

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	

Comments:

R/V HUGH R. SHARP Equipment Cruise Planning Form

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

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
	Large Volume Pump ~ 15 liter/minute	Special Request

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:

R/V HUGH R. SHARP Equipment Cruise Planning Form

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

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

R/V HUGH R. SHARP Equipment Cruise Planning Form

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

Dates:

Misc. Equipment

Mammal Watching Platform	
Big-Eye 25x150 Binoculars	
Smith Mac Bottom Grab 14" x 13" x 8"	
Gravity Core (2.5" tubes)	Science must supply tubes
MC-800 Multicore	

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.)

R/V HUGH R. SHARP Equipment Cruise Planning Form

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

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: