## RCRV Particulars and Principal Equipment

Dimensions			Over the side handling equipment		
Length (overall)	ft	199.5	A-frame Dimensions (clear height/width)	Height, Width	25'H x 20'W
Length (waterline)	ft	184	A-frame Luffing Load	lbf	15,000
Beam (at Main Deck)	ft	41	Aft Crane Reach	Feet	~55 ft
Beam (overall)	ft	50	Aft Crane Lift	Rating	~15,000 lbs at 50' static, 7,500 at sea.
Design Draft @ amidships	ft	12.5	Portable A-frame	lbf	16,000 NBL down, ~6000 SWT towing
Freeboard @ amidships (@ design draft)	ft	6.5	Portable Crane		1 portable crane, locations aft and forward, 2,200 lb static at 25 ft.
Air Draft	ft	88.5	Permanent Winches	Number of	2,200 ib static at 25 it.
Regulatory Tonnage	GT ITC <sup>1</sup>	1549	Hydro Winch, wire type and length 1	D (in), L (M)	0.393", 10km
	GI IIC	1842	Hydro Winch, wire type and length 1  Hydro Winch, wire type and length 2	,	~3/8" EOM synthetic cable <10km
Displacement (Full Load) <sup>3</sup> Lab and Science Spaces	L.	1042	Ocean Winch, wire type and length 1	D (in), L (M)	0.681"EOM cable, 5/8" Synthetic rope,
Main Lab	ft²	520	Ocean Winch, wire type and length 1	D (in), L (M)	<10km 9/16" wire rope, 10km
Wet Lab	ft <sup>2</sup>	440	Science Equipment	D (111), 2 (111)	3/10 WITC TOPS, 10101.
Additional Labs <sup>2</sup>	ft <sup>2</sup>	465	Main Mast instruments		wave Radar, wind speed/ direction - space for more
Library/Conference Rooms/Lounge	ft <sup>2</sup>	195	Met tower instruments		wind speed/direction, barometer, temp, long/short wave radiation, PAR
Temperature controlled labs	ft <sup>2</sup>	in vans	Retractable Centerboard		yes
Science Storage	ft <sup>2</sup>	165	Fisheries Acoustics (e.g. EK-60)	Type	EK-80
Sci Hazmat/chemical storage	ft <sup>2</sup>	in vans/day use	ADCPs	Freq.	75 and 300 kHz
-		below hoods			
Deck			Multibeam sonar	Type	EM304, EM2040
Aft Deck Areas including staging bays <sup>4</sup>	ft <sup>2</sup>	2220	Open Transducer well locations	1	1 in centerboard, others on transducer flat
Side Rail	ft	76	Work/Rescue boats		1 SOLAS Rescue boat (fast) (diesel) + 1 portable work boat
Maximum Scientific Load (including wire & lab outfit)	LT	66	Transducer pole		Portable, over-the-side
Aft Working Deck Strength	lb/ft <sup>2</sup>	1500	Fume Hoods		2
Deck Socket capacity	lbs	6000	Science seawater system		Yes
20ft Van Locations	number	2	Dedicated ROV		inspection class
Stern Ramp	<u> </u>	none	SCUBA support equipment		dive van
Removable Bulwarks	<u> </u>	yes	Compressed Gases		Portable racks/fixtures
Performance			Dedicated Freezer and Refrigerator Capacities		1 installed combination reefer/freezer plus portable as needed
Cruise Speed	knots	12	Dedicated Incubator Space		3 deck spaces identified with access to ambient supply water
Max Speed	knots	12.5	Science air supply		Ship's service air
Range		5,400 nm @ 12 knots	Coring Device	<del></del>	Portable, Over the stern handling system
Endurance	days	21 minimum	Communications Equipment and Network		
Fuel Capacity (usable)	gallons	50,700	Satellite Communications		dual Ku/Ka band
Fuel Consumption	gal/day	1,585 @ 10/ 990 @ 7	Dedicated Data Center		yes & virtual presence thru real-time data
Bow Thruster	hp	Flush mount 460, Retractable 375	Berths		,
Main Propulsion	hp	1740	Science + Mar Techs	number	16
Bollard Pull	lb	18,410	Mobility impaired accessible (within Science berths)		1
URN target @ 8 knots		AGOR -27/28, DNV Silent A, Silent S	Crew	number	13
Ice Class	+	ABS CO	Berthing Van Option		Yes-4 person
Dynamic Positioning Capabilities	+ + +	ABS DPS-1	Total without Berthing Van	number	29
Notes:  1. ITC is "International Tonnage Convention"  2. Computer Lab, Data Center, Atmospheric Eq. 3. Full load is at the load line draft of 14'	quipment Room				