

STUART H. HURLBERT

Professor, Department of Biology

Director, Center for Inland Waters

San Diego State University San Diego, California 92182-4614

Phone: 619-594-5409

Fax: 619-594-5676

email: shurlbert @ sunstroke.sdsu.edu

EDUCATION

B.A. in Biology	1961	Amherst College, Amherst, Massachusetts
Ph.D. in Zoology (Ecology)	1968	Cornell University, Ithaca, New York

PROFESSIONAL EXPERIENCE

1966	Summer, Instructor in General Zoology, Cornell University
1966-1970	Post Doctoral Fellow and Lecturer, Department of Entomology and Department of Life Sciences, University of California, Riverside
1971-1972	Visiting Professor of Ecology, University of Chile, Santiago, Chile
1970-date	Assistant, Associate, Full Professor of Biology, San Diego State University
1997-date	Director, SDSU Center for Inland Waters

HONORS AND AWARDS

1984	American Statistical Association, G.W. Snedecor Award for best 1984 publication in biometry
1989	American Association for the Advancement of Science, Election as Fellow
1994 -1999	International Society for Salt Lake Research, President
1995	Distinguished Visiting Scholar, University of Adelaide, Adelaide, Australia
1998	Distinguished Ecological Statistician Award, International Ecological Assoc.

RESEARCH INTERESTS

Limnology of saline lakes, including their water chemistry, physical processes, algae, invertebrates, fish, and waterbirds; Ecology and restoration of the Salton Sea; Ecology of lacustrine plankton, with emphasis on the study of prey-predator, competitive and grazing interactions using experimental microcosms; Ecology and conservation of the South American flamingos in the Central Andes; Experimental design and biostatistics; Mathematical ecology

SELECTED PUBLICATIONS

Hurlbert, S.H., M.S. Mulla, J.O. Keith, W.E. Westlake, and M.E. Dusch. 1970. Biological effects and persistence of Dursban in freshwater ponds. *Econ. Entomol.* 63:43-52.

Hurlbert, S.H. 1971. The non-concept of species diversity: a critique and alternative parameters. *Ecology* 52:577-589.

- Ikeshojii, T., and S.H. Hurlbert. 1971. Dibutyl o-cresol: its effects on mosquito survival and oviposition and on plankton populations. *Mosquito News* 31:504-508.
- Hurlbert, S.H., J.B. Zedler and D.A. Fairbanks. 1972. Ecosystem alteration by mosquitofish (*Gambusia affinis*) predation. *Science* 175:639-641.
- Hurlbert, S.H., M.S. Mulla and H.R. Willson. 1972. Effects of an organophosphorus insecticide on the phytoplankton, zooplankton, and insect populations of freshwater ponds. *Ecol. Monogr.* 42:269-299.
- Hurlbert, S.H. 1975. Secondary effects of pesticides on aquatic ecosystems. *Residue Reviews* 57:81-148.
- Hurlbert, S.H. 1977. Toxicity of chlorpyrifos to mallard ducks. *Bull. Envir. Contam. Toxicol.* 17:105-107.
- Hurlbert, S.H. 1977. Impacts of pesticides on aquatic ecosystems. Report prepared for the California Department of Food and Agriculture under Contract No. 9751. 162 pp.
- Hurlbert, S.H., G. Rodriguez and N.D. Dos Santos (eds.) 1981. *Aquatic Biota of Tropical South America: Part 1, Arthropoda*, xii + 323 pp.; *Part 2, Anarthropoda*, xi + 298 pp. San Diego State Univ., San Diego, California.
- Hurlbert, S.H., and A. Villalobos-Figueroa (eds.). 1982. *Aquatic Biota of Central America, Mexico and the West Indies*. San Diego State Univ., San Diego, California. xv + 529 pp.
- Hurlbert, S.H. 1982. Limnological studies of flamingo diets and distributions. *Nat. Geogr. Soc. Res. Repts.* 14:351-356.
- Hurlbert, S.H., and A. Villalobos-Figueroa (eds.). 1982. *Aquatic Biota of Central America, Mexico and the West Indies*. San Diego State Univ., San Diego, California. xv + 529 pp.
- Hurlbert, S.H., and C.C.Y. Chang. 1983. Ornitholimnology: Effects of grazing by the Andean flamingo (*Phoenicoparrus andinus*). *Proc. Nat. Acad. Sci. U.S.A.* 80:4766-4769.
- Hurlbert, S.H., and C.C.Y. Chang. 1984. Ancient ice islands in salt lakes of the Central Andes. *Science* 223:299-302.
- Hurlbert, S.H. 1984. Pseudoreplication and the design of ecological field experiments. *Ecol. Monogr.* 54: 187-211.
- Hurlbert, S.H., W. Loayza, and T. Moreno. 1986. Fish-flamingo-plankton interactions in the Peruvian Andes. *Limnol. Oceanogr.* 31:457-468.
- Hurlbert, S.H., and C.C.Y. Chang. 1988. Distribution, structure, composition and thermal environment of ice deposits in Andean salt lakes. *Hydrobiologia* 158:271-299.
- Hurlbert, S.H. 1990. Pastor binocularis: now we have no excuse [review of *The Design of Experiments* by R. Mead]. *Ecology* 71:1222-1223.
- Hurlbert, S.H. 1990. Spatial distribution of the montane unicorn. *Oikos* 58:257-271.
- Hurlbert, S.H. 1991. Salinity thresholds, lake size and history: A critique of the NAS and CORI reports on Mono Lake. *Bull. South. California Acad. Sci.* 90:41-57.
- Soto, D. and S.H. Hurlbert. 1991. Long-term experiments on calanoid-cyclopoid interactions. *Ecol. Monogr.* 61:245-265.
- Soto, D. and S.H. Hurlbert. 1991. Short-term experiments on calanoid-cyclopoid-phytoplankton interactions. *Hydrobiologia* 215:83-110.
- Hurlbert, S. H. and M. D. White. 1993. Experiments with freshwater invertebrate zooplanktivores: Quality of statistical analyses. *Bull. Mar. Sci.* 53: 128-153.
- Greenwald, G.M. and S.H. Hurlbert. 1993. Microcosm analysis of effects of salinity on coastal lagoon plankton assemblages. *Hydrobiologia* 267: 307-335.

- Hurlbert, S. H. ed. 1993. Saline Lakes V: Proceedings of Fifth Symposium on Inland Saline Lakes. Developments in Hydrobiology 87: 335 pp. Kluwer, Dordrecht.
- Hurlbert, S.H. 1994. Old shibboleths and new syntheses [review of *Design and Analysis of Ecological Experiments*, ed. by S.M. Scheiner and J. Gurevitch]
- Hurlbert, S.H. and J.D. Archibald. 1995/1996. No statistical support for sudden (or gradual) extinction of dinosaurs. *Geology* 23:881-884; 24:958-959.
- Lombardi, C.M. and S.H. Hurlbert. 1995. Misprescription and misuse of one-tailed tests. Association for the Study of Animal Behaviour Newsletter, January 1995.
- Lombardi, C.M. and S.H. Hurlbert. 1996. Sunfish cognition and pseudoreplication. *Animal Behaviour* 52:419-422
- Hurlbert, S.H. 1997. Functional importance versus keystone-ness: reformulation of some questions in theoretical biocenology. *Austral. J. Ecol.* 22:369-382.
- Hurlbert, S.H., 1997. Experiments in ecology [Review of book by same title by A.J. Underwood]. *Endeavour* 21:172-173.
- Hart, C.M., M.R. Gonzalez, E.P. Simpson and S.H. Hurlbert. 1998. Salinity and fish effects on Salton Sea microecosystems: zooplankton and nekton. *Hydrobiologia* 381:129-152.
- Simpson, E.P. and S.H. Hurlbert. 1998. Salinity effects on the growth, mortality and shell strength of *Balanus amphitrite* from the Salton Sea. *Hydrobiologia* 381:179-190.
- Simpson, E.P., M.R. González, C.M. Hart, and S.H. Hurlbert. 1998. Salinity effects on Salton Sea microecosystems: benthos. *Hydrobiologia* 381:153-177.
- González, M.R., C.M. Hart, J. Verfaillie and S.H. Hurlbert. 1998. Salinity and fish effects on Salton Sea microecosystems: water chemistry and nutrient cycling. *Hydrobiologia* 381:105-128.
- Zheng, M., S.H. Hurlbert, and W.D. Williams, eds. 1998. Saline Lakes VI: Proceedings of Sixth International Symposium on Inland Saline Lakes. *Hydrobiologia* 381:1-201.
- Garcia-Berthou, E., and S.H. Hurlbert. 1999. Pseudoreplication in hermit crab shell selection experiments: comment to Wilber. *Bull. Mar. Sci.* 65:893-895.
- Reifel, K.M., M.P. McCoy, M.A. Tiffany, T.E. Rocke, C. Trees, S.H. Hurlbert, and D.J. Faulkner. 2001. *Pleurochrysis pseudoroscoffensis* (Prymnesiophyceae) blooms on the surface of the Salton Sea, California. *Hydrobiologia* (in press).
- Kuperman, B.I., V.E. Matey, and S.H. Hurlbert. 2001. Parasites of fish from the Salton Sea, California, USA. *Hydrobiologia* (in press).
- Lombardi, C.M. and S. H. Hurlbert. 2001. Misprescription and misuse of one-tailed tests. *Ecol. Monogr.* (under revision)
- Hurlbert, S.H. and C.M. Lombardi. 2001. The irrelevance of repeated measures ANOVA (in preparation).
- González, M.R., C.M. Hart, E.P. Simpson, R. Lara, and S.H. Hurlbert. 2001. Salinity and fish effects on Salton Sea microecosystems: phytoplankton and periphyton. In preparation.
- Tiffany, M.A., B.K. Swan, J.M. Watts, and S.H. Hurlbert. 2001. Metazooplankton dynamics in the Salton Sea, California, 1997-1999. *Hydrobiologia* (in press).
- Watts, J.M., B.K. Swan, M.A. Tiffany, and S.H. Hurlbert. 2001. Thermal, mixing, and oxygen regimes in the Salton Sea, California, 1997-1999. *Hydrobiologia* (in preparation).
- Reifel, K. M., M. P. McCoy, T. E. Rocke, M. A. Tiffany, S. H. Hurlbert and D. J. Faulkner. 2001. Possible importance of algal toxins in the Salton Sea, California. *Hydrobiologia* (in press).

- Swan, B.K., J.M. Watts and S.H. Hurlbert. 2002. Role of *Neanthes succinea* in phosphorus cycling in the Salton Sea, California. (in preparation).
- Watts, J.M., B.K. Swan, L. Thurn and S.H. Hurlbert. 2002. Cycling of nitrogen and phosphorus in a highly eutrophic, saline lake, the Salton Sea, California. (in preparation).
- Hurlbert, A.H., K. Sturm, and S.H. Hurlbert. 2002. Fish and fish-eating birds at the Salton Sea: past trends and future prospects. (in preparation).
- Reifel, K.M., C.C. Trees, E. Olivo, B.K. Swan, J.M. Watts and S.H. Hurlbert. 2002. Influence of river inflows on spatial variation of phytoplankton around the southern end of the Salton Sea, California. (in preparation).
- Tiffany, M. A., M. R. González, B. K. Swan, and S. H. Hurlbert. 2002. Phytoplankton dynamics in the Salton Sea, California, 1997-1999. (in preparation).
- Coe, M. F., J. Surico-Bennett, M. Vicario-Fisher, D. Crane, R. M. Gersberg and S. H. Hurlbert. 2002. Contaminants in tilapia from the Salton Sea, California, in relation to human health, wildlife and fish meal production. (in preparation)
- Coe, M.F., D. Crane, and S.H. Hurlbert. 2002. Seasonal and spatial variation in organic and inorganic contaminant levels in Salton Sea tilapia and their implications for a commercial tilapia fishery. (in preparation)
- Coe, M. F., D. Crane and S. H. Hurlbert. 2002. Contaminants in the biota of the Salton Sea tributaries, California. (in preparation)