

# United States Department of the Interior

## UNITED STATES GEOLOGICAL SURVEY

SALTON SEA SCIENCE OFFICE

78-401 Highway 111 Suite R

La Quinta, California 92253

760.777.1564, FAX 760.564.5288

E-mail: doug\_barnum@usgs.gov

Douglas Alan Barnum

Daytime phone – 760.777.1564

Evening phone – 760-674-3232

Date of Birth – 4/22/51

Citizenship – USA

### Education:

1973 B.A. Zoology/wildlife Biology, University of Missouri-Columbia

1975 MS. Wildlife Biology, Washington State University

1980 Ph.D. Range Science and Wildlife Biology, Brigham Young University

1981-1982 Postdoctoral fellowship, Wildlife and Fisheries Biology, University of California-Davis

Professional certification – Certified Wildlife Biologist, The Wildlife Society

Current Position: Science Coordinator, Salton Sea Science Office.

October 2000 to present: Science Coordinator, Salton Sea Science Office, La Quinta, CA. I serve as the Science Coordinator for the Salton Sea Science Office, La Quinta, California. Responsibilities include coordinating high quality scientific investigations on issues related to the ecology and recovery of the Salton Sea; reviewing study plans and experimental designs for scientific accuracy; coordinating science activities with Federal, State cooperators; and assuring that investigations, evaluations, reports and publications are of high quality and are completed on schedule. Regularly meets with cooperating and collaborating agencies at the Federal, State and NGO levels to communicate scientific findings and establish science priorities for the Science Office. Provides day-to-day program and operational guidance for support staff assigned to the Science Office. Ensures funds are expended in accordance with project priorities and purposes for allocations. Manages the schedule of science activities and events of the Science Office to serve the needs of Salton Sea Restoration Project. Equal Employment Opportunity (EEO) is an integral part of the total supervisory responsibility. I am responsible for ensuring equal opportunity for all employees supervised in selection of employees for training, promotions, award, recognition, and other career development opportunities. In concert with the Science Office Chief Scientist, I develop science needs, transforms those need into request for proposals and evaluates proposals received to select awards to be made. I have a major task of coordination of scientific activities overseen by the Science Office to avoid duplication of effort and assure timely information flow among all appropriate parties. I provide oversight for the restoration project funded science activities by direct involvement and through others that I maintain contact with to assure timely progress and the delivery of agreed upon products. I gather and evaluate existing scientific information relevant for the restoration effort and serves as an authoritative voice on scientific knowledge of the Salton Sea. Organizes and conducts symposia, workshops and other functions to obtain timely evaluations of priority scientific issues. Recent workshops include topics of eutrophication, salt loading and precipitation, air quality, and evaluations of the Pacific Institute wetlands concept proposal. I contributed to all workshops as a participant and primary editor of the workshop proceedings document. I collaborate with the Salton Sea Quality Assurance Officer to provide guidance/requirements for the quality assurance of science activities. Guidance provided also includes implementation of scientific programs and productivity reviews. Represents the Science Office at professional meetings and on committees involving other agencies and organizations. Meeting attendance,

including internal meetings of the Restoration Project and frequent meetings with the co-lead management agencies are a major activity. I am responsible for developing, managing, and tracking funds allocated to assigned scientists and programs. I coordinate development of Salton Sea Science proposals in response to intra- and inter- agency funding opportunities. Responsibilities include development of requests for proposals, soliciting, and organizing peer reviews of proposals received and tracking progress thereof. I serve as principal editor for Science Office sponsored symposia proceedings.

1985 to October 2000: Wildlife Biologist (Research), U.S. Department of Interior, U.S. Geological Survey, Western Ecological Research Center, Kern Field Station, Delano, CA. For the Salton Sea research program, I have taken the lead for developing and submitting study plans, compliance with center review policies, budget development and implementation and initiating the research. I serve as the center contact for all Salton Sea related information and regularly attends coordination and scientific meetings. I am also responsible for conducting field research activities, coordination with multi-agency research effort, data analysis and reporting of results. Team Leader for livestock grazing and endangered species research. The Bureau of Land Management approached the US Geological Survey for assistance in developing a research project to help determine how livestock grazing on arid public lands in the southwestern San Joaquin Valley might be impacting several plant and vertebrate species listed by state and federal agencies as threatened or endangered. On my initiative, a research proposal was developed to carry out the research in cooperation with several other agencies and organizations. I organized a one-day workshop which was attended by over 60 people interested in the research design and strategy. Major sources of funding include USGS, Bureau of Land Management, California Department of Fish and Game, Fish and Wildlife Service, Chevron Oil Company, Occidental Oil Company, California State University – Bakersfield, Eureka Livestock Company, California Cattleman's Association, and Center for Natural Lands Management. My role is to conduct research, develop and implement annual budgets, maintain database, maintain communications among all cooperators, directing overall research efforts, data analysis and reporting of results. As Team Leader for evaporation pond research, this continuing effort has focused on evaluating shorebird ecology on selenium-contaminated evaporation ponds. The current project involves diurnal and nocturnal observations of shorebird behavior to assess time-activity budgets relative to water depth, time of day, and location. Although previous efforts examined diurnal activities, little is known anywhere about nocturnal activities of wetland birds. I have pioneered the use of night vision devices and infrared illuminators for documenting numbers of bird at various wetland sites and their nocturnal behaviors. I am responsible for planning budgets, coordination with funding agencies, field research, data analysis and reporting of results. Major sources of funding include California Department of Water Resources, U.S. Fish and Wildlife Service and USGS Western Ecological Research Center.

1982 to 1985: Land Operations Officer, U.S. Department of the Interior, Bureau of Indian Affairs, Eagle Butte, SD

1982 to 1983: Range Conservationist, U.S. Department of the Interior, Bureau of Indian Affairs, Eagle Butte, SD.

1981 to 1982: Postdoctoral Research Associate, Department of Wildlife and Fisheries Biology, University of California, Davis, CA.

January-March 1981: Adjunct Assistant Professor, Chapman College, San Diego, CA

1977 to 1980: Graduate Research Assistant and Graduate Teaching Assistant, Brigham Young University, Department of Range Sciences, Provo, UT.

1976 to 1977: Graduate Research Assistant, University of Idaho, Department of Fisheries and Wildlife, Moscow, ID.

Academic year 1974 and 1975: Graduate Teaching Assistant, Washington State University, Department of Biological Sciences, Pullman, WA.

Summer 1974: Research Assistant, Washington State Department of Game, , Olympia, WA.