

Applications from airborne laser data in insular caribbean context : feedbacks

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During the last decade airborne laser technology has been more and more used for altimetric, topographic and also bathymetric data production. The innovative french program called Litto3D led by French Naval Oceanographic and Hydrographic Office (SHOM) and National Geographic Institute (IGN) aims at producing a bathymetric and topographic model along the french coastline. This program relies on airborne laser technology. In the Martinique french caribbean island , european and state authorities, after consulting all local potential users, have decided to finance this program to produce data over the whole island. Indeed in the insular caribbean context, particularly exposed to natural hazards, a very good knowledge of the terrain is essential for risks prevention, littoral protection, regional infrastructure and urban development and so forth. The first results concerning the exploitation of these data are presented here with a special focus on risks prevention issues (flooding episodes, tsunamis, sea level rising).