Introduction to photogeology and remote sensing

Intended audience
All geologists and geoscientists involved in geological mapping and site investigations.

Course objectives
- To introduce participants to concepts and geological applications in remote sensing with an emphasis on aerial photography although other airborne and satellite imagery are also included.
- To familiarise participants with the fundamentals of both the photogeological interpretation of air-photo stereo pairs and satellite imagery through laboratory practice.
- To encourage the use of large-scale air-photo stereo pairs and satellite imagery in field surveying and site investigations.

Course description
This course provides a practical introduction to photogeology and geomorphological interpretation using UK and overseas examples. Practical experience will be gained in the interpretation of aerial photography as related to geological field surveying. The course covers:
- Geometry of aerial photographs, stereo pairs and orthophotos.
- Photogeological interpretation and landform recognition.
- Sedimentary-structural landforms.
- Volcanic/intrusive landforms.
- Landslipped ground.
- Glacial landforms.
- Modern fluvial landforms.
- Annotation of interpreted aerial photographs and satellite imagery.
- Transfer of data to base maps.

Examining aerial photograph stereo-pairs using a stereoscope.