PISCES IV DIVE REPORT

Pilot: Terry Kerby Dive #: PIV-146 Date: July 24, 2005

Observer 1: Rob Dunbar

Affiliation: Stanford University

Observer 2: Brendon Roark

Affiliation: Stanford University

Purpose: (Research) Training Test

Other:

Special Equipment:

Cameras: Sony, ROS

Manipulators: Orion, HYCO

Samplers/Sensors: Coral basket

Support Vessel: R/V Kaimikai-O-Kanaloa

Captain: Ross Barnes

Dive Location: Kingman Reef

Latitude: 06° 26.008' N

Longitude: 162° 27.288' W

Time of Dive: 0805

Time of Surface: 1632

Time Submerged: 8:27

Time Thru Last Dive: 1060:27

Total Time to Dive: 1068:54

Dive Depth: 1362m

Water Depth: 1362m

Water Temperature: 2.4°c

Visibility: 20m+

Dive Results/Remarks: Coral collecting dive. 0930 Land on a low angle sandy bottom in 1359m. 0946 1362m Move along the slope to the NorthEast to the base of a vertical carbonate wall at 1347m. 1022 1270m discover red corallium on a vertical wall. Collect a corallium. 1035 1283m move upslope on a carbonate ridge. 1042 Collect a branched bamboo at 1226m. 1119 998m Move up a carbonate ridge to the southeast. 1212 827m Collect a large white coral base. 1220 Continue up a steep carbonate ridge to the SE. 1243 788m Collect dendrafilia. 1341 479m collecting large dendrafilia. 1452 319m Discover carbonate spires seperated from main wall with large gold coral trees. Attempting to get stable on a vertical wall to collect coral samples. Discover a small flat saddle feature between two carbonate pinnacles where the sub can get stable. Collect some branches from a large old growth coral tree and move to the saddle to reorganize the sample basket. Survey along main wall at 303m. 1530 Move to the west in midwater for recovery. 1602 Release weights and ascend for recovery.

~~Equipment Deficiencies~~:

Pilot's Signature: Terry Kerby Date: 7/25/05

Operations Director: Terry Kerby Date: 7/26/05