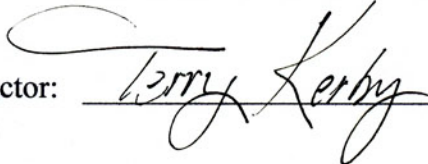


PISCES V DIVE REPORT

Pilot: MAX CREMER Dive #: PS-678 Date: OCTOBER 1, 2006
 Observer 1: JOHN RUNCIE
 Affiliation: _____ Dive Location: PENGUIN BANKS
 Observer 2: BRENT YAMAMOTO Latitude: 20° 55.859' N
 Affiliation: UNIVERSITY OF HAWAII AT HILO Longitude: 157° 31.869' W
 Purpose: Research Training Test
 Other: _____ Time of Dive: 0807
 Special Equipment: _____ Time of Surface: 1051
 Cameras: SONY DV, ROS COLOR Time Submerged: 2:44
 Manipulators: TITAN 7F, HYCO Time Thru Last Dive: 4555:48
 Samplers/Sensors: CTD-DO, RIO ROX, EXT. Total Time to Dive: 4558:32
2 INT. FLUOROMETER ASSEMBLIES Dive Depth: 106 m
 Support Vessel: R/V KAIMIKAI-O-HAURLOA Water Depth: 106 m
 Captain: ROSS BARNES Water Temperature: 22.8°C @ 106 m
 Visibility: GOOD, 20+ m

Dive Results/Remarks: ALGAL SYSTEMATICS DIVE. 0827 Land on bottom on a gentle slope with sediment cover at 106 m. 0838 Move N to target depth of 110 m, then intend to contour to marker 50. 0924 106 m arrive at work site. Data logger and sampler appear to be functioning. Sampler has no ULVA leaf in the clamp. It was either eaten by reef fish or slipped out with the current. The clamp design needs improvement. 0925 collecting sampler, logger and marker 50. Start deploying new sample array. 0952 103 m lost all utility hydraulic pressure. Recycling utility hydraulics many times with no success. 1006 collect deployed sampler with functioning Titan. Preparing to leave bottom on soft ballast. 1015 leave the bottom from 103 m. Upon surfacing, diver releases ascent weights manually and secures science basket to enable Equipment Deficiencies: normal recovery operations. Make an otherwise normal recovery. Failure of util. hyd. controller caused loss of all hyd. functions.

Pilot's Signature: Date: October 3, 2006Operations Director: Date: October 3, 2006