

Regional processing of altimetry data at the Centre of Topography of the Oceans and the Hydrosphere (CTOH)



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Login Name	Welcome to the CTOH website, here you will find information about this team, its goals, its products, and the applications we work on.			
Password	The CTOH is a French Observation Service dedicated to satellite altimetry studies (Centre of Topography of the Oceans and the Hydrosphere). The CTOH aims to help scientific users develop new altimetric products and applications.			
	Within this framework, the CTOH maintains homogeneous altimetric data bases for the long-term monitoring of sea level and ocean currents, lake and river levels, the cryosphère, and the planet's climate.			
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& New user?	alongtrack GDR data with up-to-date corrections, over oceans and continental surfaces, for different altimetric missions (Topex/Poseidon, Jason-1, Jason-2, GFO, ENVISAT). • coastal alongtrack GDR data with specific Xtrack processing • global surface currents (Geostrophic and Ekman) from 1999-2008			
The CTOH works in close collaboration with scientific research groups at LEGOS to develop new altimetric products, for monitoring lake and river levels (HYDROWEB) , and over the cryosphere (OSCAR) .				OWEB), and over the cryosphere (OSCAR).
	Monitoring lake and river levels - HYDROWEB	Coastal altimetry - Xtrack	Polar Ice Cap topography	
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CTOH regional research products



http://ctoh.legos.obs-mip.fr/products/coastal-products



Many different groups working on this problem (PISTACH, COASTALT, CTOH, RADS, ...)

Monthly climatology of: Cross-track geostrophic current anomalies (altimetry T/P & Jason-1 over the period 1993-2008)

LEGOS

Altimetry current vs distance from coast – Track 146

Observability of mesoscale dynamics in 2D gridded SLA maps

MODIS Aqua Pseudo-color image - 18/03/2003

- Gridded multi-mission maps for regional application (Bay of Biscay):
- → Finer-scale structures in regional maps

From Dussurget et al., 2011

Perspectives

> Regional CAL/VAL activities: analysis of AltiKa performance.

> Work on optimal processing and post-processing strategy for AltiKa altimetric data in marginal seas.

> Add Altika data in our regional archives.

> Development of advanced multi-satellite altimetric products for marginal seas.

> Analysis and characterisation of the sea level variability (mesoscale and sub-mesoscale) observed in the coastal regions.