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## EDUCATION

Ph.D. Geology and Geophysics, University of Hawai'i at Mānoa, 1998.

*Dissertation: The rifting of continental and oceanic lithosphere: Observations from the Woodlark Basin. Advisor: Brian Taylor.*

M.S. Geophysics, University of Alaska Fairbanks, 1993.

*Thesis: A Gravity and Magnetic survey in the vicinity of Novarupta, Katmai National Park, Alaska. Advisor: David Stone.*

B.Sc. (hons.) Applied Geology with Physics (first class), Polytechnic South West, 1989.

*Thesis: Interpretation of a high resolution seismic survey in the Tamar estuary, Plymouth. Advisors: John Reynolds, Don Tarling.*

## PROFESSIONAL EXPERIENCE

### ACADEMIC

- Assistant Professor: Department of Geological Sciences, University of Alabama. Jan. 2004 – present.
- Graduate Program Director: Department of Geological Sciences, University of Alabama, Aug. 2005 – present.
- Assistant Researcher: Hawai'i Institute of Geophysics and Planetology, University of Hawai'i at Mānoa. May 2000 – Dec. 2003.
- Postdoctoral Researcher: Department of Geology and Geophysics, University of Hawai'i at Mānoa. Mar. 1998 - April 2000.
- Research Assistant: University of Hawai'i at Mānoa. Jan. 1993 - Dec. 1994; June 1995 - Dec. 1997.
- Research Assistant: University of Alaska Fairbanks. Sept. 1989 - Dec. 1992.

### INDUSTRY

- Geophysicist Intern: Mobil Research and Development Corp., Dallas, TX. May 1992 - Aug. 1992.
- Geophysicist Intern: Mobil Exploration and Producing US. Inc., Bakersfield, CA. May 1991 - Aug. 1991.
- Technician: Southern Testing Laboratories, East Grinstead, UK. 1987-1989.

### FIELD

- Co-chief scientist: Marine geophysical survey of the eastern Woodlark Basin, Solomon Islands. 21 Oct. – 9 Nov., 2004, R/V *Kilo Moana*.
- Co-chief scientist: Multi-scale seismic imaging of the Mariana subduction factory. 1 –26 Apr., 2002, R/V *Maurice Ewing*.
- Co-chief scientist: Multi-scale seismic imaging of the Mariana subduction factory. 24 Feb.–26 Mar., 2002, R/V *Maurice Ewing*.
- Co-chief scientist: A seismic investigation of contrasting rifting styles in the Exmouth and Cuvier margins, N.W. Australia. 27 Oct.–02 Dec., 2001, R/V *Maurice Ewing*.
- Scientist: Escape from Djibouti. A study of the rifting history in the Gulf of Aden was intended, but was cancelled due to the events of 9/11. Sept. 2001. Instead transited from Djibouti to the Seychelles (13-20 Sept., 2001). R/V *Maurice Ewing*.
- Co-chief scientist: Deep seismic imaging of active continental extension in the Gulf of Corinth, Greece. 23 Jul. – 01 Aug., 2001, R/V *Maurice Ewing*.
- Co-chief scientist: A geothermal investigation of continental rifting in the Woodlark Basin, Papua New Guinea. Sept.-Oct. 1999 R/V *Maurice Ewing*.
- Scientist: OBS Deployment, Woodlark Basin, Papua New Guinea. Aug - Sept. 1999, R/V *Maurice Ewing*.
- +
- ODP Leg 180: Active continental extension in the western Woodlark Basin, Papua New Guinea. June-Aug. 1998, D/S *JOIDES Resolution*.
- Scientist: Marine geophysical survey of the Lau Basin, Tonga, Fiji. Mar.-Apr. 1996, R/V *Moana Wave*.

- SOPAC advisor: Seafloor mineral survey, Lau Basin, Tonga. Sept. - Oct., 1995, R/V *Hakurei Maru #2*.
- Scientist: ODP site survey, Woodlark Basin, Papua New Guinea. Oct.-Nov. 1995, R/V *Maurice Ewing*.
- SOPAC advisor: Seafloor mineral survey, Woodlark Basin, Solomon Islands. Oct-Nov. 1993, R/V *Hakurei Maru #2*.
- Scientist: Marine geophysical survey of the Woodlark Basin, Papua New Guinea. Mar. - Apr. 1993, R/V *Moana Wave*.
- Scientist: Sparker and boomer survey of buried rock channels in the Hamoaze, Plymouth, UK. Sept. 1988, R/V *Catfish*.
- Maintenance and Installation of Seismic Networks, Hawai'i and Alaska.
- Crew Chief: Potential Field Survey, Katmai National Park, Alaska; Summer 1990.
- Crew Chief: GPS survey on Augustine Island, Alaska; Summer 1990.
- Geophysicist: Searching for the Levanevsky Aircraft, Beaufort Sea, Alaska; Winter 1990 (see "Chasing Ghosts: a cooperative American soviet search to recover lost aviation history", by Walter Kurilchyk, for more information).
- Engineering Geologist, 1987-1989.

### **TEACHING**

- GEO101 Introduction to geology, spring 2005, summer 2005, fall 2005, summer 2006, fall 2006.
- GEO369 Introduction to geophysics, fall 2004, fall 2005, fall 2006.
- GEO534 Tectonics seminar (co-taught), fall 2004-fall 2006.
- GEO525 Computational methods in the geosciences, spring 2006
- GEO545 Multi-channel seismic processing, spring 2004.
- GG711 Introductory geology for graduate students – gravity and isostasy, Fall 1999
- GG101 Dynamic Earth Lab, spring 1995.
- Guest lecturer in various classes (marine geology, geophysics, GMT)
- Academic committee chair for four UA graduate students, member for nine others.
- Mentoring other undergraduate and graduate students at Stanford University, University of Patras, University of Madrid, and Lamont-Doherty Earth Observatory.

### **SPECIAL INTERESTS**

- The use of interactive lecturing techniques in a large classroom setting.
- The use of computational and visualization techniques to demonstrate and solve problems in the classroom.
- The use of geophysical techniques to solve tectonic problems.
- Rifting and the transition to seafloor spreading in continental and back-arc environments.
- Spreading center reorientation.
- Evolution of young ocean basins.
- Reconstructions of ocean basin evolution.
- The evolution of the Hawaiian Islands.

### **SKILLS**

- Marine multi-channel seismic data acquisition, processing, and interpretation.
- Data manipulation and imaging using GMT, UNIX, FORTRAN, and C-shell utilities.
- Acquisition, processing, and interpretation of swath bathymetry and acoustic imagery.
- Acquisition, processing, and interpretation of gravity and magnetic data from marine, aerial, terrestrial, and ice-sheet surveys.
- Acquisition, processing, and interpretation of heat-flow data.
- Analysis of rock physical property data.
- Soil plasticity and strength testing, both laboratory and on-site.
- Development of kriging and conditional simulation algorithms.
- Certified in Arctic survival techniques.

### **SYNERGISTIC ACTIVITIES**

#### **PROFESSIONAL MEMBERSHIPS**

- American Geophysical Union.
- Society of Exploration Geophysicists.

### **COLLABORATORS WITHIN LAST 48 MONTHS**

- University of Hawai‘i - Brian Taylor, Gregory Moore, Patricia Fryer, Fernando Martinez, Rob Dunn.
- University of Alaska - Jennifer Reynolds, Jeff Freymueller.
- Stanford University - Simon Klemperer, David Scholl.
- Scripps Institute of Oceanography – Neal Driscoll
- Columbia University - Garry Karner, James Cochran.
- Landmark Graphics - Barrie Taylor.
- Woods Hole/USGS - Uri ten Brink.
- Washington University - Doug Wiens.

### **MEETINGS/SESSIONS ORGANIZED**

- Chaired "Rift to Drift: Evolution of Continental Margins" session at fall 2000 AGU.
- Lead convener and chair for "The Initiation and Early Evolution of Young Ocean Basins" session at fall 2001 AGU.
- Chair of "The Ocean-Continent Transition at Rifted Continental Margins: What Is It, How Is It Formed, and How Do We Locate It?" session at spring 2005 AGU.

### **MEETINGS ATTENDED (OTHER THAN AGU)**

- IODP-InterMARGINS Workshop Investigating Continental Breakup and Sedimentary Basin Formation, 15-18 September, 2006, Pontresina, Switzerland.
- 3D Seismic Reflection Imaging Workshop, 8-10 September, 2005, Palisades, NY.
- NAGT Early Career Geoscience Faculty workshop, 12-17 June, 2004, Williamsburg, VA.
- MARGINS/NSF Meeting at NRIAG, 18-24 March, 2004, Cairo, Egypt.
- Kingdom Suite workshop, 16 February, 2004, Englewood, MS.
- EGS/AGU Joint meeting, 7-11 April, 2003, Nice, France.
- R/V *Maurice Ewing* re-fit workshop, 22-23 October, 2002, Englewood, NJ.
- MARGINS Mariana Subduction Factory workshop, 8-12 September, 2002, Honolulu, HI.
- MARGINS Rupturing of Continental Lithosphere in the Red Sea/Gulf of Suez workshop, 17-23 April, 2001, Sharm-el-Sheikh, Sinai, Egypt.
- MARGINS Gulf of California/Salton Trough Workshop, 27-29 October, 2000, Puerto Vallarta, Mexico. Presented a poster on heatflow results from the Woodlark Basin.
- MARGINS Theoretical and Experiment Institute: Inside the Subduction Factory, 20-25 August, 2000, Eugene, OR. Attended short-course and met with co-pi's about Mariana Subduction Factory project.
- ODP Leg 180 2nd post-cruise meeting, 23-29 April, 2000, Izmir, Turkey. Participated in round table discussions of leg results, gave informal presentations and multiple poster presentations.
- MARGINS Theoretical Earth Institute: Rheolgy and Deformation of Lithosphere at Continental Margins, 23-26 January, 2000, Snowbird, UT. Participated in short-course and attended workshop. Presented a short talk and multiple posters.

### **SCHOLARSHIPS AND AWARDS RECEIVED**

- Society of Exploration Geophysicists Foundation (1994-1996).
- Honorable mention in the Outstanding Student Paper evaluation, AGU Fall 1996 meeting.

### **UNIVERSITY SERVICE**

- Department of Geology & Geophysics, University of Hawai‘i at Moana, weekly seminar organizer (Sept. 1998 - 2001).
- President, Chair and/or treasurer of various committees while a student at the University of Hawai‘i at Mānoa.
- Chair and member of various departmental committees at the University of Alabama

### **OUTREACH**

- Participant in "The Earth Revealed" documentary about Katmai Volcano, Alaska.
- Volunteer in science education programs at Bishop Museum, Honolulu, HI.
- Science fair judge for the Hawaii Association of Independent Schools, Tuscaloosa Academy, and the McWane Center.
- Geology talk at Capitol School, Tuscaloosa, AL (3<sup>rd</sup> and 4<sup>th</sup> grade class).
- Television and newspaper interviews on numerous topics.

## PUBLICATIONS

### PAPERS

- Goodliffe, A. M. & Taylor, B. 2007. The boundary between continental rifting and seafloor spreading in the Woodlark Basin, Papua New Guinea. In: Karner, G. D. Manatschal, G. & Pinheiro, L. M. (eds) *Imaging, Mapping, Modelling Extensional Processes and Systems*. Geological Society, London, Special Publications, 282.
- Oakley, A.J., B. Taylor, P. Fryer, G.F. Moore, A.M. Goodliffe, and J.K. Morgan, Emplacement, Growth, and Gravitational Deformation of Serpentine Seamounts on the Mariana Forearc, submitted to *G-cubed*.
- Gunther, R.H., S.L. Klemperer, and A.M. Goodliffe, Modeling sideswipe in 2D oceanic seismic surveys from sonar data: application to the Mariana arc, *Tectonophysics*, 420, 333-343, 2006.
- Robb, M.S, B. Taylor, and A.M. Goodliffe, Re-examination of the magnetic lineations of the Gascoyne and Cuvier Abyssal Plains, off NW Australia, *Geophys. J. Int.*, 163, 42-55, 2005.
- Zelt, B.C., B. Taylor, J.R. Weiss, A.M. Goodliffe, M. Sachpazi, and A. Hirn, Streamer tomography velocity models for the Gulf of Corinth and Gulf of Itea, Greece, *Geophys. J. Int.*, 159, 333-346, 2004.
- Taylor, B and A.M. Goodliffe, The West Philippine Basin and the initiation of subduction, revisited, *Geophys. Res. Lett.*, 31, L12602, doi:10.1029/2004GL020136, 2004.
- Goodliffe, A.M., B. Taylor, and G.D. Karner, Correlations between seismic, logging, and core data at ODP Leg 180 sites in the western Woodlark Basin. In B. Taylor, P. Huchon, and A. Klaus, (Eds.), *Proc. ODP, Sci. Results, 180*, 2001.
- Floyd, J.S., J.C. Mutter, A.M. Goodliffe, and B. Taylor, Evidence for fault weakness and fluid flow within an active low-angle normal fault, *Nature*, 411, 779-783, 2001.
- Martinez, F., A.M. Goodliffe, and B. Taylor, Metamorphic core complex formation by density inversion and lower-crust extrusion, *Nature*, 411, 930-934, 2001.
- Zelt, B.C., B. Taylor, and A.M. Goodliffe, 3-D crustal velocity structure at the rift tip in the western Woodlark Basin, *Geophys. Res. Lett.*, 28 (15), 3015-3018, 2001.
- Takahashi, K., G. Cortese, G.M. Frost, S. Gerbaudo, A.M. Goodliffe, N. Ishikawa, K.S. Lackschewitz, R.C.B. Perembo, J.M. Resig, W.G. Siesser, B. Taylor, and M. Testa, Summary of revised age assignments for ODP Leg 180. In P. Huchon, B. Taylor, and A. Klaus, (Eds.), *Proc. ODP, Sci. Results, 180*, 2001.
- Wright, D.J., S.H. Bloomer, C.J. MacLeod, B. Taylor, and A.M. Goodliffe, Bathymetry of the Tonga Trench and forearc: a map series, *Mar. Geophys. Res.*, 21, 489-511, 2000.
- Goodliffe, A.M., B. Taylor, and F. Martinez, Data report: Marine geophysical surveys of the Woodlark Basin region. In B. Taylor, P. Huchon, A. Klaus, et al., *Proc. ODP, Init. Repts.*, 180, 1-20 [CD-ROM]. Available from: Ocean Drilling Program, Texas A&M University, College Station, TX 77845-9547, U.S.A, 1999.
- Taylor, B., A.M. Goodliffe, and F. Martinez, How continents break up: Insights from Papua New Guinea, *J. Geophys. Res.*, 104, 7497-7512, 1999.
- Martinez, F., B. Taylor, and A.M. Goodliffe, Contrasting styles of seafloor spreading in the Woodlark Basin: Indications of rift-induced secondary mantle convection, *J. Geophys. Res.*, 104, 12,909-12,926, 1999.
- Goodliffe, A.M., The Rifting of Continental and Oceanic Lithosphere: Observations from the Woodlark Basin, Ph.D. thesis, 190 pp., Univ. of Hawai'i at Mānoa, May 1998.
- Goodliffe, A.M., B. Taylor, F. Martinez, R.N. Hey, K. Maeda and K. Ohno, Synchronous reorientation of the Woodlark Basin spreading center, *Earth Planet. Sci. Lett.*, 146 233-242, 1997.
- Taylor, B., C. Mutter, A.M. Goodliffe and J. Fang, Active continental extension: The Woodlark Basin, *JOI/USSAC Newsletter*, 9, 1-4, 1996.
- Taylor, B., K. Zellmer, F. Martinez and A.M. Goodliffe, Sea-floor spreading in the Lau back-arc basin, *Earth Planet. Sci. Lett.*, 144 35-40, 1996.
- Taylor, B. A.M. Goodliffe, F. Martinez and R.N. Hey, Continental rifting and initial sea-floor spreading in the Woodlark basin, *Nature*, 374, 534-537, 1995.
- Goodliffe, A. M., A gravity and magnetic study in the vicinity of Novarupta, Katmai National Park, Alaska, M.S.thesis, 180 pp., Univ. of Alaska Fairbanks, 1993.
- Kienle, J., T.F. Redfield and A.M. Goodliffe, Gravity study of the Mt. Melbourne Quadrangle and the Lower Rennick Glacier in North Victoria Land, Antarctica, and the relation of the Rennick Graben structure to rifting processes in the Ross Sea, in *Recent Progress in Antarctic Science*, edited by Y. Yoshida et al., pp. 523-534, Terra Scientific Publishing Company, Tokyo, 1992.
- Goodliffe, A.M., D.B. Stone and J. Kienle, The vent of the 1912 Katmai eruption: Gravity and magnetic measurements, *Geophys. Res. Lett.*, 18 (8), 1521-1524, 1991.
- Eichelberger, J.C., S. Ballard, C.R. Carrigan, A.M. Goodliffe, et al. Geophysical Expedition to Novarupta Volcano, Katmai National Park, Alaska, *Tran. Am. Geophys. Union*, 71 (22), 733-735, 1990.

## ABSTRACTS

- Kington, J.D., A.M. Goodliffe, and P. Chapman, Rift mechanics in the Woodlark Basin, Papua New Guinea: brittle extension, total extension, subsidence, and crustal volume balances, submitted to the 2005 AGU meeting.
- Harris, W. and A.M. Goodliffe, The transition from continental rifting to seafloor spreading in the Woodlark Basin, submitted to the 2005 AGU meeting.
- Oakley, A.J., B. Taylor, E. Chapp, G.F. Moore, and A.M. Goodliffe, Imaging the subducting Pacific Plate beneath the Mariana Forearc, *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract T53A-1404, 2005
- Robinson, D. and A.M. Goodliffe, Utilizing the classroom performance system in large introductory geology classes, *Geological Society of America Abstracts with Programs*, 37(7), 263, 2005
- Taylor, B., A.M. Goodliffe, and F. Martinez, The margins of the eastern Woodlark Basin: the birth and death of an ocean basin, *Eos Trans. AGU*, 86(18), Jt. Assem. Suppl., Abstract T53A-11, 2005.
- Faerber, R.D., A.M. Goodliffe, B. Taylor, and S. Klemperer, Characterization of the rifting to spreading transition in the central Marianas Trough, *Eos Trans. AGU*, 86(18), Jt. Assem. Suppl., Abstract T53A-12, 2005.
- Oakley, A.J., B. Taylor, G.F. Moore, and P. Fryer, J. Morgan, and A.M. Goodliffe, Emplacement and Growth of Serpentine Seamounts on the Mariana Forearc, *Eos Trans. AGU*, 85(47), Fall Meet. Suppl., Abstract T41D-1248, 2004.
- Gunther, R.H., S.L. Levin, B. Taylor, S.L. Klemperer, A.M. Goodliffe, A.J. Oakley, and B. Taylor, Adapting Industry Multiple Attenuation Techniques to Crustal-Scale Marine Seismic Surveys, *AGU*, 85(47), Fall Meet. Suppl., Abstract S33A-1093, 2004.
- Taylor, B., A.M. Goodliffe, and F. Martinez, The rifting-to-spreading transition in the Woodlark Basin, *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract T11E-02, 2003.
- Tischer, M., U. Ten Brink, G.D. Karner, A.M. Goodliffe, M.S. Robb, B. Taylor, N. Driscoll, and D. Ryan, Insights into along-strike passive continental margin variability from seismic reflection, refraction and gravity data, Northwest Australia, *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract T51F-0218, 2003.
- Martinez, F., B. Taylor, and A.M. Goodliffe, Geomorphology of the East Lau Spreading Center, *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract B12A-0729, 2003.
- Taylor, B., A.M. Goodliffe, and F. Martinez, The Rifting-to-Spreading Transition in the Woodlark Basin, *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract T11E-02, 2003.
- Tischer, M., U. Ten Brink, G.D. Karner, A.M. Goodliffe, M. Robb, B. Taylor, N. Driscoll, D. Ryan, Insights into along-strike passive continental margin variability from seismic reflection, refraction and gravity data, Northwest Australia, *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract T51F-0218, 2003.
- Goodliffe, A.M., J.R. Weiss, B. Taylor, M. Sachpazi, A. Hirn, A. Stefatos, and M. Laigle, Variations in the distribution and control of syn-rift deformation in the Gulf of Corinth, Greece, *Geophysical Research Abstracts*, 5, 04697, 2003.
- Taylor, B., A.M. Goodliffe, J. Weiss, M. Sachpazi, A. Hirn, M. Laigle, and A. Stefatos, Detachment tectonics in the Gulf of Corinth rift, *Geophysical Research Abstracts*, 5, 07222, 2003.
- Weiss, J.R., B. Taylor, A.M. Goodliffe, A. Hirn, M. Sachpazi, M. Laigle, A. Stefatos, Fault-controlled sedimentation in the Gulf of Corinth, Greece, *Geophysical Research Abstracts*, 5, 07036, 2003.
- Martinez, F. and A.M. Goodliffe, Heat Flow and Conjugate Margin Development in the Woodlark Basin, *Geophysical Research Abstracts*, 5, 04801, 2003.
- Goodliffe, A.M., B. Taylor, F. Martinez, The Evolution of the Lau Basin: A New Perspective, *Eos Trans. AGU*, 83 (47) Fall Meet. Suppl., Abstract T12B-1310, 2002.
- Sugimoto, M., A.M. Goodliffe, B. Taylor, N. Driscoll, F. Sutherland, G.D. Karner, M. Tischer, J. Diebold, U. ten Brink, D. Ryan, New Seismic Reflection Images of the Continent-Ocean Transition across the Exmouth and Cuvier Margins, off Northwestern Australia, *Eos Trans. AGU*, 83 (47) Fall Meet. Suppl., Abstract T52C-1222, 2002.
- Tischer, M., U. ten Brink, G. Karner, A.M. Goodliffe, M. Sugimoto, B. Taylor, N. Driscoll, F. Sutherland, J. Babcock, C. Hollinshead, D. Ryan., Crustal Structure of the Continent-Ocean Boundary Zone Using Seismic Refraction and Reflection Data, Exmouth Plateau, Northwest Australia *Eos Trans. AGU*, 83 (47) Fall Meet. Suppl., Abstract T52C-1220, 2002.
- Taylor, B., A.M. Goodliffe, G.F. Moore, A.J. Oakley, P. Fryer, EW0202 Scientific Party, Multi-Channel Seismic Images of the Mariana Trough: EW0202 Initial Results, *Eos Trans. AGU*, 83 (47) Fall Meet. Suppl., Abstract T72A-1228, 2002.
- Oakley, A.J., A.M. Goodliffe, B. Taylor, G.F. Moore, P. Fryer, EW0202 Scientific Party, Multi-Channel Seismic Images of the Mariana Forearc: EW0202 Initial Results, *Eos Trans. AGU*, 83 (47) Fall Meet. Suppl., Abstract T72A-1229, 2002.
- Tidwell, T., S.L. Klemperer, B.C. Kerr, A.M. Goodliffe, EW0203 Shipboard Scientific Party, Low-fold, ultra-deep MCS Profiling of the Mariana Arc, *Eos Trans. AGU*, 83 (47) Fall Meet. Suppl., Abstract T72A-1225, 2002.

- Gunther, R.H., S.L. Klemperer, A.M. Goodliffe, B.C. Kerr, EW0203 Shipboard Scientific Party, Effect of Seafloor Topography on MCS Reflection Images and OBS Locations in the Mariana Subduction Factory Seismic Experiment, *Eos Trans. AGU*, 83 (47) Fall Meet. Suppl., Abstract T72A-1226, 2002.
- Taylor, B., A.M. Goodliffe, M. Sachpazi, A. Hirn, and the EW0108 Science Party, First Results from EW0108 Marine Seismic Survey of the Gulf of Corinth, *Eos Trans. AGU*, 82 (47), 1253, 2001.
- Weiss, J., B. Taylor, A.M. Goodliffe, M. Sachpazi, A. Hirn, M. Laigle, A. Rudge, A. Stefatos, M. Sugimoto, B. Zelt, A New Look at the Structure and Stratigraphy of the Gulf of Corinth, *Eos Trans. AGU*, 82 (47), 1253, 2001.
- Martinez, F., B. Taylor, and A.M. Goodliffe, Morphology and gravity variations along Lau Basin spreading centers indicate mantle wedge control on backarc crustal accretion *Eos Trans. AGU*, 82 (47), 1253, 2001.
- Goodliffe, A.M., F. Martinez, B. Taylor, T.J. Lewis, A.E. Taylor, and E.J. Screaton, The Geothermal Signature of Continental Breakup: Results from the Woodlark Basin, *Eos Trans. AGU*, 81 (48), 1114, 2000.
- Martinez, F., A.M. Goodliffe, B. Taylor, T.J. Lewis, and A.E. Taylor, Geothermal Study of Continental Rifting in the Woodlark Basin, *Eos Trans. AGU*, 81 (48), 1114, 2000.
- Zelt, B., B. Taylor, A.M. Goodliffe, J. Mutter, A. Lerner-Lam, J. Floyd, G. Abers, A. Ferris, M. Craig, H. Davies, and R. Perembo, 3-D Velocity Structure in the Western Woodlark Basin From Traveltime Tomography, *Eos Trans. AGU*, 81 (48), 880, 2000.
- Floyd, J.S., J.C. Mutter, A.M. Goodliffe, and B. Taylor, Evidence for fault weakness and hydrothermal fluid flow in a low-angle normal fault in the western Woodlark Basin, *Eos Trans. AGU*, 81 (19), 413, 2000.
- Goodliffe, A.M., F. Martinez, and B. Taylor, A reconstruction of the margins of the Woodlark Basin: Predictions of pre-rifting continental thickness, *Eos Trans. AGU*, 80 (46), 1064, 1999.
- Goodliffe, A.M., B. Taylor, J.S. Floyd and G.D. Karner, Coring, logging and seismic stratigraphy of the Woodlark Rise: Initial results from ODP leg 180, *Eos Trans. AGU*, 79 (45), 907, 1998.
- Zellmer, K., B. Taylor, F. Martinez, and A.M. Goodliffe, Complexities in the seafloor spreading history of the Lau Basin, *Eos Trans. AGU*, 79 (45), 908, 1998.
- Goodliffe, A.M., B. Taylor and F. Martinez, A reconstruction of the Woodlark Basin spreading history, *Eos Trans. AGU*, 77 (46), 706, 1996.
- Taylor, B., F. Martinez and A.M. Goodliffe, An extensional transform zone in the Lau Basin, *Eos Trans. AGU*, 77 (46), 706, 1996.
- Martinez, F., B. Taylor and A.M. Goodliffe, Variations in bathymetry and gravity between the eastern and western Woodlark Basin: Indications of a rift-induced thermal anomaly, *Eos Trans. AGU*, 77 (46), 706, 1996.
- Taylor, B., K. Zellmer, F. Martinez, and A.M. Goodliffe, Tectonic evolution of the Lau Basin, *Eos Trans. AGU*, 76 (46), 595, 1995.
- Goodliffe, A.M., B. Taylor, F. Martinez and R.N. Hey, Near instantaneous spreading center reorientation in the Woodlark Basin, *Eos Trans. AGU*, 76 (46), 595, 1995.
- Goodliffe, A.M., B. Taylor, F. Martinez and R.N. Hey, The western Woodlark Basin, Evolution of a new ocean basin, *Eos Trans. AGU*, 75 (44), 604, 1994.
- Taylor, B., A.M. Goodliffe, R.N. Hey and F. Martinez, HAWAII MR1 survey of the W. Woodlark Basin: Continental rifting and seafloor spreading, *SOPAC Misc. Rep.*, 184, 66, 1994.
- Goodliffe, A.M., B. Taylor, R.N. Hey and F. Martinez, Seismic images of continental breakup in the Woodlark Basin, Papua New Guinea, *Eos Trans. AGU*, 74 (43), 606, 1993.
- Taylor, B., F. Martinez, R.N. Hey and A.M. Goodliffe, A new view of continental rifting and initial seafloor spreading: The Woodlark Basin, PNG, *Eos Trans. AGU*, 74 (43), 606, 1993.
- Saltus, R.W., D.B. Stone, J. Kienle and A.M. Goodliffe, New gravity data at Katmai National Park, Alaska, suggest a magma body anomalous to that at the Geysers-Clear Lake region, California, *Eos Trans. AGU*, 72 (44), 429, 1991.
- Goodliffe, A.M., D.B. Stone and J. Kienle, Constraints from gravity and magnetic measurements on the caldera and vent geometry around Novarupta, Alaska, *Eos Trans. AGU*, 71 (43), 1693, 1990.
- Goodliffe, A.M., D.B. Stone and J. Kienle, Gravity and Magnetic Data From the Vicinity of Novarupta, Valley of Ten Thousand Smokes Katmai, Alaska, *Eos Trans. AGU*, 71 (17), 647, 1990.

## REPORTS

- Goodliffe, A.M. and the EW0202/3 Scientific Party, Multi-Scale Seismic Imaging of the Mariana Subduction Factory – cruise report. Available online at <http://www.geo.ua.edu/MARIANA>.
- Goodliffe, A.M. and the EW0113 Scientific Party, Geophysical investigation of the Exmouth and Cuvier margins, NW Australia – preliminary cruise report. Available online at <http://www.geo.ua.edu/EXMOUTH>.