

Geohazards in Marine Environments

Convener: Naci Görür

Some geological processes cause great geohazards in marine environments as they do on lands. Among them earthquakes, landslides, mud flows, tsunamis, gas hydrates, shallow gas accumulation, anoxia, over pressures and volcanoes are the most important ones. They develop under certain geological and environmental conditions and unfortunately claim every year thousands of lives, devastate homes and destroy livelihoods.

Most of these geohazards potentially exist in the Sea of Marmara and therefore threaten Istanbul. In order to draw attention of both the people and the local authorities this session has been organized. Oral and poster presentations on the following subjects are welcomed:

- Offshore geohazard investigations
- Logging, sampling and testing for marine geohazards
- Investigation and monitoring of geohazards by submarine observatory stations
- Role of tectonic setting in marine geohazards
- Role of depositional setting in marine geohazards
- Geohazards in continental shelves and slopes
- Submarine earthquakes
- Submarine gravity mass flows
- Submarine excess pore pressure and slope failures
- Submarine gas seepage and pressure buildup
- Tsunamis generated by earthquakes
- Tsunamis generated by slope failures
- Seafloor geomorphology and offshore geohazards
- Geohazards related to marine anoxia
- Geohazards generated by the failure of man-made structures