Chapter 1 Supplemental Materials

- For a general overview of tropical ice cores see: Thompson, L.G., 2000. Ice core evidence for climate change in the Tropics: implications for our future, Quaternary Science Reviews, 19, 19-35.
- For datasets from trees, ice cores, corals, lacustrine sediments, marine sediments, and speleothems go to the NOAA Paleoclimatology database: http://www.ncdc.noaa.gov/paleo/
- For an index of lacustrine and marine samples go to the National Geophysical Data Center: http://www.ngdc.noaa.gov/mgg/curator/curator.html
- The following are ice core resources that students are directed to in this exercise: (a) a 2-minute video on southern Alps ice core drilling: http://www.youtube.com/watch?v=T69_diWYbkQ; a 5-minute video on Antarctic ice core drilling: http://www.youtube.com/watch?v=kdfcNIFEF8; a 2-page news article (Stone, May 28, 2010, Arduous Expedition to Sample Last Virgin Tropical Glaciers, Science, vol. 328, p. 1084-1085) on the New Guinea ice core drilling: http://www.sciencemag.org/cgi/content/short/328/5982/1084
- For a profile of a paleoclimatologist see the 11 min NOVA video documentary on Lonnie Thompson and his tropical ice core research: http://www.pbs.org/wgbh/nova/sciencenow/video/0405/i04.html
- The following online article from the British Antarctic Survey address the history and field logistics of ice coring: http://www.antarctica.ac.uk/indepth/icecore/page1.php
- The following is a video on the marine paleoclimate record and ocean drilling that students are directed to in this exercise: http://recordings.wun.ac.uk/conf/nwo/oceandrilling2006
• The following site contains coring statistics for the Deep Sea Drilling Project, the Ocean Drilling Program, and the Integrated Ocean Drilling Program: http://iodp.tamu.edu/publicinfo/ship_stats.html

• A summary of the vessel specifications for the JOIDES Resolution can be found at: http://www.odp.tamu.edu/publications/tnotes/tn31/jr/jr.htm (see reference for Garber, 2002). This website is a technical report that also includes descriptions and diagrams of the different drilling and coring tools.

• Fact sheets on the science support technology and capabilities of the JOIDES Resolution and the drill ship, the Chikyu, can be obtained at: http://www.iodp.org/index.php?option=com_content&task=view&id=310&Itemid=975.

• Information on JOIDES Resolution coring tools can be found here: http://iodp.tamu.edu/tools/

• Marine core photos can be obtained at: http://iodp.tamu.edu/database/coreimages.html

• Operational data of ODP Leg 199 can be accessed here: http://www.odp.tamu.edu/publications/prelim/199_prel/prel20.html

• To access a wide selection of short (~5 minute) videos on scientific ocean drilling go to: http://joidesresolution.org/ and select resources → video. The video “JR Drilling Operations 24/7” is a good one to learn more about the coring process on board the JOIDES Resolution. Another good site that hosts short videos on scientific ocean drilling is the Ocean Leadership YouTube site: http://www.youtube.com/user/OceanLeadership.