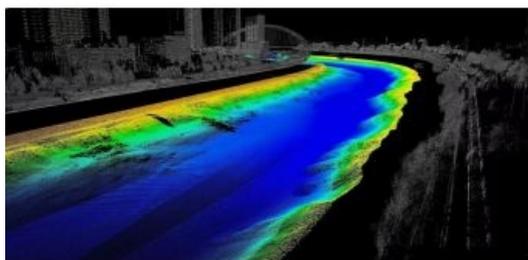


30th China Ocean Surveying and Mapping Academic Seminar



The 30th Ocean Surveying and Mapping Academic Seminar was held in Zhuhai on 29 August. The event was hosted by the Ocean Surveying and Mapping Committee of the China Society of Surveying and co-organised by Oceanalpha Intelligent Technology. The conference attracted nearly 200 delegates, including representatives from the Ministry of Natural Resources, the Ministry of Transport, the Ministry of Water Resources, the Chinese Academy of Sciences, the Navy and manufacturers of surveying and mapping instruments.



Joint operation of USV, multibeam echosounder and 3D scanner

On 31 August, the participants visited Oceanalpha's unmanned vessel base and watched a demonstration of surveying instruments based on unmanned vessels. The M40USV from Oceanalpha was deployed with the Reson T20P multibeam echosounder and the Merlin 3D laser scanner. The technician is able to control the USV and the equipment on the base station on shore. Video and survey data is sent back in real time so the whole survey process is under close monitoring and the flexible operation mode facilitates quick adjustments.



Oceanalpha M40USV deployed with the 3D scanner and multibeam echosounder.

In this combination, data from the 3D scanner and the multibeam echosounder can be synchronised to simultaneously produce an accurate dataset of the environment above and below the water line on the base station. The full marine environment can be mapped autonomously in a single pass, which greatly improves the working efficiency and reduces costs.

Demonstration of USV and SES2000 SBP

The SES-2000 series is designed for shallow-water operations such as near-shore and river courses with a water depth of less than 400 metres. When carrying the SBP, the M40USV only submerges 40cm below the water surface, which is ideal for shallow-water operations like surveys in rivers, harbours, coastal areas and sediment investigation for dredging projects.



Image output by Merlin 3D laser scanner.



Participants watch the survey process on the USV base station monitor.