

# APPENDIX V

## TAG 1995

R/V ATLANTIS II LEG 132-02

Dates: 2/20/95-3/16/95

PIs: Kadko, Schultz, van Dover, von Herzen, Edmond, Becker, Kleinrock

### OBJECTIVES:

1. Retrieve instruments monitoring the TAG mound:
  - o Plume Thermistor Array (von Herzen)
  - o Medusas (Schultz)
  - o Gamma Spectrometer (Kadko)
  - o Time Lapse camera (British)
  - o Daibutsu (Japanese)
2. Re-survey areas studied prior to ODP drilling to identify changes to the system.
3. Perform extensive heat flow, water sampling, sulfide sampling and sediment coring program.
4. Nighttime work involved camera tows led by M. Kleinrock.

All of the expedition objectives were met. This included the recovery of all previously deployed instruments and the short term deployments of instruments during the dive series. A large suite of heat flow measurements were taken, and numerous water, sulfide, rock and sediment samples were collected.

The monitoring instruments detected changes in the vent field over a period of 6 months. Some of the changes are possibly related to the ODP drilling. The data is currently being analyzed.

The submersible operation went quite smoothly, although at times there were navigation problems

The camera tows were successful until the last night, when the cable parted and the system was lost. Perhaps the cable is aging.