

TEAM SPEC SHEET:

School & Team Name: Kealakehe Intermediate School ROV Team (returning team)

Home Town & State: Kailua-Kona, Hawaii

Distance travelled to MATE Competition at UH-Hilo: 306 Km round-trip



`Io o Lalo Kai Loihi ROV



Kealakehe Intermediate School ROV Team

New Team Members:

Co- Captain: Tristan Ross (13 yrs., Gr. 7), **Co-Captain:** Nikolette Argyris (11 yrs., Gr. 6),

Pilots: Quinlan Tanaka (11 yrs., Gr. 6), James Fisher (13 yrs. Gr. 7),

Deck Crew: Aricia Argyris (13 yrs., Gr. 8), Philip Moffatt (12 yrs. Gr. 7), Amy Lowe (12yrs., Gr. 7)

ROV SPECS:

ROV Name: *`Io o Lalo Kai Loihi* (*Undersea Volcano Hawk*)

Total Cost: \$1848.13 less \$1605.00 in donated & reused items = \$243.13 out of pocket 2010

Primary Construction Materials: PVC

Dimensions: 63 cm long, 52 cm wide and 45 cm high

Total Weight: 6 kilograms

Safety Features: 4 custom motor safety housings with caution tape; 25 amp fuse & 2 heavy-duty banana plugs wired into a tether safety harness plug into a safety power with 2 heavy duty battery contact clamps; four 3amp fuses for cameras wired into banana plug harness.

Special Features: 6 customized tools to carry out 2010 MATE Missions at Loihi-

#1: Multi Grabber claw, #2: Lifter, #3: Crustacean Sweeper & Net

#4: Bacteria Vacuum, #5: U/W ears microphones, #6: Temp. Probe & Docker

Tether: 15 meter SOSI (Sound Ocean Systems International) Category 5 cable with 8 conductors.

Depth: `Io o Lalo Kai Loihi can dive up to 8 meters