

NSCI 6900
MASTER'S RESEARCH FOR COURSE CREDIT

Number of Credits: 2
INSTRUCTOR: K.D. Hyrenbach
MEETING TIME: TBA

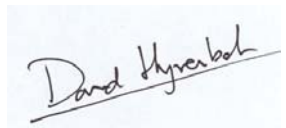
STUDENT NAME: Devon Francke, 01418523

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TELEPHONE AND E-MAIL FOR INSTRUCTOR: phone: (808) 236-3563 e-mail: khyrenbach@hpu.edu

COURSE DESCRIPTION:
(include problem being addressed, general nature of work done, location of work, other pertinent information)

Devon Francke will continue working on his MS thesis research project in the spring 2010 semester, which will entail quantifying the distribution, as well as horizontal and vertical movement patterns of green sea turtles (*Chelonia mydas*) in Kaimalino Cove and surrounding areas of Kailua Bay (Oahu). The goals of this project, conducted in collaboration with Dr. George Balazs from NOAA, are to augment the ongoing acoustic monitoring of turtle distribution and movements using static receivers, with additional real-time tracking during kayak surveys using a directional receiver, and to attach time-depth-temperature recorders on turtles in order to record their diving behaviors. This dual approach will allow Devon to study their residency patterns and behaviors in Kaimalino Cove and to identify the passageways used by the turtles to travel in and out of the study area. The specific research objectives for the spring semester will be: (i) initiating data collection by tagging turtles with the TDTRs; (ii) performing kayak surveys on a regimented schedule; (iii) analyzing the acoustic information collected by the static receivers; (iv) discussing the relevant literature relating to green sea turtle movements and habitat use patterns and real-time tracking methods; and (v) working with an undergraduate student, Stephanie Bovia, in her own research project. Devon will meet with Dr. Hyrenbach (~1-2 hrs / week) to review the research results and to discuss pertinent literature regarding the field of turtle movement behavior.



(Print) K. David Hyrenbach (Sign) _____ (Date) Nov 9, 2009
THESIS COMMITTEE CHAIR

(Print) _____ (Sign) _____ (Date) _____
ASSOCIATE DEAN OF MARINE SCIENCE PROGRAMS