). *Journal of Coastal Research*, Special Issue 70, 633-638.
95. Elmimouni, A., Daoudi, L., **Anthony, E.J.**, Morphological change on a wadi-influenced beach: Essaouira, Morocco. *Géomorphologie-relief, processus, environnement*, 2014, 3, 219-266.
94. Jeanson, M., **Anthony, E.J.**, Dolique, F., Cremades, C., 2014a. Mangrove evolution in Mayotte Island, Indian Ocean: A 60-year synopsis based on aerial photographs. *Wetlands*, 34, 483-494.
93. Jeanson, M., **Anthony, E.J.**, Etienne, S., Dolique, F., 2014b. Morphodynamic characterisation of beaches on a Pacific atoll Island: Tetiaroa, French Polynesia. *Journal of Coastal Research*, Special Issue 70, 176-181.
92. Jeanson, M., Dolique, F., **Anthony, E.J.**, 2014c. A GIS-based coastal monitoring and surveillance observatory on tropical islands exposed to climate change and extrême events: the example of Mayotte Island, Indian Ocean. *Journal of Coastal Conservation*, 18, 567-580.
91. Laïbi, R. A., **Anthony, E.J.**, Almar, N., Castelle, B., Sénéchal, Kestenare, E., 2014. Longshore drift cell development on the human-impacted Bight of Benin sand barrier coast, West Africa. *Journal of Coastal Research*, Special Issue 70, 78-83.
90. Montreuil, A.L., Levoy, F., Bretel, P., **Anthony, E.J.**, 2014. Complex sediment recirculation on the ebb delta of a macrotidal inlet (Normandy, France). *Geomorphology*, 219, 114-125.
89. Paquier, A.E., Meulé, S., **Anthony, E.J.**, Bernard, G., 2014. Sedimentation and erosion patterns in a low shoot-density *Zostera noltii* meadow in the fetch-limited Berre Lagoon, Mediterranean France. *Journal of Coastal Research*, Special Issue 70, 563-567.

88. Provansal, M, Dufour, S., Sabatier, F., **Anthony, E.J.**, Raccasi, G., Robresco, S., 2014. The geomorphic evolution and sediment balance of the Lower Rhône River (southern France) over the last 130 years: hydropower dams versus other control factors. *Geomorphology*, 219, 27-41.
87. Robin, N., Certain, R., Bouchette, F., **Anthony, E.J.**, Meulé, S., Aleman, N., 2014. Wave-driven circulation over a double nearshore bar system during storm conditions. *Journal of Coastal Research*, Special Issue 70, 84-89.
86. Sedrati, M., **Anthony, E.J.**, 2014. Confronting coastal morphodynamics with counter-erosion engineering: the emblematic case of Wissant Bay, Dover Strait. *Journal of Coastal Conservation*, 18, 567-580.
85. Sénéchal, N., Laibi, R.A., Almar, R., Castelle, B., Biauxque, M., Lefebvre, J.P., **Anthony, E.J.**, Dorel, M., Chuchla, R., Hounkonnou, M.H., Du Penhoat, Y., 2014. Observed destruction of a beach cusp system in presence of a double coupled cusp system: the example of Grand Popo, Benin. *Journal of Coastal Research*, Special Issue 70, 669-674.
84. **Anthony, E.J.**, 2013. Storms, shoreface morphodynamics, sand supply, and the accretion and erosion of coastal dune barriers in the southern North Sea. *Geomorphology*, 199, 8-21.
83. **Anthony, E.J.**, Gardel, A., Proisy, C., Fromard, F., Gensac, E., Peron, C., Walcker, R., Lesourd, S. 2013. The role of fluvial sediment supply and river-mouth hydrology in the dynamics of the muddy, Amazon-dominated Amapá-Guianas coast, South America: A three-point research agenda. *Journal of South American Earth Sciences*, 44, 18-24.
82. Brisset, E., Miramont, C., Guiter, F., **Anthony, E.J.**, Tachikawa, K., Poulenard, J., Arnaud, F., Delhon, C., Meunier, J.D., Bard, E., Suméra, F., 2013. Non-reversible geosystem destabilisation at 4200 cal. BP: Sedimentological, geochemical and botanical markers of soil erosion recorded in a Mediterranean alpine lake. *The Holocene*, 1863-1874.
81. El Mrini, A., **Anthony, E.J.**, Taaouati, M., Nachite, D., M. Maanan, 2013. A note on contrasting beach-dune morphodynamics, Tetouan coast, northwest Morocco: the role of grain size and human-altered dune morphology. *Journal of Coastal Research*, Special Issue, 65, 1283-1288.
80. Jeanson, M., **Anthony, E.J.**, Dolique, F., Aubry, A., 2013. Wave characteristics and the morphology of pocket beaches fronted by a coral reef-lagoon system, Mayotte Island, Indian Ocean. *Geomorphology*, 182, 190-209.
79. Levoy, F., **Anthony, E.J.**, Monfort, O., Robin, N., Bretel, P., 2013. Formation and migration of transverse bars along a tidal sandy coast deduced from multi-temporal Lidar datasets. *Marine Geology*, 342, 39-52.
78. Péron, C., Chevallier, D., Galpin, M., Chatelet, A., **Anthony, E.J.**, Gardel, A., 2013. Beach morphological changes in response to marine turtles nesting: a preliminary study of Awala-Yalimapo beach, French Guiana (South America). *Journal of Coastal Research*, Special Issue 65, 99-104.
77. Shah Hosseini, M., Morhange, C., De Marco, A., Wante, J., **Anthony, E.J.**, Sabatier, F., Mastronuzzi, G., Pignatelli, C., Piscitelli, A., 2013. Coastal boulders in Martigues, French Mediterranean: evidence for extreme storm waves during the Little Ice Age. *Zeitschrift für Geomorphologie*, Supplement 4, 181-199.
76. **Anthony, E.J.**, Mrani-Alaoui, M., Héquette, A., 2012. Reply to the Comments by C. Baeteman and B. Mauz on "Shoreface sand supply and mid- to late Holocene aeolian dune formation on the storm dominated macrotidal coast of the southern North Sea" by E.J. Anthony, M. Mrani-Alaoui and A. Héquette [Marine Geology 276 (2010) 100-104]. *Marine Geology* 311-314, 67-70.
75. **Anthony, E.J.**, Gratiot, N., 2012a. Comment on Protecting Brazil's Coastal Wetlands, <http://comments.sciencemag.org/content/10.1126/science.335.6076.1571>.
74. **Anthony, E.J.**, Gratiot, N., 2012b. Coastal engineering and large-scale mangrove destruction in Guyana, South America: Averting an environmental catastrophe in the making. *Ecological Engineering*, 47, 268-273.
73. Brisset, E., Guiter, F., Miramont, C., Delhon, C., Arnaud, F., Disnar, J.R., Poulenard, J., **Anthony, E.J.**, Meunier, J.D., Wilhelm, B., Pailles, C., 2012. Approche multidisciplinaire d'une séquence lacustre holocène dans les Alpes du Sud au Lac Petit (Mercantour, alt. 2 200 m, France) : Histoire d'un géosystème dégradé. *Quaternaire*, 23, 309-319.
72. El Mrini, A., Maanan, **Anthony, E.J.**, M., Taaouati, M., 2012. An integrated approach to characterize the interaction between coastal morphodynamics, geomorphological setting and human interventions on the Mediterranean beaches of North-Western Morocco. *Applied Geography*, 35, 334-344.
71. El Mrini, A., **Anthony, E.J.**, Maanan, M., Taaouati, M., Nachite, D., 2012. Beach-dune degradation in a Mediterranean context of strong development pressures, and the missing integrated management perspective. *Ocean & Coastal Management*, 69, 299-306.
70. **Anthony, E.J.**, Cohen, O., Sabatier, F., 2011. Chronic offshore loss of nourishment on Nice Beach, French Riviera: A case of over-nourishment of a steep beach? *Coastal Engineering*, 58, 374-383.
69. **Anthony, E.J.**, Dolique, F., Gardel, A., Marin, D., 2011. Contrasting sand beach morphodynamics in a mud-dominated setting: Cayenne, French Guiana. *Journal of Coastal Research*, Special Issue 64, 30-34.
68. **Anthony, E.J.**, Gardel, A., Dolique, F., Marin, D., 2011. The Amazon-influenced mud-bank coast of South America: an overview of short- to long-term morphodynamics of 'inter-bank' areas and chenier development. *Journal of Coastal Research*, Special Issue 64, 25-29.
67. Desguée, R., Robin, N., Gluard, L. Monfort, O., **Anthony, E.J.**, Levoy, F., 2011. Contribution of hydrodynamic conditions during shallow water stages to the sediment balance of a tidal flat, Mont-saint-Michel Bay, Normandy, France. *Estuarine, Coastal and Shelf Science*, 94, 343-354.
66. Gardel, A., Gensac, E., **Anthony, E.J.**, Lesourd, S., Loisel, H. 2011. Wave-formed mud bars: their morphodynamics and role in opportunistic mangrove colonization. *Journal of Coastal Research*, Special Issue 64, 384-387.
65. Gensac, E., Gardel, A., Lesourd, S., **Anthony, E.J.**, Proisy, C., Loisel, H., 2011. Short-term prediction of the evolution of mangrove surface areas: The example of the mud banks of Kourou and Sinnamary, French Guiana. *Journal of Coastal Research*, Special Issue 64, 388-392.
64. Mrani Alaoui, M., **Anthony, E.J.**, 2011. New data and a morphodynamic perspective on Mid- to Late Holocene palaeoenvironmental changes in the French Flanders coastal plain, southern North Sea. *The Holocene*, 21, 445-453.

63. Orford, Julian D., **Anthony, E.J.**, 2011. Extreme events and the morphodynamics of gravel-dominated coastal barriers: Strengthening uncertain ground. *Marine Geology*, 290, 41-45.
62. Anthony, E.J., Mrani Alaoui, M., Héquette, A., 2010. Shoreface sand supply and mid- to late Holocene aeolian dune formation on the storm-dominated macrotidal coast of the southern North Sea. *Marine Geology*, 276, 100-104.
61. **Anthony, E.J.**, Gardel, A., Gratiot, N., Proisy, C., Allison, M.A., Dolique, F., Fromard, F., 2010. The Amazon-influenced muddy coast of South America: A review of mud bank-shoreline interactions. *Earth-Science Reviews*, 103, 99-129.
60. **Anthony, E.J.**, Ruz, M.H., Vanhée, S., 2009. Aeolian sand transport over complex intertidal bar-trough beach topography. *Geomorphology*, 105, 95-105.
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