

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

Permit Category: Research

Proposed Activity Dates: 1 April 2012 - 1 October 2012

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

Proposed Locations: French Frigate Shoals, Maro, and Laysan

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

4

Estimated number of days in the Monument: 29

Description of proposed activities: (complete these sentences):

a.) The proposed activity would...
sample 50 - 3 cm² pieces from Acropora cytherea colonies at each of 5 reefs at each Atoll (total 250 samples per Atoll). Tissue will be taken from healthy as well as diseased (i.e., individuals with growth anomalies) individuals. Healthy and diseased tissue will be collected from the same individual as well as healthy tissue from individuals with no obvious signs of disease.

b.) To accomplish this activity we would
haphazardly sample 50 - 3 cm² nubbins using bone shears.

c.) This activity would help the Monument by ...
improving our understanding of the underlying causes of growth anomalies in Acropora cytherea. Understanding the causes of the disease will allow managers to assay areas where A. cytherea may be at high risk for developing this disease and assess degree and areas of vulnerability.

Other information or background: