

AGU Meetings Search Results:

Your query was:

au=brassell

HR: 09:40h

AN: **ED51C-05**

TI: **Web-Based Exercises in an Introductory Oceanography Course
For Non-Science Majors**

AU: * **Brassell, S C**

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AB: A major objective in teaching oceanography is the need to convey the spatial and temporal dynamics of ocean processes. In the mid-continent this endeavor is made more challenging by the impracticality of including field experiences. Thus, use of informative visual and interactive images is a critical course component. For an introductory oceanography class for non-science majors I have developed series of multimedia presentations that make extensive use of images, graphics, and movies. These are augmented by extensive sets of Web-based exercises that utilize the growing array of oceanographic resources on the Internet. The wealth of accessible materials and satellite images facilitates development of exercises wherein students explore and evaluate real-time data such as earthquake occurrences, hurricane tracks, sea surface temperatures, and tidal predictions. These are complemented by assessment of seasonal changes in ozone depletion, wave height and primary production, and by examination of longer-term records of current velocities, or annual averages of ocean temperature and salinity. Assessment of the geological framework of the oceans, including the development of ocean basins, tectonic plate motions, and seafloor topography completes the range of exercise topics. The potential of this approach is broad and the continuing evolution of sites containing images and data sets provides many opportunities for varied enrichment of the classroom experience.

UR: <http://php.indiana.edu/~simon/G131homeS2000.html>

DE: 1635 Oceans (4203)

DE: 1724 Ocean sciences

DE: 1223 Ocean/Earth/atmosphere interactions (3339)

SC: ED

JN: *Eos Trans. AGU, 81 (48), Fall Meet. Suppl., 2000*

MN: Fall Meeting 2000

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