PISCES IV DIVE REPORT

Pilot: MAX CREMER Dive #: P4-145 Date: JULY 23, 2005

Observer 1: BRUCE MUNDY

Affiliation: NATIONAL MARINE FISHERIES SVC. Dive Location: KINGMAN REEF (LINE ISLAND)

Observer 2: JIM HARAGOS Latitude: N 06:22.643

Affiliation: NATIONAL FISH & WILDLIFE SVC. Longitude: W 162:19.703

Purpose: (Research) Training Test Time of Dive: 0802

Other: Time of Surface: 1703

Special Equipment: Time Submerged: 9:01

Cameras: SONY DV, ROS COLOR, HAND HELD STILL Time Thru Last Dive: 1051:26

Manipulators: HYCO, ORION Total Time to Dive: 1060:27

Samplers/Sensors: CTD-DO, CORAL COLL. Dive Depth: 740 m

CRATE, BIO BOX, SED. SCOOPS Water Depth: 740 m

Support Vessel: R/V KAHOLUAI-O-KANALOA Water Temperature: refer to CTD data

Captain: ROSS BARNES' Visibility: clear 20+ m to fair 10+ m

Dive Results/Remarks: FISHERIES AND BENTHIC SURVEY OF KINGMAN REEF NATIONAL REFUGE. 0842 740m land on gentle, sedimented slope with numerous pennatulids. 0856 collect sediment scoops near landing position. 0916 move upslope NW to 500m contour. Observe a large oil fish at 702m. 1024 500m arrive at contour depth. 1036 Start transect #1 to SW at 500m for 35 min. Initial strong current from W less substantial. 1120 502m complete transect #1. 1128 move upslope to 450m. 1134 487m collect sediment scoop #3 at the base of a carbonate wall. 1210 456m start transect #2 to W. 1258 452m complete transect #2. 1305 move upslope to 400m. 1350 399m start transect #3 to W. 1432 404m complete transect #3. 1454 350m collect holothurian on the way upslope to 350m. 1501 start transect #4 at 350m to W. 1545 349m complete transect #4. Transects were progressively poor in biomass as well as diversity. 1548 move upslope to N. 1603 261m move S to deeper water for recovery. 1630 ascending from 287m. Make a normal recovery.

Equipment Deficiencies: SONY DV failed.

Pilot's Signature: [signature] Date: JULY 24, 2005

Operations Director: Terry Kerby Date: 7/25/05