

APPENDIX XIII

ROV Status and Upgrades

ROV Status

M/V Derbyshire Preparations

- 47 day survey requiring deployment of DSL-120, Argo-II and Jason vehicles from R/V Thompson
- Installation of HDTV camera and associated telemetry, display and recording subsystems
- Installation of digital high resolution color video camera including enhanced telemetry and recording
- Installation of stereo video system
- Upgrade to existing mosaicking capability
- Refinement of DSG data reduction and processing capabilities

ROV Upgrade Plans

- DSL-120 real-time display and processing
- Jason ascent/descent weight dropper
- "Smart" elevator
- Video telemetry upgrade for Jason and Argo-II
- Jason payload increase
- Enhancement to Jason's auxiliary hydraulic system
- Replacement of Jason neutral tether cable