

Hydrographic

Survey Systems Integration



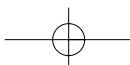
FINNISH MARITIME ADMINISTRATION – Since 1998 the Hydrographic Survey Division of the Finnish Maritime Administration has been using the full EIVA software suite comprising navigation, data acquisition and post-processing software for their multibeam hydrographic survey systems. Installed onboard survey vessels and survey launches the software suite is a central key to FMA for performing hydrographic surveys in the territorial waters of Finland.



ROYAL DANISH ADMINISTRATION OF NAVIGATION AND HYDROGRAPHY – The Royal Danish Administration of Navigation and Hydrography is successfully using the NaviPac, NaviScan, Contour and NaviEdit software onboard its survey launches. The system comprises a/o Reson 8101 multibeam echosounder, POS/MV version 3, Ashtech Z-12 RTK DGPS and EMRI SEM200 autopilot for line control. An identical software suite is supplied to "Poul Løwenørn", a new built inspection vessel used for handling of buoys and maintenance of lighthouses in Danish waters. This system is equipped with Seabat 8125 multibeam echosounder for relocation buoyancy material and search for lost moorings and buoys on the seabed.



GERMAN RIVER AUTHORITY – NaviPac, NaviScan, Contour and NaviEdit are part of several complete hydrographic multibeam survey systems operated by the German Water Authority, WSA. WSA has the responsibility to provide, maintain, and monitor the waterways of its respective regions. Through its work WSA contributes to securing a cost-effective and environmentally sound water traffic system, from small leisure boats to large container ships. In excess of the on-line software provided, the NaviEdit software and to some extent also NaviModel and NaviPlot are used at WSA shore-based off-line post-processing offices.



Hydrographic Survey Systems Integration

GOT OF KOREA – Global Ocean Technology Co. Ltd. (GOT) is a Korean survey company whose main business is performance of hydrographic and geophysical surveys as well as providing assistance for dredging. In 2001 GOT took delivery of a complete high-resolution multibeam survey system based on the complete EIVA software suite: NaviPac, NaviScan including Contour and patch test calibration, NaviEdit, NaviModel and NaviPlot. The hardware comprises a/o Seabat 8125, TSS DMS2-05, Anschütz Standard 20 and sound velocity profilers SVP15/SVPD10 and SVP-C.



DANISH COASTAL DIRECTORATE – In order to survey the Danish West Coast with the aim of performing coastal protection, the Danish Coastal Directorate has equipped its two survey launches with complete multibeam echosounder systems. In excess of the complete EIVA software suite, NaviPac, NaviScan, NaviEdit, NaviModel and NaviPlot, each system comprises a hull-mounted SeaBat 8101 with 210 degrees coverage, TSS Dynamic Motion Sensor and Ashtech DGPS. The NaviPac software performs automatic correction of the water height through calculation of heave correction values based on the combined use of DGPS and motion sensor. The hydrographic survey systems provide the Danish Coastal Authority with real-time imagery presentation with 4 centimetres accuracy.



SUEZ CANAL AUTHORITY (SCA) – As part of a hydrographic survey system SCA in Egypt is using the full EIVA software product suite comprising NaviPac, NaviScan, NaviEdit, NaviModel and NaviPlot. The system provides SCA with a shallow water multibeam echosounder and DGPS positioning system for surveying the Suez Canal. Easy and efficient data processing and charting of fair sheets is essential to SCA in their daily work routines. Besides compliance to the general technical specifications of the system as defined by SCA, the on-line software fulfils the requirement for TPE (Total Propagated Error) according to the IHO Standards for Hydrographic Surveys Special Publication No. 44.



AL SABAH MARINE CO. – Al Sabah Marine Co. is a general marine contractor providing a wide variety of marine services in the area of the Arabian Gulf. Among others, Al Sabah Marine Co. provides the Kuwaiti Ministry of Communication with capabilities and skills for performing hydrographic multibeam surveys in shallow waters. For this purpose EIVA has supplied Al Sabah Marine Co. with a turnkey multibeam survey system, based on the complete EIVA software suite, on-line as well as off-line, and featuring a/o FanSweep 15 multibeam echosounder, GPS beacon receiver, motion sensor, gyro-stabilized digital compass, SVP probe etc.



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