

## Curriculum Vitae

### CRAIG RANDALL SMITH

#### Address:

Department of Oceanography  
University of Hawaii at Manoa  
1000 Pope Road

**Birthplace:** Bay Shore, NY  
**Date:** 28 Aug 1954

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#### Education:

B.S., 1977, with high honors, Biological Science, Michigan State University  
Ph.D., Dec 1983, Biological Oceanography, University of California at San Diego, Scripps Institution of Oceanography

#### Professional Experience:

1975-1976: Teaching Assistant, Biological Science Program, Michigan State University  
1976: Summer Student Fellow, Woods Hole Oceanographic Institution  
1976-1977: Research Assistant, Microbiology Department, Michigan State University  
1977-1981: Research Assistant, Program for the Study of Sub- Seabed Disposal of Radioactive Waste, Scripps Institution of Oceanography  
1981-1983: Associate Investigator, O.N.R. grant entitled, "The Impact of Large Organic Falls on a Bathyal Benthic Community," Scripps Institution of Oceanography  
1983-1984: Postdoctoral Scholar, Woods Hole Oceanographic Institution  
1985-1986: Postdoctoral Research Associate, School of Oceanography, University of Washington  
1986-1988: Research Assistant Professor, School of Oceanography, University of Washington  
1988-1995: Associate Professor, Department of Oceanography, University of Hawaii at Manoa  
1995-1998, 2004-2007: Chair, Biological Oceanography Division, University of Hawaii at Manoa  
1997-1998, 2006-2007: Associate Chair, Department of Oceanography  
1995-present: Professor, Department of Oceanography, University of Hawaii at Manoa

#### Major Research Interests:

Seafloor ecology and oceanography including processes of disturbance, recruitment, and succession, bioturbation, carbon flux, deposit feeding, reducing habitats, sediment geochemistry, and benthopelagic coupling, anthropogenic impacts on the ocean

#### Honors, Awards and Professional Recognition:

- 1976: Summer Student Fellowship, Woods Hole Oceanographic Institution
- 1976: Summer Fellowship, Chesapeake Biological Laboratory (declined)
- 1976: Member, Phi Kappa Phi
- 1983-1984: Postdoctoral Scholar Award, Woods Hole Oceanographic Institution
- 1985: Invited participant, *Annual Review of Deep Seabed Mining Benthic Research*, National Oceanic and Atmospheric Administration, Newport, OR.
- 1986: Invited participant, *NOAA Re-Sedimentation Engineering Workshop*, National Oceanic and Atmospheric Administration, La Jolla, CA.
- 1986-1988: Biology Contingent Leader, Benthic Working Group, U.S. Global Ocean Flux Study, NSF.
- 1987: Invited session chair, *Gorda Ridge Symposium*, Portland, OR.
- 1988: Invited speaker, AGU-ASLO Meeting special session on *Biogeochemical Fluxes in the World Ocean - Benthic Fluxes*, New Orleans, LA.
- 1988: Invited participant, *GOFPS Pacific Planning Meeting*, Monterey, CA.
- 1989: Invited participant, *Controlled Impact Experiment/Preservational Reference Area Workshop*, NOAA, La Jolla, CA.
- 1991: Invited leading contributor, NATO Advanced Research Workshop on *Deep-Sea Food Chains - Their Relation to the Global Carbon Cycle*, College Station, Texas.
- 1991: Invited to participate in the Sloan Foundation workshop on *The Ocean Option for Waste Disposal*, Woods Hole, MA.
- 1992: Invited speaker at the North American Paleontological Convention, *Deep-Sea Paleocology Symposium*, Chicago, IL.
- 1993: Invited participant, Third RIDGE Theoretical Institute on *Physical, Biological and Geological Interactions Within Seafloor Hydrothermal Systems*, Big Sky, Montana.
- 1994: Invited participant, *NOAA Deep Seabed Mining Program Workshop*, Washington, DC.
- 1994: Provided invited testimony to the U.S. House of Representatives Subcommittee on Oceanography concerning *The U.N. Law of the Sea Treaty and reauthorization of the Deep Seabed Hard Mineral Resources Act*, Washington, DC.
- 1994: Invited speaker, US JGOFS Equatorial Pacific Program Synthesis Workshop, Scottsdale, AZ.
- 1994: Session Co-Chair, Fall AGU Meeting, *Seafloor Geochemistry and Biology: Coupling to the Surface Ocean*, San Francisco, CA.
- 1994: Invited speaker, Western Society of Naturalists Symposium, *Life Processes in the Deep-Sea*, Monterey, CA.
- 1995: Invited leading contributor, NATO Advanced Research Workshop on *Oceanography of the Equatorial Pacific*, Noumea, New Caledonia.
- 1995: Biological Oceanography Panel Member, National Science Foundation
- 1996: Invited speaker, National Center for Ecological Analysis and Synthesis Symposium on *Synthesis in Ecology; Applications, Opportunities, and Challenges*, Santa Barbara, CA.
- 1996-2000: Invited participant, Deep-Sea Biodiversity Working Group, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA.
- 1997: Distinguished Lecturer, Department of Oceanography, Texas A. & M. University, College Station, TX.
- 1998: Invited as keynote speaker, Symposium on *Benthic Processes in the Deep Arabian Sea*, Royal Society of Edinburgh, Edinburgh, Scotland
- 1998: Visiting Professor, Southampton Oceanography Center, University of Southampton, UK.

- 1998: Invited participant, SCOPE workshop on *Biodiversity Above and Below the Surface of Soils and Sediments*, Lunteren, Netherlands
- 1998: Invited Participant, workshop on *Environmental Guidelines for Deep-Sea Polymetallic Nodule Exploration*, International Seabed Authority, Sanya, China.
- 1998: Invited Speaker, Centre pour Faible Radioactivite, Gif-Sur-Yvette, France
- 1998: Invited Speaker, Department of Zoology, University of Oslo, Oslo, Norway
- 1998: Invited Speaker, Department of Zoology, University of Aberdeen, Aberdeen, Scotland
- 1998: Invited Speaker, IFREMER, Brest, France
- 1998: Invited Speaker, Christiniberg Marine Laboratory, Christiniberg, Sweden
- 1999: Invited Participant, workshop on *Future Environmental Studies on the Impacts of Manganese-Nodule Mining in the Deep-Sea*, International Seabed Authority, Kingston, Jamaica.
- 1999: Invited Participant, workshop on *Regional Patterns of Deep-Sea Biodiversity*, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA.
- 2000: Invited Participant, workshop on *Global Patterns of Deep-Sea Biodiversity*, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA.
- 2000-2002: Invited member, Technical Committee, CO<sub>2</sub> Ocean Sequestration Project
- 2001: Invited Speaker, Southampton Oceanography Center, University of Southampton, England
- 2001: Visiting Scholar, *Biological Oceanography Futures Program*, Scripps Institution of Oceanography
- 2002: Invited Speaker, AAAS Symposium on *Deep-Sea Biodiversity: Pattern, Scale and Conservation*, Boston, MA.
- 2002-2003: Steering Committee Member, ChEss (*Chemosynthetic Ecosystems*), *Census of Marine Life*
- 2003: Keynote speaker on deep-sea ecosystems, 5<sup>th</sup> International Conference on the Environmental Future, *Future of Aquatic Ecosystems*, Zurich, Switzerland, March 2003.
- 2003: Invited Speaker, *Underwater Mining Institute*, Jeju Island, South Korea.
- 2003: Nominated for Pew Fellowship in Marine Conservation.
- 2003: Invited Speaker, Symposium on *Whales, Whaling and Marine Ecosystems*, Santa Cruz, CA.
- 2003: Invited Participant, *Census of Marine Life Workshop on Deep-Sea Sediments*, Newport, OR.
- 2004: Invited Speaker, *NERC Deep Oceans Meeting*, London, United Kingdom
- 2004: Keynote Speaker, *Ecology of the Antarctic Sea Ice Zone Final Symposium*, Korcula, Croatia.
- 2004-2006: Pew Fellowship in Marine Conservation.**
- 2005: Invited Speaker, symposium on *Whale research: Fresh approaches yielding new perspectives*, American Association for the Advancement of Science Annual Meeting Washington, DC
- 2005: Invited Speaker, IFM-GEOMAR, Kiel, Germany; Alfred Wegener Institute, Bremerhaven, Germany; Max Planck Institute, Bremen, Germany; Hansewissenschaftskolleg Center for Climate and Oceanographic Research, Delmenhorst, Germany; Université Pierre et Marie Curie, Paris; Museum National d'Histoire Naturelle, Paris
- 2005: Invited contributor (with Tony Koslow) to United Nations Secretary General report on *Marine Biodiversity in Areas beyond National Jurisdiction: Threats to Ecosystems and Biodiversity caused by Human Activities*.
- 2005: Invited Speaker, *First DIVERSITAS Open Science Conference: Integrating biodiversity science for human well-being (Oceans of Biodiversity Symposium)*, Oaxaca, Mexico.
- 2005: Hanse Wissenschaftskolleg Fellowship, Max Planck Institute, Germany

2005+: Editorial Board, *Marine Ecology*

2006: Visiting Scholar, University of Barcelona and CSIC, Barcelona, Spain

2006: Invited participant, International Seabed Authority workshop on *Cobalt Crusts and the Diversity and Distribution Patterns of Seamount Faunas*, Kingston, Jamaica

2007: Invited participant and co-chair, *UNESCO Workshop on Biogeographic Classification Systems in Open Ocean and Deep Seabed Areas Beyond National Jurisdiction*, Mexico City

2008: Keynote speaker, *International Ocean Stewardship Forum*, Southampton, England

2008: Keynote speaker: World Conference on Marine Biodiversity

### **International Steering Committees**

Chemosynthetic Ecosystems Project (ChEss), Census of Marine Life  
Census of the Diversity of Abyssal Marine Life (CeDAMar), Census of Marine Life

### **Professional Societies:**

American Society of Limnology and Oceanography

Ecological Society of America

### **Research Funding:**

*Colonization of manipulated deep-sea sediments in the central North Pacific*, (CoPI - L. Levin), Scripps Industrial Associates, 1/80-12/82, \$4,930.

*The impact of large organic falls on a bathyal benthic community*, ONR, 5/81-9/83, \$43,000.

*Development of benthic biological monitoring criteria for low-level radioactive waste disposal sites in the abyssal deep sea*, EPA, 9/84-8/86, \$36,404.

*A system for studying natural patterns and rates of disturbance and succession in deep-sea macrobenthos I* (CoPI with P. Jumars), NSF-OCE, 11/84-10/86, \$210,000.

*A system for studying natural patterns and rates of disturbance and succession in deep-sea macrobenthos II*, NSF-OCE, 11/86-10/88, \$140,000.

*Assessment of benthic faunal sensitivity to rapid sediment burial at Domes Site C in the abyssal Pacific*, NOAA, 2/87-9/90, \$102,000.

*Investigation of a sulfide-based community on whale remains at the deep-sea floor*, UH Seed Money Fund, 5/89-4/90, \$5,492.

*Macrobenthic community structure, secondary production, and modes and rates of sediment mixing in Kaneohe Bay Lagoon*, Hawaii DLNR, 1/90-12/91, \$44,000.

- Community structure and dynamics in a newly discovered deep-sea reducing habitat: lipid-rich whale bones*, NSF-OCE, 5/90-4/92, \$148,000.
- Benthic community disturbance and succession following simulated nodule mining in the equatorial Pacific*, NOAA Deep Seabed Mining Environmental Research Program, 12/90-1/93, \$340,000.
- The relationship of bioturbation, macrobenthos and seabed radionuclides to the flux and fate of organic carbon along the JGOFS equatorial Pacific transect*, (CoPI's - D. DeMaster and D. Kadko, separate budgets), NSF-OCE, 10/91-10/93, \$221,000.
- Sediment accumulation and bioturbation in Kaneohe Bay Lagoon based on Pb-210 geochronology*, (CoPI - G. McMurtry), Hawaii DLNR, 7/1/93-12/31/94, \$63,928.
- Recruitment patterns of marine benthic invertebrates in Mamala Bay: a process oriented measure of ecosystem response to pollution*, Mamala Bay Commission, 7/1/93-9/30/95, \$137,000.
- Structure, succession and phylogenetic affinities of deep-sea whale-fall communities on the northeast Pacific slope*, NOAA NURC Alaska, 3/1/95-2/28/97, \$109,000.
- Age-dependent mixing of deep-sea sediments: tests of mechanisms at three bathyal sites*, NSF-OCE (CoPI - D. DeMaster, separate budget), 12/1/95-11/30/98, \$280,000.
- Succession and gene flow in deep-sea whale-skeleton communities*, National Geographic Society, 9/15/95-9/14/98, \$43,900.
- Early succession, persistence and seep affinities of whale-fall communities on the northeast Pacific slope*, NOAA NURC Alaska, 5/1/97-2/28/02, \$168,000.
- Ecology of whale falls at the deep-sea floor*, British Broadcasting Corporation, 6/25/98-6/25/99, \$8,000.
- The impact of invading mangroves on Hawaiian soft-sediment communities*, Hawaii Sea Grant College Program, 3/1/99-9/30/01, \$60,617.
- Precious corals in the Hawaiian Islands: Management Units Determined by Molecular Genetics*, (G. K. Roderick, CoPI), Hawaii Sea Grant College Program, 3/1/99-12/31/02, \$54,994.
- Benthic-pelagic coupling on the West Antarctic Peninsula shelf: the impact and fate of bloom material at the seafloor*, NSF-DPP, 6/1/99 – 12/31/2002, \$316,528.
- EPA Graduate Fellowship for Amy R. Baco*, EPA, 9/1/99 – 8/31/02, \$64,000.
- Recolonization and succession of mangrove fauna following severe hurricane disturbance*, National Estuarine Research Reserve Graduate Research Fellowship (for Amanda Jones), NOAA, 6/1/99-5/31/03, \$49,500.
- Continuing assessment of the impact of invading mangroves on Hawaiian coastal ecosystems*, Hawaii Sea Grant College Program, 3/1/01-2/28/03, \$82,000.
- Collaborative research: Radiometric dating of whale bones – a tool for study of succession and persistence of whale fall chemoautotrophic assemblages*, NSF-OCE, 5/1/01 – 4/30/04, \$52,000.
- Succession and seep affinities of large-whale, kelp, and wood fall communities on the California slope*, NOAA-NURC Alaska, 3/1/02 – 2/28/05, \$231,517.
- Biodiversity, species ranges, and gene flow in the abyssal Pacific nodule province: predicting and managing the impacts of deep seabed mining*, J. M. Kaplan Fund, 1/3/02 – 6/31/06, \$290,000.
- Biodiversity, species ranges and gene flow in the CCFZ*, International Seabed Authority, 12/31/01 – 6/1/06, \$78,000.
- Environmental Impacts of CO<sub>2</sub> Injection into the Deep Norwegian Sea (2002)*, DOD – GeoCenters, 6/21/02 – 6/1/03, \$30,639

- Collaborative Proposal: Using Radiocarbon Measurements of Benthic Megafauna as a Tool for Assessing Benthic-Pelagic Coupling in the Marine Organic Carbon Cycle*, NSF- OCE, 1/1/03-12/31/05, \$39,922.
- Recolonization and succession of wetland communities following mangrove removal*, Hawaii Sea Grant College Program, 3/1/03-2/28/06, \$70,000.
- Submarine Canyon and Scavenger Communities in the Main and Northwest Hawaiian Islands*, NOAA Office of Ocean Exploration, 7/1/03-6/30/06, \$136,000.
- Pew Fellowship in Marine Conservation*, Pew Charitable Trust, 2/1/04 – 1/31/07, \$150,000.
- Census of the Diversity of Abyssal Marine Life (CeDAMar) - I*. A. P. Sloan Foundation, Pedro Martinez-Arbizu, Co-PI, 4/1/04 – 6/30/06, \$660,000.
- Exploration of Chemosynthetic Habitats of the New Zealand Region*, NOAA Office of Ocean Exploration, 7/1/05-6/30/07, \$82,000.
- Development of Benthic Biological Parameters for Input into a Geological Model of the Manganese Nodule Province*. International Seabed Authority, 4/1/05-10/30/06, \$30,000.
- Census of the Diversity of Abyssal Marine Life (CeDAMar) - II*. A. P. Sloan Foundation, Pedro Martinez-Arbizu, Co-PI, 7/1/06 – 12/31/08, \$900,000.
- Invasion, pollution and energy flow: Benthic ecosystem function under anthropogenic stressors in The Hawaiian coastal zone*, Hawaii Sea Grant College Program, 3/1/07-2/28/08, \$114,000.
- Collaborative Research: Benthic faunal feeding dynamics on the Antarctic Shelf and the effects of climate change on benthic-pelagic coupling*. NSF-OPP, 9/15/2007-8/31/2010, \$447,135.
- Collaborative Research in IPY: Abrupt environmental change in the Larsen Ice Shelf system, a multidisciplinary approach – Marine Ecosystems*. NSF-OPP, 9/15/2007-8/31/2011, \$285,103.

### Leadership of Research Cruises (48):

1981	R.V. SCRIPPS (Chief Scientist)	- S. California bight, three 3-d cruises
1982	R.V. LULU-ALVIN (Ch. Sci.)	- S. California Bight, three 5-d cruises
1982	R.V. SCRIPPS (Ch. Sci.)	- S. California Bight, 3 d
1983	R.V. ES1-SEA CLIFF (Ch. Sci.)	- S. California Bight, 6 d
1983	R.V. SCRIPPS (Ch. Sci.)	- S. California Bight, 3 d
1983	R.V. ALOHA (Ch. Sci.)	- S. California bight, 3 d
1984	R.V. TRANSQUEST- TURTLE (Ch. Sci.)	- S. California bight, 1 wk
1985	R.V. ATLANTIS II- ALVIN (Ch. Sci.)	- S. California Bight, two 1-wk cruises
1986	R.V. ATLANTIS II- ALVIN (Ch. Sci.)	- S. California Bight, 1 wk
1987	R.V. ATLANTIS II-ALVIN (Ch. Sci.)	- S. California Bight, two 10-d cruises
1987	R.V. ORB-RUM III (Co-Ch. Sci.)	- S. California Bight, 28 d
1988	R.V. ATLANTIS II- ALVIN (Ch. Sci.)	- S. California Bight, 1 wk
1991	R.V. ATLANTIS II- ALVIN (Ch. Sci.)	- S. California Bight, 1 wk
1991	R.V. YUZHMERGEO LOGIYA (Co.-Ch. Sci.)	- Equatorial Pacific, 35 d
1992	R.V. SPROUL (Ch. Sci.)	- Southern California, 3 d
1992	R.V. MOANA WAVE (Ch. Sci.)	- HOT Station, 1 wk
1992	R.V. YUZHMERGEO- LOGIYA (Ch. Sci.)	- Equatorial Pacific, 28 d

1992	R.V. THOMPSON (Co.-Ch. Sci.)	- Equatorial Pacific, 48 d
1994	R.V. LANEY CHOUEST (Ch. Sci.)	- Southern California, 10 d
1995	R.V. NEW HORIZON (Ch. Sci.)	- Southern California, 7 d
1996	R.V. ATLANTIS II- ALVIN (Ch. Sci.)	- S. California Bight, 1 wk
1996	R.V. ATLANTIS II- ALVIN (Ch. Sci.)	- S. California Bight, 5 d
1996	R.V. LANEY CHOUEST (Ch. Sci.)	- Southern California, 10 d
1996	R.V. KAIMIKAI-O-KANALOA (Ch. Sci.)	- Hawaiian Islands, 4 d
1996	R.V. LANEY CHOUEST (Ch. Sci.)	- Southern California, 8 d
1997	R.V. NEW HORIZON (Ch. Sci.)	- Southern California, 8 d
1997	R.V. ATLANTIS-ALVIN (Ch. Sci.)	- Southern California, 5 d
1998	R.V. WILLIAM A. McGAW(Ch. Sci.)	- Southern California, 2 d
1998	R.V. ATLANTIS-ALVIN (Ch. Sci.)	- Southern California, 5 d
1998	R.V. ATLANTIS-ALVIN (Ch. Sci.)	- Southern California, 8 d
1999	R.V. BALLENA (Ch. Sci.)	- Southern California, 2 d
1999	R.V. ATLANTIS-ALVIN (Ch. Sci.)	- Southern California, 7 d
1999	R.V. L.M. GOULD (Ch. Sci.)	- Antarctic Peninsula, 23 d
2000	R.V. N.B. PALMER (Chi. Sci.)	- Antarctic Peninsula, 21 d
2000	R.V. L.M. GOULD (Ch. Sci.)	- Antarctic Peninsula, 2 cruises of 23 d each
2001	R.V. L.M. GOULD (Ch. Sci.)	- Antarctic Peninsula, 23 d
2002	R.V. R.G. SPROUL (Ch. Sci.)	- Southern California, 2 cruises of 2 d
2003	R.V. NEW HORIZON	- Central Pacific, 34 d
2003	R.V. KOK (Ch. Sci.)	- Northwest Hawaiian Islands, 24 d
2003	R.V. WESTERN FLYER (Ch. Sci.)	- California, 2 wk
2003	R.V. KOK (Ch. Sci.)	- Main Hawaiian Islands, 2 wk
2004	R.V. WESTERN FLYER (Ch. Sci.)	- California, 2 wk
2004	R.V. L'ATALANTE	- Equatorial Pacific, 38 d
2005	R.V. WESTERN FLYER (Ch. Sci.)	- California, 1 wk
2006	R.V. KOK (Ch. Sci.)	- Main Hawaiian Islands, 2 wk
2007	R.V. Kaharoa (co-Ch. Sci.)	- New Zealand, 10 d
2008	R.V. L.M. GOULD (co-Ch. Sci.)	- Antarctic Peninsula, 32 d
2008	R.V.I.B. N. B. Palmer, (Ch. Sci.)	- Antarctic Peninsula, 28 d
2009	R.V. L.M. GOULD (co-Ch. Sci.)	- Antarctic Peninsula, 35 d

### Graduate Students Supported and Supervised:

Steven Brumsickle (M.S. 1989), Bruce Bennett (M.S. 1990), Helmut Kukert (M.S. 1990), Shawn Doan (M.S. 1994), Paul Parnell (M.S. 1992, Ph.D. 2000), Daniel Hoover (M.S. 1995), Robert Miller (M.S. 1997), Amy Baco (PhD 2002), Amanda Jones (M.S. 2000, PhD 2004), Sarah Mincks (PhD 2005), Bryan Nakahara (M.S. 2007), Fabio Cabrera-deLeo, Pavica Srsen

### Postdoctoral Scholars Supported and Supervised:

Paulo Sumida, Adrian Glover, Amanda Demopoulos, Sarah Mincks, Elizabeth Galley, Andrew Sweetman, Victor Evrard

### Courses Taught at the University Level:

*Marine Benthic Ecology, Biological Oceanography, Benthic Biological Oceanography Lab, Biological-Physical Coupling in the Ocean (seminar), Productivity of the Ocean: Past and Present (seminar), Animal-Microbe-Sediment Interactions, Recent Developments in Benthic Biological Oceanography*

### Scientific Publications:

- 1) Smith, C.R. and T.M.C. Present. 1983. *In vivo* marking of shallow-water and deep-sea amphipods by ingestion of bait mixed with fast green. **Marine Biology** 73: 183-192.
- 2) Smith, C.R. and S.C. Hamilton. 1983. Epibenthic megafauna of a bathyal basin off southern California: patterns of abundance, biomass and dispersion. **Deep-Sea Research** 30: 907- 928.
- 3) Levin, L.A. and C.R. Smith. 1984. Response of background fauna to disturbance and enrichment in the deep sea: a sediment- tray experiment. **Deep-Sea Research** 31: 1277-1285.
- 4) Smith, C.R. 1985. Food for the deep sea: utilization, dispersal and flux of nekton falls at the Santa Catalina Basin floor. **Deep-Sea Research** 32: 417-442.
- 5) Smith, C.R. 1985. Colonization studies in the deep sea: are results biased by experimental designs? Pages 183-190 in: **Proceedings of the Nineteenth European Marine Biological Symposium**, P.E. Gibbs, editor, Cambridge University Press, 541 pp.
- 6) Smith, C.R. 1986. Nekton falls, low-intensity disturbance and community structure of infaunal benthos in the deep-sea. **Journal of Marine Research** 44: 567-600.
- 7) Smith, C.R., P.A. Jumars and D.J. DeMaster. 1986. *In situ* studies of megafaunal mounds indicate rapid sediment turnover and community response at the deep-sea floor. **Nature** 323: 251-253.
- 8) Smith, C.R. and R. R. Hessler. 1987. Colonization and succession in deep-sea ecosystems. **Trends in Ecology and Evolution** 2: 359-363.
- 9) Smith, C. and P. Jumars. 1987. Ecology of marine communities. **Science** 237: 576.
- 10) Smith, C.R., J.W. Deming, L.A. Levin, K.L. Smith and K. Wishner. 1987. Benthic biology. Pages 41-62 in: *Benthic Studies in GOFs. U.S. GOFs Planning Rep. No. 5*. U.S. GOFs Planning Office, Woods Hole, MA.
- 11) Smith, C.R., T.M.C. Present and P.A. Jumars. 1988. *Development of Benthic Biological Monitoring Criteria for Disposal of Low- Level Radioactive Wastes in the Abyssal Deep Sea*. EPA 520/1- 88-11, U.S.E.P.A., Washington, DC, 110 pp.

- 12) Wheatcroft, R.A., C.R. Smith and P.A. Jumars. 1989. Dynamics of surficial trace assemblages in the deep sea. **Deep-Sea Research** 36: 71-91.
- 13) Smith, C.R. and S. Brumsickle. 1989. The effects of patch-size and substrate isolation on colonization modes and rates in an intertidal sediment. **Limnology and Oceanography** 34: 1263-1277.
- 14) Archer, D., S. Emerson and C.R. Smith. 1989. Direct measurement of the diffusive sublayer at the deep-sea floor using oxygen microelectrodes. **Nature** 340: 623-626.
- 15) Smith, C.R., H. Kukert, R.A. Wheatcroft, P.A. Jumars and J.W. Deming. 1989. Vent fauna on whale remains. 1989. **Nature** 341: 27-28.
- 16) Wheatcroft, R.A., P.A. Jumars, C.R. Smith and A.R.M. Nowell. 1990. A mechanistic view of the particulate biodiffusion coefficient: step lengths, rest intervals and transport directions. **Journal of Marine Research** 48: 177-207.
- 17) Allison, P.A., C.R. Smith, B.A. Bennett, J. W. Deming, R.A. Wheatcroft, and H. Kukert. 1991. Deep water taphonomy of vertebrate carcasses: a whale skeleton in Santa Catalina Basin. **Paleobiology** 17:78-89.
- 18) Smith, C.R. 1991. Review of "The Deep Seabed. Its Physics, Chemistry and Biology," N. Charnock et al., eds. **Science** 251: 576-577.
- 19) Levin, L.A., S.E. Childers and C.R. Smith. 1991. Epibenthic agglutinating foraminifera in the Santa Catalina Basin and their response to disturbance. **Deep-Sea Research** 38:465-483.
- 20) Smith, C.R. 1992. Factors controlling bioturbation in deep-sea sediments and their relation to models of carbon diagenesis. Pp. 375-393 in: **Deep-Sea Food Chains and the Global Carbon Cycle**, G.T. Rowe and V. Pariente, eds., Kluwer, the Netherlands.
- 21) Smith, C.R., I.D. Walsh, and R.A. Jahnke. 1992. Adding biology to one-dimensional models of sediment-carbon diagenesis: the multi-B approach. Pp. 395-400 in: **Deep-Sea Food Chains and the Global Carbon Cycle**, G.T. Rowe and V. Pariente, eds., Kluwer, the Netherlands.
- 22) Kukert, H. and C.R. Smith. 1992. Disturbance, colonization and succession in a deep-sea sediment community: artificial-mound experiments. **Deep-Sea Research** 39: 1349-1371.
- 23) Smith, C.R. 1992. Whale falls: chemosynthesis at the deep-sea floor. **Oceanus** 35: 74-78.
- 24) Smith, C.R., R. Pope, D.J. DeMaster and L. Magaard. 1993. Age-dependent mixing in deep-sea sediments. **Geochim. Cosmoch. Acta** 57: 1473-1488.
- 25) Smith, C.R. 1993. Time-space scales of geological, geochemical and biological processes of interest to RIDGE scientists. **Ridge Events** Nov 1993: 20-21.

- 26) Smith, C.R. 1994. Tempo and mode in deep-sea benthic ecology: punctuated equilibrium revisited. **Palaios** 9 -13.
- 27) Bennett, B.A., C.R. Smith, B. Glaser and H. Maybaum. 1994. Habitat characteristics and faunal structure of a chemosynthetic community on whale bones in the deep northeast Pacific. **Mar. Ecol Progr. Ser.** 108: 205-223.
- 28) Smith, C.R. and H. Kukert. 1996. Macrobenthic community structure, secondary production and rates of bioturbation and sedimentation at the Kaneohe-Lagoon Floor. **Pacific Science** 50: 211-229.
- 29) Pope, R.H, D.J. DeMaster, C.R. Smith and H.J. Seltmann. 1996. Rapid particle mixing in equatorial Pacific sediments: evidence from excess  $^{234}\text{Th}$  measurements. **Deep-Sea Research II** 43: 1339-1364.
- 30) Smith, C.R., S.E. Doan, D.J. Hoover, R.H. Pope, D.J. DeMaster, F.C. Dobbs and M. Altabet. 1996. Phytodetritus at the abyssal seafloor across 10 degrees of latitude in the central equatorial Pacific. **Deep-Sea Research II** 43: 1309-1338.
- 31) Deming, J.W., A.-L. Reysenbach, S.A. Macko and C.R. Smith. 1997. Microbial diversity at a whale fall on the seafloor: Bone colonizing mats and animal-associated symbionts. **J. Microscopic Research and Technique**, 37: 162-170.
- 32) Stephens, M.P., D.C. Kadko, C.R. Smith and M. Latasa. 1997. Chlorophyll-*a* and pheopigments as tracers of labile organic carbon at the central equatorial Pacific seafloor. **Geochimica et Cosmochimica Acta**, 61: 4605-4619.
- 33) Smith, C.R., W. Berelson, D.J. DeMaster, F.C. Dobbs, D. Hammond, D.J. Hoover, R.H. Pope, and M. Stephens. 1997. Latitudinal variations in benthic processes in the abyssal equatorial Pacific: Controls by biogenic particle flux. **Deep-Sea Research II** 44:2295-2317.
- 34) Berelson, W., D. Hammond, J. Dymond, D. DeMaster, D. Hammond, R. Collier, S. Honjo, M. Leinen, J. McManus, R. Pope, C. Smith and M. Stephens. 1997. Biogenic budgets of rain, regeneration, and sediment accumulations in the equatorial Pacific. **Deep-Sea Research II** 44: 2251-2282.
- 35) Smith, C.R., H.L. Maybaum, R. H. Pope, A. R. Baco, S. Carpenter, P. L. Yager, S. Macko and J. W. Deming. 1998. Faunal community structure around a whale skeleton in the deep northeast Pacific Ocean: Macrofaunal, microbial and bioturbation effects. **Deep-Sea Research II**, 45, 45: 335-364.
- 36) Smith, C.R., L. A. Levin and L. S. Mullineaux. 1998. Deep-Sea Biodiversity: A tribute to Robert R. Hessler. **Deep-Sea Research II**, 45, 1-12.

- 37) Smith, C.R., L.S. Mullineaux and L.A. Levin (eds.). 1998. Deep-Sea Biodiversity: A Compilation of Recent Advances in Honor of Robert R. Hessler. **Deep-Sea Research II**, Volume 45, Nos. 1-2.
- 38) Feldman, R.A., T. M. Shank, M.B. Black, A.R. Baco, C.R. Smith and R.C. Vrijenhoek. 1998. Vestimentiferan on a whale fall. **Biological Bulletin**, 194: 116-119.
- 39) Smith, C.R. and A. R. Baco. 1998. Phylogenetic and functional affinities between whale-fall, see and vent chemoautotrophic communities. **Cah. Biol. Mar.** 39: 345-346.
- 40) Mangold, K. M., R. E. Young and C.R. Smith. 1998. In search of *Rossia pacifica diegensis* S.S. Berry, 1912. **American Malacological Bulletin**, 14, 185-187.
- 41) Smith, C.R. 1998. Review of *Marine Biodiversity: Pattern and Process*. **EOS, Transactions, America Geophysical Union**, May.
- 42) Baco, A.R., C.R. Smith, A.S. Peek, G.K. Roderick and R. C. Vrijenhoek. 1999. The phylogenetic relationships of whale-fall vesicomid clams based on mitochondrial cytochrome-oxidase 1 DNA sequences. **Marine Ecology Progress Series**, 182, 137-147.
- 43) Smallwood, B.J., B.J. Bett, C.R. Smith, J.D. Gage, A. Patience, D. Hoover and G.A. Wolff. 1999. Megafauna can control the quality of organic matter in marine sediments. **Naturwissenschaften**, 86, 320-324.
- 44) Smith, C.R. 1999. The biological environment of the nodule provinces of the deep-sea. Pp. 41-68 in: **Deep-Sea Polymetallic Nodule Exploration: Development of Environmental Guidelines**, International Seabed Authority, Kingston, Jamaica.
- 45) Gooday, A.J., S. A. Bowser, B. J. Bett and C. R. Smith. 2000. A remarkable new testate protist (Order Filosea) from the bathyal Arabian Sea. **Deep-Sea Research II**, 47, 55-74.
- 46) Smith, C.R., L.A. Levin, D.J. Hoover, G. McMurtry and J.D. Gage. 2000. Variations in bioturbation across the oxygen minimum zone in the northwest Arabian Sea. **Deep-Sea Research II**, 47, 227-258.
- 47) Williams, A.B., C.R. Smith and A. R. Baco. 2000. New species of the genus *Paralomis* White 1856 (Crustacea, Decapoda, Anomura, Lithodidae) from a sunken whale carcass in the San Clemente Basin off southern California. **Journal of Crustacean Biology**, 20 Special No. 2, 281-285.
- 48) Smith, C.R., M. Austen, G. Boucher, C. Heip, P. Hutchings, G. King, I. Koike, J. Lambshead and P. Snelgrove. 2000. Global change and biodiversity of marine sediments: Impacts and linkages across the sediment-water interface. **BioScience**, 50, No. 12: 1108 – 1120.

- 49) Snelgrove P.V.R., M. Austen, G. Boucher, C. Heip, P. Hutchings, G. King, I. Koike, J. Lamshead, and C. Smith. 2000. Sediments-up and water column-down: linking biodiversity above and below the marine sediment-water interface. **BioScience**, 50, No. 12: 1076 – 1088.
- 50) Miller, R.J., C.R. Smith, D.J. DeMaster and W. Fornes. 2000. Feeding selectivity and rapid particle processing by deep-sea megafaunal deposit feeders: a <sup>234</sup>Th tracer approach. **Journal of Marine Research**, 58: 653-673.
- 51) Distel, D.L., A.R. Baco, E. Chuang, C. Cavanaugh, W. Morrill and C.R. Smith. 2000. Do mussels take wooden steps to deep-sea vents? **Nature**, 403: 725-726.
- 52) Brown, C. J., P. J. D Lamshead, C. R. Smith, L. E. Hawkins and R. Farley. 2001. Phytodetritus and the abundance and biomass of abyssal nematodes in the central equatorial Pacific. **Deep-Sea Research I**, 48:555-565.
- 53) Fornes, W.L., D.J. DeMaster, and C.R. Smith. 2001. A particle introduction experiment in Santa Catalina Basin: Testing the age-dependent mixing hypothesis. **Journal of Marine Research**, 59, 97-112.
- 54) Levin, L. A., R. J. Etter, M. A. Rex, A. J. Gooday, C. R. Smith, J. Pineda, C. T. Stuart, R. R. Hessler and D. Pawson. 2001. Environmental influences on regional deep-sea species diversity. **Annual Review of Ecology and Systematics**, 32, 51-93.
- 55) Smith, C.R., D.J. DeMaster, and W.L. Fornes. 2001. Mechanisms of age-dependent mixing on the bathyal California margin: the young and the restless. In: **Organism-Sediment Interactions**, J. Aller, S. Woodin and R. Aller, eds., Belle W. Baruch Library in Marine Science, 263-278.
- 56) Snelgrove, P.V.R. and C. R. Smith. 2002. A riot of species in an environmental calm: the paradox of the species-rich deep-sea floor. **Oceanography and Marine Biology Annual Review**, 40, 311-342.
- 57) Smith, C.R. and C. Rabouille. 2002. What controls the mixed-layer depth in deep-sea sediments? The importance of POC flux. **Limnology and Oceanography**, 47, 418-426.
- 58) Austen, M.C., P. J. D. Lamshead, P.A. Hutchings, G. Boucher, P.V.R. Snelgrove, C. Heip, G. King, I. Koike, and C. R. Smith. 2002. Do biodiversity links above and below the marine sediment-water interface affect stability of benthic and pelagic communities? **Biodiversity and Conservation**, 11, 113-136.
- 59) Lamshead, P.J.D., C.J. Brown, T. J. Ferrero, C.R. Smith, L.E. Hawkins and J. Tietjen. 2002. Latitudinal diversity patterns of deep-sea marine nematodes and organic fluxes -- a test from the central equatorial Pacific. **Marine Ecology Progress Series**, 236: 129-135.

- 60) Glover, A.G., C. R. Smith, G.L.J. Paterson, G. D. F. Wilson, L. Hawkins and M. Sheader. 2002. Polychaete species diversity in the central Pacific abyss: local and regional patterns, and relationships with productivity. **Marine Ecology Progress Series**, 240:157-170.
- 61) Smith, C. R., A. Baco and A. Glover. 2002. Faunal Succession on Replicate Deep-Sea Whale Falls: time scales and vent-seep affinities. **Cah. Biol. Mar.**, 43, 293-297.
- 62) Lamshead, P. J. D., C. Brown, T. Ferrero, L. E. Hawkins, C. R. Smith and N. J. Mitchell. 2003. Biodiversity of nematode assemblages from the region of the Clarion-Clipperton Fracture Zone, an area of commercial mining interest. **BMC Ecology**, 3:1.
- 63) Smith, C.R. and A. R. Baco. 2003. The ecology of whale falls at the deep-sea floor. **Oceanography and Marine Biology Annual Review**, 41: 311-354.
- 64) Demopoulos, A.W.J., C.R. Smith, D.J. DeMaster, W. L. Fornes. 2003. Evaluation of excess  $^{234}\text{Th}$  activity in sediments as an indicator of food quality for deep-sea deposit feeders. **Journal of Marine Research**, 61: 267-284.
- 65) Glover, A. G. and C. R. Smith. 2003. The deep seafloor ecosystem: current status and prospects for change by 2025. **Environmental Conservation**, 30(3): 1-23.
- 66) Smith, C. R. and A.W. J. Demopoulos. 2003. Ecology of the deep Pacific Ocean floor. In: *Ecosystems of the World Volume 28: Ecosystems of the Deep Ocean*, P. A. Tyler, ed., Elsevier, Amsterdam, pp. 179 – 218.
- 67) Demopoulos, A. W. J., C. R. Smith and P. A. Tyler. 2003. Ecology of the deep Indian Ocean floor. In: *Ecosystems of the World Volume 28: Ecosystems of the Deep Ocean*, P. A. Tyler, ed., Elsevier, Amsterdam, 219 - 237.
- 68) Hannides, A. and C. R. Smith. 2003. The northeast abyssal Pacific plain. In: *Biogeochemistry of Marine Systems*, K. B. Black and G. B Shimmield, eds., CRC Press, Boca Raton, Florida, 208-237.
- 69) Baco, A. R. & Smith, C. R. 2003. High biodiversity levels on deep-sea whale skeletons. **Marine Ecology Progress Series** 260: 109-114.
- 70) Suhr, S.B., D.W. Pond, A. J. Gooday and C.R. Smith. 2003. Selective feeding by benthic foraminifera on phytodetritus on the western Antarctic Peninsula shelf: Evidence from fatty acid biomarker analyses. **Marine Ecology Progress Series**, 262: 153-162.
- 71) Smith, C. R. and C. Rabouille. 2004. Reply to comment by Boudreau on: What controls the mixed-layer depth in deep-sea sediments? The importance of POC flux. **Limnology and Oceanography**, 49: 623-624.
- 72) Schuller, D., D. Kadko, and C. R. Smith. 2004. Use of  $^{210}\text{Pb}/^{226}\text{Ra}$  disequilibria in the dating of deep-sea whale falls. **Earth and Planetary Science Letters** 218:277-289.

- 73) Debenham, N. J., P. J.D. Lamshead, T. J. Ferrero, and C. R. Smith. 2004. The impact of whale falls nematode abundance in the deep sea. **Deep-Sea Research I**, 51: 701-706.
- 74) Dahlgren, T. A. G. Glover, A. R. Baco and C. R. Smith. 2004. Fauna of whale falls: systematics and ecology of a new polychaete (Annelida: Chrysopetalidae) from the deep Pacific Ocean. **Deep-sea Research I**, 51: 1873-1887.
- 75) Mincks, S. L., C. R. Smith and D. J. DeMaster. 2005. Persistence of labile organic matter and microbial biomass in Antarctic shelf sediments: Evidence of a sediment “food bank.” **Marine Ecology Progress Series 300**: 3-19.
- 76) Floyd, R. M, A. D. Rogers, P. J. D. Lamshead, and C. R. Smith. 2005. Nematode-specific PCR primers for the 18S small subunit rRNA gene. **Molecular Ecology Notes 5**: 611-612.
- 77) Vetter, E.W. and C. R. Smith. 2005. Insights into the ecological effects of deep-ocean CO<sub>2</sub> enrichment: the impacts of natural CO<sub>2</sub> venting at Loihi Seamount on deep-sea scavengers. **Journal of Geophysical Research 110**: C09S13., 1-10.
- 78) Galley, E., P. Tyler, A. Clarke and C. R. Smith. 2005. The reproductive biology and biochemical composition of the brooding spatangoid echinoid *Amphipneustes lorioli* (Koehler 1901), on the bathyal continental shelf, west Antarctic Peninsula. **Marine Biology 148**: 59-71.
- 79) Glover, A. G., E. Goetz, T. G. Dahlgren and C. R. Smith. 2005. Investigation of the morphology, reproductive biology and population genetics of the whale-fall and hydrothermal vent specialist, *Bathypurila guaymasensis* Pettibone 1989 (Annelida: Polynoidae). **Marine Ecology 26**:1-13.
- 80) Glover, A. G, B. Källström, C. R. Smith, and T. G. Dahlgren. 2005. World-wide whale worms? A new species of *Osedax* from the shallow north Atlantic. **Proceedings of the Royal Society of London B 3275**: 1-4.
- 81) Smith, C. R. 2006. Bigger is better: The role of whales as detritus in marine ecosystems. In: *Whales, Whaling and Ocean Ecosystems*, J.A. Estes, D.P. DeMaster, R.L. Brownell Jr., D.F. Doak, and T.M. Williams (eds), Editors. University of California Press, Berkeley, CA, USA, pp. 286 – 301.
- 82) Smith, C. R., S. L. Mincks and D. J. DeMaster. 2006. A synthesis of benthic-pelagic coupling on the Antarctic Shelf Food banks, ecosystem inertia and global climate change. **Deep-Sea Research II 53**: 875-894.
- 83) Dahlgren, T.G., H. Wiklund, B. Källström, T. Lundälv, C. R. Smith, and A. G. Glover. A shallow water whale-fall experiment in the north Atlantic. 2006. **Cahiers de Biologie Marine 47**: 385-390.

- 84) Palacios, C., M. Zbinden, A. R. Baco, T. Treude, C. R. Smith, F. Gaill, P. Lebaron and A. Boetius. 2006. Microbial ecology of deep-sea sunken wood: quantitative measurements of bacterial biomass and cellulolytic activities. **Cahiers de Biologie Marine** 47: 415-420.
- 85) Mincks, S. L. and C. R. Smith. 2007. Recruitment patterns in Antarctic Peninsula shelf sediments: Evidence of decoupling from seasonal phytodetritus pulses. **Polar Biology** 30:587–600.
- 86) Demopoulos, A.W.J., B. Fry, B. and C.R. Smith. 2007. Food-web structure in exotic and native mangroves: a Hawaii-Puerto Rico comparison. **Oecologia**,153:675–686.
- 87) Smith, C. R., L. A. Levin, A. Koslow, P. A. Tyler and A. G. Glover. 2008. The near future of deep seafloor ecosystems. In: *Aquatic Ecosystems: Trends and global prospects*, N. Polunin, ed., Cambridge University Press, pp. 334-351.
- 88) Smith, C. R., S. Mincks, and D. J.DeMaster. 2008. The FOODBANCS Project: Introduction and sinking fluxes of organic carbon, chlorophyll-*a* and phytodetritus on the western Antarctic Peninsula shelf. **Deep-Sea Research II** 55: 2404-2414
- 89) Wigham B.D., E.A. Galley, C.R. Smith and P.A. Tyler. 2008. Seasonality and resource partitioning in the diets of deep-water Antarctic echinoderms. **Deep-Sea Research II** 55: 2478-2490.
- 90) Galley, E.A., P. A. Tyler, C. R. Smith and A. Clarke . 2008. Reproductive biology of two species of holothurian from the deep-sea order Elaspoda, on the Antarctic continental shelf. **Deep-Sea Research II** 55: 2515-2526.
- 91) Waller, R.G., P.A. Tyler and C.R. Smith. 2008. Fecundity and embryo development of three Antarctic deepwater scleractinians: *Flabellum thourssi*, *F. curvatum*, and *F. impensum*. **Deep Sea Research II** 55: 2527-2525.
- 92) Mincks, S. L., C.R. Smith, R. Jeffreys and P. Y. Sumida. 2008. Trophic relationships among benthic megafauna on the western Antarctic Peninsula Shelf: A stable isotope approach. **Deep-Sea Research II** 55: 2502-2514
- 93) Sumida, P.Y.G.,A.F. Bernardino, V.P. Stedall and C.R. Smith. 2008. Temporal changes in benthic megafaunal abundance and composition across the West Antarctic Peninsula shelf: results from video surveys. **Deep-Sea Research II** 55: 2465-2477.
- 94) Hartnett, H., S. Boehm, C. Thomas, D. DeMaster and C.R. Smith. 2008. Benthic oxygen fluxes and denitrification rates from high-resolution porewater profiles from the Western Antarctic Peninsula Continental Shelf. **Deep-Sea Research II** 55: 2415-2424.
- 95) Purinton, B.L., D. J. DeMaster, C. J. Thomas and C. R. Smith. 2008. <sup>14</sup>C as a Tracer of Labile Organic Matter in Antarctic Benthic Food Webs. **Deep-Sea Research II** 55: 2438-2450.

- 96) Glover, A. G., C. R. Smith, S. L. Mincks, P. Y Sumida and A. Thurber. 2008. Temporal and spatial patterns in macrofaunal abundance and community structure on the West Antarctic Peninsula continental shelf. **Deep-Sea Research II** 55: 2491-2501.
- 97) McClintic, M. A., D. J. DeMaster, C. J. Thomas and C. R. Smith. 2008. Testing the FOODBANCS Hypothesis: Determining seasonal variations in near-bottom particle flux, bioturbation intensity, and the feeding continuity and selectivity of deposit feeders. **Deep-Sea Research II** 55: 2425-2437.
- 98) Smith, C. R. and J. DeMaster. 2008. Preface and brief synthesis for the FOODBANCS volume. **Deep-Sea Research II** 55: 2399-2403
- 99) Smith, C. R. , F. C. De Leo, A. F. Bernardino, A. K. Sweetman and P. Martinez Arbizu. 2008. Abyssal Food Limitation, Ecosystem Structure and Climate Change. **Trends in Ecology and Evolution** 23: 518-528.
- 100) Stuart, C.T., P. Martinez Arbizu, C.R. Smith, T. Molodtsova, A. Brandt, R.J. Etter, E. Escobar-Briones, M.C. Fabri, and M.A. Rex. 2008. CeDAMar global database of abyssal biological sampling. **Aquatic Biology** 4: 143–145.
- 101) Glover, A. G, K. Kemp, C. Smith and T. Dahlgren. 2008. On the role of bone-eating worms in the degradation of marine vertebrate remains. **Proceedings of the Royal Society B** 275: 1959–1961.
- 102) Agostini, V., A. Salvatore Arico, E. Escobar Briones, M. Clark , K. Gjerdes, S. Grant, D. Niewijk, A. Polacheck, J. rice, J. Roff, K. Scanlon, C.R. Smith, M. Spalding, E. Tong, M. Vierros, and L. Watling. 2009. *Global Open Oceans and Deep Seabed (GOODS) – Biogeographic Classification*. Paris, UNESCO-IOC. (IOC Technical Series, 84.)
- 103) Mincks, S. L., P. L. Dyal, G. L. J. Paterson, C. R. Smith and A. G. Glover. 2009. An abundant new species of *Aurospio* (Annelida, Spionidae) from Antarctica, with analysis of its ecology, reproductive biology and evolutionary history. **Marine Ecology**, in press.
- 104) Galley, E.A., P. A. Tyler, A. Clarke and C.R. Smith. Reproductive biology of bathyal echinoderms *Sterechinus antarcticus* and *Psilaster charcoti* on the Antarctic Continental shelf. Submitted to **Marine Ecology Progress Series**.
- 105) Smith, Craig R.. Organic Falls on the Ocean Floor. 2009. In: *The Encyclopedia of Islands*, R. Gillespie and D. Clague, eds., University of California Press, in press.
- 106) Baco, A.R. , A. A. Rowden, L. A. Levin and C. R. Smith. 2009. Initial Characterization of Cold Seep Faunal Communities on the New Zealand Margin. **Marine Geology**, in press.

- 107) Treude, T., C. R. Smith, F. Wenzhöfer, E. Carney, A. F. Bernardino, A. K. Hannides, M. Krüger, A. Boetius. 2009. Biogeochemistry of a deep-sea chemosynthetic whale fall: rates and patterns of microbial sulfur and carbon metabolism. **Marine Ecology Progress Series**, in press.

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