

R/V HUGH R. SHARP Equipment Cruise Planning Form

| | |
|-----------|------|
| Cruise ID | P.I. |
|-----------|------|

Dates:

Lifting Apparatus / Winches

Ship A-Frame

| | | |
|--|-------------------------------------|--|
| | Center Lift Point (SWL 20,000 lbs.) | |
| | Upper T Extension (SWL 12,800 lbs.) | |

Comments:

Auxiliary Lifting Systems

| | | |
|--|------------------------------|--|
| | Side Frame (SWL 16,600 lbs.) | |
| | AUV Crane (SWL 900 lbs.) | |

Comments:

Ship Installed Winches

| | | | |
|--|---------------------------------------|---|---------------------|
| | Starboard Trawl Winch | 1/2" wire (3,241m) | 9/16" wire (1,508m) |
| | Port Trawl (1,860m/0.681 fiber optic) | Client responsible for fiber & mechanical termination | |
| | Dedicated CTD (4,657m/0.322 E&M) | | |

Comments:

Ship Portable Winches

| | | |
|--|--|----------------|
| | Mooring Winch (SWL BD 5,200 lbs.; FD 2,500 lbs.) | additional fee |
| | Light Hydro Winch (853m/0.25" wire) | |
| | Tow Winch (Scanfish) (670m/0.489 E&M) | |

Comments:

Other Portable Deck Gear

| | | |
|--|-----------------------------------|--|
| | Side Mount Sonar Pole | |
| | Horizontal Capstan | |
| | Vertical Capstan | |
| | Deck Tugger | |
| | Portable Deck Boom (SWL 2000 lb.) | |
| | Dive Ladder | |

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Dates:

Standard Instrumentation

CTD (SBE 911 plus)

| | | |
|--|--------------------------------------|----------------------------------|
| | 12 Bottle Frame & Carousel (SBE 32) | Standard |
| | Primary Temperature & Conductivity | Standard |
| | Secondary Temperature & Conductivity | Standard |
| | Eco-FL Fluorometer (WetLabs) | Standard (max depth 500m) |
| | Deep Eco-FL Fluorometer (WetLabs) | (max depth 6000m) |
| | Altimeter (Benthos) | Standard |
| | Oxygen Sensor | Standard |
| | | |
| | G.O. 1010 Niskin Bottles | Standard, Number needed (max 12) |
| | G.O. 1005 Niskin Bottles | Number needed (max 8) |
| | G.O. 1010X Spring Niskin | Number needed (max 12) |
| | G.O. Go Flow | Assorted |
| | Client Provided | Specify below |

Comments:

Surface Mapping System (SMS)

| | | |
|--|---|----------------------------------|
| | Recorded 10 second readings, 1 hour files | Position, Weather, Surface Water |
| | Output DGPS Serial RS-232 | |
| | Output PosMV 5 plus Serial RS-232 | |
| | Output Depth Knudsen 3260 Serial RS-232 | |
| | Discreet Water Sampling Available | |

Comments:

ADCP

| | | |
|--|----------------------------|----------|
| | 300 kHz Work Horse Mariner | Standard |
| | 600 kHz BB Rio Grand | |

Comments:

Knudsen 3260 Chirp

| | | |
|--|--------------------------|----------|
| | 200 kHz /4x3.5 kHz array | Standard |
|--|--------------------------|----------|

Comments:

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Dates:

Laboratories

Laboratory Outfit

| | | |
|--|--|---|
| | DI & Q Grade Water Maker (10lt/hour) | Standard |
| | Science Microwave | |
| | Chemical Hood 1 | Dry Lab (currently have 1 hood, 3 locations) |
| | Chemical Hood 2 | Dry Lab (currently have 1 hood, 3 locations) |
| | Chemical Hood 3 | Wet Lab (currently have 1 hood, 3 locations) |
| | -80 Freezer, Dry Lab | samples must be pre-chilled to -40 before storing |
| | "Seawater" Chest Freezer (5cu.ft.) | Dry Lab |
| | "Seawater" Refrig/Freezer (6.9/2.7 cu.ft.) | Dry Lab |
| | "Fixative" Refrig/Freezer (10/3.4 cu.ft.) | Wet Lab |
| | "Biological" Chest Freezer (5 cu.ft.) | Wet Lab |
| | "Fixative" Refrig/Freezer (10/3.4 cu.ft.) | not normally installed |
| | "Seawater Upright Freezer (20 cu.ft.) | not normally installed |

Note Refrig/Freezer:
 "Seawater" = Seawater samples and non-noxious reagents. No preservatives, No Biologicals
 "Fixatives" = Preserved water samples. No Biologicals
 "Biological" = Mud, Fish, Bugs and Preservatives

Comments:

Laboratory Sampling

| | | |
|--|--------------------------------|--|
| | Lab Diaphragm Zooplankton Pump | |
| | Lab Centrifugal Chemical Pump | |
| | De-Bubbler with multi ports | |

Comments

Laboratory Instrumentation

| | | |
|--|--|-----------------------------|
| | Light Profiler (Biospherical Par BIS 2101) | |
| | Satlantic HPERPROCR Radiometer | |
| | Sound Guard | Ship noise recording system |
| | Turner AU-10 Lab Fluorometer | |
| | XBT (no ship provided unit) | Required science instrument |
| | | |

Comments

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Dates:

Misc. Equipment

Coring

| | | |
|--|--------------------------------------|---------------------------|
| | Box Core 16.5" x 16.5" x 25" | |
| | Smith Mac Bottom Grab 14" x 13" x 8" | |
| | | |
| | Gravity Core (2.5" tubes) | Science must supply tubes |

Comments:

Incubators

| | | |
|--|---------------------------------|--|
| | Table (4"H x 91"L x 34"W) | |
| | Table 10" x 20" | |
| | Table 10" x 20" | |
| | Tub 300gal (24"H x 68"L x 60"W) | |
| | Tub 300gal (24"H x 68"L x 60"W) | |
| | Tub 150gal (24"D x 54"L x 36"W) | |
| | Tub 150gal (24"D x 54"L x 36"W) | |
| | Tub 100gal (24"D x 49"L x 27"W) | |
| | Tub 100gal (24"D x 49"L x 27"W) | |
| | Tub 50gal (11"D x 48"L x 28"W) | |
| | Tub 50gal (11"D x 48"L x 28"W) | |

Comments:

Specialized Instrumentation (additional day rate fee)

| | | |
|--|----------------------------------|-------------------------------------|
| | RESON 7125 Multibeam 200/400 kHz | requires pre-planning and logistics |
|--|----------------------------------|-------------------------------------|

Comments:

| | | |
|--|--------------------------------------|-------------------------------------|
| | EVIA Mk III Scanfish/SBE 911plus CTD | requires pre-planning and logistics |
|--|--------------------------------------|-------------------------------------|

Comments:

Additional Support

| | | |
|--|---------------------------------------|--|
| | Ship's Support Boat 17' SafeBoat/90hp | |
|--|---------------------------------------|--|

Comments: (usage estimate, etc.)

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Dates:

UNOLS VAN POOL

Vans (additional day rate fee)

| | | |
|--|--------------------------------------|-------------------------------------|
| | General Purpose Laboratory | in-floor U-strut rails for tie-down |
| | General Purpose Laboratory | |
| | General Purpose Laboratory | |
| | Wet/Dirty Purpose Laboratory | |
| | Isotope Purpose Laboratory | |
| | Isotope Purpose Laboratory | |
| | Isotope Purpose Laboratory 10ft. | |
| | Cold/Freezer Purpose Laboratory | |
| | Cold/Freezer Purpose Laboratory | |
| | Clean/Trace Metal Purpose Laboratory | |
| | AUV/ROV Support Purpose Laboratory | |

Note Van Request/Usage

Requests are on first come first use. Make requests early to ensure desired van

Ship can support up to two vans onboard

See Van Pool website for more detail: <http://marops.cms.udel.edu/uecvp/>

Comments:

Additional Van Support

| | | |
|--|-------------------------------|-----------------------------------|
| | Growth Chamber | |
| | Center roof lift system | limited to general purpose van #1 |
| | Outside double door ramp | |
| | Inside double door short ramp | |

Comments:

Science Van Requirements

Comments: