

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)

Please answer for all project resources

		Previous year		Current year	
		Allocated	Used	Allocated	Used
High Performance Computing Facility	(units)	n/a	n/a	5 MSBU	-
Data storage capacity	(Gbytes)	n/a	n/a	7 TB	-

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.