



European Commission's 7<sup>th</sup> Framework Programme  
Grant Agreement No. **226520**

Project acronym: **COMBINE**

Project full title: **Comprehensive Modelling of the Earth System for Better  
Climate Prediction and Projection**

Instrument: Collaborative Project & Large-scale Integrating Project

Theme 6: *Environment*

Area 6.1.1.4: *Future Climate*

ENV.2008.1.1.4.1: *New components in Earth System modelling  
for better climate projections*

Start date of project: 1 May 2009

Duration: 48 Months

**Milestone Reference Number and Title:  
M5.2 Strategy 1 for ocean initialization completed**

**Lead work package for this milestone: WP5**

**Organization name of lead contractor for this milestone: ECMWF**

**Due date of milestone: April 2011  
Actual submission date: May 2011**

## M5.2: Strategy 1 for Ocean Initialisation

The initialization of the ocean is at the core of the decadal prediction efforts. The first objective of WP5 has been to implement feasible ocean initialization strategies for the Earth System models in the project that will take part on the CMIP-5 comparison.

The table below shows a summary of the Earth System model initialization strategies.

Partner	Ocean Initialization	Model
METO	HadCM3	DePresys System
ECMWF CERFACS	NEMOVAR-COMBINE	EC-EARTH ECMWF CERFACS
CMCC	CMCC OI	CMCC-CM
MPG	Anomaly Initialization from existing ocean reanalyses	MPI-M

**Table 1:** Summary of ocean initialisation implemented in a range of models