JOHNSON-SEA-LINK I

J-S-L I underwent routine maintenance of all systems from Nov. 2001 to Feb. 2002 before beginning the operating season in March 2002. J-S-L I has completed 4,390 dives to date.

In addition to normal maintenance, the power distribution system was upgraded to the new HBOI-designed power bottles and all associated cabling to improve reliability and replace obsolete power blocks. Also, a new set of main battery cells was installed.

During the 2001 season, the sub's video system was upgraded to a digital camera with 850 lines of resolution. The camera is configured so that full factory controls are available to the pilot in addition to a data overlay system. The camera housing is mounted to an HBOI-designed electrical pan and tilt mechanism with two green lasers for scaling purposes. The pan and tilt is mounted on a three-function hydraulically operated boom that provides the operator with a wide variety of camera and lighting positions.

Also during the 2001 season, J-S-L I was outfitted with the new Sunwest SS-300 CTFM Sonar system with a 12" display monitor.



JOHNSON-SEA-LINK II

J-S-L II underwent major maintenance from Nov. 01 to April 02. During that time, all systems were serviced or replaced. The pilot sphere was replaced incorporating a redesigned hatch and lower penetrator. All of the internal high-pressure valves, tubing and fittings were replaced. All external valves, tubings and fittings were rebuilt, pressure tested or replaced. The submersible's hydraulic system was overhauled.

In addition to the general maintenance, a new Sunwest SS-300 CTFM Sonar was installed with a 12" display monitor to match J-S-L I.

Sea trials are scheduled for the first week of May with an ABS certification dive at the end of those trials. J-S-L II has completed 3,252 dives to date.

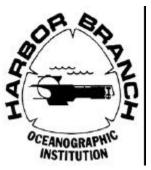


<u>CLELIA</u>

CLELIA underwent routine maintenance during Jan-March 02 and successfully completed an ABS Special Periodical Survey with the exception of the test dive scheduled for the Summer/Fall of 2002.

CLELIA has completed 625 dives to date and supported operations for NOAA's Ocean Exploration Program in 2001.

All thrusters on the three subs underwent preventative maintenance.



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