

## CURRICULUM VITAE

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**CITIZENSHIP:** U.S.A.

### EDUCATION:

B.S. University of North Carolina, Chapel Hill, NC, 1971, Geology

M.S. Brown University, Providence, RI, 1974, Geology

Ph.D. Cornell University, Ithaca, NY, 1978, Geology; minor: aquatic ecology

### PRESENT POSITION:

Senior Research Scientist, Institute for Geophysics  
The John A. and Katherine G. Jackson School of Geosciences  
The University of Texas at Austin

### PROFESSIONAL EXPERIENCE:

1993- Senior Research Scientist, Inst. for Geophysics, Univ. Texas at Austin

1981-93 Research Scientist, Inst. for Geophysics, Univ. Texas at Austin

1979-80 Research Scientist Assoc. III, Inst. for Geophysics, Univ. Texas at Austin

1978-79 Post-doc. Research Assoc., Dept. Geological Sciences, Cornell Univ., Ithaca, NY

1973-78 Research Asst., Dept. Geological Sciences, Cornell Univ., Ithaca, NY

1972-73 Research Asst., Dept. Geological Sciences, Brown Univ., Providence, RI

1971-72 Teaching Asst., Dept. Geological Sciences, Brown Univ., Providence, RI

### MEMBERSHIPS:

American Geophysical Union American Quaternary Association

Sigma Xi Geological Society of America International Society for Reef Studies

### TEACHING EXPERIENCE:

GEO 660 Field Mapping Course: 1984; 1985.

GEO 312 K Physical Geology for Engineers 1988

### FIELD PROJECTS:

2011 Coral Drilling Vanuatu; LGM corals on Santo

2010 Coral Drilling Vanuatu; GPS installations Solomons

2010 Haiti Earthquake coral geodesy, paleogeodesy

2009 Team Leader: Installation of seismograph and GPS network in W Solomons

2007 Team Leader: Tsunamigenic megablocks, Tongatapu Island, SW Pacific

2007 Team Leader: Rapid Response 1 April 2007  $M_w \sim 8.1$  Solomons Earthquake

2006 Quick Response to 3 May 2006 large Tonga Earthquake: vertical crustal motions

2005 Fossil Coral and Speleothem Paleoclimate Records from Papua New Guinea, Solomon Islands, and Vanuatu

1992 - Drilling corals for climate studies: New Caledonia, Vanuatu, Solomons, Puerto Rico

2005-6 Seismic Profiling, Dredging, Multi-Beam Mapping, Sabine Bank, Vanuatu

- 2002 Chief Scientist, R/V LM Gould LMG02-9 Antarctic Peninsula GPS Tectonics
- 2002 Coral Tectonics of Woodlark Rift Propagation into Australian plate
- 2002 West Antarctic GPS Network: Installation and First Measurements
- 2001 Coral Records of Paleosea Level, Barbados, W.I.
- 2001 Team Leader: Fossil Coral Paleoclimate Records, Western Solomon Islands
- 1998 Chief Scientist: R/V LM Gould Cruise LMG98-10 GPS Antarctic Peninsula
- 1997 Chief Scientist: R/V Abel-J Cruise: GPS Antarctic Peninsula
- 1990-00 Deep drilling of reefs for the coral climate record from present to 30 Ka: Vanuatu, Papua New Guinea and Solomon Islands
- 1988 - GPS Project: Tectonics of SW Pacific Arc Systems
- 1976 - Uplifted Reefs, Vanuatu & Solomon Islands: Tectonics and Paleoseismology
- 1993 -7 Paleoseismology and crustal motions of the Sumatran Subduction Zone
- 1980-91 Neotectonics and Paleoseismology, Dominican Republic
- 1990 ODP Leg 134 Proponent and Shipboard Sedimentologist
- 1981 Co-Chief Scientist: North Atlantic Transect MCS cruise; Fieldwork Haiti, Dom. Rep.
- 1980 Science Staff: Old Bahama Channel MCS cruise; Recon. Dominican Republic
- 1974 Emerged Coral Reefs and Neotectonics, Tonga and Fiji
- 1972 Emerged Coral Reefs and Paleosea Levels, Barbados, W.I.

## **PUBLICATIONS:**

### **In Press or Submitted:**

1. Sinclair, D., Banner, J., Taylor, F.W., Partin, J., Jenson, J., Mylroie, J., Goddard, E., and Quinn, T., accepted, Magnesium and Strontium Trace-Element Systematics in West Pacific Speleothems, *Chemical Geology*, .
2. Partin, J.W., Jenson, J.W., Banner, J.L., Quinn, T.M., Taylor, F.W., Sinclair, D., Lander, M. A., Bell, T., Blaz, M., Jocson, J.M.U. , Hardt, B., and Danko, T., in press, Relationship between Modern Rainfall Variability, Cave Dripwater and Stalagmite Geochemistry in Guam, USA, G3...
3. DeLong, K., Quinn, T.M., Taylor, F.W., Shen, C.C., and Lin, K., submitted, Surface Ocean Temperature Variability in the Southwest Tropical Pacific since 1649 CE, *Science*...
4. Hereid, K., T. M. Quinn, and F. W. Taylor, submitted, Coral record of reduced El Nino activity in the early 15th to middle 17th century, *Nature Geoscience*, 2011, #2408

### **Published:**

1. Chen, M.C., Frohlich, C., Taylor, F.W., Burr, G.S., and van Ufford, A.Q., 2011, Arc segmentation and seismicity in the Solomon Island Arc, SW Pacific, *Tectonophysics*, 507, 47-69.
2. Cabioch, G., and Taylor, F.W., 2011, The Late Quaternary Reefs, in The Natural History of Santo, Bouchet, P., Le Guyader, H., and Pascal, Olivier, The Natural History of Santo, Publications scientifique du Museum national d'Histoire naturel, v. 70 de la collection Patrimoines Naturels, p. 19-24.
3. Taylor, F.W., 2011, Earthquakes and emergence or submergence of coral reefs, in Hopley, D. (ed.) *Encyclopedia of Modern Coral Reefs, Encyclopedia of Earth Science Series, Springer-Verlag*, 327-333.
4. Frohlich, C., Hornbach, M.J., and Taylor F.W., 2011, Megablocks, in Hopley, D. (ed.) *Encyclopedia of Modern Coral Reefs, Encyclopedia of Earth Science Series, Springer-Verlag*, 679-683.

5. Hornbach, M.J., 18 co-authors, Frederick W. Taylor, 2010, High tsunami frequency as a result of combined strike-slip faulting and coastal landslides, *Nature Geoscience*, 3, 783-788, doi:10.1038/NGEO975.
6. Hayes, G., Briggs, R., Sladen, A., Fielding, E., Prentice, C., Hudnut, K., Mann, P., Taylor, F.W., Crone, A., Gold, R., Ito, T., and Simons, M., in press, Complex rupture during the 12 January 2010 Haiti Earthquake, *Nature Geoscience*, 3, 800-805, doi:10.1038/ngeo977.
7. Hornbach, M.J., Mann, P., Taylor, F.W., and Bowen, S., 2010, Estimating the age of near-shore carbonate slides using coral reefs and erosional markers: A case study from Curacao, Netherlands Antilles, *The Sedimentary Record*, 8, no. 1, 4-10, doi: 10.21/sedred.2010.1.
8. Bevis, M., , Kendrick, E., Smalley, R., Dalziel, I., Caccamise, D., Sasgen, I., Helsen, M., Taylor, F.W., Zhou, H., Brown, A., Raleigh, D., Willis, M., Wilson, T., and Konfal, S., 2009, Geodetic measurements of vertical crustal velocity in West Antarctica and the implications for ice mass balance, *Geochem. Geophys. Geosyst.*, 10, Q10005, doi:10.1029/2009GC002642.
9. Burr, G.S., Beck, J.W., Correge, T., Cabioch, G., Taylor, F.W., and Donahue, D.J., 2009, Modern and Pleistocene reservoir ages inferred from South Pacific corals, *Radiocarbon*, 51, 319-335.
10. Frohlich, C. Hornbach, M.J., Taylor, F. W., Shen, C.-C., Moala, 'A., Morton, A.E., and Kruger, J., 2009, Huge erratic boulders in Tonga deposited by a prehistoric tsunami, *Geology* 37, 131-134.
11. Shen, C.-C., Li K.-S., Sieh K., Natawidjaja D., Cheng H., Wang X., Edwards R. L., Lam D. D., Hsieh Y.-T., Fan T.-Y., Meltzner A. J., Taylor F. W., Quinn T. M., Chiang H.-W., and Kilbourne K. H., 2008, Erratum to "Variation of initial  $^{230}\text{Th}/^{232}\text{Th}$  and limits of high precision U-Th dating of shallow-water corals". *Geochim. Cosmochim. Acta*, 72, 6199. (SCI, IF:4.385, T:0).
12. Shen, C.-C., Li, K.-S., Sieh, K., Natawidjaja, D., Cheng, H., Wang, X., Edwards, R.L., Lam, D.D., Hsieh, Y.-T., Fan, T.-Y., Melzner, A., Taylor, F.W., Quinn, T.M., Chaing, H.-W., Kilbourne, K.H., 2008, Variation of initial  $^{230}\text{Th}/^{232}\text{Th}$  and limits of high precision U-Th dating of shallow-water corals, *Geochim. Cosmochim. Acta*, 72, 4201-4223.
13. Taylor, F.W., Bevis, M.G., Dalziel, I.W.D., Smalley, R., Frohlich, C., Kendrick, E., Foster, J., Phillips, D.A., and Gudipati, K., 2008, Kinematics and segmentation of the South Shetland Islands-Bransfield basin system, northern Antarctic Peninsula, *Geochem., Geophys., Geosyst.*, 9, 7 pp, Q04035, doi:10.1029/2007GC001873.
14. Sinclair, D.J., Banner, J.L., Taylor, F.W., 2008, Deglacial climate dynamics in the western Pacific Ocean measured in a stalagmite from Guam, *Geochim. Cosmochim. Acta*, 72, A870-?..
15. Taylor, F. W., Briggs, R.W., Frohlich, C., Brown, A., Hornbach, M., Papabatu, A.K., Meltzner, A., and Billy, D., 2008, Rupture across arc segment and plate boundaries in the 1 April 2007 Solomons earthquake, *Nature Geoscience*, 1, 253-257.
16. DeLong, K., Quinn, T. M., and Taylor, F.W., 2007, Reconstructing 20th century SST variability in the southwest Pacific: A replication study using multiple coral Sr/Ca records from New Caledonia, *Paleoceanography*, 22, PA4212, doi:10.1029/2007PA001444.
17. Kilbourne, K.H., Quinn, T.M., Guilderson, T.P., Webb, R.S., and Taylor, F.W., 2007, Decadal- to interannual-scale source water variations in the Caribbean Sea recorded by Puerto Rican coral radiocarbon, *Climate Dynamics*, DOI 10.1007/s00382-007-0224-2.
18. Smalley R. Jr., Dalziel, I.W.D., Bevis, M.G., Kendrick, E., Stamps, D.S., King, E.C., Taylor, F.W., Lauría, E., Zakrajsek, A., and Parra, H., 2007, Scotia arc kinematics from GPS geodesy, *Geophys. Res. Lett.*, 34, L21308, doi:10.1029/2007GL031699.

19. Holland, C.L., Scott, R., An, Soon-II, and Taylor, F.W., 2007, Propagating Decadal Sea Surface Temperature Signal Identified in Modern Proxy Records of the Tropical Pacific, *Climate Dynamics*, DOI 10.1007/s00382-006-0174-0.
20. Quinn, T. M. and Taylor, F.W., 2006, SST artifacts in coral proxy records produced by early marine diagenesis in a modern coral from Rabaul, Papua New Guinea, *Geophys. Res. Letts.*, 33, L04601, doi:10.1029/2005GL024972.
21. Quinn, T. M. and Taylor, F.W., and Crowley, T.M., 2006, Coral-based climate variability in the Western Pacific Warm Pool since 1867, *J. Geophys. Res.*, 111, doi: 10.1029/2005JC003243.
22. Gallup C. D., D. M. Olson, R. L. Edwards, L. M. Gruhn, A. Winter, F W. Taylor, 2006, Sr/Ca-Sea surface temperature calibration in the branching Caribbean coral *Acropora palmata*, *Geophys. Res. Lett.*, 33, L03606, doi:10.1029/2005GL024935.
23. Caccamise, D.J., Merrifield, M.A., Bevis, M., Foster, J., Taylor, F.W., Schenewerk, M.S., and Firing, Y.L., 2005, Sea Level Rise at Honolulu and Hilo, Hawaii: GPS Estimates of Differential Land Motion, *Geophys. Res. Lett.*, 32, L03607, doi:10.1029/2004GL021380.
24. Taylor, F.W., Bevis, M.G., Edwards, R. L., Cheng, H., Gray, S., Burr, G.S., Beck, W., Cutler, K.B., Phillips, D.A., Cabioch, G., Recy, J., and Mann, P., 2005, Rapid forearc uplift and subsidence caused by impinging bathymetric features: examples from the New Hebrides and Solomon Arcs, *Tectonics*, 24, TC6005 10.1029/2004TC001650.
25. Reimer, P. J., et al., and F. W. Taylor, 2004, IntCal04 terrestrial radiocarbon age calibration, 0-26 cal kyr BP, *Radiocarbon*, 46, 1029-1058.
26. Hughen, K.A., co-authors alphabetically through Taylor, F.W., 2004, Marine04 Marine Radiocarbon Age Calibration, 0-26 Cal KYR BP, *Radiocarbon* 46, 1058-1086.
27. Cutler, K.B.; Gray, S.C.; Burr, G.S.; Edwards, R.L.; Taylor, F.W.; Cabioch, G.; Beck, J.W.; Cheng, H.; Moore, J. 2004, Radiocarbon Calibration and Comparison to 50 Kyr BP with Paired  $^{14}\text{C}$  and  $^{230}\text{Th}$  Dating of Corals from Vanuatu and Papua New Guinea, *Radiocarbon* 46, 1127-1160.
28. Burr, G.S., Galang, C., Taylor, F.W., Gallup, C., Edwards, R.L., Cutler, K., Quirk, B., 2004, Radiocarbon results from a 13-KYR BP Coral from the Huon Peninsula, Papua, New Guinea, *Radiocarbon*, 46, 1127-1160.
29. Kilbourne, H., Quinn, T.E., Taylor, F.W., Delcroix, T., and Gouriou, Y. 2004, El Niño–Southern Oscillation–related salinity variations recorded in the skeletal geochemistry of a *Porites* coral from Espiritu Santo, Vanuatu, *Paleoceanography*, 19, PA4002, doi:10.1029/2004PA001033.
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31. Schmidt, A., Burr, G.S., Taylor, F.W., O'Malley, J., and Beck, J.W., 2004, A semiannual radiocarbon record of a modern coral from the Solomon Islands, *Nucl. Instr. And Meth. In Phys, Res. B. Beam Interactions with Materials and Atoms*, V 223-224, 420-427.
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34. Cabioch, G., Cutler, K.B., Beck, J.W., Burr, G.S., Correge, T., Edwards, R.L., and Taylor,

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35. Cutler, K.B., Edwards, R.L., Taylor, F.W., Cheng, H., Adkins, J., Gallup, C.D., Cutler, P.M., Burr, G.S., Chappell, J. and Bloom, A.L. 2003. Rapid sea-level fall and deep-ocean temperature change since the last interglacial. *Earth & Planet. Sci. Letts.*, 206, 253-271.
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  37. Gallup, C.D., Cheng, H., Taylor, F.W., and Edwards, R.L., 2002, Direct determination of the timing of sea level change during Termination II, *Science*, 295, 310-313.
  38. Zachariasen, J., F.W. Taylor, K. Sieh, and W.S. Hantoro, 2000, Modern vertical deformation above the Sumatran subduction zone: Paleogeodetic Insights from Coral Microatolls, *Bull. Seism. Soc. America*, 90, 897-913.
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  40. Cabioch, G., Taylor, F.W., Correge, T., Recy, J., Edwards, R.L., Burr, G.S., Le Cornec, F., and Banks, K.A., 1999, Occurrence and significance of microbialites in the uplifted Tasmaloum reef (SW Espiritu Santo, SW Pacific), *Sedimentary Geology* 126, 305-316.
  41. Zachariasen, J., Sieh, K., Taylor, F.W., Edwards, R.L., and Hantoro, W.S., 1999, Submergence and uplift associated with the giant 1833 Sumatran subduction earthquake: Evidence from coral microatolls, *J. Geophys. Res.* 104, 895-919.
  42. Beck, J.W., Gagan, M., Tudhope, S., Recy, J., Taylor, F., Edwards, R.L., and Cabioch, G., 1998, Abrupt changes in early Holocene tropical sea surface temperature from coral Sr/Ca, U/Ca and <sup>18</sup>O thermometry, In: Eiji Matsumoto (editor), *Quaternary Environmental Change in the Asia and Western Pacific Region, Proc. Third Int'l Marine Sci. Symp. on Coral Climatology by Annual Bands 16-17 Oct. 1997, Japan association for Quaternary Research* 42-49.
  43. Burr, G.S., Beck, J.W., Taylor, F., Recy., J., Edwards, R.L., Cabioch, G., Correge, T., Donahue, D.J., and O'Malley, J.K., 1998, A coral-based radiocarbon calibration between 11.7 and 12.4 kyr BP derived from <sup>230</sup>Th ages of corals from Espiritu Santo Island, Vanuatu, *Radiocarbon*, 40, 1093-1106.
  44. Mann, P., Prentice, C.S., Burr, G., Peña, L., and Taylor, F.W., 1998, Tectonic geomorphology and paleoseismicity of the Septentrional fault system, Dominican Republic, in Dolan, J., and Mann, P. (eds.), "Active Strike-Slip and Collisional Tectonics of the Northern Caribbean Plate Boundary Zone", *Geol. Soc. America Spec. Paper* 326, 63-123.
  45. Buddemeier, R.W., and Taylor, F.W., 1998, CHAPTER 4: SCLEROCHRONOLOGY, in Sowers, J.M., Noller, J.S. and Lettis, W.R. (eds.), *Dating and earthquakes: review of Quaternary geochronology and its application to paleoseismology*, U.S. Nuclear Regulatory Commission, NUREG/CR 5562, 2-43 - 2-66.
  46. Quinn, T.M., Crowley, T.J., Taylor, F. W., Henin, C., Joannot, P., and Join, Y., 1998, A multicentury stable isotope record from a New Caledonia coral: Interannual and decadal sea surface temperature variability in the Southwest Pacific since 1657 A.D., *Paleoceanography* 13, 412-426.
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56. Chen, J.K., Taylor, F.W., Edwards, R.L., Cheng, H., and Burr, G.S., 1995, Recent emerged reef terraces of the Yenkahe resurgent block, Tanna, Vanuatu: Implications for volcanic, landslide, and tsunami hazards: *J. Geology*, 103, 577-590.
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### **Book Review**

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### **ABSTRACTS (past five years):**

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2. Mann, P., Prentice, C.S., Briggs, R.W., Taylor, F.W., Crone, A.J., Gold, R.D., Hudnut, K.W., Koehler, R.D., and Jean, P., 2010, Geologic Effects of the January 12, 2010, Haiti Earthquake: Tectonic Geomorphology, Surface Rupture, and Coastal Uplift (*Invited*), Abst., Meeting of Americas, Brazil.
3. Inoue, M., Quinn, T.M., Taylor, F.W., Suzuki, A., Ishimura, T., Kawahata, H., Cheng, H., Edwards, R.L., 2011, Reconstruction of temperature and oxygen isotopes in the surface water of the mid-Holocene tropical western Pacific, Meeting Abst.

4. P. Mann, C. S. Prentice, R. W. Briggs, F. W. Taylor, A. J. Crone, R. D. Gold, K. W. Hudnut,; R. D. Koehler, P. Jean, 2010, Geologic Effects of the January 12, 2010, Haiti Earthquake: Tectonic Geomorphology, Surface Rupture, and Coastal Uplift (Invited), Meeting of the Americas, Brazil.
5. Yu-Ting Kuo, Chin-Shang Ku, Fred Taylor, Bor-Shouh Huang, Yue-Gau Chen, Wei-An Chao, Hsin-Hua Huang, Yu-Ju Kuo, Yih-Min Wu, John Suppe, 2010, Seismogenic Fault Geometry of 2010 Mw 7.1 Solomon Islands Earthquake, AGU Abst., Fall Meeting.
6. Richard W Briggs, Gavin P Hayes, Anthony Sladen, Eric J Fielding, Carol S Prentice, Kenneth W Hudnut, Paul Mann, Frederick W Taylor, Anthony J Crone, Ryan D Gold, Takeo Ito, Mark Simons, Phedy Jean , 2010, Complex rupture source of the 12 January 2010 Léogâne, Haiti earthquake derived from geologic, geodetic, and seismologic observations, AGU Abst., Fall Meeting.
7. F. W. Taylor, Luc Lavier, M.G. Bevis, Cliff Frohlich, Steven Grand, 2010, Subduction of very rugged seafloor topography imposes stronger interplate coupling and elevated mean stress levels at the Western Solomon Islands forearc, AGU Abst., Fall Meeting.
8. Meaghan K. Gorman, Terrence M. Quinn, Frederick W. Taylor, Elizabeth M. Powell, Guy Cabioch, Valérie Ballu, Christophe Maes, James A. Austin, Steffen Saustруп, Bernard Pelletier, 2010, A record of ENSO variability in the Western Pacific Warm Pool during the 19<sup>th</sup> century, AGU Abst., Fall Meeting
9. Christopher R. Maupin, Judson W. Partin, Terrence M. Quinn, Chuan-Chou Shen, Ke Lin, Frederick W. Taylor, Daniel J. Sinclair, Jay L. Banner, 2010, Stable isotope records of convection variability in the West Pacific Warm Pool from fast-growing stalagmites, AGU Abst., Fall Meeting.
10. Quinn, Terrence M.; Taylor, F. W., Partin, Judson W., Maupin, Chris R., Hereid, K., Gorman, M., 2010, Tales from the South (and West) Pacific in the Common Era: A Climate Proxy Perspective, AGU Abst., Fall Meeting
11. Paul Mann, Carol S. Prentice, Richard W. Briggs, Frederick Taylor, Anthony J. Crone, Ryan D. Gold, Kenneth W. Hudnut, Richard D. Koehler, Phedy Jean, 2010, Geologic Effects of the January 12, 2010, Haiti Earthquake: Tectonic Geomorphology, Surface Rupture, and Coastal Uplift, AGU Abst., Fall Meeting
12. K.A. Hereid, T.M. Quinn, F.W. Taylor, C.C. Shen, J.L. Banner, 2010, ENSO Variability during the Little Ice Age from the Perspective of a Long Coral Record from the Western Pacific Warm Pool, AGU Abst., Fall Meeting
13. Partin, Judson W.; Quinn, Terrence M.; Shen, C.C, Maupin, Chris R.; Taylor, Frederick W., Sinclair, Daniel; Banner, Jay L, 2010, Rainfall Variability under the South Pacific Convergence Zone as Reconstructed from a Speleothem Record (1670-2005) from Vanuatu, AGU Abst., Fall Meeting
14. Daniel J. Sinclair, Judson W. Partin, Jay L. Banner, Frederick W. Taylor, John W. Jenson, John E. Mylroie, Ethan Goddard, Terrence M. Quinn, 2010, Changing Atmospheric Circulation over the Western Pacific During the Early-Mid Holocene: Preliminary Results from a Speleothem from Guam ICP Abst
15. Wonsuck Kim, Andrew Petter, Bruce Fouke, Terry Quinn, Charles Kerans, Fred Taylor, David Mohrig, and Chris Paola, 2010, Decoupling allogenic forcing from autogenic processes: Clastic and Carbonate Experimental Stratigraphy, AAPG Meeting Abst.
16. **INVITED:** Taylor, F.W., 2009, The Origins of coral geodesy and paleogeodesy and investigation of convergent margin tectonic processes, Geol. Soc. America Abst., Portland, OR.

17. K. A. Hereid; F. W. Taylor; J. Banner Interannual to multi-decadal scale climate variability in the Western Pacific Warm Pool recorded by the geochemistry of 16th-17th century corals from Papua New Guinea, Abst., Fall AGU Meeting.
18. Mann, P., Horton, B.K., Taylor, F.W., Shen, C.C., Lin, K., and Renema, W., 2009, Uplift patterns of reef terraces and sedimentary rocks constrain tectonic models for metamorphic core complexes in eastern Papua New Guinea, Fall AGU Meeting.
19. Reimer, P.J. 27 co-authors alphabetical; Taylor, F.W., 2009, Prospects for an extension and update of the IntCal04, Marine04, and SHCal04 radiocarbon calibration curves, EGU meeting abst., Vienna, Austria, April 2009.
20. Partin, J.W., Banner, J., Jenson, J.W., Taylor, F.W., Quinn, T.M., Sinclair, D., and Cardenas, M.B., 2009, Reconstructing paleo-rainfall in the western tropical Pacific: Developing speleothem proxies, Fifteenth International Congress of Speleology Kerrville, Texas USA, July 19-26.
21. C. R. Maupin\*; F. W. Taylor, 2009, Potential for the slow growing coral *Diploastrea heliophora* to yield multi-century Western Pacific Warm Pool climate records Fall AGU Meeting.
22. Briggs, R., Sieh, K., Taylor, F.W., Meltzner, A.J., Galetzka, J., Hsu, Y.J., Konca, O., Chlieh, M., Sladen, A., Natawidjaja, D., and Suwargadi, B., 2009, Megathrust rupture behavior from corals; Asia Oceania Geosciences Society (AOGS) meeting Abst., Aug. 2009, Singapore.
23. Delong, K., Quinn, T., Taylor, F.W., Lin, K., and Shen, C.-C., 2008, Inter-decadal to multi-decadal sea surface temperature variability in the southwest tropical Pacific since AD 1648, AGU Abst., Fall Meeting.
24. Dunn, E., Quinn, T., Taylor, F.W., Austin, J.A., Cabioch, G., Pelletier, B., and Maes, C., 2008, Coral-based climate reconstructions from a massive *Porites* coral from Sabine Bank (Vanuatu), AGU Abst., Fall Meeting.
25. Hereid, K., Quinn, T., Taylor, F.W., 2008, Sea Surface Temperature from the Western Pacific Warm Pool (Misima Island, Papua New Guinea) using the Geochemistry of Modern and Pre-industrial Corals, AGU Abst., Fall Meeting.
26. Hornbach, M., Frohlich, C., Taylor, F.W., 2008, Unraveling the Source of Large Erratic Boulders on Tonga: Implications for Geohazards and Mega-Tsunamis, GSA Abst., Houston, TX.
27. Bevis, M., Smalley, R., Kendrick, E., Dalziel, I.W.W., Caccamise, D., Taylor, F.W., Willis, E., Zhou, H., Brown, A., Konfal, S., Wilson, T., Raleigh, D., and Nysten, T., 2008, Geodetic estimates of the vertical crustal velocity field in Antarctica, AGU Abst, Fall Meeting.
28. **INVITED:** Taylor, F.W., Lavier, L., Frohlich, C., Cabioch, G., Gallup, C., Carlson, T., and Freiburger, N., 2008, Abrupt Cessation of Subsidence and Initiation of Uplift on the Western Solomons and Central New Hebrides Forearcs: Possible Tectonic Mechanisms, GSA Abst., Houston, TX.
29. **INVITED:** Taylor, F.W., Frohlich, C., and Hornback, M., 2008, Paleoseismology as a Basis for Assessing the Potential for Single and Multi-Segment Megathrust Ruptures in Southwest Pacific Arc Systems, AGU Abst., W Pacific Geophysics Meeting, Cairns, Australia, July 30, 2008.
30. **INVITED:** Taylor, F.W., Frohlich, C., Hornbach, M., Shen, C., and Moala, A., 2008, Giant Boulders Cast Ashore on Tongatapu Island: Evidence of a Great Tsunami or a Gigantic Typhoon? AGU Abst., W Pacific Geophysics Meeting, Cairns, Australia, July 31, 2008.

31. Sinclair, D.J., Banner, J.L., Taylor, F.W., Jenson, J.W., and Mylroie, J.E., 2008, Deglacial climate dynamics in the western Pacific Ocean measured in a stalagmite from Guam, Abst., Goldschmidt Conference, July 13-18, Vancouver, Canada.
32. Dalziel, I.W.W., Smalley, R., Kendrick, E., Bevis, M.G., Taylor, F.W., and Caccamise, D., 2008, Mass change in the West Antarctic Ice Sheet? Measuring the Critical Post-glacial Rebound Correction, Abst., July 2008 SCAR Conference, St. Petersburg, Russia.
33. DeLong, K., Quinn, T., and Taylor, F., 2008, Reconstructing Sea Surface Temperature Variability in the Southwest Pacific: A Replication Study Using Multiple Coral Sr/Ca Records From New Caledonia, Abst., 11th International Coral Reef Symposium, 7-11 July 2008, Fort Lauderdale, FL, USA.
34. Cabioch, G., Montaggioni, L., and Taylor, F.W., 2008, Reef growth during the last deglacial sea level rise in New Caledonia and Vanuatu (South-West Pacific),
35. Frohlich, C., Hornbach, M., Taylor, F.W., Shen, C.-C., Moala, A., and Morton, A.E., 2008, Huge Erratic Boulders in Tonga Deposited by a Prehistoric Tsunami, AGU Abst., Fall Meeting, San Francisco
36. Reimer, P., and INTCAL Working Group, 2008, Extension and Update of the IntCal04 radiocarbon calibration/comparison back to 50 ka, Abst. 11th Accelerator Mass Spectrometry Conference, Rome, Italy.
37. Taylor, F.W., Briggs, R., Frohlich, C., Papabatu, A.K. Billy, D. Brown, A., Meltzner, A.J., 2007, Comparison of Holocene With Coseismic Vertical Deformation Accompanying the Great 1 April 2007 Solomon Islands Megathrust Rupture., *AGU Abst., EOS*
38. Briggs, R., Taylor, F.W., Frohlich, C., Papabatu, A.K. Billy, D. Brown, A., Meltzner, A.J., 2007, Coseismic vertical deformation accompanying the great 2007 Solomon Islands megathrust rupture, *AGU Abst., EOS*
39. Burr, G.S., Taylor, F.W., Quinn, T., and Carey, A., 2007, Reconstructing radiocarbon variations in the Bismark Sea for the last 50 years, *AGU Abst., EOS*
40. Shen, C.-C., Li, K.-S., Sieh, K., Natawidjaja, D., Cheng, H., Wang, X., Edwards, R.L., Lam, D.D., Hsieh, Y.-T., Fan, T.-Y., Melzner, A., Taylor, F.W., Quinn, T.M., Chiang, H.-W., Kilbourne, K.H., 2007, Variation of initial Th-230/Th-232 and limits of high precision U-Th dating of shallow-water corals, *AGU Abst., EOS*
41. Smalley, R., Dalziel, I.W., Bevis, M.G., Kendrick, E., Stamps, D.S., Taylor, F.W., 2007, Scotia Arc Kinematics From GPS Geodesy, *AGU Abst., EOS*
42. Cabioch, G., Montaggioni, L., and Taylor, F.W., 2007, Reef growth during the last deglacial sea level rise in the South-West Pacific in New Caledonia and Vanuatu, 1st International Workshop on the COREF Project, Japan.

#### **EQUIPMENT DEVELOPMENT:**

**Hydraulic core drilling system** for coring living corals underwater funded by NSF Tectonics. Prototype built by Texas Process Equipment, Houston, TX. Eddie Wheeler of TECH 2000, Georgetown, TX, made many improvements to the basic design of the drill head and the power unit and has built at least 25 units for use in at least seven countries.

**Water hydraulic drill system** that uses sea water as a hydraulic fluid instead of oil. This drill was designed for drilling live or fossil corals underwater in locations where spillage of even biodegradable hydraulic oil would be unacceptable. Funded by NOAA In use by WHOI, AIMS of James Cook Univ., and our own system.

**GPS Masts:** The Tech 2000 fixed-height GPS mast in use by numerous operations was developed in collaboration with Mike Bevis and Eddie Wheeler.

**M.S. THESIS:**

The Uplifted Reef Tracts of Barbados, West Indies: Detailed Mapping and Radiometric Dating of Selected Areas, Unpub. M. S. Thesis, Brown University, Providence, R. I., 226 p, 1974.

**PH.D. DISSERTATION:**

Quaternary tectonic and sea-level history, Tonga and Fiji, Southwest Pacific, Ph. D. Dissertation, Cornell University, Ithaca, N. Y., 355 p., 1978.

**THESIS ADVISORS:**

- M. S. Brown University: R.K. Matthews (chairman)
- Ph. D. Cornell University: A. L. Bloom (chairman), Bryan Isacks, Dan Karig, John Anderson

**POST-DOCTORAL FELLOW SPONSORED:**

- Daniel J. Sinclair 2005-2007

**GRADUATE STUDENT COMMITTEES:** Total number =7

- Clinton D. Cagle: UT MS Thesis: Seismic stratigraphy of the central Tongan arc
- Jeffrey Chen: UT M S Thesis: Quaternary Crustal Motions of Tanna Island and the Yenkahe Horst area near Yasour Volcano from Uplifted Coral Reefs
- D. Kuang: UT Ph.D. Diss.; GPS results from the Tonga-Fiji area
- David A. Phillips - Univ. of Hawaii Ph.D. Diss. GPS measurements of subduction deformation at the New Hebrides and Solomons Arcs
- Pat Mickler – UT-Ph.D. Diss., Speleothem Chemistry,
- Ming-Chu Chen – UT-M.S Thesis: Forearc Segmentation of the Solomon Islands Arc
- Elizabeth Dunn – UT-M.S. Thesis Committee: Coral Climate Record, Sabine Bank.
- Kelly Hereid –Coral paleoenvironmental records from the past two millennia at Espiritu Santo Island, Vanuatu

**UNDERGRADUATE MENTORING**

- Peter Abel: 2000-2001. Peter worked on coral climate data and participated in fieldwork in the Solomon Islands as an authentic research experience in 2001.
- Brandon Johnson: 2004-2006. Brandon completed a research project course for credit with Jay Banner. I supervised his research which he completed in August 2006: Title: Fidelity of oxygen isotope data from an Efate Island, Vanuatu, coral as a proxy for recorded sea surface temperature

**SCIENTISTS WITH WHOM THERE HAS BEEN A LONG-TERM ASSOCIATION OR COLLABORATION ON PROJECT OR PAPER WITHIN THE LAST 48 MONTHS:**

**Scientists: Long-Term Collaboration Or Project Or Paper Within The Last 48 Months:**

**Scientists: Long-Term Collaboration On Project Or Paper Within The Last 48 Months:**

J Austin UT Austin	I. W. Dalziel UTIG	K. Hudnut USGS	D. Raleigh OSU
J Banner UT DGS	M Davis U Texas	Pfedy Jean..Mines Haiti	K Ryan-Mishkin Queens
W. Beck U. AZ	K DeLong LSU	J. Jenson Univ. Guam	I Sasgen OSU
M Bevis OSU	J Diebold LDEO	H Johnson U Mo.	R. Scott-Univ. of Brest

S Bowen Unknown	N Dieudonne .Haiti	E. Kendrick OSU	L Seeber LDEO
N Braudy Queens Col.	Doug Donahue. U Az	H Kilbourne McDanl. C	C_S Shen N. Taiwan U
R Briggs USGS	R Douilly U. Etat Haiti	Jens Kruger SOPAC	K Sieh E.O.Singapore
A. Brown OSU	RL Edwards U Minn.	P Mann UTIG	M. Simons CalTech
G S Burr U Az	E Fielding,. JPL	C McHugh Queens Coll.	D Sinclair .Rutgers
G Cabioch IRD France	C Frohlich UTIG	A. Meltzner CalTech	A Sladen CalTech
S Calmant IRD France	C Gallup U Minn.	J. Mylroie Miss. State	R. Smalley U. Memphis
M.C. Chen-Georgia Tch	R Gold USGS	D Natawidjaja Indonesia	C Sorlien UC S Barbara
Y.G.Chen N.Taiwan U	T Guilderson Livermore	J. Partin UTIG	M Steckler LDEO
H Cheng, H. U Minn	S Gulick UTIG	B Pelletier IRD France	S Symithe - Haiti
M-H Cormier U Mo.	Gavin Hays USGS	D Phillips UNAVCO	J Templeton LDEO
T. Correge France	M Hornbach UTIG	C Prentice USGS	A.Q. von Ufford -Pioneer
A. Crone. USGS		T Quinn UTIG	D Wiens Washtn U
T.Crowley, Edinburgh			M Willis OSU