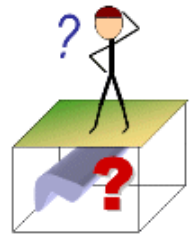


New course for January 2007: EOSC454, Applied Geophysics



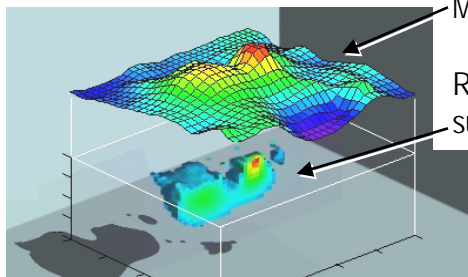
Are you interested in ...

- Oil/gas or mineral exploration?
- Environmental or geotechnical problems?
- Using geophysical survey data to recover 3D images of the Earth's interior?

In EOSC 454 you will learn how to use **gravity, magnetic** and **electromagnetic** data to help answer applied problems about the Earth's subsurface.



Field survey;
magnetics



3D inversion of magnetic data
yields a model of ground susceptibility.

Magnetic data
Recovered magnetic
susceptibility model

Course Description

- Using geophysics to characterize the Earth's subsurface for resource exploration, engineering, environmental, and other tasks.
- Data acquisition, processing, inversion, and interpretation of individual and multiple surveys, including electrical, electromagnetic, seismic, gravity and magnetic methods.
- Working with real data for mineral exploration, environmental and UXO (Unexploded Ordnance) detection and characterization.

Details: <http://www.eos.ubc.ca/courses/eosc454/eosc454.htm>

Appropriate pre-requisite skills

- 3rd year standing in physics or geophysics
- Interest in Earth sciences

