

## Detailed design of a 24m research vessel

Delivered cost of vessel : Approx \$2.6 millions



Designed for the University of Quebec at Trois-Rivière to fulfill the needs of scientists, this catamaran was tailored towards fresh water research in shallow waters. Powered by waterjets, this vessel can navigate in less than 1.5m of water. Due to the catamaran platform, the aft working deck is large and well equipped. It also offers accommodations of dimensions seen on vessels of a much larger size. Due to the ever increasing fuel costs, twin slender hulls decrease the fuel consumption and allows the mounting of bottom profiling equipment between the two hulls.

Having been custom designed from start to finish, all the equipments are located in ideal locations, from the wet and dry laboratories located at the vessel's center of motion to the large saloon at the bow to the side jib cranes outboard of each hulls. This vessel features a hoist platform nested between the two hulls that can be lowered down to the waterline to launch and retrieve test equipment.

Built in aluminum to reduce maintenance costs and increase performance, this catamaran offers a stable and efficient platform. It can be tailored to individual needs by increasing the laboratory sizes or changing to propellers.

## Principal Particulars

Length over all .....	25.2m	82.7ft
Length on waterline .....	24.0m	78.7ft
Breadth over all.....	6.8m	22.3ft
Installed power.....	2x430kW	2x580hp
Fuel capacity.....	3.6m <sup>3</sup>	1000gal
Cruising speed.....	12 knots	
Max speed .....	16.5 knots	
Endurance at cruising speed .....	500nm	
Berths.....	8	
Launched .....	2005	
Stern A-Frame capacity .....	2000kg	4400lbs
Side small jib crane (2 off) .....	200kg	440lbs
Side small jib crane (2 off) .....	100kg	220lbs
Boom crane .....	650kg@5.4m	1450lbs@17'
Web laboratory .....	16.2m <sup>2</sup>	174ft <sup>2</sup>
Dry laboratory .....	9.5m <sup>2</sup>	100ft <sup>2</sup>
Launching platform .....	1500kg	3300lbs
Fishing drum net		
Stowable arm for deployment of depth sounders, bottom profilers, etc		

