



Overview of Titan's liquid bodies observations by the Cassini RADAR altimeter

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We present an overview of Titan's liquid bodies as observed by the Cassini RADAR altimeter. Depths and composition of Titan's seas and lakes are revealed by mean of radar processing techniques first applied to T91 (May 2013) observation of Ligeia Mare, Titan's second largest sea (1,2). We show recent results obtained from the analysis of T108 (January 2015) observation of Punga Mare and a portion of the flooded terrain connecting Punga and Kraken Mare. Finally, we discuss results of T126 (April 2017) final fly-by of Titan. During the latter observation Cassini RADAR observed an area in the Northern Polar region of Titan, where several small - medium size (5 – 30 km) lakes are present. We show that the instrument is able to probe Titan's lakes revealing topography, depths and composition of these small liquid bodies.