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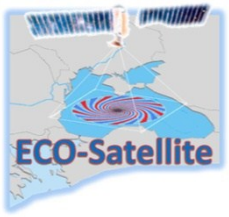

DELIVERABLE ACT1.3 AND ACT1.4

Design Justification Document

Development of a common intraregional monitoring system for the environmental protection and preservation of the Black Sea

Summary

Responsible Partners:

Aristotle University of Thessaloniki	Greece	AUTh

Contributing Partners:

Participant	**Country**	**Acronym**
Danube Delta National Institute for Research and Development	Romania	DDNI
Decentralised Administration of Macedonia and Thrace	Greece	DAMT
Balkan Environment Center	Greece	BEC
Odessa Branch Institute of Biology of Southern Seas National Academy of Sciences of Ukraine	Ukraine	OBIBSS
District Administration Varna	Bulgaria	DAV

Action Start Date: 1 October 2011
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Summary

This report describes the design and the development procedure of the ECO-Satellite monitoring system and its components customized for the conditions of the Black Sea and the project's test areas. In the first part of the report the analysis of the ECO-Satellite monitoring system along with the exploitation of novel data sources for the advancement of environmental monitoring are presented. The ECO-Satellite monitoring system contains two main components: a) The core component and b) the decision support component. The core component refers to the analysis and visualization of the data and the interaction of the system with the end-users. On the other hand, the decision support component utilizes the core one and provides additional options to the end-user for performing specialized actions supporting decision making, risk and vulnerability evaluation and policy making. An additional auxiliary component, which will provide functionality for geodatabase update tasks and system maintenance, will be described as well. In the second part of the report the design of the ECO-Satellite monitoring system components and the required interoperability with the project geodatabase are discussed.

The work for the present deliverable was carried out in the frame of Activities 1.3 "*Adaptation of innovative technologies for environmental monitoring in the Black Sea*" and 1.4 "*Design of system architecture*".