



CryoSat Processing Prototype, how to generate LRM like echoes with SAR data and a Comparison to DUACS SLA over high latitudes

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Like CryoSat, Sentinel3 embarks a Doppler altimeter. While there is a long experience of LRM processing, SAR nadir looking data are new and will need in depth validation. Thanks to CryoSat data, the processing of SAR data can be experienced in orbit. The continuity to current altimeter data set (based on LRM acquisitions) has also to be analyzed with details. A Cryosat Processing Prototype (C2P) has been developed on CNES side to prepare the CNES SAR ocean retracking study.

This prototype allows to process SAR data in order to generate LRM like echoes on ground. C2P CryoSat products will be compared with DUACS SLA estimates over high latitudes and over dedicated areas where CryoSat mission provide SAR acquisition over ocean (like the Alghulas current).