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Project: *Population Dynamics and Biology of the California Sea Otter at the Southern End of its Range*

Education:	B.A.	Biology, Stanford University	1960
	M.S.	Biology, Radcliffe College	1962
	Ph.D.	Biology, Harvard University	1965

Positions:	2004-Present	Research Associate, University of California, Santa Cruz, CA
	1998-Present	Senior Research Biologist, Smithsonian Institution, Washington, DC
	1976-1998	Research Biologist, Smithsonian Institution, Washington, DC

Selected Publications:

Schwartz, M., K. Ralls, D. Williams, B.L. Cypher, K.L. Pilgrim and R.C. Fleischer. 2005. Gene flow among San Joaquin kit fox populations in a severely changed ecosystem. *Conservation Genetics* **8**:1-13.

Haight, R.G., B. Cypher, P.A. Kelly, S. Phillips, K. Ralls and H.P. Possingham. 2004. Optimizing reserve expansion for disjunct populations of San Joaquin kit fox. *Biological Conservation* **117**:61-72.

Ralls, K. and J. Ballou. 2004. Genetic status and management of the California condors. *The Condor* **106**:215-228.

Moehrenschlager, A., B. Cypher, K. Ralls, R. List and M. Sovada. 2004. Comparative ecology and conservation priorities of swift and kit foxes. Pp. 185-198 in D. W. Macdonald and C. Sillero-Zubiri, eds. *Biology and Conservation of Wild Canids*. Oxford University Press, Oxford.

Ralls, K. and D. A. Smith. 2004. Latrine use by San Joaquin kit foxes (*Vulpes macrotis mutica*) and coyotes (*Canis latrans*). *Western North American Naturalist* **64**:544-547.

Ortega, J., M.d.R. Franco, B.A. Adams, K. Ralls, and J.E. Maldonado. 2004. A reliable, noninvasive method for sex determination in the endangered San Joaquin kit fox (*Vulpes macrotis mutica*) and other canids. *Conservation Genetics* **5**:715-718.

Murdoch, J., K. Ralls, and B. Cypher. 2004. Two observations of tree climbing by San Joaquin kit fox. *Southwestern Naturalist* **49**:522-523.

Estes, J.A., B.B. Hatfield, K. Ralls and J. Ames. 2003. Causes of mortality in California sea otters during periods of population growth and decline. *Marine Mammal Science* **19**:198-216.

Ralls, K. and P.J. White. 2003. Diurnal spacing patterns in kit foxes, a monogamous canid. *Southwestern Naturalist* **48**:432-436.

Smith, D.A., K. Ralls, A. Hurt, B. Adams, M. Parker, B. Davenport, M. Smith and J. E. Maldonado. 2003. Detection and accuracy rates of dogs trained to find scats of San Joaquin kit foxes. *Animal Conservation* **6**:339-346.

Murdoch, J., K. Ralls, and B.L. Cypher. 2003. Use of night vision technology to study kit fox behavior. *Transactions of the Western Section of the Wildlife Society* **38/39**:27-28.

Haight, R.G., B. Cypher, P.A. Kelly, S. Phillips, H.P. Possingham, K. Ralls, A.M. Starfield, P.J. White, and D. Williams. 2002. Optimizing habitat protection using demographic models of population viability. *Conservation Biology* **16**(5):1386-1397.

Ralls, K., K.L. Pilgrim, P.J. White, E.E. Paxinos, M.K. Schwartz, and R.C. Fleischer. 2001. Kinship social relationships, and den sharing in kit foxes. *Journal of Mammalogy* **82**(3):858-866.

- Smith, D.A., K. Ralls, B. Davenport, B. Adams, and J.E. Maldonado. 2001. Canine assistants for conservationists. *Science* **291**(5503):435-435.
- Haight, R.G., K. Ralls, and A.M. Starfield. 2000. Designing species translocation strategies when population growth and future funding are uncertain. *Conservation Biology* **14**(5):1298-1307.
- Ralls, K. and B.L. Taylor. 2000. Better policy and management decisions through explicit analysis of uncertainty: New approaches from marine conservation - Introduction. *Conservation Biology* **14**(5):1240-1242.
- Ralls, K., J.D. Ballou, B.A. Rideout, and R. Frankham. 2000. Genetic management of chondrodystrophy in California condors. *Animal Conservation* **3**:145-153 Part 2.
- White, P.J., K. Ralls, and D.B. Siniff. 2000. Nocturnal encounters between kit foxes. *Journal of Mammalogy* **81**(2):456-461.
- Frankham, R. and K. Ralls. 1998. Conservation biology - Inbreeding leads to extinction. *Nature* **392**(6675):441-442.
- Good, S.V., D.F. Williams, K. Ralls, and R.C. Fleischer. 1997. Population structure of Dipodomys ingens (Heteromyidae): The role of spatial heterogeneity in maintaining genetic diversity. *Evolution* **51**(4):1296-1310.
- Paxinos, E., C. McIntosh, K. Ralls, and R. Fleischer. 1997. A noninvasive method for distinguishing among canid species: Amplification and enzyme restriction of DNA from dung. *Molecular Ecology* **6**(5):483-486.
- Ralls, K. and L.L. Eberhardt. 1997. Assessment of abundance of San Joaquin kit foxes by spotlight surveys. *Journal of Mammalogy* **78**(1):65-73.
- Brody, A.J., K. Ralls, and D.B. Siniff. 1996. Potential impact of oil spills on California sea otters: Implications of the Exxon Valdez spill in Alaska. *Marine Mammal Science* **12**(1):38-53.
- Ralls, K., D.P. Demaster, and J.A. Estes. 1996. Developing a criterion for delisting the southern sea otter under the US endangered species act. *Conservation Biology* **10**(6):1528-1537.
- Ralls, K., T.C. Eagle, and D.B. Siniff. 1996. Movement and spatial use patterns of California sea otters. *Canadian Journal of Zoology* **74**(10):1841-1849.