SPECIAL PROJECT PROGRESS REPORT

Progress Reports should be 2 to 10 pages in length, depending on importance of the project. All the following mandatory information needs to be provided.

Reporting year: 2018

Project Title: Stochastic Coastal/Regional Uncertainty Modelling 2: consistency, reliability, probabilistic forecasting, and contribution to CMEMS ensemble data assimilation

Computer Project Account: SPGRVER2

Principal Investigator(s): Vassilios D. Vervatis (1), Pierre De Mey (2)

Affiliation: (1) National Kapodistrian University of Athens (UoA) .. (2) Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS)

Name of ECMWF scientist(s) collaborating to the project (if applicable): Sarantis Sofianos (1), Nadia Ayoub (2),

Start date of the project: 29 May, 2018

Expected end date: 31 December, 2020

Computer resources allocated/used for the current year and the previous one (if applicable)

<table>
<thead>
<tr>
<th></th>
<th>Previous year</th>
<th>Current year</th>
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<tbody>
<tr>
<td></td>
<td>Allocated</td>
<td>Used</td>
</tr>
<tr>
<td>High Performance Computing Facility (units)</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td>Data storage capacity (Gbytes)</td>
<td>n/a</td>
<td>n/a</td>
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This template is available at: http://www.ecmwf.int/en/computing/access-computing-facilities/forms
Summary of project objectives
(10 lines max)

The ECMWF-SP resources are used in a joint project named SCRUM2, within the CMEMS Service Evolution open tender under Lot 5: "cross-cutting developments on observation, assimilation and product quality improvements". The work proposed here builds upon, and expands, the previous ECMWF-SP project SCRUM. The work is based on stochastic modelling of ocean physics and biogeochemistry, in the context of coastal/regional Ensemble Data Assimilation (EDA) forecasting systems, and includes methods suitable to assess the reliability of Ensembles in probabilistic assimilation systems.

Summary of problems encountered (if any)
(20 lines max)

n/a

Summary of results of the current year (from July of previous year to June of current year)
This section should comprise 1 to 8 pages and can be replaced by a short summary plus an existing scientific report on the project.

The project has just started and there are not scientific results yet.

List of publications/reports from the project with complete references

n/a

Summary of plans for the continuation of the project
(10 lines max)

We wish to continue the SP, since it is linked to a joint Copernicus marine project for the years 2018-2020.