

## **2004 ALVIN Operations**





- > Engineering dive off San Diego in January
  - Full science equipment check-out, lighting and sonar experiments, Insite camera first use
- Four science cruises Schouten, Kastner, Von Damm, Lutz
- > 53 dives completed
- > 1 day lost to mechanical problems
- > 250 hours bottom time
- > 5 more science cruises scheduled this year
- > Dive 4000 made on April 12
- > ALVIN's 40<sup>th</sup> anniversary in June







## **ALVIN Dive Statistics**



Total Dives	4,012
Total Depth	8,339,919 meters
Average Depth per Dive	2,079 meters
Total Time Submerged	27,658 hours
Average Time Submerged per Dive	6.89 hours
Total Persons Carried	12,029
Dive Purpose Breakout	
Biology	1,424
Geology/Geophysics	1,418
Chemistry/Geochemistry	462
Engineering/Equipment Tests	279
Search/Survey/Recovery	234
Orientation/Training	140
Certification	55







## **2004 ROV Operations**





- > Two science cruises:
  - Pockalny / TN165 Endeavour Deep Jason2 and DSL-120
  - Martinez / Kilo Moana Lau Spreading Center – DSL-120 sonar, CTD
- > Jason2: 9 lowerings, 297 hours of data
- > DSL-120: 7 lowerings, 390 hours of data
- > 72-hour Jason lowering new record
- > Four more Jason cruises scheduled this year





National Deep Submergence Facility www.whoi.edu/marops