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Education

Ph.D. Ocean and Coastal Engineering, University of Southern California ----- August 2002

M.S. Ocean and Coastal Engineering, University of Southern California ----- May 1997

B.S. Civil and Environmental Engineering, University of Southern California ----- December 1995

B.S. Journalism, Telecommunications Production, University of Florida ----- May 1993

Employment

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| – Director, Consultant | eCoast Ltd. | May 2012– Present |
| – Oceanographic Consultant | ASR Ltd., Marine Consulting and Research | Feb. 2006 – Apr.. 2012 |
| – Adjunct Assistant Professor | University of Southern California | July 2009 - Present. |

Experience

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|------------------------------------|---|---------------------------|
| – Research Assistant Professor | University of Southern California | August 2003 – July 2008 |
| – Research Associate | Humboldt State University | June 2003 – June 2006 |
| – Post Doctoral Research Associate | University of Southern California | August 2002 – August 2003 |
| – Consultant | The Surfrider Foundation
San Clemente, CA | 2001, 2002 |
| – Consultant | Inst. of Geological and Nuclear Sciences
Wellington, New Zealand | June 2003 |

Professional Output at a Glance:

44 peer reviewed journal articles (12 lead author) since 1997.

30+ technical and consulting reports since 2006.

12 post-tsunami reconnaissance surveys (4 as team leader/principal scientist).

5 field investigations of near-shore hydrodynamics involving instrument deployments

2 large scale hydraulic physical laboratory experiments

3 organized or co-organized international conferences

2 co-editorship conference proceedings volume

Recent Publications

- **Borrero, J.C.** and Greer, S.D. (2012) Comparison of the 2010 Chile and 2010 Japan tsunamis in the Far-field – Pure and Applied Geophysics, DOI 10.1007/s00024-012-0559-4.
- **Borrero, J.**, Bell, R., Csato, C., DeLange, W., Greer, D., Goring, D., Pickett, V. and Power, W. (2012) Observations, Effects and Real Time Assessment of the March 11, 2011 Tohoku-oki Tsunami in New Zealand, Pure and Applied Geophysics, DOI 10.1007/s00024-012-0492-6.

- Hill, E, **Borrero, J.**, Huang, Z., Qiu, Q., Banerjee, P., Natawidjaja, D., Elosegui, P., Fritz, H., Pranantyo, I., Li, L., Macpherson, K., Skanavis, V., Synolakis, C., and Sieh, K. (2012) The 2010 Mw 7.8 Mentawai earthquake: Very shallow source of a rare tsunami earthquake determined from tsunami field survey and near-field GPS. *Journal of Geophysical Research*, Vol 117, B06402, doi:10.1029/2012JB009159.
- Lebreton, L.C.-M., Greer, S.D. and **Borrero J.C.**, (2012) Numerical modelling of floating debris in the world's oceans. *Mar. Pollut. Bull.*, doi:10.1016/j.marpolbul.2011.10.027.
- Lynett, P., **Borrero, J.**, Weiss, R., Son, S., Greer, D., Renteria, W. (2012) Observations and Modeling of Tsunami-Induced Currents in Ports and Harbors, *Earth and Planetary Science Letters*, 327-328 (68-74).
- Fritz, H.M., **Borrero, J.C.**, Synolakis, C.E., Okal, E.A., Weiss, R., Titov, V., Jaffee, B., Foteinis, S., Lynett, P., Chan, I., and Liu, P.L-F (2011) Insights on the 2009 South Pacific Tsunami in Samoa and Tonga from Field Surveys and Numerical Simulations, *Earth Sci. Revs.*, 107, 66–75.
- Barberopoulou, A., **Borrero, J.C.**, Uslu, B., Legg, M. and Synolakis, C.E. (2011) A Second Generation of Tsunami Inundation Maps for the State of California, *Pure and Applied Geophysics*, DOI10.1007/s00024-011-0293-3

Additional Publications

- **Borrero, J.C.**, Weiss, R., Okal, E., Hidayat, R., Suranto, Arcas, D., and Titov, V.V., (2009), The Tsunami of September 12, 2007, Bengkulu Province, Sumatra, Indonesia: Post-Tsunami Field Survey and Numerical Modeling, *Geophysical Journal International*, Vol 178, p. 180–194.
- Dengler, L.A., Uslu, B., Barberopoulou, A., **Borrero, J.C.**, and Synolakis, C. (2008). The Vulnerability of crescent city, California, to Tsunamis Generated by Earthquakes in the Kuril Islands Region of the Northwestern Pacific, *Seismological Research Letters*, Vol. 79, No. 5, September/October, 2008, 608 – 619.
- Uslu, B., **Borrero, J.C.**, Dengler, L., and Synolakis, C.E. (2007). Tsunami Inundation at Crescent City, California generated by earthquakes on the Cascadia Subduction Zone. *Geophysical Research Letters*, Vol. 34, L20601.
- Mead, S.T., **Borrero, J.C.**, Black, K.P., Anderson, K. (2007). Multi-Faceted Beach Management at St. Francis Bay Beach, South Africa, *Shore and Beach*, V 75 (4): 43 – 54.
- **Borrero, J.C.**, Sieh, K., Chlieh, M. and Synolakis, C.E. (2006), Tsunami Inundation Modeling for Western Sumatra, *Proceedings of the National Academy of Science*, V. 103, No. 52, p. 19673 – 19677.
- **Borrero, J.C.** (2005). Field Data and Satellite Imagery of Tsunami Effects in Banda Aceh, *Science*, V. 308, p. June 10, 2005.
- **Borrero, J.C.**, Legg, M.R., and Synolakis C.E. (2004). Nearshore Tsunami Sources in Southern California, *Geophysical Research Letters*. Vol 31, July 2004.
- **Borrero, J.C.**, Dolan, J., Synolakis, C.E., (2001) Tsunami Sources Within the Eastern Santa Barbara Channel, *Geophysical Research Letters*, V. 28 (4), 643-647.

Recent Consulting and Technical Reports

- **Borrero, J.C.** (2011) Local Tsunami Source Models for Northern Chile, Prepared for Golder and Associates, Irvine CA.
- **Borrero, J.C.** and S. D. Greer, (2011) Wheatstone LNG Terminal Tsunami Hazard Study, Prepared for Chevron Australia Pty. Ltd.
- **Borrero, J.C.**, (2011) Review of WYB0004 Seismic Hazard Assessment: Stage 2 Interim Tsunami Hazard Assessment Report, Prepared for Arup, London.
- **Borrero, J.C.**, (2010) Borth Reef: Physical Modelling Study of Coastal Protection and Surfability, Prepared for Royal Haskoning, Peterborough, UK
- **Borrero, J.C.** (2008) “Historical Assessment of Tsunamis Affecting the Southern Coast of the Dominican Republic” Prepared for Sandwell Engineering, Vancouver, Canada, May 2008.
- **Borrero, J.C.**, L. Dengler, B. Uslu, C.E. Synolakis (2006) “Numerical Modeling of Tsunamis Effects at Marine Oil Terminals in San Francisco Bay”, Prepared for California State Lands Commission, Marine Facilities Division.