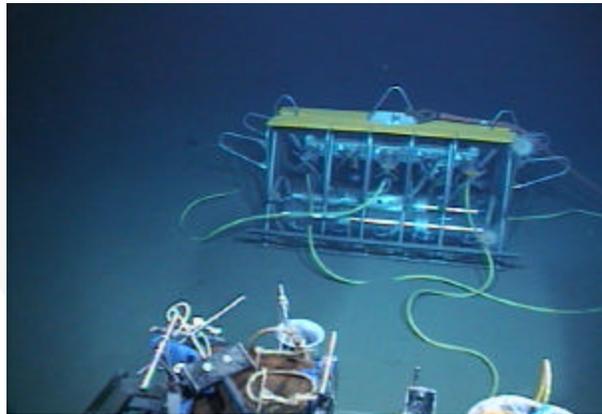




2003 ROV Operations



Jason2 / Medea

- **5** cruises
- **47** lowerings
- **752** hrs. bottom time
- **188** NM covered
- **6,500** m deepest dive

DSL 120a

- **2** cruises
- **10** lowerings
- **319** hrs. bottom time
- **398** NM covered
- **5,800** m deepest dive

- ✓ *Rock drilling into basalt and sulfide for D. Kelley*
- ✓ *Recovered and deployed H2O junction box 3 times*
- ✓ *Large volume hydrothermal fluid sampling (200+ gal) for P. Johnson*
- ✓ *Six week maintenance period in Woods Hole*



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2003 ALVIN Operations



- **224** Operating Days
 - **8** Science Legs
 - **100** Dives
 - **2138** m Average Depth
 - **7.5** hrs Average Dive Duration
 - **5.0** hrs Average Bottom Time
 - **4** Dives Lost (weather)
-
- ✓ *Visited MAR, NE Seamounts, Blake Ridge, Gulf of Mexico and EPR*
 - ✓ *Four techs currently in pilot training*



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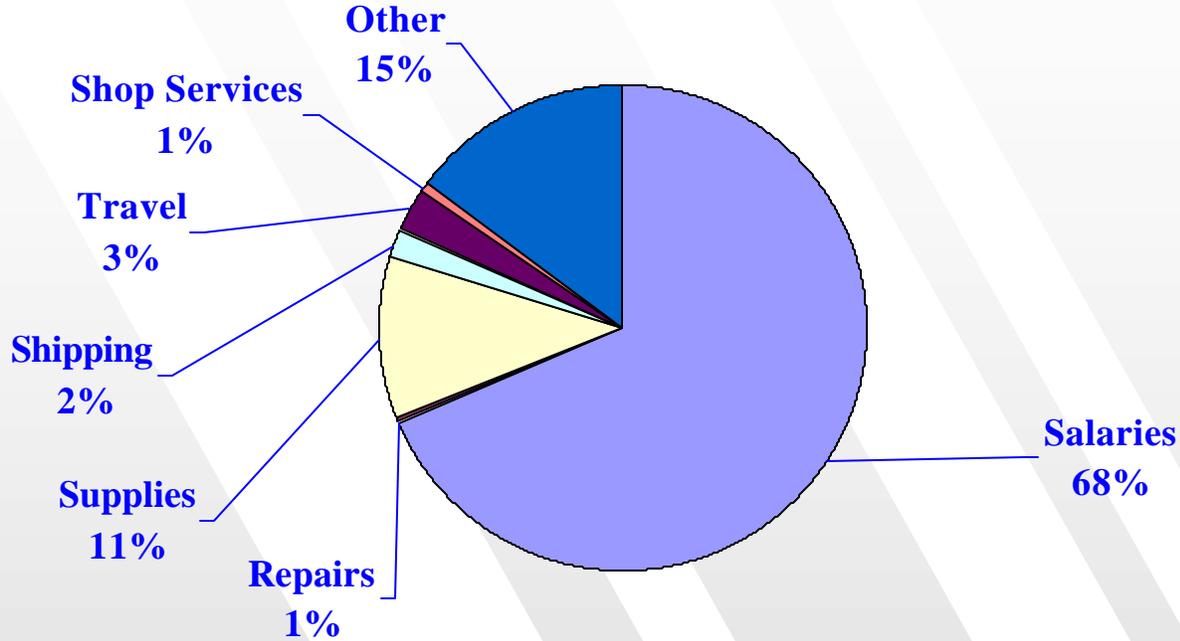




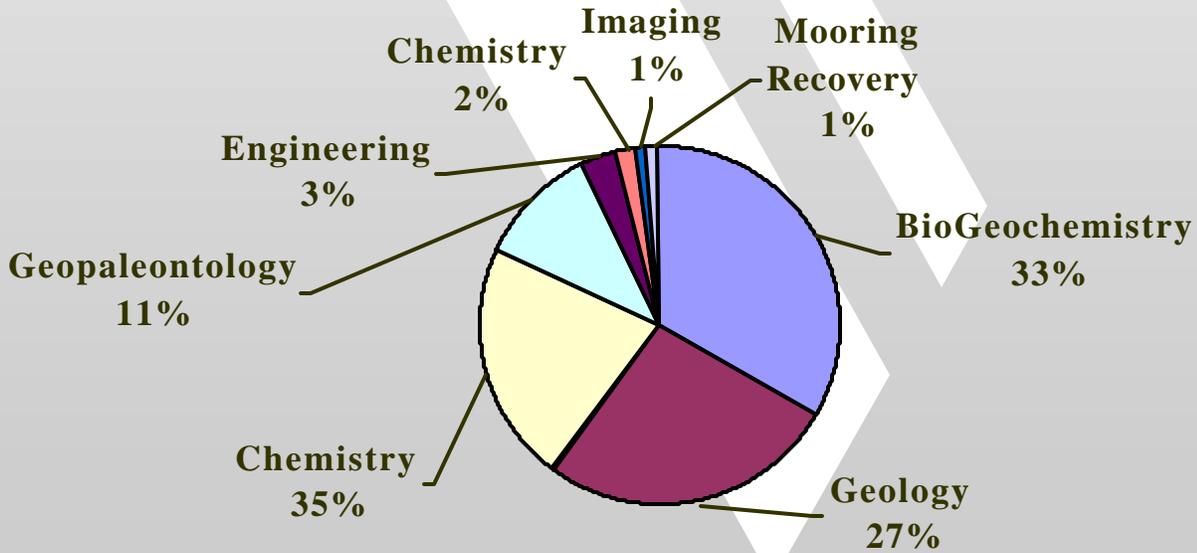
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2003 Operating Costs: \$4,516,805



Dive Discipline Breakdown



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