

## Bathymetry Boxes Lab

Instructor notes / To Do list.

- Steve Attinasi gave me some **snap-off knives** to use. Westward brand.
- I need some **cutting boards** for the students to use! Steve recommends Hobbico Builder's Cutting Mat. Stock #HCAR0454. ORDERED.
- I ordered see-through rulers and graph paper from eaieducation. (531475, 530362)
- I ordered tracing paper and double-sided tape from Amazon. (Darice 9x12, and Scotch)
- **Plastic bins:** Romanoff seems good. Search for "Romanoff Small Stowaway Box." on Amazon. Cost about \$18 each.
- Cardboard. I got plenty from Bon Appetit, thanks to Robin Zeller's scavenging.

The four bathymetric charts were downloaded from  
[http://www.ngdc.noaa.gov/mgg/bathymetry/maps/nos\\_intro.html](http://www.ngdc.noaa.gov/mgg/bathymetry/maps/nos_intro.html)  
Using the interactive interface.

The four maps I have chosen are:

1. Koko Guyot (tablemount) (regular paper)  
Downloaded from <http://earthref.org/SC/#top>
2. King George seamount (regular paper)  
Downloaded from <http://earthref.org/SC/#top>
3. Aleutian Trench (16648-14B.tif)  
<http://www.ngdc.noaa.gov/mgg/bathymetry/maps/finals/16648-14B/>
4. Continental Slope:  
<http://www.ngdc.noaa.gov/mgg/bathymetry/maps/finals/BR-3/>
5. Monterey Canyon: (already printed) / Canyon off of Columbia River  
Downloaded from USGS site.
6. Mid-Atlantic Ridge  
I downloaded xyz data, and created a contour map in Matlab. It's pretty rough. Ultimately didn't use this because the scaling was so difficult to fit within the small box, and the slopes are really not impressive. An interesting lesson in and of itself!
7. The Seldo & Seine seamounts paper seems accessible. Figure 8a could lend itself to a nice box model, if printed in enlarged fashion!  
<http://www1.uni-hamburg.de/OASIS/Pages/publications/Bathymetry-Report.pdf>



This seems like a great map source for seamounts in the Pacific ocean:

<http://earthref.org/SC/#top>

Koko Guyot is pretty cool.

For future reference:

GeoMapApp has some educational tutorials available for undergraduate level:

<http://www.geomapapp.org/education/index.html>

GEBCO

Here's a similar write-up on the internet I found:

<http://www.bigelow.org/virtual/handson/fathometer.html>