

# Susan A. Cochran

3020 Santa Fe Ct.  
Santa Cruz, CA 95062  
Home Phone: 831-476-7225  
Email: susie@scubasue.com

---

## OBJECTIVE

Seeking a career-oriented position within a company that emphasizes marine science research, environmental monitoring and public awareness, and offering the opportunity to advance to a project leader or supervisory position that requires the ability to deal with people.

## EDUCATION

1996-1999

M.Sc. Ocean Sciences, University of California Santa Cruz

Emphasis on using hyperspectral remote sensing techniques to detect stress and monitor coastal ecosystems. Courses included Physics of the Atmosphere and Ocean, Biological Oceanography, Marine Geology, Seminar on cladistical classification of species, Environmental GIS, GIS for the Geosciences, and Independent Study with an emphasis on remote sensing techniques.

1992-1996

B.Sc. Geology, Baylor University (Waco, TX), summa cum laude

Emphasis on modern coral reef studies in Jamaica. Courses included Biology and Geology of Ancient and Modern Coral Reefs, Modern Clastic Depositional Environments, Mineralogy, Petrology, Structural Geology, Stratigraphical and Sedimentary Geology, Geophysics and Remote Sensing.

1991-1992

Austin Community College (Austin, TX)

Coursework included general core studies.

1979-1980

North Harris County College (Houston, TX)

Coursework included general clerical studies.

## SHORT COURSES AND WORKSHOPS

March 2004

*Introduction to ArcGIS 8 Part 1*, U.S. Geological Survey, Menlo Park CA

December 2003

*Interactive Visualization Systems' West Coast Fledermaus Software Suite Training Workshop*, California State University Monterey Bay

March 2002

*Introduction to ArcView GIS*, USGS Pacific Science Center, University of California, Santa Cruz

June 1998

*Hyperspectral Imaging and Data Analysis using ENVI*, Center for the Study of Earth from Space (CSES) at University of Colorado in Boulder

## EMPLOYMENT

1998-present

*Geologist, U.S. Geological Survey (Santa Cruz, CA)*

Team member with the USGS Coral Reef Initiative, specifically focusing on research and monitoring of coral reefs in Hawai'i. Duties include computer analysis of data, benthic habitat mapping, computer graphics for presentations, writing and editing manuscripts, and web page creation. Fieldwork includes planning and implementing survey campaigns in the islands.

## **Cochran p. 2**

### **EMPLOYMENT, cont.**

- 1997-1999 *Graduate Research Assistant, University of California Santa Cruz*  
Team member for a hyperspectral imaging project focusing on using plant stress as a bio-indicator for geothermal activity. Duties included computer analysis of hyperspectral imagery and computer analysis of spectral reflectance data. Fieldwork included collection of data using a GER portable spectroradiometer, planning and implementing airborne data collection campaign, and extensive groundtruthing.
- 1997-1998 *Student Teaching Assistant Coordinator, University of California Santa Cruz*  
Duties in the Ocean Science Department include supervising, training and acting as a liaison for departmental teaching assistants.
- fall 1997 *Contractor, U.S. Geological Survey (Menlo Park, CA)*  
Assisted in the Micropaleontology Lab picking foraminifera samples, preparing slides and identifying organisms.
- 1996-1997 *Teaching Assistant, University of California Santa Cruz*  
Duties in the Ocean Science Department include teaching lab sections, grading exams and papers, and tutoring students. Classes assisted include: The Oceans; Earth: A Habitable Planet; and, The Fossil Record.
- summer 1996 *Geologist, U.S. Geological Survey (St. Petersburg, FL)*  
As a summer intern, placed through the National Association of Geology Teachers, was involved in coastal and offshore studies along the Gulf of Mexico coastline and up the East Coast to S. Carolina. Duties included digitizing seismic data and core samples, computer graphics, and lab analysis of sediment samples. Field work included collection of seismic and sonar data offshore of SC, and collection and processing of sediment and water samples from Florida Bay.
- 1980-1992 *Department Manager-Office, Payless Cashways Inc./Furrow Building Materials (Houston and Austin, Texas)*  
Began as a part-time cashier after school. As a full-time employee, worked my way up through various promotions and stores. As Department Manager-Office for many years, was responsible for inventory accounting and control, supervising a staff of up to five people, setting up a new store office, and coaching several district-wide training sessions.
- 1978-1980 *Cloth World, Inc. (Houston, Texas)*  
Full-time duties included cashier, customer service and inventory control (purchasing and receiving).

### **AWARDS AND HONORS RECEIVED**

- 2003 Shoemaker Award for Communication Product Excellence – Print Category, issued by the U.S. Geological Survey
- Seaspaceship Scholarship Winner, June 1998, issued by the Seaspaceship Scholarship Committee, Houston Underwater Club
- Marilyn C. Davis Memorial Award Winner, May 1997, issued by the University of California Santa Cruz ReEntry Services Program
- Lerner-Gray Fund for Marine Science Grant Winner, May 1997, issued by the American Museum of Natural History
- R.T. Hill Award for Outstanding Senior, May 1996, issued by the Baylor University Department of Geology
- Outstanding Senior Woman Award, May 1996, issued by the Mortar Board Society, Baylor University
- First Place Student Poster Session, March 1996, Geological Society of America, South-Central Section Meeting (award shared with co-author)

**AWARDS AND HONORS RECEIVED, cont.**

- Seaspaceship Scholarship Winner, June 1995, issued by the Seaspaceship Scholarship Committee, Houston Underwater Club
- Dean's List, Fall 1994, Baylor University
- Top 100 Freshman Award, 1993, issued by the Mortar Board Society, Baylor University
- Dean's List, Spring 1980, North Harris County College

**PROFESSIONAL ORGANIZATIONS**

- American Association of Petroleum Geologists; 1993-1996
- American Geophysical Union; member since 2007
- American Shore and Beach Preservation Association; member since 2000
- Baylor Geological Society, Baylor University; 1992-1996
- Gamma Beta Phi National Honor Society, Baylor University; 1993-1996
- Geological Society of America; member since 1994
- Golden Key National Honor Society, Baylor University; member since 1995
- Pacon International; member since 2000
- Phi Beta Kappa, Baylor University; inducted May 1996
- Sigma Gamma Epsilon National Honor Society for the Earth Sciences, Zeta Pi Chapter, Baylor University; Secretary/Treasurer 1995-1996, Treasurer 1994-1995; member 1993-1996

**PUBLICATIONS**

- **Cochran, S.A.**, submitted, Chapter 2 – Aerial photography application; *in* Coral Reef Remote Sensing; A Guide for Mapping, Monitoring and Management: Springer Press.
- Gibbs, A.E., and **Cochran, S.A.**, 2011, Seafloor morphology and coral habitat variability in a volcanic environment; Kaloko-Honokohau National Park, Hawaii, USA, in Harris, P.T., and Baker, E.K., eds., Seafloor geomorphology as a benthic habitat; GeoHab atlas of seafloor geomorphic features and benthic habitats, Elsevier [Elsevier Insights e-book series], p. 409-423.
- Stock, J., **Cochran, S.A.**, Field, M.E., Jacobi, J.D., Tribble, G., 2011, From ridge to reef – linking erosion and changing watersheds to impacts on the coral reef ecosystems of Hawai'i and the Pacific Ocean: U.S. Geological Survey Scientific Investigation Report 2011-3049, 4 p.
- Draut, A.E., Bothner, M.H., Reynolds, R.L., Field, M.E., **Cochran, S.A.**, and Logan, J.B., 2009, Supply and dispersal of seasonal flood deposits in Hanalei Bay, Kaua'i, HI, USA; Implications for land use near coral-reef ecosystems: Estuarine, Coastal and Shelf Science.
- Richmond, B.M., **Cochran, S.A.**, and Gibbs, A.E., 2009, Geologic Resource Evaluation – Pu'ukohola Heiau National Historic Site, Part I: Geology and coastal landforms: U.S. Geological Survey Scientific Investigation Report 2006-5253.
- Richmond, B.M., **Cochran, S.A.**, and Gibbs, A.E., 2009, Geologic Resource Evaluation - Kaloko-Honokohau National Historical Park: Geology, coastal landforms, and benthic habitats: U.S. Geological Survey Scientific Investigation Report 2006-5255.
- Richmond, B.M., **Cochran, S.A.**, and Gibbs, A.E., 2009, Geologic Resource Evaluation – Pu'uhonua O Honaunau National Historical Park, Part I: Geology and coastal landforms: U.S. Geological Survey Scientific Investigation Report 2006-5257.
- Gibbs, A.E., and **Cochran, S.A.**, 2009, An integrated approach to benthic habitat mapping using remote sensing and GIS; An example from the Hawaiian Islands, *in* Yang, X., ed., Remote sensing and geospatial technologies for coastal ecosystem assessment and management: Springer-Verlag Press, p. 211-231.

**PUBLICATIONS, cont.**

- **Cochran, S.A.**, 2008, Benthic habitat maps of the south Moloka`i coral reef, in Field, M.E., Cochran, S.A., Logan, J.B., and Storlazzi, C.D., eds., The coral reef of south Moloka`i, Hawai`i; Portrait of a sediment-threatened fringing reef, U.S. Geological Survey Scientific Investigations Report, 2007-5101, p. 77-97.
- Field, M.E., Bothner, M.H., Chavez, P.S., **Cochran, S.A.**, Jokiel, P.L., Ogston, A.S., Presto, M.K., and Storlazzi, C.D., 2008, The effects of a Kona storm on the Moloka`i reef; November and December 2001, in Field, M.E., Cochran, S.A., Logan, J.B., and Storlazzi, C.D., eds., The coral reef of south Moloka`i, Hawai`i; Portrait of a sediment-threatened fringing reef, U.S. Geological Survey Scientific Investigations Report, 2007-5101, p. 159-164.
- Field, M.E., Calhoun, R.S., Storlazzi, C.D., Logan, J.B., and **Cochran, S.A.**, 2008, Sediment on the Moloka`i reef, in Field, M.E., Cochran, S.A., Logan, J.B., and Storlazzi, C.D., eds., The coral reef of south Moloka`i, Hawai`i; Portrait of a sediment-threatened fringing reef, U.S. Geological Survey Scientific Investigations Report, 2007-5101, p. 137-144.
- Field, M.E., **Cochran, S.A.**, Logan, J.B., and Storlazzi, C.D., 2008, The Moloka`i coral reef today, and alternatives for the future, in Field, M.E., Cochran, S.A., Logan, J.B., and Storlazzi, C.D., eds., The coral reef of south Moloka`i, Hawai`i; Portrait of a sediment-threatened fringing reef, U.S. Geological Survey Scientific Investigations Report, 2007-5101, p. 167-170.
- Field, M.E., **Cochran, S.A.**, Logan, J.B., and Storlazzi, C.D., 2008, The south Moloka`i reef; Origin, history and status, in Field, M.E., Cochran, S.A., Logan, J.B., and Storlazzi, C.D., eds., The coral reef of south Moloka`i, Hawai`i; Portrait of a sediment-threatened fringing reef, U.S. Geological Survey Scientific Investigations Report, 2007-5101, p. 3-10.
- Field, M.E., **Cochran, S.A.**, Logan, J.B., and Storlazzi, C.D., eds., 2008, The coral reef of south Moloka`i, Hawai`i; Portrait of a sediment-threatened reef, U.S. Geological Survey Scientific Investigations Report 2007-5101, 180 p.
- Field, M.E., Logan, J.B., Chavez, P.S. Jr., Storlazzi, C.D., and **Cochran, S.A.**, 2008, Views of the south Molokai watershed-to-reef system, in Field, M.E., Cochran, S.A., Logan, J.B., and Storlazzi, C.D., eds., The coral reef of south Moloka`i, Hawai`i; Portrait of a sediment-threatened fringing reef, U.S. Geological Survey Scientific Investigations Report, 2007-5101, p. 17-31.
- **Cochran, S.A.**, Gibbs, A.E., and Logan, J.B., 2007, Geologic Resource Evaluation – Pu`ukohola Heiau National Historic Site; Part II - Benthic habitat mapping: U.S. Geological Survey Scientific Investigations Report 2006-5254, 20 p.
- **Cochran, S.A.**, Gibbs, A.E., and Logan, J.B., 2007, Geologic Resource Evaluation – Pu`uhonua O Honaunau National Historical Park; Part II - Benthic habitat mapping: U.S. Geological Survey Scientific Investigation Report 2006-5258, 22 p.
- D'Iorio, M., Jupiter, S.D., **Cochran, S.A.**, and Potts, D.C., 2007, Optimizing remote sensing and GIS tools for mapping and managing the distribution of an invasive mangrove (*Rhizophora mangle*) on south Molokai, Hawaii: Marine Geodesy, v. 30, no. 1-2, p. 125-144.
- Draut, A.E., Bothner, M.H., Reynolds, R.L., Buchan, O.C., **Cochran, S.A.**, Casso, M.A., Baldwin, S.M., Goldstein, H., Xiao, J., Field, M.E., and Logan, J.B., 2007, Sedimentary properties of shallow marine cores collected in June and September 2006, Hanalei Bay, Kaua`i, Hawai`i: U.S. Geological Survey Data Series 289.
- Field, M.E., Berg, C.J., and **Cochran, S.A.**, eds., 2007, Science and management in the Hanalei watershed; a trans-disciplinary approach: Proceedings from the Hanalei watershed workshop. U.S. Geological Survey Open-File Report 2007-1219, 87 p.
- Gibbs, A.E., **Cochran, S.A.**, Logan, J.B., and Grossman, E.E., 2007, Benthic habitats and offshore geological resources of Kaloko-Honokohau National Historical Park: U.S. Geological Survey Open File Report 2006-5256, 62 p.

**PUBLICATIONS, cont.**

- **Cochran-Marquez, S.A.**, 2005, Moloka`i benthic habitat mapping: U.S. Geological Survey Open-File Report 2005-1070, 18 p.
- **Cochran, S.A.**, Roberts, L.M., and Evans, K.R., 2002, Moloka`i fieldtrip guidebook: selected aspects of the geology, geography, and coral reefs of Moloka`i. U.S. Geological Survey Open File Report 02-158.
- Field, M.E., **Cochran, S.A.**, and Evans, K.R., 2002, U.S. Coral Reefs -- Imperiled National Treasures. U.S. Geological Survey Fact Sheet 025-02. *Winner of 2003 Shoemaker Award for Communication Product Excellence.*
- Field, M.E., Chavez, Jr., P.S., Evans, K.R., and **Cochran, S.A.**, 2001, New mapping techniques help assess the health of Hawai`i's coral reefs. U.S. Geological Survey Fact Sheet 084-01.
- **Cochran, S.A.**, 1999, Hyperspectral imaging techniques applied to ecosystem health in Elkhorn Slough, California. M.Sc. Thesis, University of California Santa Cruz, 91 p.
- Martini, B.A., **Cochran, S.A.**, Silver, E.A., Pickles, W.L., and Potts, D.C., 1999, Geological and geobotanical characterization of a geothermal system using hyperspectral imagery analysis, Long Valley Caldera, CA. Proceedings of the Thirteenth International Conference on Applied Geologic Remote Sensing, v. 1, p. 337-341.
- Martini, B.A., **Cochran, S.A.**, Potts, D.C., Silver, E.A., Pickles, W.L., Carter, M.R., Priest, R.E., Wayne, B.M., and White III, W.T., 1998, Geobotanical characterization of a geothermal system using hyperspectral imagery: Long Valley Caldera, CA, USA. University of California, Lawrence Livermore National Laboratory, Research Report UCRL-ID-133212, 8 p.
- **Cochran, S.A.**, 1996, Geomorphology and biotic density of Dairy Bull reef, Discovery Bay, Jamaica. B.Sc. Thesis, Baylor University.
- **Cochran, S.A.** (ed), 1996, Llano II: A guidebook to the southeastern Llano Uplift, Central Texas. Baylor Geological Society, 22 p.

**POSTERS AND TALKS PRESENTED WITH ABSTRACTS**

- McGann, M., Field, M.E., **Cochran, S.A.**, Vrijenhoek, R.C., and Johnson, S., 2008, Foraminiferal assemblages reflect human-induced and natural environmental change; case studies of watershed degradation, pollution and whale falls: 33<sup>rd</sup> International Geological Congress, Oslo, Norway, August 6-14, 2008, CD-rom abstract no. HPF-12.
- **Cochran, S.A.**, 2008, Comparison of a benthic terrain model to benthic habitat classification maps of Moloka`i, Hawai`i, USA: 11<sup>th</sup> International Coral Reef Symposium, Ft. Lauderdale, FL, July 5-11, 2008, p. 403.
- **Cochran, S.A.**, Chavez, P.S., Isbrecht, J., and Bogle, R.C., 2008, Mapping suspended sediment concentration on a fringing coral reef using airborne multispectral remote sensing and *in situ* sampling; Moloka`i, Hawai`i: 2008 Ocean Sciences, Orlando, FL, Proceedings, March 2-8, 2008, p. 79.
- Draut, A.E., Bothner, M.H., Reynolds, R.L., Field, M.E., **Cochran, S.A.**, Logan, J.B., Storlazzi, C.D., and Berg, C.J., 2008, Implications of seasonal flood deposits for coral reef ecosystems; example from Hanalei Bay, Kaua`i, HI, USA: 2008 Ocean Sciences, Orlando, FL, Proceedings, March 2-8, 2008, p. 107.
- Field, M.E., Ogston, A.O., Storlazzi, C.D., **Cochran, S.A.**, Presto, M.K., Stock, J.D., and Logan, J.B., 2008, Chronic turbidity on the Molokai fringing coral reef; goats, sugar, and watershed change: 2008 Ocean Sciences, Orlando, FL, Proceedings, March 2-8, 2008, p. 125.
- **Cochran, S.A.**, Field, M.E., and Storlazzi, C.D., 2007, Distribution of mud in Hanalei Bay, Kaua`i; June vs. September 2006, in Field, M.E., Berg, C.J., and Cochran, S.A., eds., Science and management in the Hanalei watershed; a trans-disciplinary approach: Proceedings from the Hanalei watershed workshop, 21-22 February 2007, Hanalei, HI, U.S. Geological Survey Open File Report 2007-1219, p. 18-21.

**POSTERS AND TALKS PRESENTED WITH ABSTRACTS, cont.**

- Draut, A.E., Field, M.E., Bothner, M.H., **Cochran, S.A.**, Casso, M.A., Baldwin, S., Reynolds, R.L., Logan, J.B., and Storlazzi, C.D., 2007, Seasonal flood deposits in Hanalei Bay, Kaua`i, HI, in Field, M.E., Berg, C.J., and Cochran, S.A., eds., Science and management in the Hanalei watershed; a trans-disciplinary approach: Proceedings from the Hanalei watershed workshop, 21-22 February 2007, Hanalei, HI, U.S. Geological Survey Open File Report 2007-1219, p. 22-27.
- Gibbs, A.E., and **Cochran, S.A.**, 2007, Seafloor habitat mapping in Hawaiian National Parks. Association of American Geographers Annual Meeting, San Francisco, CA, March 17-21, 2007.
- **Cochran, S.A.**, Gibbs, A.E., and Logan, J.B., 2006, Benthic habitat maps for National Parks along the Kona coast, Hawai`i. Eos. Trans. AGU 87(36), Ocean Sciences Meeting Supplement, CD-rom, Abstract OS26I-02.
- Field, M.E., Ogston, A.S., Storlazzi, C.D., **Cochran, S.A.**, and Chavez Jr., P.S., 2006, Turbidity and sedimentation on Hawaiian coral reefs: the "residence-time" factor. Eos. Trans. AGU 87(36), Ocean Sciences Meeting Supplement, CD-rom, Abstract OS52O-02.
- Gibbs, A.E., **Cochran, S.A.**, Storlazzi, C.D., Grossman, E.E., and Field, M.E., 2006, Coral habitat variability in the Kona coast National Parks. Eos. Trans. AGU 87(36), Ocean Sciences Meeting Supplement, CD-rom, Abstract OS26I-09.
- Gibbs, A.E., **Cochran-Marquez, S.A.**, Logan, J.B., Grossman, E.E., Field, M.E., and Beavers, S., 2005, Seafloor habitat mapping in the Kona Coast National Parks. The George Wright Society Biennial Conference on Parks, Protected Areas, and Cultural Sites, Philadelphia, PA, March 14-18, 2005, p. 152.
- Gibbs, A.E., Grossman, E., Logan, J., **Cochran-Marquez, S.A.**, Storlazzi, C., Field, M., Payton, A., and Street, J., 2004, Seafloor habitat mapping and oceanographic studies in the Kona Coast National Parks. Geological Society of America 2004 Annual Meeting, Denver, CO, November 2004. GSA Abstracts with Programs, v. 36, no. 5, p. 124.
- Chavez, Jr., P.S., Isbrecht, J., **Cochran, S.A.**, 2004, Use of remote sensing to detect and map suspended sediment on a reef due to on-land runoff and wind resuspension: Moloka`i, Hawai`i. 2004 Western Pacific Geophysics Meeting (AGU), Honolulu, HI, August 2004.
- **Cochran-Marquez, S.A.**, 2004 High-resolution benthic habitat map of Moloka`i, HI. 2004 Western Pacific Geophysics Meeting (AGU), Honolulu, HI, August 2004.
- Field, M.E., Bothner, M.A., Chavez, Jr., P.S., **Cochran-Marquez, S.A.**, Jokiel, P.L., Ogston, A.S., and Storlazzi, C.D., 2004, Fate of flood sediment on a fringing coral reef, Moloka`i, Hawai`i. Tenth International Coral Reef Symposium, Okinawa, Japan, June-July, 2004.
- Field, M.E., Bothner, M.A., Brown, E., **Cochran, S.A.**, Jokiel, P.L., Ogston, A.S., and Storlazzi, C., 2002, Excessive sedimentation and reef degradation, Moloka`i, Hawai`i. European Meeting of the International Society for Reef Studies (ISRS), September 2002.
- Ayers, P.D., Legoza, S.M., Peel, M.P., Field, M.E., **Cochran, S.A.**, Lanzendorf, B.L., 2002, UVMS for coral reef ecosystem mapping and species distribution analysis. 7th International Conference on Remote Sensing for Marine and Coastal Environments, Miami, FL, May 2002.
- Chavez, Jr., P.S., Sides, S.C., Velasco, M.G., and **Cochran, S.A.**, 2002, Use of shipborne dual frequency acoustics to map portions of a coral reef habitat: Moloka`i Hawai`i. 7th International Conference on Remote Sensing for Marine and Coastal Environments, Miami, FL, May 2002.
- Field, M.E., Storlazzi, C.D., Jokiel, P.L., Ogston, A.S., Bothner, M.A., Calhoun, R.S., **Cochran, S.A.**, and Chavez, Jr., P.S., 2002, Patterns and impact of sedimentation on a fringing coral reef, Moloka`i, Hawai`i. Eos. Trans. AGU, Ocean Sciences 2002 Meeting Supplement, 83(4), p.40.

**POSTERS AND TALKS PRESENTED WITH ABSTRACTS, cont.**

- Chavez, Jr., P.S., Sides, S.C., **Cochran, S.A.**, Isbrecht, J., and Velasco, M.G., 2001, Use of remotely sensed images to help map and study coral reef environments: Moloka`i Hawai`i. PACON 2001 International Symposium, San Francisco, CA., July 2001.
- Field, M.E., Chavez, Jr., P.S., Gardner, J., Storlazzi, C.D., **Cochran, S.A.**, and Logan, J.B., 2001, High-resolution morphology of coral reef habitats, Hawai`i. Second Symposium on Marine Conservation Biology, San Francisco, CA, June 2001.
- **Cochran, S.A.**, Chavez, Jr., P.S., Field, M.E., Sides, S.C., Ayers, P., and Legosa, S., 2001, Underwater acoustic and video mapping of coral reef habitats, Moloka`i. Second Symposium on Marine Conservation Biology, San Francisco, CA, June 2001.
- **Cochran, S.A.**, Chavez, P.S. Jr., Field, M.E., and Sides, S.C., 2001, A multi-tasked approach to coral reef ecosystem mapping, Moloka`i, Hawai`i. Second Symposium on Marine Conservation Biology, San Francisco, CA, June 2001. Field, M.E., Chavez, Jr., P.S., Velasco, M., and **Cochran, S.A.**, 2000, New Approaches to Mapping Coral Reefs: Lidar Images from Hawai`i. Ninth International Coral Reef Symposium, Bali, Indonesia, October 2000.
- Evans, K.R., and **Cochran, S.A.**, 2000, Mapping, Monitoring and Modeling of the Coral Reefs of Hawai`i: US Geological Survey Studies. Occasional Talk Series, Southwest Missouri State University, Department of Geology, October 2000.
- Field, M.E., Storlazzi, D.C., Bothner, M.A., Chavez, P.S. Jr., Calhoun, R.S., and **Cochran, S.A.**, 2000, Sedimentation Patterns On The Fringing Reef Off South Moloka`i, Hawai`i. National Beach Preservation Conference, Ka'anapali, HI, August 2000.
- **Cochran, S.A.**, 2000, Using and Navigating the New Website for Mamala Bay, Oahu. Ninth Pacific Congress on Science and Technology (PACON) Science Teacher's Workshop, Honolulu, HI, June 2000.
- Field, M.E., Chavez, P.S. Jr., Jokiel, P.L., and **Cochran, S.A.**, 2000, Interpreting Remotely Sensed Data On Coral Reefs. Ninth Pacific Congress on Science and Technology (PACON), Honolulu, HI, June 2000.
- Field, M.E., **Cochran, S.A.**, and Chavez, P.S. Jr., 2000, Mapping Coral Reefs By Combining Aerial Photography With Georeferenced Underwater Video And Laser Bathymetry Data, Moloka`i, Hawai`i. Sixth International Conference on Remote Sensing for Marine and Coastal Environments, Charleston, SC, May 2000.
- **Cochran, S.A.**, 2000, Hyperspectral Imaging Techniques Applied To Ecosystem Health Monitoring In Elkhorn Slough, Central California. Sixth International Conference on Remote Sensing for Marine and Coastal Environments, Charleston, SC, May 2000.
- **Cochran, S.A.**, 2000, Hyperspectral Techniques For Ecosystem Monitoring In Elkhorn Slough. Monterey Bay National Marine Sanctuary Symposium, Sanctuary Currents '00, Causes of Ecosystem Change: Natural or Human?, Santa Cruz, CA, March 2000.
- **Cochran, S.A.**, 1999, Mapping environmental stress in Elkhorn Slough, Central California using hyperspectral data: a management tool for an at-risk coastal ecosystem. Monterey Bay National Marine Sanctuary Symposium, Sanctuary Currents '99, Climate Change and the Sanctuary, Seaside, CA, March 1999.
- Martini, B.A., **Cochran, S.A.**, Potts, D.C., Silver, E.A., Pickles, W.L., Carter, M.R., Priest, R.E., Wayne, B.M., White, W.T., and Anderson, T., 1999, New hyperspectral remote sensing techniques using geobotany, geology, and gas emission observations, for applied geothermal exploration and exploitation. Thirteenth International Conference on Applied Geologic Remote Sensing, Vancouver, BC, Canada, March 1999.

### **POSTERS AND TALKS PRESENTED WITH ABSTRACTS, cont.**

- Field, M.E., Gardner, J., Mayer, L., Hughes-Clarke, J., Benumof, B., and **Cochran, S.A.**, 1998, High-resolution multibeam survey of the insular shelf and slope of windward and southern Oahu, Hawai'i. American Geophysical Union 1998 Fall Meeting, San Francisco, CA, December 1998.
- **Cochran, S.A.**, Martini, B.A., Jacobs, J.R., Potts, D.C., Silver, E.A., and Pickles, W.L., 1998, Mapping environmental stress in Elkhorn Slough, Central California using hyperspectral data: a management tool for an at-risk coastal ecosystem. Fifth International Conference Remote Sensing for Marine and Coastal Environments, San Diego, CA, October 1998.
- Martini, B.A., **Cochran, S.A.**, Silver, E.A., Pickles, W.L., and Potts, D.C, 1998, Characterization of a hydrothermal system geologically and geobotanically using hyperspectral imagery: Long Valley Caldera, California, USA. American Geophysical Union 1998 Fall Meeting, San Francisco, CA, December 1998.
- **Cochran, S.A.**, and Jacobs, J.R., 1998, Hyperspectral tools for early detection, rapid assessment and economical monitoring of anthropogenic inputs to estuarine ecosystems. Monterey Bay National Marine Sanctuary Symposium, Sanctuary Currents '98, Human Influences on the Coastal Ocean, Santa Cruz, CA, March 1998.
- **Cochran, S.A.**, and Gaitros, A., 1999, Identification of human and natural disturbances on Jamaican fringing reefs. Geological Society of America South-Central Section Meeting, Austin, TX, March 1996.

### **INTERESTS AND ACTIVITIES**

- Older Students Organization, Baylor University; President 1994-1995, Vice President 1993-1994, member 1992-1996
- PADI Advanced SCUBA diver since 1991 with several specialties including Coral Reef Diver
- Geocaching since 2001

### **COMPUTER AND OTHER EQUIPMENT SKILLS**

- Experienced with Mac's, PC's
- Some experience with Sun Workstations (UNIX)
- Software experience includes ArcView, ArcGIS, Fledermaus, ENVI, MSWord, Excel, and Power Point, Adobe Acrobat Suite, Go Live, Photoshop and Illustrator, PaintShop Pro, Final Cut Pro, Dreamweaver, EndNote, Virtual PC, and some ERDAS Imagine and ERMapper
- GPS navigation
- Underwater still photography, underwater videography
- HTML web page creation and publication
- 10-key by touch, scanners, copiers, and fax machines

### **REFERENCES AVAILABLE UPON REQUEST**