

GEOLAND2 - TOWARDS AN OPERATIONAL GMES LAND MONITORING CORE SERVICE; FIRST RESULTS OF THE BIOGEOPHYSICAL PARAMETER CORE MAPPING SERVICE

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Technical Commission VII Symposium 2010

KEY WORDS: Environment, Real-Time, Parameters, Global, Services, Land, Monitoring, Production

ABSTRACT:

The European GMES initiative provides a political framework for future implementations of Services Centres in charge of products and services related to environmental applications. Building upon the results of preceding projects funded by the European Commission, and the European Space Agency, geoland2 is the last brick towards the implementation of fully mature GMES Land Services, consisting of Core Mapping Services (CMS) and Core Information Services (CIS). The goal of geoland2 is to build, validate and demonstrate operational processing lines and products on a user-driven basis. The CMS produce "basic" geo-information on the land state covering a wide variety of thematic content, spatial scales from local to global, and update frequency from 1 day to several years. The Core Information Services focus on a broad variety of thematic fields, like water quality, forest management, spatial planning, agri-environmental issues, food security, carbon cycle analysis. These CIS offer specific information for European environmental policies and international treaties. The Bio-geophysical Parameter (BioPar) CMS aims at setting-up operational infrastructures for providing regional, continental, and global variables describing the vegetation state, the radiation budget at the surface, and the water cycle, both in near real time and off-line mode. The presentation will introduce the concept, the objectives, and the structure of geoland2, and of the BioPar CMS, in the European GMES context. The research, development, production, and validation activities of the BioPar CMS will be presented with a special focus on the first biophysical products available to the institutional users, and to the scientific community.

TOPIC: Operational remote sensing programs

ALTERNATIVE TOPIC: Remote sensing applications

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