**Ocean Science
Discussions**

Interactive comment on "The Aegean Sea marine security decision support system" *by* L. Perivoliotis et al.

L. Perivoliotis et al.

lperiv@ath.hcmr.gr

Received and published: 29 July 2011

Comment 1: The ensemble scenarios presented in the paper (section 4.2) were made in order to highlight a side of the system's interoperability, i.e. the comparison of results between two different systems which were initialized under the same initial scenario (use of the agreed common input and output files). This was a hypothetical accident and therefore these results were not shown to the authorities. During the support provision by the Aegean DeSS to the real incident that took place on June 2009, the system was not interconnected to similar infrastructures at that time and the results shown for this case (section 4.1) were produced by HCMR system alone. More details about this case are available on our reply on Comment 2

Comment 2: The implementation of HCMR oil spill model with the use of atmospheric

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper

and oceanic input data from different sources would be an excellent demonstration of the Aegean system interoperability. Although such kind of experiments were planned to be realized during the ECOOP project, the necessary data exchange between the participating institutions in the required agreed standard format (NetCDF, CF convention) never took place and this type of comparison did not become possible.

On the other hand, the real case simulation scenario that is presented in the paper was realized using the newly developed ECOOP Aegean DeSS, i.e. the HCMR model and forcing were actually used but both the local atmospheric and marine background data was fed into the system after their conversion to the standard common NetCDF format. So, from a technical point of view, HCMR forcing data was treated by the system as common standard input that could be originated by any source. This kind of procedure could be properly highlighted in the section 4.1 of paper in the absence of the cross runs that were not realized during the project.

However, if the referee believes that a comparison experiment with input from different sources is really necessary to support the system's interoperability performance, this could be realized but for hindcasts closer to the present time, outside ECOOP project lifetime and certainly after December 2010, when MyOcean modeled data that use the above standards started to be produced and are available for retrieval.

Interactive comment on Ocean Sci. Discuss., 8, 1025, 2011.