

**TABLE 1.1: PAL Publications 2003-2008 (93 total).**

**1. refereed journal articles and proceedings (69).**

1. Ainley, D.G., Ballard, G., Emslie, S.D., Fraser, W.R., Wilson, P.R., Woehler, E.J., 2003. Adelie penguins and environmental change. *Science* 300 (5618), 429.
2. Ainley, D.G., Clarke, E.D., Arrigo, K., Fraser, W.R., Kato, A., Barton, K.J., Wilson, P.R., 2005. Decadal-scale changes in the climate and biota of the Pacific sector of the Southern Ocean, 1950s to the 1990s. *Antarctic Science* 17, 171-182.
3. Baker, K.S., Gold, A.K., Sudholt, F., 2003. FLOW: co-constructing low barrier repository infrastructure in support of heterogeneous knowledge collection(s). *Proceeding of the 2003 Joint Conference on Digital Libraries(JCDL'03)*, 27 May - 31 June, Houston, Texas. IEEE Computer Society, New Brunswick, NJ, p. 397.
4. Baker, K.S., 2004. Ecological Design: an interdisciplinary, interactive participation process in an information environment. *Proceedings of the 1st Workshop on Requirements Capture for Collaboration in eScience*, 14-15 January 2004, pp. 5-7.
5. Baker, K.S., Jackson, S.J., 2004. Ecological Design, Collaborative Care, and Ocean Informatics. *Proceedings of the Participatory Design Conference*, 27-31 July, Toronto, Canada. CPSR, Palo Alto, CA.
6. Baker, K.S., Jackson, S.J., Wanetick, J.R., 2005a. Strategies Supporting Heterogeneous Data and Interdisciplinary Collaboration: Towards an Ocean Informatics Environment. *Proceedings of the 38th Hawaii International Conference on System Sciences (HICSS) 2005*, 3-6 January, Big Island, Hawaii. IEEE, New Brunswick, NJ, pp. 1-10.
7. Baker, K.S., Ribes, D., Millerand, F., Bowker, G.C., 2005b. Interoperability Strategies for Scientific Cyberinfrastructure: Research and Practice. *American Society for Information Systems and Technology (ASIS&T 2005) Annual Meeting*, October 28-November 2, 2005, Charlotte, North Carolina.
8. Baker, K.S., Millerand, F., 2007a. Scientific infrastructure design: information environments and knowledge provinces. *Proceedings of the American Society for Information Science and Technology (ASIS&T 2007)*, Milwaukee, WI.
9. Baker, K.S., Millerand, F., 2007b. Articulation Work Supporting Information Infrastructure Design: Coordination, Categorization, and Assessment in Practice. *Proceedings of the 40th Hawaii International Conference on Science Systems, HICSS40*. IEEE Computer Society, Big Island, Hawaii.
10. Baker, K.S., Millerand, F., 2007c. Scientific Information Infrastructure Design: Information Environments and Knowledge Provinces. *Proceedings of the American Society for Information Science and Technology ASIST*, Milwaukee, WI, pp. 1-6.
11. Baker, K.S., Stocks, K.I., 2007. Building Environmental Information Systems: Myths and Interdisciplinary Lessons. *Proceedings of the 40th Hawaii International Conference on System Sciences, HICSS40*. IEEE Computer Society, Big Island, Hawaii.

12. Baker, K.S., Bowker, G.C., 2007. Information ecology: open system environment for data, memories and knowing. *JIS Journal of Intelligent Information Systems: BDEI Special Issue* 29, 127-144.
13. Carrillo, C.J., Smith, R.C., Karl, D.M., 2004. Processes regulating oxygen and carbon dioxide in surface waters west of the Antarctic Peninsula. *Marine Chemistry* 84 (3-4), 161-179.
14. Chapman, E.W., Ribic, C.A., Fraser, W.R., 2004. The distribution of seabirds and pinnipeds in Marguerite Bay and their relationship to physical features during austral winter 2001 *Deep Sea Research II* 51 (17-19), 2261-2278
15. Chapman, E.W., Hofmann, E.E., Fraser, W.R., 2008. Modelling the influence of variability in Antarctic krill (*Euphausia superba*) spawning behavior and sex/maturity stage distribution on Adélie penguin (*Pygoscelis adeliae*) prey quality and chick growth. *Deep Sea Research II* (in press).
16. Chiuchiolo, A.L., Dickhut, R.M., Cochran, M.A., Ducklow, H.W., 2004. Persistent Organic Pollutants at the Base of the Antarctic Marine Food Web. *Environmental Science & Technology* 38 (13), 3551-3557.
17. Church, M.J., DeLong, E.F., Ducklow, H.W., Karner, M.B., Preston, C.M., Karl, D.M., 2003. Abundance and distribution of planktonic Archaea and Bacteria in the waters west of the Antarctic Peninsula. *Limnology and Oceanography* 48, 1893-1902.
18. Clarke, A., Murphy, E.J., Meredith, M.P., King, J.C., Peck, L.S., Barnes, D.K.A., Smith, R.C., 2007. Climate change and the marine ecosystem of the western Antarctic Peninsula. *Philosophical Transactions of the Royal Society B: Biological Sciences* 362 (1477), 149-166.
19. Clarke, A., Meredith, M.P., Wallace, M.I., Brandon, M.A., Thomas, D.N., 2008. Seasonal and interannual variability in temperature, chlorophyll and macronutrients in northern Marguerite Bay, Antarctica. *Deep Sea Research II* 55, 000-000 (accepted).
20. Convey, P., Scott, D., Fraser, W.R., 2003. Biophysical and habitat changes in response to climate alteration in the Arctic and Antarctic. In: Hannah, L., Lovejoy, T. (Eds.), *Climate Change and Biodiversity: Synergistic Impacts*, Series: *Advances in Applied Biodiversity Science (AABS)*. Conservation International, Center for Applied Biodiversity Science (CABS) Washington, DC pp. 77-82.
21. Daniels, R.M., Ducklow, H.W., Richardson, T.L., 2006. Food web structure and biogeochemical processes during oceanic phytoplankton blooms: An inverse model analysis. *Deep-Sea Research II* 53, 532-554.
22. Dickhut, R.M., Cincinelli, A., Cochran, M., Ducklow, H.W., 2005. Pesticides along the Western Antarctic Peninsula. *Environmental Science and Technology* 39, 465-470.
23. Ducklow, H.W., Fraser, W., Karl, D.M., Quetin, L.B., Ross, R.M., Smith, R.C., Stammerjohn, S.E., Vernet, M., Daniels, R.M., 2006. Water column processes in the West Antarctic Peninsula and the Ross Sea: foodweb structure and interannual variability.. *Deep-Sea Research II* 53, 834-852.

24. Ducklow, H.W., Baker, K., Martinson, D.G., Quetin, L.B., Ross, R.M., Smith, R.C., Stammerjohn, S.E., Vernet, M., Fraser, W., 2007. Marine ecosystems: The West Antarctic Peninsula. *Philosophical Transactions of the Royal Society of London B* 362, 67-94.
25. Ducklow, H.W., Erickson, M., Kelly, J., Smith, R.C., Stammerjohn, S.E., Vernet, M., Karl, D.M., 2008. Particle export from the upper ocean over the continental shelf of the west Antarctic Peninsula: A long-term record, 1992-2006. *Deep Sea Research II* 55:000-000 (accepted).
26. Fraser, W.R., Hofmann, E.E., 2003. A predator's perspective on causal links between climate change, physical forcing and ecosystem response. *Marine Ecology Progress Series* 265, 1-15.
27. Fraser, W.R., Ribic, C.A., Patterson-Fraser, D.L., Erdman, E.S., Chapman, E.W., 2008. The winter foraging ecology of Adélie penguins in the western Antarctic Peninsula during two years of contrasting winter sea ice conditions. *Deep Sea Research II*, 55:000-000 (accepted)
28. Friedlaender, A.S, Fraser, W.R., Patterson-Fraser, D.L., Qian, S.S., Halpin, P.N. 2008. The effects of prey demography on cetacean community structure around the western Antarctic Peninsula. *Polar Biology* (accepted).
29. Gales, N.J., Fraser, W.R., Costa, D.P., Southwell, C., 2004. Do crabeater seals forage cooperatively? *Deep Sea Research Part II* 51 (17-19), 2305-2310.
30. Garibotti, I.A., Vernet, M., Ferrario, M.E., Smith, R.C., Ross, R.M., Quetin, L.B., 2003. Phytoplankton spatial distribution patterns along the Western Antarctic Peninsula (Southern Ocean). *Marine Ecology Progress Series* 261, 21-39.
31. Garibotti, I.A., Vernet, M., Kozlowski, W.A., Ferrario, M.E., 2003. Composition and biomass of phytoplankton assemblages in coastal Antarctic waters: a comparison of chemotaxonomic and microscopic analyses. *Marine Ecology Progress Series* 247, 27-42.
32. Garibotti, I.A., Vernet, M., Smith, R.C., Ferrario, M.E., 2005. Interannual variability in the distribution of the phytoplankton standing stock across the seasonal sea-ice zone west of the Antarctic Peninsula. *J. Plankton Res.* 27 (8), 825-843.
33. Garibotti, I.A., Vernet, M., Ferrario, M.E., 2005. Annually recurrent phytoplanktonic assemblages during summer in the seasonal ice zone west of the Antarctic Peninsula (Southern Ocean). *Deep Sea Research II* 52, 1823-1841.
34. Gauthier-Clerc, M., Gendner, J.-P., Ribic, C.A., Fraser, W.R., Woehler, E.J., Descamps, S., Gilly, S., Le Bohec, C., Le Maho, Y. Long-term effects of flipper bands on penguins. 2004. *Proceedings of the Royal Society of London B* 271: 423-426.
35. Greenland, D., Hayden, B.P., Magnuson, J.J., Ollinger, S.V., Pielke, R.A., Sr., Smith, R.C., 2003. Long-term research on biosphere-atmosphere interactions. *BioScience* 53 (1), 33-45.
36. Haberman, K.L., Quetin, L.B., Ross, R.M., 2003. Diet of the Antarctic krill (*Euphausia superba* Dana) I. Comparisons of grazing on *Phaeocystis antarctica* (Karsten) and *Thalassiosira antarctica* (Comber). *Journal of Experimental Marine Biology and Ecology* 283 (1-2), 79-95.
37. Haberman, K.L., Ross, R.M., Quetin, L.B., 2003. Diet of the Antarctic krill (*Euphausia superba* Dana) II. Selective grazing on mixed phytoplankton assemblages. *Journal of Experimental Marine Biology and Ecology* 283 (1-2), 97-113.

38. Hader, D.P., Kumar, H.D., Smith, R.C., Worrest, R.C., 2003. Aquatic ecosystems: effects of solar ultraviolet radiation and interactions with other climatic change factors. *Photochemical and Photobiological Sciences* 2, 39-50.
39. Karasti, H., Baker, K.S., Bowker, G.C., 2003. Proceedings of the Computer Supported Scientific Collaboration Workshop, Eighth European Conference on Computer Supported Cooperative Work (ECSCW2003). Department of Information Processing Science Research Paper Series. University of Oulu, Helsinki, Finland.
40. Karasti, H., Baker, K.S., 2004. Infrastructuring for the long-term: ecological information management. Proceedings of the Hawai'i International Conference on SystemSciences (HICSS) 2004, 5-8 January, Big Island, Hawaii. IEEE, New Brunswick, NJ.
41. Karasti, H., Baker, K.S., Halkola, E., 2006. Enriching the Notion of Data Curation in e-Science: Data Managing and Information Infrastructuring in the the Long Term Ecological Research (LTER) Network. *Journal of Computer Supported Cooperative Work: The Journal of Collaborative Computing, Special Issue on Collaboration in e-Research* 15 (4), 321-358.
42. Kawaguchi, S., Finley, L.A., Jarman, S., Candy, S.G., Ross, R.M., Quetin, L.B., Siegel, V., Trivelpiece, W., Naganobu, M., Nicol, S., 2007. Male krill grow fast and die young. *Marine Ecology Progress Series* 345, 199-210.
43. Martin, D.L., Ross, R., Quetin, L.B., Murray, A.E., 2006. Molecular approach (PCR-DGGE) to diet analysis in young Antarctic krill *Euphausia superba*. *Marine Ecology Progress Series* 319, 155-165.
44. Martinson, D.G., Stammerjohn, S.E., Smith, R.C., Iannuzzi, R.A., 2008. Palmer, Antarctica, Long-Term Ecological Research program first 12 years: physical oceanography, spatio-temporal variability. *Deep Sea Research II*, 55:000-000 (accepted).
45. Massom, R.A., Stammerjohn, S.E., Smith, R.C., Pook, M.J., Iannuzzi, R.A., Adams, N., Martinson, D.G., Vernet, M., Fraser, W.R., Quetin, L.B., Ross, R.M., Massom, Y., Krouse, H.R., 2006. Extreme Anomalous Atmospheric Circulation in the West Antarctic Peninsula Region in Austral Spring and Summer 2001/02, and Its Profound Impact on Sea Ice and Biota. *Journal of Climate* 19 (15), 3544-3571.
46. Massom, R.A., Stammerjohn, S.E., Lefebvre, W., Harangozo, S.A., Adams, N., Scambos, T., Pook, M.J., Fowler, C., 2007. West Antarctic Peninsula sea ice in 2005: extreme compaction and ice edge retreat due to strong climate anomaly. *Journal of Geophysical Research* (in press).
47. Moline, M.A., Claustre, H., Frazer, T.K., Schofield, O., Vernet, M., 2004. Alteration of the food web along the Antarctic Peninsula in response to a regional warming trend. *Global Change Biology* 10 (12), 1973-1980.
48. Montes-Hugo, M. A., M.V., Smith, R.C., Carder, K., 2007. Phytoplankton size-structure on the western shelf of the Antarctic Peninsula: remote sensing approach. *International Journal of Remote Sensing* in press.
49. Montes-Hugo, M.A., Ducklow, H.W., Schofield, O.M., Vernet, M., 2007. Contribution of heterotrophic bacteria to particulate beam attenuation in polar and non-polar marine waters. *Geophysical Research Letters* (submitted).

50. Montes-Hugo, M.A., Vernet, M., D. Martinson, Smith, R.C., Iannuzzi, R., 2008. Variability on Phytoplankton Size Structure in the Western Antarctic Peninsula (1997-2006). *Deep-Sea Research II*, 55:000-000 (accepted).
51. Patterson, D.L., Woehler, E.J., Croxall, J.P., Cooper, J., Poncet, S., Fraser, W.R., 2004. Breeding distribution and population status of the Northern Giant Petrel *Macronectes halli* and the Southern Giant Petrel *M. giganteus* (in press). *Marine Ornithology*.
52. Perovich, D.K., Elder, B.C., Claffey, K.J., Stammerjohn, S.E., Smith, R.C., Ackley, S.F., Krouse, H.R., Gow, A.J., 2004. Winter sea-ice properties in Marguerite Bay, Antarctica. *Deep Sea Research II* 51, 2023-2039.
53. Quetin, L.B., Ross, R.M., 2003. Episodic recruitment in Antarctic krill, *Euphausia superba*, in the Palmer LTER study region. *Marine Ecology Progress Series* 259, 185-200.
54. Quetin, L.B., Ross, R.M., Frazer, T.K., Amsler, M.O., Wyatt-Evens, C., Oakes, S.A., 2003. Growth of larval krill, *Euphausia superba*, in fall and winter west of the Antarctic Peninsula. *Marine Biology* 143 (5), 833-843.
55. Ribes, D., Baker, K.S., Millerand, F., Bowker, G.C., 2005. Comparative Interoperability Project: Configurations of Community, Technology, Organization. Proceedings of the Fifth ACM/IEEE-CS Joint Conference on Digital Libraries (JCDL'05), June 07-11, Denver, CO, USA, pp. 65-66.
56. Ribes, D., Baker, K.S., 2006. Elements of Social Science Engagement in Information Infrastructure Design. Seventh Annual International Conference on Digital Government Research DGO, San Diego, CA, p. 450.
57. Ribes, D., Baker, K.S., 2007. Modes of Social Science Engagement in Community Information Infrastructure Design. *Communities and Technologies*. Springer, Michigan State University, pp. 107-130.
58. Ribic, C.A., Cary, J., Gauthier-Clerc, M., Le Maho, Y., Le Bohec, C., Gendner, J.P., Fraser, W.R., Woehler, E.J. 2008. Demographic Consequences of Banding King Penguins: A Modeling Approach. *Polar Biology* (in press).
59. Ribic, C.A., Chapman, E., Fraser, W.R., Lawson, G.L., Wiebe, P.H. 2008. Top predators in relation to bathymetry, ice, and krill during austral winter in Marguerite Bay, Antarctica. *Deep Sea Research II* (in press).
60. Ross, R.M., Quetin, L.B., 2003. Working with living krill - the people and the places. *Marine and Freshwater Behaviour and Physiology* 36 (4), 207-228.
61. Ross, R.M., Quetin, L.B., Martinson, D.G., Iannuzzi, R.J., Stammerjohn, S., Smith, R.C., 2008. Palmer LTER: Patterns of Distribution of Five Dominant Zooplankton Species in the Epipelagic Zone West of the Antarctic Peninsula, 1993 - 2004. *Deep Sea Research II*, 55:000-000 (accepted).
62. Shearn-Bochsler, V., Green, D.E., Converse, K.A., Docherty, D.E., Thiel, T., Geisz, H.N., Fraser, W.R., Patterson-Fraser, D.L. 2008. Avian poxvirus infection in a nestling Southern Giant Petrel (*Macronectes giganteus*) from Antarctica. *Polar Biology* (in press).

63. Siegel, V., Ross, R.M., Quetin, L.B., 2003. Krill (*Euphausia superba*) recruitment indices from the western Antarctic Peninsula: are they representative of larger regions? *Polar Biology* 26, 672-679.
64. Siniff, D.B., Garrott, R.A., Rotella, J. J., Fraser, W.R., Ainley, D.G. 2008. Projecting the Effects of Environmental Change on Antarctic Seals. *Antarctic Science* (in press).
65. Smith, R.C., Martinson, D.G., Stammerjohn, S.E., Iannuzzi, R.A., Ireson, K., 2008. Western Antarctic Peninsula Sea-Ice and Pigment Biomass (1997-2003) Regional Domain Spatial/Temporal Distributions and Variability. *Deep Sea Research II*, 55:000-000 (accepted).
66. Stammerjohn, S.E., Drinkwater, M.R., Smith, R.C., Liu, X., 2003. Ice-atmosphere interactions during sea-ice advance and retreat in the western Antarctic Peninsula region. *Journal of Geophysical Research* 108 (C10), 10.1029/2002JC001543.
67. Stammerjohn, S.E., Martinson, D.G., Smith, R.C., Iannuzzi, R.A., 2008a. Sea ice in the Palmer LTER region: spatio-temporal variability from ecological and climate change perspectives. *Deep Sea Research II*, 55:000-000 (accepted).
68. Stammerjohn, S.E., Martinson, D.G., Smith, R.C., Yuan, X., Rind, D., 2008b. Trends in Antarctic Annual Sea Ice Retreat and Advance and their Relation to ENSO and Southern Annular Mode Variability. *Journal of Geophysical Research* in press.
69. Vernet, M., Martinson, D.G., Iannuzzi, R.A., Stammerjohn, S.E., Kozłowski, W.A., Sines, K., Smith, R.C., 2008. Control of Primary Production by Sea Ice Dynamics in the Western Antarctic Peninsula. *Deep Sea Research II*, 55:000-000 (accepted).

## **2. books and edited volumes (3)**

1. Greenland, D., Goodin, D.G., Smith, R.C. (Eds.), *Climate variability and ecosystem response at Long-Term Ecological Research Sites* Oxford University Press, New York.
2. Hooper, M., 2007. *The Ferocious Summer. Palmer's penguins and the warming of Antarctica.* Profile Books, London.
3. Ducklow, H.W. 2008 (accepted). *Marine ecology, climate and oceanography of the western Antarctic Peninsula.* *Deep-Sea Research II*, 55:000-000.

## **3. book chapters (16)**

1. Chapin, F.S., Berman, M., Callaghan, T.V., Convey, P., Crepin, A.-S., Danell, K., Ducklow, H., Forbes, B., Kofinas, G., McGuire, A.D., Nuttall, M., Virginia, R., Young, O., Zimov, S.A., 2005. Polar Systems. In: Hassan, R., Scholes, R., Ash, N. (Eds.), *Ecosystems and Human Well-being: Current State and Trends.* Island Press, Washington, DC, pp. 717-743.
2. Ducklow, H.W., 2003. Seasonal production and bacterial utilization of DOC in the Ross Sea, Antarctica. In: DiTullio, G. (Ed.), *Biogeochemical Cycles in The Ross Sea.* American Geophysical Union., Washington, DC, pp. 143-158.
3. Ducklow, H.W., Oliver, J.L., W. O. Smith, J., 2003. The role of iron as a limiting nutrient for marine plankton processes. In: Melillio, J., Field, C., Moldan, B. (Eds.), *Interactions of the Major Biogeochemical Cycles: Global Change and Human Impacts.* Island Press, Washington, DC, pp. 295-310.

4. Ducklow, H.W., McCallister, S.L., 2004. Chapter 9. The biogeochemistry of carbon dioxide in the coastal oceans. In: Robinson, A.R., Brink, K., Rothschild, B.J. (Eds.), *The Sea. Volume 13 - The Global Coastal Ocean: Multiscale Interdisciplinary Processes*. Harvard University Press, Cambridge, MA, pp. 269-315.
5. Ducklow, H.W., Yager, P.L., 2006. Pelagic bacterial processes in polynyas. In: W. O. Smith, J., Barber, D. (Eds.), *Polynyas: Windows into Polar Oceans*. Elsevier/CRC, New York, pp. 323-362.
6. Ducklow, H.W., 2007. Southern Ocean: Biogeochemistry. In: Riffenburgh, B. (Ed.), *Encyclopedia of the Antarctic*. Routledge, New York, pp. 942-945.
7. Goodin, D.G., Smith, R.C., 2003. Century to Millennial Scale - synthesis. In: Greenland, D., Goodin, D.G., Smith, R.C. (Eds.), *Climate variability and ecosystem response at Long-Term Ecological Research Sites* Oxford University Press, New York, pp. 384-388.
8. Greenland, D., Goodin, D.G., Smith, R.C., 2003. An introduction to climate variability and ecosystem response. In: Greenland, D., Goodin, D.G., Smith, R.C. (Eds.), *Climate variability and ecosystem response at Long-Term Ecological Research Sites* Oxford University Press, New York, pp. 3-19.
9. Greenland, D., Goodin, D.G., Smith, R.C., Swanson, F.J., 2003. Climate variability and ecosystem response - synthesis. In: Greenland, D., Goodin, D.G., Smith, R.C. (Eds.), *Climate variability and ecosystem response at Long-Term Ecological Research Sites* Oxford University Press, New York, pp. 425-449.
10. Moline, M.A., N.J. Karnovsky, Z. Brown, G.J. Divoky, T.R. Frazer, C.A. Jacoby, J.J. Torres, and W.R. Fraser. 2008. High Latitude Changes in Ice Dynamics and Their Impact on Polar Marine Ecosystems. In: *The Year in Ecology and Conservation Biology* (Ostfeld, R.S. and W.H. Schlesinger, eds.) Volume 1. New York Academy of Sciences. Wiley-Blackwell Publishing, Hoboken, New Jersey (accepted).
11. Patterson, D.L., Easter-Pilcher, A., Fraser, W.R., 2003. The effects of human activity and environmental variability on long-term changes in Adelie penguin populations at Palmer Station, Antarctica. In: Huiskes, A.H.L., Gieskes, W.W.C., Rozema, J., Schorno, R.M.L., van der vies, S.M., Wolff, W.J. (Eds.), *Antarctic Biology in a Global Context*. Backhuys Publishers, Leiden, pp. 301-307.
12. Smith, R.C., 2003. Century to Millennial Timescale - Introductory Overview. In: Greenland, D., Goodin, D.G., Smith, R.C. (Eds.), *Climate variability and ecosystem response at Long-Term Ecological Research Sites* Oxford University Press, New York, pp. 317-318.
13. Smith, R.C., Fraser, W.R., Stammerjohn, S.E., 2003a. Climate variability and ecological response of the marine ecosystem in the western Antarctic Peninsula (WAP) region In: Greenland, D., Goodin, D.G., Smith, R.C. (Eds.), *Climate variability and ecosystem response at Long-Term Ecological Research Sites* Oxford University Press, New York pp. 158-173.
14. Smith, R.C., Fraser, W.R., Stammerjohn, S.E., Vernet, M., 2003b. Palmer Long-Term Ecological Research on the Antarctic Marine Ecosystem. In: Domack, E., Leventer, A., Burnett, A., Bindshadler, R., Convey, P., Kirby, M. (Eds.), *Antarctic Peninsula Climate Variability: Historical and Paleoenvironmental Perspective*. American Geophysical Union, Washington, DC, pp. 131-144.

15. Smith, R.C., Yuan, X., Liu, J., Martinson, D.G., Stammerjohn, S.E., 2003c. The quasi-quintennial time scale - synthesis. In: Greenland, D., Goodin, D.G., Smith, R.C. (Eds.), *Climate variability and ecosystem response at Long-Term Ecological Research Sites* Oxford University Press, New York, pp. 196-206.
16. Smith, R.C. and C.D. Mobley. 2008. "Underwater Light" in: *Photobiology, The Science of Life and Light*, 2nd ed, edited by Lars Olof Bjorn, Springer.

#### **4. dissertations and theses (5)**

1. Chiuchiolo, A.L., 2003. Persistent organic pollutants at the base of the Antarctic marine foodweb. M. Sc., The College of William & Mary, Gloucester Point, VA.
2. Daniels, R.M., 2003. Inverse model analysis of plankton foodwebs in the North Atlantic and Western Antarctic Peninsula. M. Sc., The College of William and Mary, Gloucester Point.
3. Stammerjohn, S. E., 2005. Seasonal Ice-Atmosphere-Ocean Interactions in the Pacific Sector of the Southern Ocean: Sensitivity and Response to Climate Anomalies, Ph.D. thesis, Columbia University, New York.
4. Oakes, Stephanie. 2007. A Winter Growth Model for Young Antarctic Krill Based on New Insights about Winter Feeding. PhD, University of California-Santa Barbara.