

MAPRES kick-off meeting
Brussels - 31 January 2007

MAPRES

Marine Pollution Monitoring and Mitigation by Remote Sensing

Report by Goffredo La Loggia
University of Palermo

MAPRES: General Description

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MAPRES uses data provided by oil slick remote sensing observation to feed hydrodynamic models applied to forecast threatened areas: well-timed mitigation and recovering measures in a disaster occurrence

- The project will be implemented in the following Countries:

Italy, Republic of Malta, United Kingdom

- The starting date is: January 2007
- The ending date is: December 2007
- duration in months : 12 months
- Total project eligible cost: 300.000 €
- EC financial contribution requested: 150.000 €

MAPRES: Objectives

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The aim of this pilot project concerns the cooperation in the field of accidental or deliberate marine pollution.

In particular the main activity relates to “Marine Pollution Monitoring and detection by aerial surveillance and satellite images”

EXPECTED RESULTS:

-Operating manual on:

- methods, techniques, sensors and procedures for Oil Spill detection using remote sensing
- hydrodynamic Numerical Simulations for spill propagation forecasting
- mitigations procedures

- An exercise on these procedures will be devoted to the crew members of Coast Guard and aerial surveillance aircrafts and personnel working in the field of Satellite Imageries valuation.

MAPRES: Main fields

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Oil Spill detection methods by Remote Sensing

Literature review of existing approaches and methodologies for spill detection by remote sensing

field of active sensors

field of passive sensors

Hydrodynamic oil spill propagation models

Models for the prediction of possible transfer of oil spill heading towards the coast

Mitigation Procedures

Different processes for the cleanup of the coastal environments will be analysed

MAPRES: Actors

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Name of applicant

Consorzio Nazionale Interuniversitario per le Scienze del Mare - CoNISMa
(National Inter-University Consortium for Marine Sciences with two Local Research Unit):

L.R.U. 1 “**Dipartimento di Ingegneria Idraulica ed Applicazioni Ambientali (D.I.I.A.A.)**” **Department of Hydraulic Engineering and Environmental Applications – University of Palermo (ITA) .**

L.R.U. 2 “**Dipartimento per lo studio del territorio e delle sue risorse (DIP.TE.RIS.)**” **Department for the study of the territory and its resources - University of Genova, (ITA)**

Name of partner (1): Lattanzio e Associati (LEA) – Italy

Name of partner (2): University of Malta (UOM) - International Ocean Institute – Malta Operational Centre (MT)

Name of partner (3): The University of Edinburgh (UEDIN)- School of GeoSciences, Grant Institute (UK)

End users:

Italian Coast Guard

Comune di Genova

MAPRES: Time Table

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TASK A - Remote Sensing: field of active sensors (DIIAA)

TASK B - Remote Sensing: field of passive sensors (UEDIN)

TASK C - Hydrodynamic modelling
Action C.1: UoM, Action C.2: DIIAA

TASK D - Mitigation Procedures (DIPTERIS)

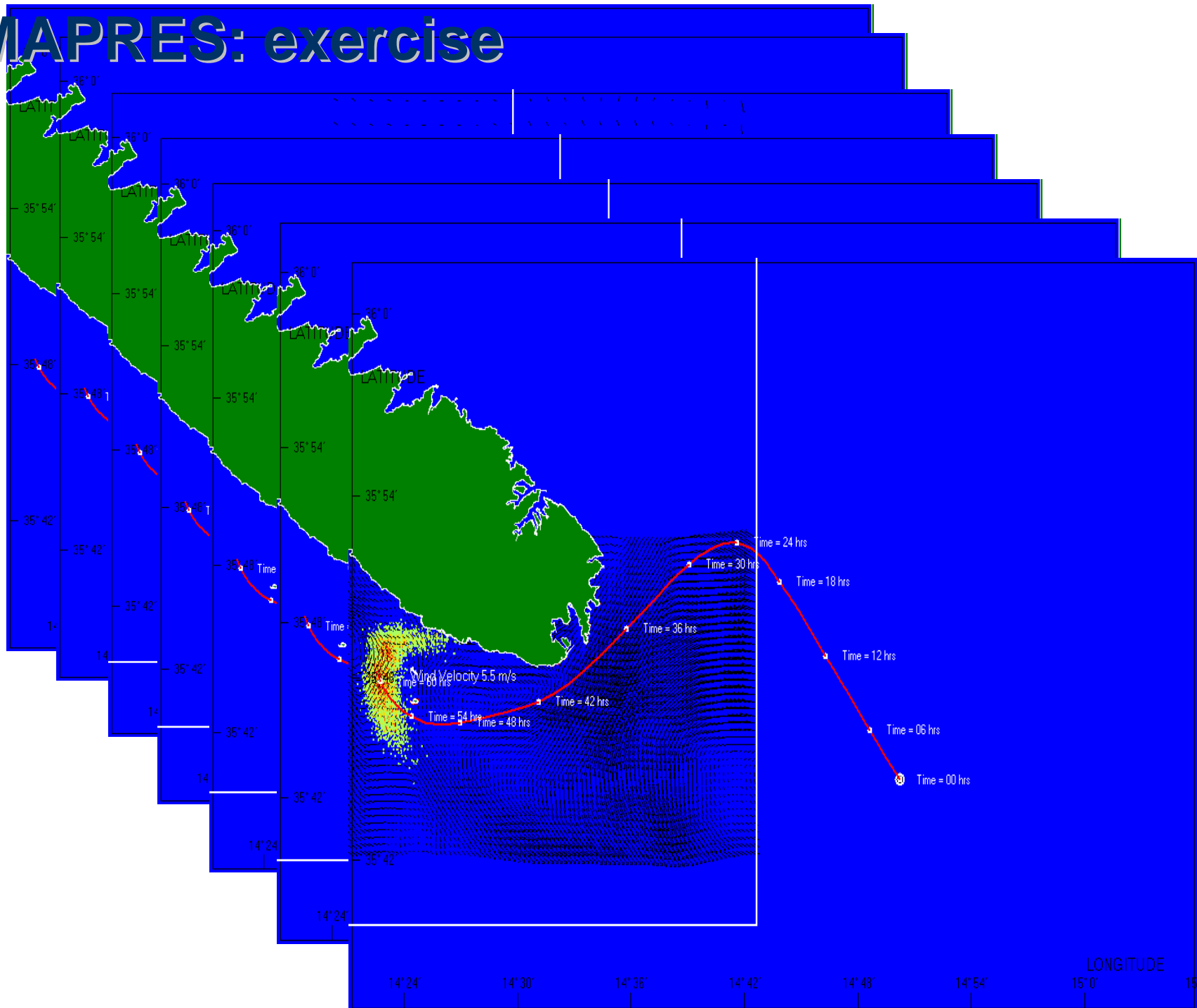
TASK E - Exercise (UEDIN, UoM, DIPTERIS)

TASK F - Project Management and Reporting (LEA)

TASK G - Dissemination (ALL)

MONTHS											
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MAPRES: exercise



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