

Web resources for *Integrating GPS, InSAR, and LiDAR Geodesy Data into Undergraduate Courses*

1. General geodesy resources
 - a. GETSI (GEodesy Tools for Societal Issues) – new project which will be developing modules featuring a variety of geodesy methods including InSAR, LiDAR, GPS, gravity, and sea level altimetry. <http://serc.carleton.edu/gets/>
 - b. UNAVCO’s “Data for Educators” page has many resources for educators from a variety of teaching levels. Mostly GPS. http://www.unavco.org/edu_outreach/data-for-educators/data-for-educators.html
 - c. Science Education Resource Center’s (SERC) Cutting Edge collection has a “Teaching Geodesy” collection that brings together in one place, the activities contributed by community members related to the topic of geodesy. <http://serc.carleton.edu/NAGTWorkshops/geodesy/index.html>
2. GPS teaching resources
 - a. Infinitesimal strain analysis using GPS data: Module for structural geology or geophysics course http://www.unavco.org/edu_outreach/resources/gps-strain/majors-gps-strain/majors-gps-strain.html
 - b. Introductory level – Cascadia GPS data and earthquake hazard http://www.unavco.org/edu_outreach/resources/gps-strain/intro-gps-strain/gps-eq/gps-eq.html
3. InSAR teaching resources
 - a. Visible Geology’s “Visible Earthquakes” interferogram interactive tool <http://earthquake.visiblegeology.com/>
(by the way, there are many other super cool visualizations at <http://visiblegeology.com/rowan/>)
 - b. InSAR resource files from this course are posted on UNAVCO’s webpage http://www.unavco.org/edu_outreach/resources/insar/visible-eq/visible-eq.html
4. LiDAR and TLS resources
 - a. OpenTopography’s OpenLandform Catalog has a wide range of different landforms featured in LiDAR-generated shaded relief. <http://www.opentopography.org/index.php/resources/lidarlandforms>
 - b. Instructions for settings needed to get OpenTopography data output as GoogleEarth kmz format. This allows you do view any data set in the OpenTopography archives in GoogleEarth, not just what has been put in the OpenLandform Catalog. http://www.unavco.org/edu_outreach/resources/lidar/tutorial-opentopo-lidar-to-googleearth.pdf
 - c. The TLS Field Camp Manual and teaching suggestions files are on the UNAVCO site <http://facility.unavco.org/kb/questions/787/Terrestrial+Laser+Scanning+%28TLS%29+Field+Camp+Manual> (If you are interested in potentially using TLS in a field camp, contact Chris Crosby – Crosby_AT_unavco.org)