Karen Elaine Fisher Favret Spatial Temporal Earth, LLC 571-241-5231

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Education	
Cornell University, Ithaca NY	Ph.D. Aug, 2002
Ecology and Evolutionary Biology Biological Oceanography	
Dalhousie University, Halifax NS	M.Sc. Apr, 1996
Biological Oceanography	•
University of California, Berkeley CA	A.B. Dec, 1991
Earth Science and Economics	
Employment	
Spatial Temporal Earth, LLC, Sole Proprietor	2010-present
Event-based analysis of ocean color imagery/IC Consultant	_
Los Alamos National Laboratory, Technical Staff Member	2005-2009
Office of the Chief Scientist IPA to Intelligence Community 2007-2009	
Los Alamos National Laboratory, Postdoctoral Research Associate	2003-2005
Physics-based analysis of dynamic experimentation and simulation	2002 2002
San Francisco State University, Lecturer-Romberg Tiburon Center	2002-2003
(Postdoc) Historical analysis of plankton distributions in San Francisco Bay	
Research/Fellowships/Internships	
Woods Hole Oceanographic Inst. Visiting Scientist	2002-present
NASA Earth System Science Fellowship	1998-2001
Volumetric Assessment of Factors Governing Seasonal and Interannual	1,,, 0 = 001
Fluxes of Phytoplankton on Georges Bank 1994 to 1999 and	
Application to SeaWiFS Data for New Production Calculations	
Cornell Biogeochemistry Research Training Grant	1997, 2000, 2001
Stable Isotope Ratios determined by Mass Spec. used in relating trophic	
interactions to spatial/temporal variation in plankton composition	1006 1000 2002
Woods Hole Oceanographic Inst. Visiting Student Advisor Peter Wiebe	1996, 1999-2002
Sigma Xi Travel Grant for presentation of MSc. Research	1997 (Feb)
U.S. Antarctic Program/ U.C. Santa Barbara Intern Long Term Ecological Research Program: Palmer Station & R/V Polar Duke	1996 (Jan-Mar)
Bioacoustical Oceanography Workshop UCSC	1995, 1996
Applying basic principles of active & passive acoustics	1995, 1990
NASA/University of Maryland Summer Fellowship	1992 (Jun-Aug)
Program in Remote Sensing of the Oceans, Advisor Chuck McClain	(6)
Cal on Campus Internship, U.C. Berkeley Office of the President	1990
Community Service	
MetroDogs Community Canine SAR Team coordinator	2007-present
Reading to Dogs & Therapy dog handler	2004-present

2003-2007 2003-2009

Research Societies

American Geophysical Union (AGU), American Society of Limnology and Oceanography (ASLO), Sigma Xi, The Oceanography Society (TOS), Acoustical Society of America (ASA)

Publications

Fisher, K.E., J.R. Kamm, A. Davis, 2005, "Towards Validation Metrics in Fluid Dynamical Simulations Based on Wavelet Transforms and Multifractal Analyses", in Proceedings from Fractals in Engineering 2005 (CDROM).

Fisher, K.E., P.H. Wiebe, B.D. Malamud, 2004, "Fractal Characterization of Local Hydrographic and Biological Scales of Patchiness on Georges Bank", in Handbook of Scaling Methods in Aquatic Ecology: Measurement, Analysis, Simulation, L. Seuront and P.G. Strutton eds., CRC Press, Boca Raton, pp. 297-320. LA-UR-03-5013 Fisher, K. and Kimmerer, W., 2004, "Fractal distributions of temperature, salinity and

fluorescence in Spring 2001-2002 in South San Francisco Bay", in Thinking in Patterns: Fractals and Related Phenomena in Nature, M.M. Novak, ed. World Scientific, New

Jersey, pp. 199-211. LA-UR-03-7509

Fisher, K.E, 2002, Intermittency in Spatial and Temporal Plankton Patterns, PhD dissertation, Cornell University. (also poster: AGU fall meeting 2002)

Fisher, K.E., 1995, A Global New Production Estimate Based on Nitrate Entrained by Seasonal Fluctuations in Mixed Layer Depth, M.Sc. Thesis, Dalhousie University.

Research Cruises (duration and destination)

Research vessels: R/V Albatross, R/V Oceanus, R/V Endeavor, R/V Revelle, R/V Edwin Link, R/V Polaris, R/V Questuary, R/V David Johnston, Fishing vessel: F/V Isabel S; Research Ice Breaker: RVIB Nathaniel B Palmer

2004 EN331- test cruise for high frequency acoustic backscatter detection of microstructure

2003/2 USGS San Francisco Bay monitoring; RTC South San Francisco Bay monitoring

2001 NBP0103, NBP0104 (45 days, Western Antarctic Peninsula) GLOBEC Survey cruises

1999 AL9901, EN320, AL9906 (10-14 days, Georges Bank) GLOBEC Broadscale cruises

EL9904, EL9905 (8 & 20 days, Southern flank Georges Bank) GLOBEC Process cruises

EN330, EN331 (10 days, Gulf of Maine) GLOBEC Process cruises

NAGL98-01B (8 days, Stellwagen Bank) National Undersea Research Center

1998 AL9801, OC319, AL9808 (10-14 days, Georges Bank) GLOBEC Broadscale cruises

OC332, OC334, (10 days, Gulf of Maine) GLOBEC Process cruises

1997 Kiwi-01 (7 days, Monterey Bay) Bioacoustical Oceanography Workshop; EN307 (10 days Gulf of Maine)