

# OPerational ECology: Ecosystem forecast products to enhance marine GMES applications

## Fact Sheet

### Project Information

OPEC

Grant agreement ID: 283291

[Project website](#) 

Status  
Closed project

Start date  
1 January 2012

End date  
31 December 2014

Funded under  
FP7-SPACE

Overall budget  
€ 2 604 649

EU contribution  
€ 1 999 678,35

Coordinated by  
**PLYMOUTH MARINE  
LABORATORY LIMITED**  
 United Kingdom

## Objective

OPEC will undertake research and development to develop Operational Ecology to augment the capabilities of the GMES Marine Service. Using the Marine Service as a framework, OPEC will contribute 'to the establishment of innovative new GMES products or applications by' establishing the infrastructure for the performance of ecology in the European Regional Seas by implementing a prototype regional ecological Marine Forecast System in 4 European Regions (NE Atlantic, Baltic, Mediterranean and Black Seas), which include hydrodynamics, lower (plankton) and higher trophic (e.g. fish) and biological data assimilation. OPEC will deliver 'new products' in terms of rapid environmental assessments as well as hindcasts for environmental management by providing regular 'geo-spatially referenced' error quantified information products (ECV's and indicators of GES) for European Coastal Seas in both lower and higher trophic levels. By assessing the potential spatial and temporal scales of predictability of seasonal forecast

potential spatial and temporal scales or predictability of seasonal forecast appropriate to both lower and higher trophic levels OPEC will also lay the foundations for the next generation of operational ecological products. In doing so OPEC will provide high quality 3D ecosystem indicators covering a range of temporal and spatial scale appropriate for different policy needs as new service aimed at supporting policy, environmental management and other downstream services by providing error quantified hindcast estimates of the state of the environment in the recent past systems. OPEC will contribute directly to policy requirements such as the MSFD, CFP, the monitoring of climate change and to the assessment of mitigation and adaptation policies. Through engagement with SME's, OPEC will implement new water quality related data products and delivery systems for implementation in downstream services. In addition OPEC will define and deliver the S&T Roadmap and make recommendations for future data requirements for Operational Ecology.

## Field of science

/natural sciences/biological sciences/ecology

/social sciences/sociology/governance/public services

## Programme(s)

## Topic(s)

## Call for proposal

FP7-SPACE-2011-1

## Funding Scheme

CP-FP - Small or medium-scale focused research project

## Coordinator



### PLYMOUTH MARINE LABORATORY LIMITED

Address

**Prospect Place West Hoe**

**PL1 3DH Plymouth**

 **United Kingdom**

[Website](#) 

Activity type

**Research Organisations**

[Contact the organisation](#) 

EU contribution

**€ 378 675,60**

Administrative Contact

**Christopher Tavson (Mr )**

## Participants (8)

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### DANMARKS METEOROLOGISKE INSTITUT

 Denmark

EU contribution

€ 330 000

Address

**Lyngbyvej 100  
2100 København**

[Website](#) 

Activity type

**Research Organisations**

[Contact the organisation](#) 

Administrative Contact

**Torben S. Larsen (Mr.)**

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### DANMARKS TEKNISKE UNIVERSITET

 Denmark

EU contribution

€ 150 000

Address

**Anker Engelundsvej 1  
Bygning 101 A  
2800 Kgs Lyngby**

[Website](#) 

Activity type

**Higher or Secondary  
Education Establishments**

[Contact the organisation](#) 

Administrative Contact

**Ole Henrik Haslund (Mr.)**

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### Food and Environment Research Agency

 United Kingdom

EU contribution

€ 250 000

Address

**Area 1A, Nobel House, Smith  
Square 17  
SW1P 3JR London**

[Website](#) 

Activity type

**Private for-profit entities  
(excluding Higher or  
Secondary Education  
Establishments)**

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Administrative Contact

Steven Mackinson (Dr.)

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## ISTITUTO NAZIONALE DI OCEANOGRAFIA E DI GEOFISICA SPERIMENTALE

 Italy

EU contribution

€ 189 999,75

Address

**Borgo Grotta Gigante 42/C  
34010 Sgonico-trieste**

[Website](#) 

Activity type

**Research Organisations**

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Administrative Contact

**Francesco Gabrielli (Dr.)**

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## HELLENIC CENTRE FOR MARINE RESEARCH

 Greece

EU contribution

€ 190 641

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**Leoforos Athens Sounio 46  
7Km  
19013 Attikia Anavissos**

[Website](#) 

Activity type

**Research Organisations**

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Administrative Contact

**Argyriou Achilleas (Mr.)**

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## MIDDLE EAST TECHNICAL UNIVERSITY

 Turkey

EU contribution

€ 200 024

Address

**Dumlupinar Bulvari 1  
06800 Ankara**

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Activity type

**Higher or Secondary  
Education Establishments**

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Administrative Contact

**Baris Salihoglu (Dr.)**

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## PML APPLICATIONS LTD

 United Kingdom

EU contribution

**€ 140 338**

Address

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Activity type

**Private for-profit entities  
(excluding Higher or  
Secondary Education  
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Administrative Contact

**Timothy Fileman (Mr.)**



## **BROCKMANN CONSULT GMBH**

 Germany

EU contribution

**€ 170 000**

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**Chrysanderstrasse 1  
21029 Hamburg**

Activity type

**Private for-profit entities  
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Establishments)**

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Administrative Contact

**Desmond Murphy (Dr.)**

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