

GEO369 – Introduction to Geophysics

18 Novemeber, 2004

Bevill 266

Class 21: Interpretation of Swath Sidescan and Bathymetry

Today you will be interpreting HAWAII-MR1 swath sidescan and bathymetry data.

Please follow these steps:

1. Open with following links in your browser:

ftp://imiloa.geo.ua.edu/pub/amg/HMR1_sidescan.pdf

The above is an image of sidescan data. High backscatter regions are black.

ftp://imiloa.geo.ua.edu/pub/amg/HMR1_bathy.pdf

The above is an image of bathymetry illuminated from the north.

2. Save the files locally.
3. Start illustrator.
4. Load the pdf files.
5. Optionally, print the images.
6. For each image, start a new layer and attempt to interpret (using a line tool) various aspects – for example, can we see faults, ridges, areas where there may be fresh volcanics on the seafloor? I will guide you through the first steps, and then let you attempt to continue on your own/in groups.

Homework (due 25 November, 2004)

Finish your interpretation. I expect:

1. Interpreted images of bathymetry and sidescan
2. A summary (1 page, typed) of some features that you have indentified.