

GEOG 509: GIS and Geomorphology

Spring 2015, Wednesday 2:30 pm - 5:10 pm,

404 Burchfiel Geography Building

Instructor: Dr. Yingkui Li

GIS and spatial analysis have been widely used in studying Earth's surface processes with the availability of Digital Elevation Models (DEMs). GEOG 509 is a seminar-format course focusing on the theoretical and practical issues in GIS and Geomorphology. Potential topics include Lidar and other new techniques in producing DEMs, DEM-based landscape/landform analysis (geomorphometry), scale and data quality issues, and surface process modeling and visualization.

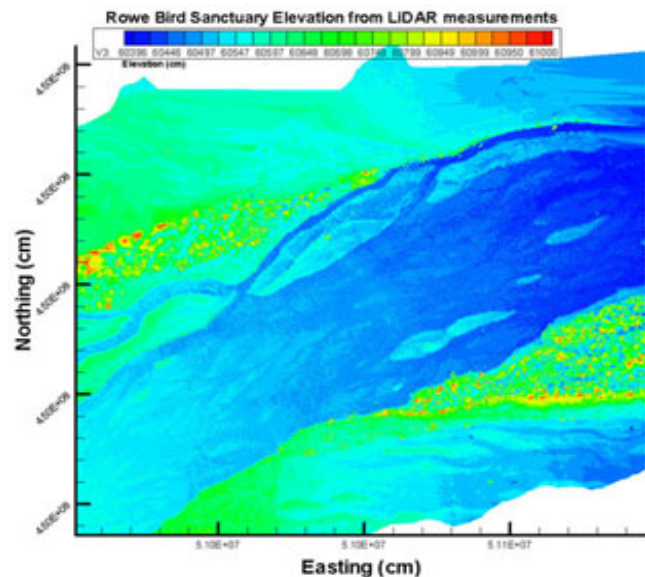
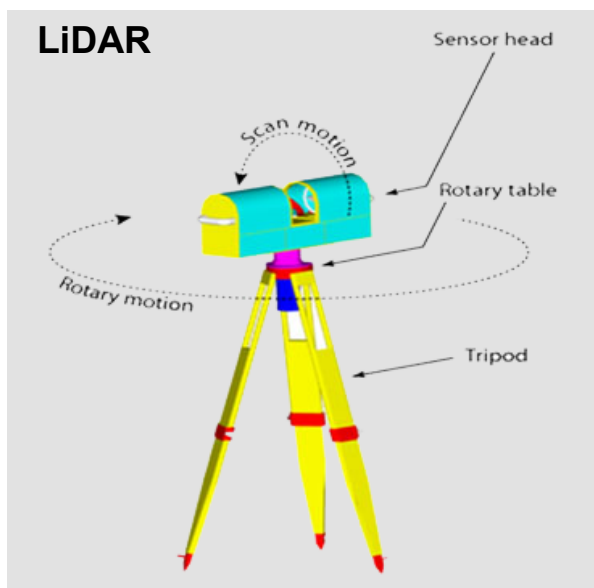
In this course you can:

Explore and identify methods, limitations, and potential in applying GIS to geomorphic issues;

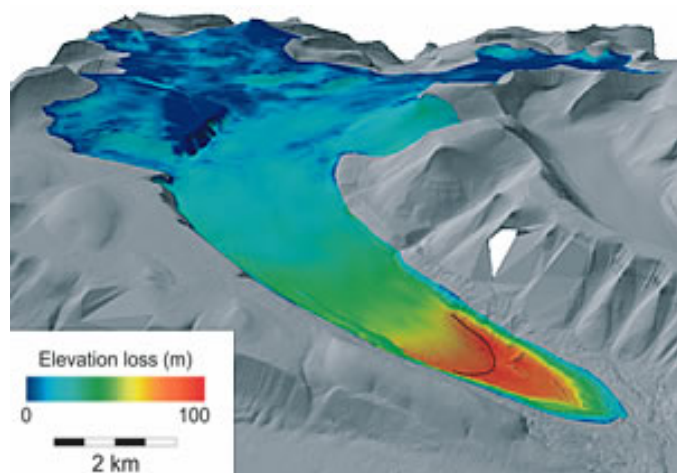
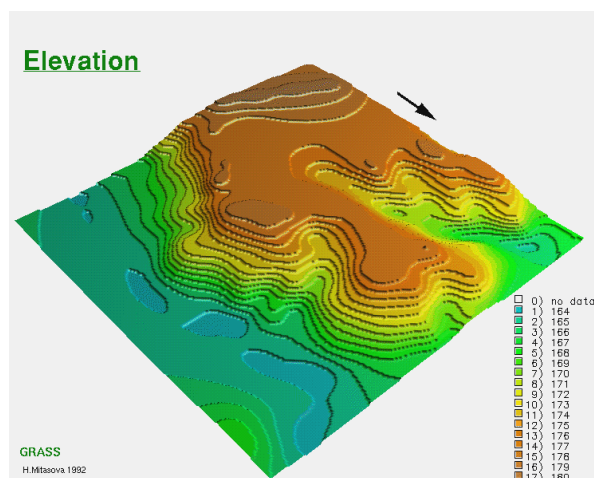
Develop the capability to design and perform "GIS and Geomorphology" research topics;

Further develop scientific writing and presentation skills.

Potential Topics of Interests:



Lidar and other new techniques in producing DEMs



DEM-based geomorphometric analysis

GEOG 433, GEOG 450, and GEOG 454 provide related background, but other geography, geology, or geomorphology courses can be substituted. Please contact the instructor, Dr. Yingkui Li (yli32@utk.edu) if you are interested in further information. Thank you!