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M.S., Marine Biology. B.S., University of Maine, 2004

**C B**  
M.S., Oceanography: Physical.

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M.S., Fisheries.

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*Ph.D. Fisheries*

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A retrospective analysis was used to estimate Kodiak red king crab abundance during 1960–2004. The fishery likely collapsed due to high harvest rates and skewed sex ratios. A spawner-recruitment analysis with environmental factors showed different regimes of stock productivity, with the current low crab abundance associated with increased Pacific cod.

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*Ph.D. Oceanography: Biological*

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Nutrient cycling in a subarctic oligotrophic lake was explored using current kinetic

bacterial contributions to system function. Quasi