

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: Dr. Isabella A. Abbott

Affiliation: UH Manoa

Permit Category: Research

Proposed Activity Dates: June 1- October 1, 2009

Proposed Method of Entry (Vessel/Plane): NOAA ship Hi'ialakai

Proposed Locations: TBD

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

3

Estimated number of days in the Monument: 30

Description of proposed activities: (complete these sentences):

a.) The proposed activity would...

Include collections of algae focused on crustose coralline species found in coralline algal reefs, and incidental non-coralline macroalgae species

b.) To accomplish this activity we would

Examine and sample substrata from low intertidal to 100 ft depth (fewer CCA beyond this)

c.) This activity would help the Monument by ...

Understanding the underpinnings (substrata types) around the older Hawaiian Islands

Other information or background: Ecologically, Crustose Coralline Algae are calcifying organisms that are important for building reef structure and preventing reef erosion, as well as a preferred recruitment substrate for settling coral larvae. The species found in the NWHI are expected to change with the temperature gradient from the main Hawaiian Islands northward. Understanding the species composition of these foundation plants will offer further insight into the ecology of the reefs in the monument.