

Statement of Qualifications

KATHRYN A. HIEB

Bay-Delta Region 3
Department of Fish and Game
4001 N. Wilson Way
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EDUCATION

A.B. University of California, Berkeley, Biological Sciences (concentration in Marine Biology),
1977

EMPLOYMENT

Senior Biologist, Supervisor, California Department of Fish and Game. 2008-present.

Associate Marine Biologist, California Department of Fish and Game, San Francisco Bay Study. 1991-2008.

Marine Biologist, California Department of Fish and Game, Marine Region and San Francisco Bay Study. 1985-1991.

Senior Laboratory Assistant, California Department of Fish and Game, San Francisco Bay Study. 1981-1985.

Associate Scientist, Ecological Analysts, Inc. 1978-1980.

RESEARCH INTERESTS

Estuarine ecology, with emphasis on the shrimp, crabs, and fish of San Francisco Estuary. Life history strategies and adaptations to estuarine conditions by species that utilize the estuary as a nursery or reside in the estuary. The role of physical factors, including freshwater flow, ocean temperature, and ocean currents in controlling recruitment to the estuary of Dungeness crab, *Crangon* shrimp, Pacific herring, longfin smelt, starry flounder, California halibut, and English sole, and other important species.

HIGHLIGHTS

Current Activities: Supervisor of IEP's San Francisco Bay Study, Zooplankton Study, and CDFG's laboratory staff in Stockton. Member of the IEP Management Team, National Center for Ecological Analysis and Synthesis (NCEAS) Ocean-San Francisco Bay Interactions working group, and the San Francisco Bay Subtidal Goals Science Committee.

Conferences and Symposia: Most recently was co-author of 2 presentations ("Ocean-Driven Interannual Variability in San Francisco Bay Ecology" and "Trends of Bivalves in the Bay: How Important is Predation on *Corbula* and Company?") and one poster at the 2009 State of the Estuary conference. Also chaired the plenary session *Aquatic Resources: Linking the Ocean, Estuary, and Watershed*. Oral or poster presentations have been made at American Fisheries Society, CALFED Science, Estuarine Research Federation, and previous State of the Estuary conferences in addition to several public forums and IEP annual workshops.

SELECTED PUBLICATIONS

Cloern, J.E., A.D. Jassby, J.K. Thompson, and K.A. Hieb. 2007. A cold phase of the East Pacific triggers new phytoplankton blooms in San Francisco Bay. *Proceedings of the National Academy of Sciences* 104(47):18561-18565.

Rudnick, D.A., K. Hieb, K.F. Grimmer, and V.H. Resh. 2003. Patterns and processes of biological invasion: The Chinese Mitten Crab in San Francisco Bay. *Basic and Applied Ecology* 4:249-262.

Hieb, K. 1999. *Cancer Crabs*, pages 19-75. *In: Report on the 1980-1995 fish, shrimp, and crab sampling in the San Francisco Estuary, California*, J. Orsi, Editor. IEP Technical Report 63, 503 pp.

Hieb, K. 1999. *Caridean Shrimp*, pages 77-131. *In: Report on the 1980-1995 fish, shrimp, and crab sampling in the San Francisco Estuary, California*, J. Orsi, Editor. IEP Technical Report 63, 503 pp.

Major contributor to two CDFG exhibits for the State Water Resources Control Board Water Rights Hearings for San Francisco Estuary:

California Department of Fish and Game. 1992. Estuary dependent species. Exhibit 6, entered for the State Water Resources Control Board 1992 Water Quality/Water Rights Proceedings on the San Francisco Bay and Sacramento-San Joaquin Delta. 97 pp.

California Department of Fish and Game. 1987. Delta outflow effects on the abundance and distribution of San Francisco Bay fish and invertebrates, 1980-1985. Exhibit 60, entered for the State Water Resources Control Board 1987 Water Quality/Water Rights Proceeding on the San Francisco Bay and Sacramento-San Joaquin Delta, 345 pp.