Daniel E. Crocker
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During my sabbatical leave I was able fulfill obligations on several funded research projects that require extensive field work at remote sites in California. I also participated in several international conferences, workshops and panels, including giving an invited symposium at the Experimental Biology meeting in Boston. I was extensively active in professional development with 15 papers revised, submitted or in press as a result of activities during the sabbatical.

Specifically my activities were as follows:

1. I completed field work on three funded projects:
   - Office of Naval Research - Variability of hormonal stress markers and stress responses in a large cross-sectional sample of elephant seals. $513,967.
   - Oxidative stress mechanisms in seals. $500,000.
   - NSF – Integrative Biology. Glucose production and disposal during long-term fasting in northern elephant seals. $307,767

2. I traveled to Washington, D.C. to sit on an advisory panel on stress responses of marine mammals to noise pollution.

3. I traveled to San Diego to work on a dolphin stress physiology project with collaborators at the National Marine Mammal Foundation.

5. I traveled to UC Merced to learn techniques for RT-qPCR measurement of messenger RNA expression. This technique will be incorporated into my laboratories for Animal Physiology.

6. I submitted a grant proposal to the Office of Naval Research to continue my studies on the conservation stress physiology of marine mammals.

The following manuscripts were revised or submitted for publication during my sabbatical:


