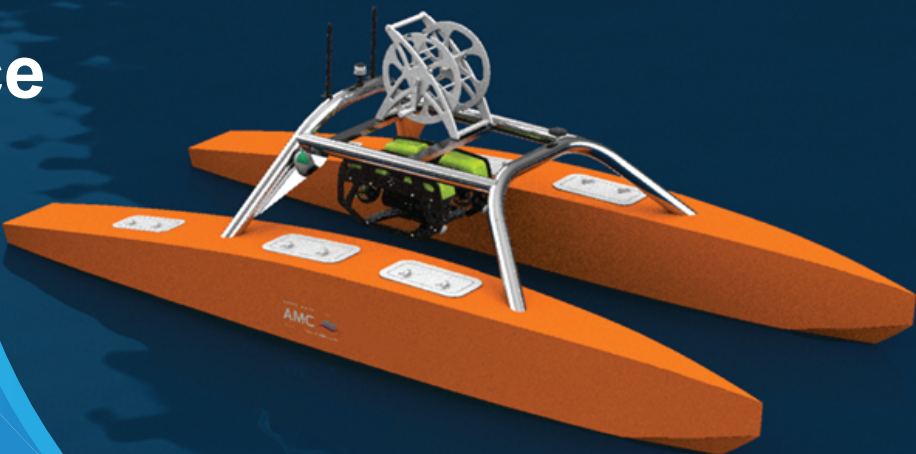


Inshore Versatile Uncrewed Surface Vessel



The Science Cat (SCICAT) USV is an innovative vessel designed by AMC. This small, highly portable but full-capability vehicle utilises commercial off-the-shelf navigation and communication components, making it an efficient, low cost and versatile solution for various maritime applications.

Engineered for operators who require a robust and multi-functional survey solution, Science Cat is a research-informed platform capable of supporting heavy payloads and operating effectively in wave heights up to 1.5 meters. Its versatility makes it ideal for hydrographic, environmental and coastal monitoring.

Applications:

- Autonomous System Development
- Autonomous Survey
- Hydrographic Data Acquisition
- Winch Deployment (CTD Cast, Cameras on tow fish, ROVs)
- AUV/UAV Deployment

Benefits:

- Robust, HDPE Construction
- Adjustable, payload support structure
- Low cost
- WIFI and satellite communications
- Onboard companion computer (running ROS2) for sensor integration and advancing Autonomy

- Ruggedised base station computers included
- Trailer portable

Length Overall	3.1m
Breadth	1.51m
DWL Draft	0.205m
Displacement (Lightship)	170 kg
Hull Form	Catamaran
Construction	HDPE
Propulsion	2x 1.4kW Podded Thrusters
Battery System	24V 300Ah
Maximum Speed	5.5 knots
Communications	Joystick RF <200m Wifi 2.4/5 GHz Satellite
Payload Capacity	100 kg
Support Equipment (Standard)	Payload companion computer Ruggedised operator laptop