

Papahānaumokuākea Marine National Monument Permit Application Cover Sheet

This Permit Application Cover Sheet is intended to provide summary information and status to the public on permit applications for activities proposed to be conducted in the Papahānaumokuākea Marine National Monument. While a permit application has been received, it has not been fully reviewed nor approved by the Monument Management Board to date. The Monument permit process also ensures that all environmental reviews are conducted prior to the issuance of a Monument permit.

Summary Information

Applicant Name: Stephen A. Karl

Affiliation: Hawaii Institute of Marine Biology, University of Hawaii, Manoa

Permit Category: Research

Proposed Activity Dates: 06/10/2009 - 7/02/2009

Proposed Method of Entry (Vessel/Plane): NOAA Ship HI IALAKAI

Proposed Locations: French Frigate Shoals and Pearl & Hermes Atoll

Estimated number of individuals (including Applicant) to be covered under this permit:

4

Estimated number of days in the Monument: 25

Description of proposed activities: (complete these sentences):

a.) The proposed activity would...
place small (1" diameter X 0.5" thick) temperatur data loggers at four meter intervals in a grid pattern on a patch reef at French Frigate Shoals (166 °15.78' W, 23° 49.94' N; reef 29) and Pearl & Hermes Atoll (175° 48.236W, 27° 49.828N).

b.) To accomplish this activity we would
layout a temporary meter tape grid at 4 meter intervals and place data loggers at intersections attach to bare rock or dead coral rubble by non-toxic marine glue or zip ties (whichever is most appropriate for the substrate) and the least likely to cause damage.

c.) This activity would help the Monument by ...
better characterizing the physical environment on these reefs and the role of temperature in coral health. All individuals of Porites lobata and Pocillopora damicornis have perviously been sampled and are currently being genotyped. Coral diversity and temperature have direct bearing on reef health and robustness

Other information or background: This is an addition of previously permitted research