

From: R Musgrave [mailto:rmusgrave@whaletimes.org]  
Sent: Tuesday, January 19, 2010 1:56 PM  
To: 'creepintothedeep@whaletimes.org'  
Subject: Creep into the Deep: Maui channel map

Aloha Teachers,

I hope your students are enjoying the *Seamails* from Dr. Parrish and the science team as much as we are.

Our friend Dr. John Smith, from the Hawai'i Undersea Research Laboratory, sent the attached cool maps that show the channels where Dr. Parrish and the Science Team are working. (Thanks John!)

[I will also post them on the Virtual Team Member webpage: [www.whaletimes.org/CreepintotheDeepVirtualTeamJanuary2010.htm](http://www.whaletimes.org/CreepintotheDeepVirtualTeamJanuary2010.htm)]

You may already have mapping activities in the works. If not, though, you might want to have students: write in the depths (depths below); add the names of the islands or cities; figure out the longitude and latitude; determine how far apart the islands are and if someone standing on the coast could see the KoK research ship....

Here is another fun way to use the map. Have students compare cities they know with the research areas:

1. Go to: <http://maps.google.com>
2. Search for Maui.
3. Zoom out enough to see the surrounding islands
4. Click on "satellite" then compare it to Dr. Smith's map

Plus, using Dr. Smith's map, you can adapt *Mapping Deep Sea Habitats* a great NOAA-OER activity: [http://oceanexplorer.noaa.gov/explorations/02hawaii/background/education/media/nwhi\\_mapping.pdf](http://oceanexplorer.noaa.gov/explorations/02hawaii/background/education/media/nwhi_mapping.pdf)

If you have any questions or need more information, please let me know.

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\*Map Legend:

- The light orange is 100 meters or less
- The center of the channel between Lanai and Maui is less than 100m.
- Once you get off to either side and/or into the other channels it's over 100-200m.
- The slope break (where it gets very steep) in the underwater platform (darker orange) is about 700m.
- The darker blues grades into 5000m.

PS: Here are some other links to NOAA maps your students might refer to:

NOAA's Now Coast: Web Mapping Portal to Real-Time Coastal Observations and NOAA Forecasts

<http://nowcoast.noaa.gov>

Weather: <http://www.prh.noaa.gov/hnl/pages/satellite.php>

