

Appendix III

Deep Submergence Facility Operations Summary

1998 NDSF Operations (to date)

	<u>ALVIN</u>	<u>ROVs</u>
• Days at Sea:	56	58
• Assigned Operating Days:	78	65
• Dives/Lowerings Completed:	37	9
• Average Duration (hrs):	7.6	41
• Average Bottom Time (hrs):	5.2	35
• Highlights:		
– <i>Continued cross-training of ALVIN personnel during Jason ops in Guaymas Basin</i>		
• <i>revised hydro boom, new fiber optic cable and Markey traction winch tested</i>		
– <i>357 NM of ridge surveyed with DSL-120 sonar</i>		
– <i>25 hours of data collected with ESC camera sled</i>		
– <i>Tube core carousel successfully used</i>		
– <i>Diffuse flow mapped with Doppler sonar</i>		
– <i>Simrad SM 2000 multibeam sonar tested:</i>		
• <i>1.25 sq KM area mapped +/- 3 meters</i>		
• <i>.025 sq KM area mapped +/- .5 meters in 2 hours</i>		



hours

- *6 hydrothermal fluid samples taken*
- *Flange characterization (diffuse flow visualization/sampling)*