

IAP 2008 12.091 Assignment 3

1. Review the Chicxulub Impact Crater facts
 - i. Discovery
Attention to: A paleogeographic reconstruction of the continents 65 Ma.
 - ii. KT Boundary Mass Extinction
 - iii. Regional Effects
 - iv. Global Effects

Suggested site:

<http://www.lpl.arizona.edu/SIC/news/chicxulub1.html>

and the related links.

2. Browse the Sudbury Impact Structure

Shatter cones of Sudbury impact structure

<http://www.uwsp.edu/geo/projects/geoweb/participants/dutch/Sudbury/SCMorphGSA99.htm>

Deformation studies of Sudbury impact structure

http://gdcinfo.agg.nrcan.gc.ca/app/app4_e.html

Map of the horizontal gravity gradient
over the Sudbury Structure

http://gdcinfo.agg.nrcan.gc.ca/app/sudbury1_e.html

Map of the horizontal gravity gradient over the Sudbury Structure as it may
have looked shortly after formation.

http://gdcinfo.agg.nrcan.gc.ca/app/sudbury2_e.html

3. Browse the Mjolnir Impact Structure

Mjolnir Crater

<http://folk.uio.no/ftsikala/mjolnir/>

and the related links.

4. Browse the Vredefort Impact Structure

[http://www.unb.ca/passc/ImpactDatabase/
images/vredefort.htm](http://www.unb.ca/passc/ImpactDatabase/images/vredefort.htm)

Due Date: End of the Course (Last date Feb 4, 2008)

*Dr. P. Ila
Dept. of Earth, Atmospheric & Planetary Sciences
Massachusetts Institute of Technology
Cambridge, MA 02139*