



**4th progress meeting**  
**LAMAR project (LAMAR-DRCT/FRCT- M2.1.2/F/008/2007)**  
**18.06.2008**

**List of participants and co-authors:**

*DOP:*

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1. Distribution of responsibilities e.g. electing the heads of the groups (in alphabetic order):
  - **Physics** (responsible- Igor, support team: Sandra)
  - **Satellite imagery** (responsible- Ana Martins, team: Adriano, Ana Mendonça, Igor, João, Miguel, Paolo, Patricia)
  - **nutrients** (responsible- Ana Filipa/Ana Mendonça, support team: Catià, Clara, Sandra, Silvia)
  - **phytoplankton (primary production and biomass)** (responsible- Ana Mendonça, support team: Ana Martins, Catià, Clara, Silvia)
  - **bacteria-plankton** as primary producer, **viruses** as phytoplankton predators (responsible- Paula, support team: Catià, Clara, Silvia)
  - **zooplankton** (responsible- Paolo)
  - **LAMAR site** (responsible- Guilherme?)
  
2. Please register in Google Groups DOP-LAMAR (<http://groups.google.com/group/dop-lamar>).



3. The program for the afternoon discussion:

**26 June Afternoon (LAMAR)**

- 15:00-15:20 Status and plans for LAMAR physical *in-situ* data project component (10 min pres + 10 min question/considerations)  
*Igor Bashmachnikov and Sandra Sequeira (Portugal)*
- 15:20-15:40 Status and plans for LAMAR biological *in-situ* data project component (10 min pres + 10 min question/considerations)  
*Paula Aguiar (Portugal)*
- 15:40-16:00 Status and plans for LAMAR satellite data project component (10 min pres + 10 min question/considerations)  
*Ana Martins and Ana Mendonça (Portugal)*
- 16:00-16:20 Status and plans for LAMAR inverse hydrodynamic and biochemical model (10 min pres + 10 min question/considerations)  
*Aleksey Koldunov and Alexandra Cherkasheva (Russia)*
- 16:30-17:30 *Brainstorming on: merge of in-situ-remote-model data sets, definition of major outcomes (parameters) to be obtained from the data-sets, 2008 ocean cruises sampling aspects, data processing methodologies.*
- 1730-1800 Coffee
- 18:00-19:00 *Overall discussion*
- 2000 Dinner



## 27 June Afternoon (LAMAR)

15:00-15:30 *Summary of the talks*

15:30-17:30 *Discussion on:*

- a) *Synthesis of physical products to be delivered by various groups and delivery schedule.*
- b) *Synthesis of biological products to be delivered by various groups and delivery schedule.*
- c) *Data management, networking and data exchange.*
- d) *Construction and maintenance of the LAMAR website and relation to AZODC/DETRA sites.*
- e) *Future papers.*

1730-1800 *Coffee*

18:00-18:30 *Minutes of the meeting*

18:30-19:00 *Closing discussion.*

2000 *Dinner*

(The timing is an approximate one).

The presentations should be oriented on double goals: **1. study of temporal variability and spatial structure of the variables; 2. providing information for inverse model (see equation attached)**

- **Physics:** 1. ocean currents, water masses distribution; 2. validation of altimetry data;
- **Satellite imagery:** 1. OC/SST variability and structures, seasonal dynamics; 2. validation of OC/SST against in-situ.
- **Nutrients:** 1/2. if possible to, come out with some consistent spatial (and seasonal?) variability in the region.
- **Phytoplankton:** 1/2. spatial-seasonal variability of primary production and biomass from in-situ data, major groups and their weights on seasonal bases.
- **bacteria-plankton:** 1/2. their role in primary productivity, and how it may enter in trophic chain at higher levels.
- **zooplankton:** biomass and, if possible, spatial-seasonal variability, weights of major groups

1. The first task should ideally lead to a **table:**

Bulk regional average (biomass) and range
Winter-summer differences
Major groups and role in various regions (tropical, subtropical, mid-lat waters; coastal/shallow-ocean-frontal zones) and winter-summer differences

and a **map** of yearly mean distributions at different depths and seasonal (or winter-summer) maps



2. The accomplishment of the second goal should result in a “**flow chart**” (of Carbon?), where sources and sinks (square reservoirs) and influencing factors (circles) are shown.

We will try to join the “flow charts” and simplify, based on the importance of the factors and real data available.