

- File based image storage to reusable HDD
- Long-term data storage
- Primary Cameras: 1920 x 1080 HD, 10x zoom
- Science Cam #1: 1920 x 1080 HD, Video optimized
- Science Cam #2: Still image optimized plus HD Video





- Current Design is very similar to previous approach but relies upon COTS equipment and utilizes a simpler approach
- Exterior
- Interior
- Offload and Processing





Exterior

- •"One-line" cartoon on wall
- •Help from Woods Hole Marine Systems (Jim Newman)
- •Camera choices
 - Science camera 1 from AIVL
 - Science camera 2 COTS
 - Mini Zeus' on brow
 - Internal PATZ lower down (nominal)
- •Support Infrastructure
 - Symmetric approach, port + starboard
 - Single bottle each side, power + telemetry
 - Also supports Jason-like science interface
- •Uses available fibers, leaves room for growth
- •Design is well advanced, some components on order





Interior

- Design based upon conferences with pilots and frequent *Alvin* users
 System design by Willis Group, design drawing on wall
 Balance of performance and space/complexity
- •Switcher feeding monitors and recorders
- Recorder candidate is Atomos Samurai
 - Ninja tested on recent Jason cruise
 - Has visible display
- Integration into sphere will determine final layout of components





Offload and Processing

- •Disk based recording and transfer
- •Data copied to RAID, accessible via network
- •Raid copied to LTO5 for archiving
- •HDV and DVD copying supported
- •Edit station in main lab
- •System design by Willis Group, design drawing on wall