

Proposal for SPP 1144, 3^d phase

Logatchev longterm hydrothermal field environmental monitoring

H. Villinger, M. Fabian, Fachbereich Geowissenschaften, Universität Bremen

The overall goal of the phase III of LOLEM will be the continuation of the monitoring program. All monitoring stations, which are on the seafloor in the Logatchev Hydrothermal Vent Field (LHF) will be re-deployed and recovered during the next two visits. We plan to expand the coverage of the LHF by adding more and improved stations to get data from different places and therefore increase the data significance by correlating the time-series. Seafloor deformation and seismicity monitoring in order to assess the ridge magmatic activity as well as the extended temperature monitoring program, especially of high temperature vents, will be extended. The last phase of LOLEM will also focus on the publication of results in peer-reviewed journals.