LOTUS WP7

Frédérique Blanc

WP 7: Dissemination and exploitation

Task 7.5 Security and emergency management (CLS)   Report delivered **on January, 15th**

• Research and identification of existing EU services/projects for security and emergency

    4 challenges have been identified:

        • Natural disaster assessment

        • Enhanced Maritime Security

        • Safety of response of Maritime Search & Rescue

        • Risk assessment for maritime environment

    Each of them has been described as follow:

        •Project/Service

        •Service/ project portfolio

        •Projects Heritage

        •User requirements & shortcomings in the maritime domain

•Preparation of a targeted information describing the results of the LOTUS project to GMES services for security and emergency management

Task 7.5 Security and emergency management (CLS)

Report delivered **on January, 15ᵗʰ**

The LOTUS products have been built for demonstration purposes to first prepare prototype Sentinel-3 data sets.

They also support the development of new potential Copernicus products and value-adding downstream applications for ocean and land services.

In order to utilize the full potential of this new data source, new processing schemes with innovative algorithms need to be developed and implemented. The primary objective of the LOTUS project was aimed precisely at defining and developing new products and processing chains to encourage and promote the take-up of data from Sentinel-3.

Both L2 and L3 data products deal with sea level height along the altimeter pathway.

They do not provide directly any information on to the ocean currents fields but they can be used :

► either to compute high resolution and high accuracy mapping of Sea Level Height and derived Ocean currents

► either to compute optimal along track time series with formal mapping errors to improve the ocean model prevision through data assimilation.

LOTUS products could be used or fused to retrieve actionable intelligence in the challenge areas