

New Multibeam System

Atlas Fansweep Coastal, the first of a new series of advanced Atlas Fansweep 30 multi-beam echosounders designed to exceed IHO standards over depths in excess of 600m, has been introduced by Atlas Hydrographic. Developed for both hydrographic survey and oceanographic research applications covering waterways and coastal regions extending to continental shelf boundaries, the system features enhanced levels of data quality to reduce general post-processing requirements. Operating between 100 and 200kHz, with broadband frequency coverage depending on water depth and conditions, it additionally features simultaneous multi-ping technology for concurrent transmission of multiple steered pings in a water column. This ensures significant increases in seabed ensonification while virtually eliminating shadowing and permitting increased survey rates in exacting sea states.

Other features include High Order Beam-forming (HOB) which extends conventional beam-forming techniques to provide consistent, high-resolution delineation of bottoms across a particularly wide swath, so increasing data quality and survey outputs. Support functions comprise an intuitive operator interface via an integral Hydrographic Processing Suite (HPS) incorporating 2D/3D bathymetry, feature detection and bottom type classification, water column analysis and continuous calculation of total propagated error, supplemented by an extensive range of management planning and operating options. Of modular open-architecture design, Atlas Fansweep Coastal also includes built-in test facilities for automatic indication of operator status and alert functions, and provision for online and remote diagnostics.

<https://www.hydro-international.com/content/article/new-multibeam-system>
