

Satellite based bathymetry, benthic habitat surveys and water quality monitoring: A new paradigm for fast changing environments

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Satellite Derived Bathymetry (SDB), Satellite Derived Seabed Surveys (SDSS), Satellite based high-resolution monitoring of Water Quality (SWQ) have shown to be valuable instruments in the optimization of hydrographic and environmental surveys for agencies, and the coastal and water industry as a whole. Multiple applications have demonstrated the advantages of these techniques in: Large area mapping, mapping of inaccessible areas and fast response time for time sensitive projects – all at a fraction of the cost of traditional methodologies. Benefits shall be discussed, based on examples for oil- and gas companies such as Qatar Shell GTL for SDB Bathymetry, environmental agencies in Mexico, Australia or Abu Dhabi for SDSS seabed surveys, state agencies in Europe for high resolution inland water monitoring. Latin America is well suited to take advantage of these technologies. Related examples from the EOMAP off-the-shelf production shall be presented and discussed in the frame of applications.