

SEISMIC ACQUISITION AND PROCESSING.

One module of SVALEX consists of Seismic Acquisition and Processing, using one of University of Bergen's research vessels (G.O. Sars or Håkon Mosby; see link below). Students undertaking this module will also follow parts of the geological excursion program together with the remaining students. This practical course is considered important for everyone who intend to work with seismic data, as many of the pitfalls in seismic interpretation can only be avoided by having firsthand knowledge of shortcomings in data acquisition and processing.

The acquisition will be done with the following equipment: 3 km long Nessie-3, digital streamer provided by WesternGeco, Triacq Recording and Quality Control, and tuned air-gun array. In addition, gravity and magnetic data will be acquired. The students will obtain basic skills in navigation and Quality Control of multi-channel seismic reflection data. In addition, the students will be trained in safe deployment and recovery of all equipment. The survey will be carefully planned, and the goal is to acquire data of high academic standard that can be used for research. The data will be available for Master students, and all processed data is intended to be included in SVALSIM.

Simple processing of parts of the acquired data will be undertaken by the students onboard. The processing will be done by Seismic Unix from raw data to simple interpretable seismic sections.

Links:

The vessels G.O. Sars and Håkon Mosby (click on the photos):

www.imr.no/om_hi/fartoy

Seismic equipment: www2.ifjf.uib.no/equipment (marine streamers, seismic sources)