

## PREFACE Milestone Report

**Milestone#:** MS22

**Milestone name:** Task 6.2 coordinated experiments performed and shared with Tasks 7.1 and 8.3. Data and results made available to all CT3 and WP11 partners

**WP#:** WP6

**Lead beneficiary:** 5 – MF-CNRM

**Original delivery date from annex I:** 30.04.2016

**Milestone achieved:** 28.10.2016

**Comments:** 6 partners performed and provided data for the coordinated experiments agreed as Task 6.2 of WP6. All groups have provided the times series for the experiments listed in the table below. Four partners have already provided the 2D monthly data, and this should be achieved by January 2017 for the others. As WP7 and WP8 have used another experimental design (see 2<sup>nd</sup> periodic report), this delay does not affect WP7 and WP8. The coordinated analysis of these experiment has started from the time series provided. It has been agreed to store two types of data:

1- 2D monthly data (Annex I)

2- time series averaged over 4 boxes of daily data (Annex II).

*Experiment design* (reminder of the agreed protocol): Each group runs a control experiment that corresponds to a seasonal forecast run starting in May and February. For the sensitivity experiments, we have agreed to use ERA-Interim data to replace the wind stress forcing over the following boxes in coupled and initialised mode:

- Experiment 1: replacement over “All coastline 10S-30S, East of Greenwich meridian”
- Experiment 2: replacement over “All equatorial Atlantic 5N-5S”
- Experiment 3: replacement over “All Atlantic 30N-30S”

We have agreed to focus on the period 2000-2009 and to start simulations on February and May.

*Data storage:* Data is stored on the Norstore PREFACE data server hosted at UiB (access via login.nostore.uio.no). Data format and organisation is described in the annexes to this milestone.

The table below lists the experiments performed per beneficiary:

| Beneficiary | Model Name | CTRL     | TAU30    | TAUEQ    | TAUBE    |
|-------------|------------|----------|----------|----------|----------|
| CERFACS     | CNRM-CM-HR | Feb /May | Feb      | Feb      | Feb      |
| IPSL (UPMC) | IPSL-CM5   | Feb /May | Feb /May | Feb /May | Feb /May |
| MF-CNRM     | CNRM-CM-LR | Feb /May | Feb /May | Feb /May | Feb /May |

|            |           |          |           |          |          |
|------------|-----------|----------|-----------|----------|----------|
| UniRes/UiB | NorESM_EM | Feb /May | Feb /May  | Feb /May | Feb /May |
| UREAD      | ECMWF-S4  | Feb /May |           |          |          |
| WU/BSC     | EC_Earth  | Feb /May | cFeb /May | Feb /May |          |