

Benthic Rover Cruise Check-list  
Atlantis, 2006

Electronics:

|                          |                                       |
|--------------------------|---------------------------------------|
| <input type="checkbox"/> | Laptops (Rover controlling)           |
| <input type="checkbox"/> | Spare EZ-Servos                       |
| <input type="checkbox"/> | EZ Servo connectors (RS485-232)       |
| <input type="checkbox"/> | PC104 Stack                           |
| <input type="checkbox"/> | Serial Board connectors               |
| <input type="checkbox"/> | PC104 Stack connectors                |
| <input type="checkbox"/> | Relay Board                           |
| <input type="checkbox"/> | Dummies, Subconn                      |
| <input type="checkbox"/> | Dummies, Impulse                      |
| <input type="checkbox"/> | Dummies, Seacon                       |
| <input type="checkbox"/> | Test cable for modem                  |
| <input type="checkbox"/> | Deck Test cables                      |
| <input type="checkbox"/> | Ethernet cables CAT5                  |
| <input type="checkbox"/> | Serial cables (Straight/null)         |
| <input type="checkbox"/> | Modem cables (50')                    |
| <input type="checkbox"/> | Power cords                           |
| <input type="checkbox"/> | extension cords, plug strip           |
| <input type="checkbox"/> | Power supply Agilent                  |
| <input type="checkbox"/> | Power supply (Chinese)                |
| <input type="checkbox"/> | Battery packs (All!)                  |
| <input type="checkbox"/> | Molex (9 pin)                         |
| <input type="checkbox"/> | Electrical feed through - Green tweed |
| <input type="checkbox"/> | Jumpers                               |
| <input type="checkbox"/> | USB Compact Flash reader              |
| <input type="checkbox"/> | Gender changers                       |

Deployment Hardware:

|                          |                                     |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | Rover (1)                           |
| <input type="checkbox"/> | Spar Buoy (1)                       |
| <input type="checkbox"/> | Spar/Lift line                      |
| <input type="checkbox"/> | Strobe (1)                          |
| <input type="checkbox"/> | RF Beacon (Ch. B, 159.480 Mhz)      |
| <input type="checkbox"/> | Drop weight jack                    |
| <input type="checkbox"/> | Drop weights (2)                    |
| <input type="checkbox"/> | Drop weight eye bolts w/ 3 nuts (2) |
| <input type="checkbox"/> | Drop weight release slings (2)      |
| <input type="checkbox"/> | Burn wires (4)                      |

Hand Tools:

|                          |                       |
|--------------------------|-----------------------|
| <input type="checkbox"/> | Oil Comp Filler/gauge |
| <input type="checkbox"/> | Screwdrivers          |
| <input type="checkbox"/> | Wrenches              |
| <input type="checkbox"/> | Socket Sets           |
| <input type="checkbox"/> | Hex drivers           |
| <input type="checkbox"/> | Cordless Drill        |
| <input type="checkbox"/> | Drill set, up to 1/2" |
| <input type="checkbox"/> | Burr-tool             |
| <input type="checkbox"/> | Pliers                |
| <input type="checkbox"/> | Vise-grip             |
| <input type="checkbox"/> | Diagonal cutter       |
| <input type="checkbox"/> | Hacksaw               |
| <input type="checkbox"/> | Files                 |
| <input type="checkbox"/> | 1/4-20 tap and die    |
| <input type="checkbox"/> | 3/8-16 tap and die    |
| <input type="checkbox"/> | Utility knife         |
| <input type="checkbox"/> | Tape measure          |
| <input type="checkbox"/> | Caliper               |
| <input type="checkbox"/> | Wire Brush            |
| <input type="checkbox"/> | Desicant              |

Instruments

|                          |                                |
|--------------------------|--------------------------------|
| <input type="checkbox"/> | Prop motor (1)                 |
| <input type="checkbox"/> | Rack motor (1)                 |
| <input type="checkbox"/> | Stir motor (1)                 |
| <input type="checkbox"/> | Stir bars                      |
| <input type="checkbox"/> | 2DACM                          |
| <input type="checkbox"/> | ATM-887 (No spare)             |
| <input type="checkbox"/> | Nova camera (1)                |
| <input type="checkbox"/> | Aquaflash strobe               |
| <input type="checkbox"/> | GC2450C (prosillica color) (1) |
| <input type="checkbox"/> | GC1380 (prosillica b&w) (1)    |
| <input type="checkbox"/> | Optode 3830 (2-4)              |
| <input type="checkbox"/> | LED Multi-Sealite (1)          |
| <input type="checkbox"/> | SBE 5m                         |
| <input type="checkbox"/> | Spare respirometer valve       |
| <input type="checkbox"/> | Burnwires (>3)                 |
| <input type="checkbox"/> | Latern Shark stobe (1)         |

Electrical Tools

|                          |                                                |
|--------------------------|------------------------------------------------|
| <input type="checkbox"/> | Oscilloscope                                   |
| <input type="checkbox"/> | Multimeter                                     |
| <input type="checkbox"/> | Soldering iron                                 |
| <input type="checkbox"/> | Tools (wire strippers/dykes/inspection mirror) |
| <input type="checkbox"/> | Anti-static mat/bracelets                      |

Manuals

|                          |                                      |
|--------------------------|--------------------------------------|
| <input type="checkbox"/> | Rover schematics                     |
| <input type="checkbox"/> | Modem manual                         |
| <input type="checkbox"/> | EZ manual                            |
| <input type="checkbox"/> | TS-7200, Xtreme ISO, Parvus Ethernet |
| <input type="checkbox"/> | Relay docs                           |
| <input type="checkbox"/> | current meter                        |
| <input type="checkbox"/> | optode                               |
| <input type="checkbox"/> | video server, camera                 |
| <input type="checkbox"/> | Seabird SB-5 pump                    |

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Expendables

|                          |                                   |
|--------------------------|-----------------------------------|
| <input type="checkbox"/> | Aqua Lube (2)                     |
| <input type="checkbox"/> | O-ring Lube, Dow #55 (2)          |
| <input type="checkbox"/> | Silicon Spay lube, food grade (2) |
| <input type="checkbox"/> | Dow #111 (2)                      |
| <input type="checkbox"/> | Tellus 15 Oil, 5 gal. w/ MSDS     |
| <input type="checkbox"/> | Scotchcast 2130                   |
| <input type="checkbox"/> | Isopropyl Alcohol                 |
| <input type="checkbox"/> | Pig mats                          |
| <input type="checkbox"/> | Shop towels, Cloth (15)           |
| <input type="checkbox"/> | Shop towels, paper (6)            |
| <input type="checkbox"/> | Paper towels, white(2)            |
| <input type="checkbox"/> | Kim Wipes                         |
| <input type="checkbox"/> | Cotton Swabs                      |
| <input type="checkbox"/> | Almalgamate tape                  |
| <input type="checkbox"/> | Tape, electrical (4)              |
| <input type="checkbox"/> | Teflon Tape, 1/2" wide (2)        |
| <input type="checkbox"/> | Label Tape                        |
| <input type="checkbox"/> | Blue masking tape                 |
| <input type="checkbox"/> | Zip Ties, various sizes           |
| <input type="checkbox"/> | Air-can duster (2)                |
| <input type="checkbox"/> | Hold downs                        |
| <input type="checkbox"/> | Gloves                            |
| <input type="checkbox"/> | RedTags                           |

Battery Sphere Components

|                          |                                           |
|--------------------------|-------------------------------------------|
| <input type="checkbox"/> | 4G modem board set (1)                    |
| <input type="checkbox"/> | burn wire board (1)                       |
| <input type="checkbox"/> | 6a4t diodes                               |
| <input type="checkbox"/> | custom diode board for modem (need spare) |
| <input type="checkbox"/> | Amp connectors for batt packs             |
| <input type="checkbox"/> | LF remote ducer (1)                       |
| <input type="checkbox"/> | Blade fuse 7.5 A (1)                      |

Modems

|                          |                                                  |
|--------------------------|--------------------------------------------------|
| <input type="checkbox"/> | LF dunking transduce (old style)                 |
| <input type="checkbox"/> | MF dunking transducer (old style)                |
| <input type="checkbox"/> | Modem deck box (old style)                       |
| <input type="checkbox"/> | Universal deck box                               |
| <input type="checkbox"/> | LF dunker for UDB                                |
| <input type="checkbox"/> | Orange cable reel for old style dunkers          |
| <input type="checkbox"/> | black line for deploying transducer              |
| <input type="checkbox"/> | Benthos deckbox filter boards<br>(1MF, 1LF min.) |

Batteries

|                          |                                   |
|--------------------------|-----------------------------------|
| <input type="checkbox"/> | Li batt packs                     |
| <input type="checkbox"/> | Batteries © for argos, RF, strobe |
| <input type="checkbox"/> | LF modem battery pack             |
| <input type="checkbox"/> | MF Modem battery                  |
| <input type="checkbox"/> | Iridium beacon battery            |

Supplies

|                          |                                        |
|--------------------------|----------------------------------------|
| <input type="checkbox"/> | Anti-skid mat                          |
| <input type="checkbox"/> | Office supplies (Pens, sharpies)       |
| <input type="checkbox"/> | Rings (Protection for spheres plastic) |
| <input type="checkbox"/> | Modem in case                          |
| <input type="checkbox"/> | Ti Fasteners, assorted                 |
| <input type="checkbox"/> | Stainless fasteners, assorted          |
| <input type="checkbox"/> | Clamp-brackets                         |
| <input type="checkbox"/> | Comp hose                              |
| <input type="checkbox"/> | Comp Hose fittings                     |
| <input type="checkbox"/> | General SS Hose Clamps                 |
| <input type="checkbox"/> | Large SS Hose Clamps                   |
| <input type="checkbox"/> | Ti Hose Clamps                         |
| <input type="checkbox"/> | Ti welding rod (bearing lock pins)     |
| <input type="checkbox"/> | HDG shackle (line to spar buoy)        |
| <input type="checkbox"/> | O-rings                                |
| <input type="checkbox"/> | Drive belts (1)                        |
| <input type="checkbox"/> | Bearings                               |
| <input type="checkbox"/> | Drive pulleys (2)                      |
| <input type="checkbox"/> | Spar pole (1)                          |
| <input type="checkbox"/> | RF Beacon (VHF 73)                     |

Electronics Sphere

|                          |                                 |
|--------------------------|---------------------------------|
| <input type="checkbox"/> | HESC-SERD (PC104 ser board)     |
| <input type="checkbox"/> | TS-5620                         |
| <input type="checkbox"/> | X-treme ISO                     |
| <input type="checkbox"/> | Spare PC104 Stack               |
| <input type="checkbox"/> | PRV-1059-04                     |
| <input type="checkbox"/> | Axis-241                        |
| <input type="checkbox"/> | Stir motor controller PIC       |
| <input type="checkbox"/> | 485-232 converter               |
| <input type="checkbox"/> | K108 relay board +12V not 24V   |
| <input type="checkbox"/> | UHE-12/2500-D24 -24-12V convert |
| <input type="checkbox"/> | UHE-5/5000-Q12 - 24-5V conver   |
| <input type="checkbox"/> | 10BQ015 shottkey diode          |
| <input type="checkbox"/> | resistor 10k 1%                 |
| <input type="checkbox"/> | resistor 90k 1%                 |
| <input type="checkbox"/> | Cylinder fuse 0.5 A             |
| <input type="checkbox"/> | Cylinder fuse 200mA             |
| <input type="checkbox"/> | Cylinder fuse 1A                |
| <input type="checkbox"/> | Blade fuses 1A (2)              |
| <input type="checkbox"/> | Blade fuses 2A (3)              |
| <input type="checkbox"/> | Blade fuses 4A (1)              |
| <input type="checkbox"/> | Blade fuses 5A (6)              |
| <input type="checkbox"/> | Blade fuses 10A (4)             |
| <input type="checkbox"/> | Fuse term block (10)            |
| <input type="checkbox"/> | Term block (8)                  |