

Survey Note

Shell Ocean Discovery XPrize Competition, Kalamata, Greece, October 2018, Bathyswath-2 OEM (117kHz), Fraunhofer IOSB Great Diver AUV



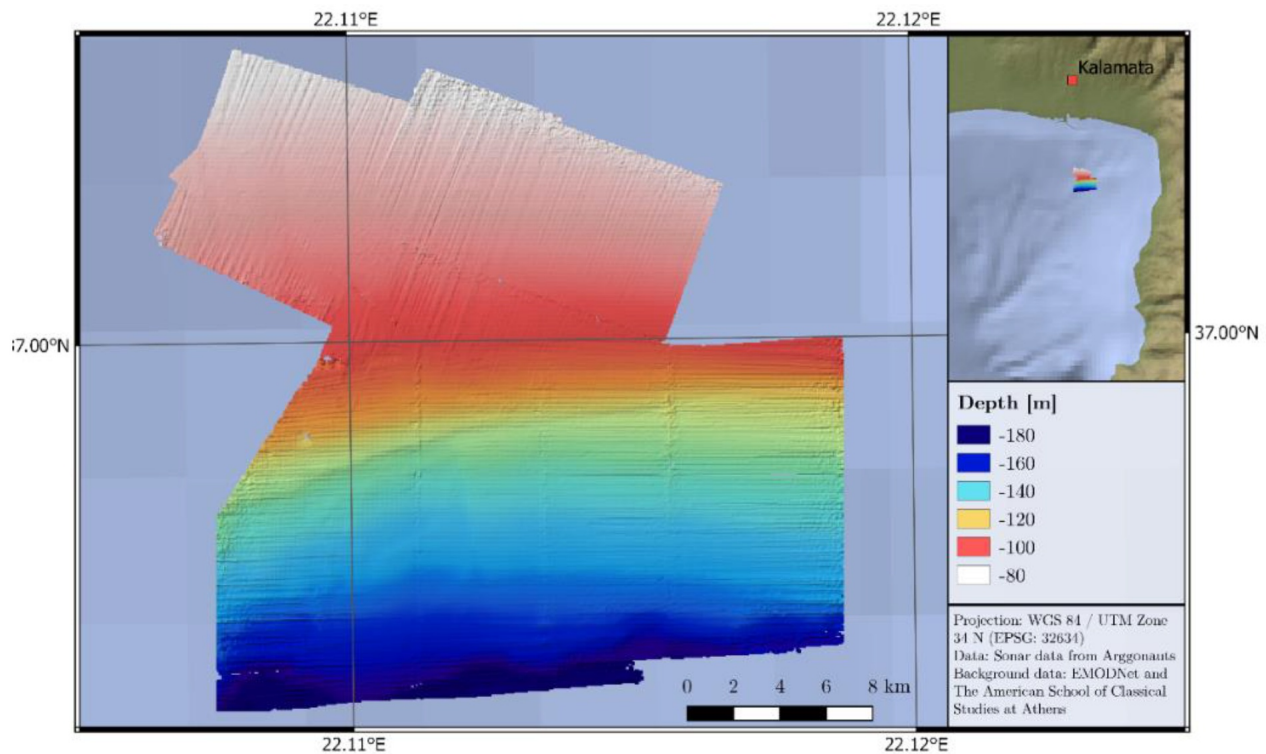
Survey description

When a team from Arggonauts team from Fraunhofer IOSB institute in Germany entered the Shell Ocean Discovery XPrize competition, to survey 500 km² of seabed down to 4000 metres depth, they selected the Bathyswath-2-OEM system, with 117kHz transducers built to 4000m depth rating. The small size, low power consumption and low cost made it possible to equip a fleet of five of their Great Diver autonomous underwater vehicles (AUVs),

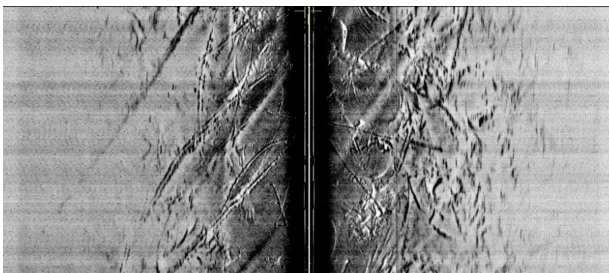
which worked together to survey the area.

Each Great Diver was towed to site and brought back autonomously by a Water Strider autonomous surface vehicle (ASV).

The Arggonauts reached the final five teams in the final competition, but were eventually beaten by a team using a much more expensive commercial AUV.



Depth data from test mission - Image courtesy of Fraunhofer IOSB



Sidescan data from test mission



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