



Allison Ikeda - NOAA Affiliate <allison.ikeda@noaa.gov>

Fw: NWHI seamounts

1 message

Donald Schug

Wed, Jun 8, 2016 at 8:06 AM

To: Allison Ikeda - NOAA Affiliate <allison.ikeda@noaa.gov>, "_NOS PMNM.RAC"

Aloha All,

I just checked with Allie and she gave me permission to send you the attached map that Daniel Wagner of NOAA prepared for us yesterday. It shows the seamounts and underwater features that have a summit that is shallower than 1000 m. Based on the literature, it is my understanding that this depth is the threshold for seamount influences on pelagic communities (i.e., have the potential to be biodiversity "hotspots"). Many researchers suggest that the threshold may be shallower--in the 500-600 m range. As Daniel notes in the email below, most of the seamounts in the US EEZ around PMNM are quite deep, and only a few have summits shallower than 1000 m.

Don

From: Daniel Wagner - NOAA Affiliate <daniel.wagner@noaa.gov>

Sent: Tuesday, June 7, 2016 9:26 PM

To: Donald Schug

Subject: Re: NWHI seamounts

Donald;

Thanks for your note. I am attaching two maps that will hopefully answer your questions:
(1) A map showing all of the seamounts and underwater features in and around PMNM
(2) A map showing only those seamounts and underwater features that have a summit that is shallower than 1000 m (I have also added labels to that map with the approximate depth of the summit of those seamounts).

As you can see, most of the seamounts in the US EEZ around PMNM are quite deep, and only 7 have summits shallower than 1000 m.

I hope this helps.

Aloha,
Daniel

On Tue, Jun 7, 2016 at 12:58 PM, Donald Schug

wrote:

Hi Dan,

I'm a research representative on the Reserve Advisory Council for the PMNM. I greatly enjoyed

your presentation at the last RAC meeting. Would you by chance have a map (or table) showing the depths of seamounts in the EEZ around the NWHI? I'm trying to identify those seamounts with a depth of <1,000 m. It is my understanding that this depth is the threshold for seamount influences on pelagic communities. I'm especially interested in those seamounts outside the Monument boundaries but within the EEZ.

Sorry for the rush, but I'm hoping to have the information for tomorrow's RAC meeting.

Thanks much for any help you can offer.

Aloha, Don Schug

--

Daniel Wagner, Ph.D., Research Specialist
Papahānaumokuākea Marine National Monument
1845 Wasp Blvd., Building 176
Honolulu, HI 96818
Phone: 808-725-5836
Cell: 808-256-5014
Email: Daniel.Wagner@noaa.gov



PMNM map 0-1000 m.jpg
4215K