

rere musi marcheniaci, nu ritary a servere una manu novella sul 1909. La laguna atturra. E la noria di due raparzi che non impovano di diver moritte e di an veochia musimato tabriacone che la supera benziolmo. Eu questo serittore, e non Robert Louis Stevension, nen Contal e reppire Meliville, che pei primo ni fece amare i mari del Sud. E a ha che dedico questa ballata, dove atpare per la primo volto Corto Maltere 2 narimito. Annual Meeting - Malta

Operational Oceanography



1º Ediatione Milana Libri aprile 1991

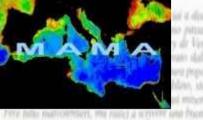
Copertate dell'omore Cora a gestica Patricia Zanetti

Letting Nucleus Corner-

C 1991 Winnik Lbri S.p. A., Milann Scompk a legitura Conservati S. A. Lifneers, Taurmi - Belgio

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Giuseppe M.R. Manzella ENEA - CLIM



Goals

• (1) improve the safety and efficiency of marine operations;

- (2) more effectively control and mitigate the effects of natural hazards;
- (3) improve the capacity to detect and predict the effects of global climate change on coastal ecosystems;
- (4) reduce public health risks;
- (5) more effectively protect and restore healthy ecosystems; and

• (6) restore and sustain living marine resources.

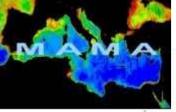


Regional & integrated systems

The predictability of coastal marine environment is limited by:

- existing limitation of the meteorological forecast
- uncertainties of the boundary conditions (influence of the large scale circulation on local dynamics)
- the non-linearity of the processes
- the string links among sub-systems (physics, chemistry, biology)





Experience in the Mediterranean

Mediterranean Forecasting System ('Pilot Project' and 'Toward Environmental Prediction')

ADRICOSM (application of GOOS concepts to Adriatic Coastal Area)



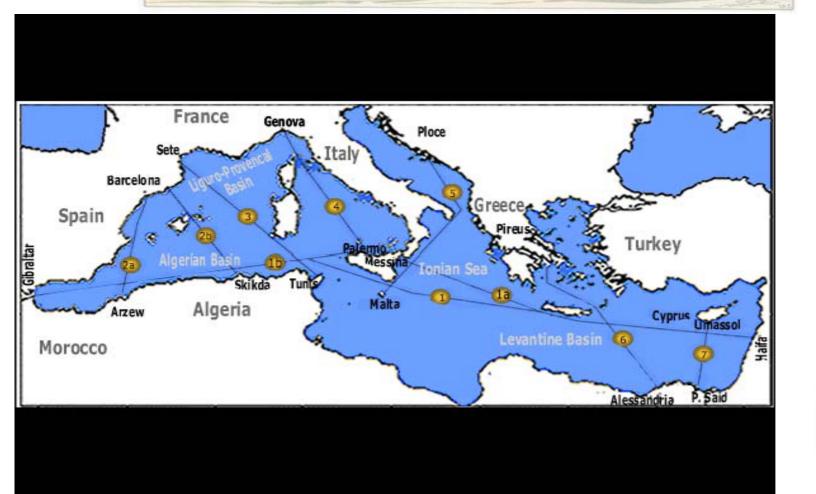




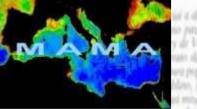
- •Historical data (Medar/MedAtlas)
- understanding of the ecosystem functioning (e.g.MATER)
- •climatologies for the models (MODB, Medar/MedAtlas)
- assimilation methods
- real time data delivery systems
- •feasibility studies of ocean forecasts

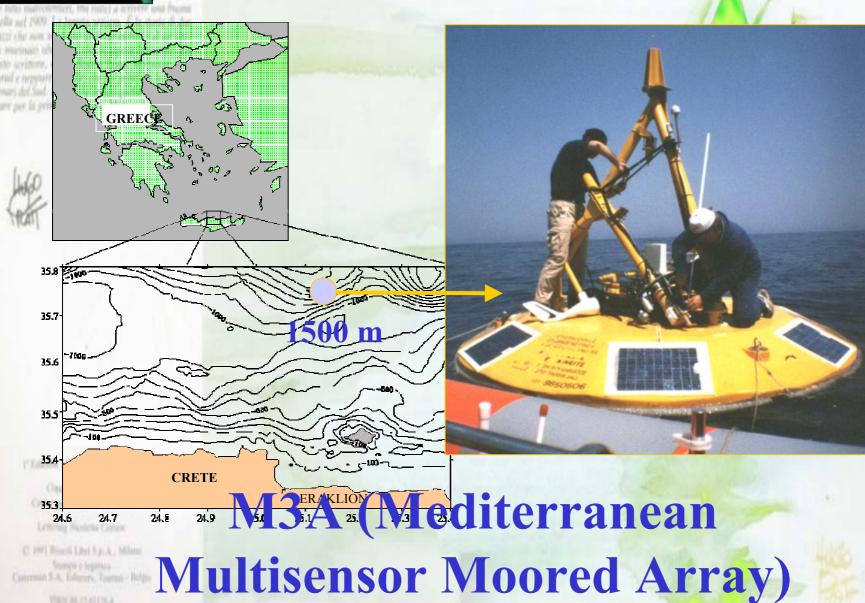


The Ships of Opportunity Programme







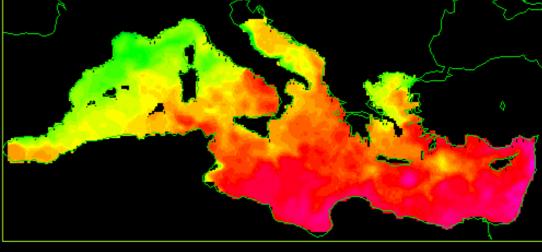


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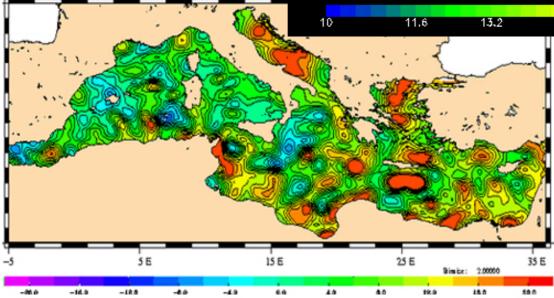
Annual Meeting - Malta Satellite data sets in NRT

rere tatto marconterieri, mo runci a serverte una roman sovella ael 1909. La tagnia artuatta. È la noria di dae rigazzi che non supevano di diver morite e di an veochia rimeinaio ubrincom che lo supeva briaziono. Eu questo scrittore, e non Robert Louis Stevenson, non Contral e negotire Melville, che per primo mi fece amare i mari del Sud. È a lui che dedico questa ballato, deve atpare per la prima volta Corto Maltere il marinito.

Sea Surface Temperature



14.8



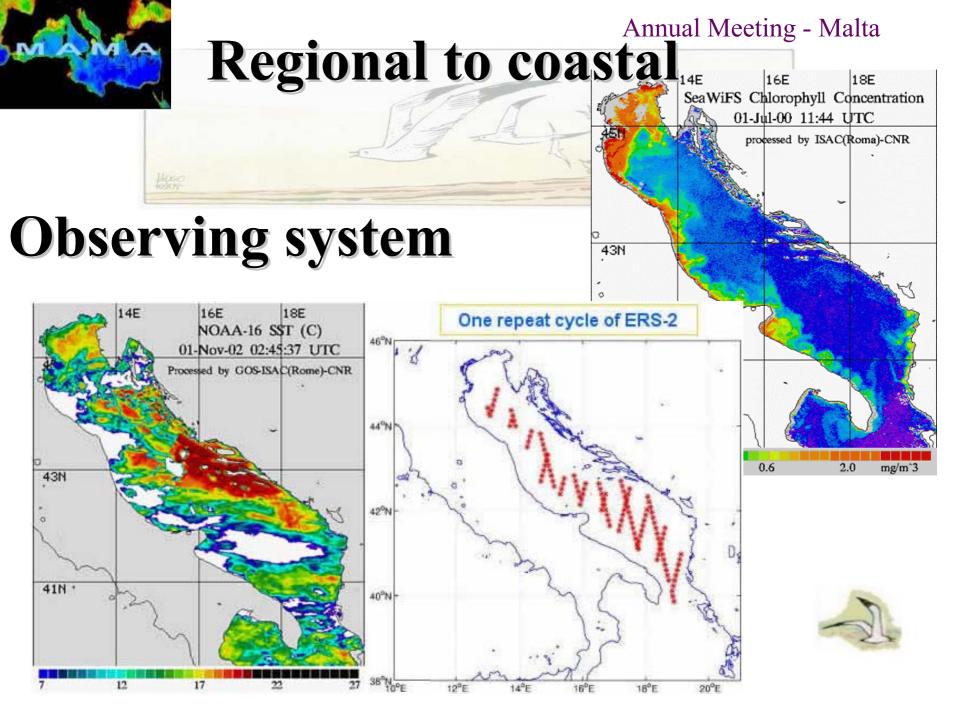
Sea Level Anomaly

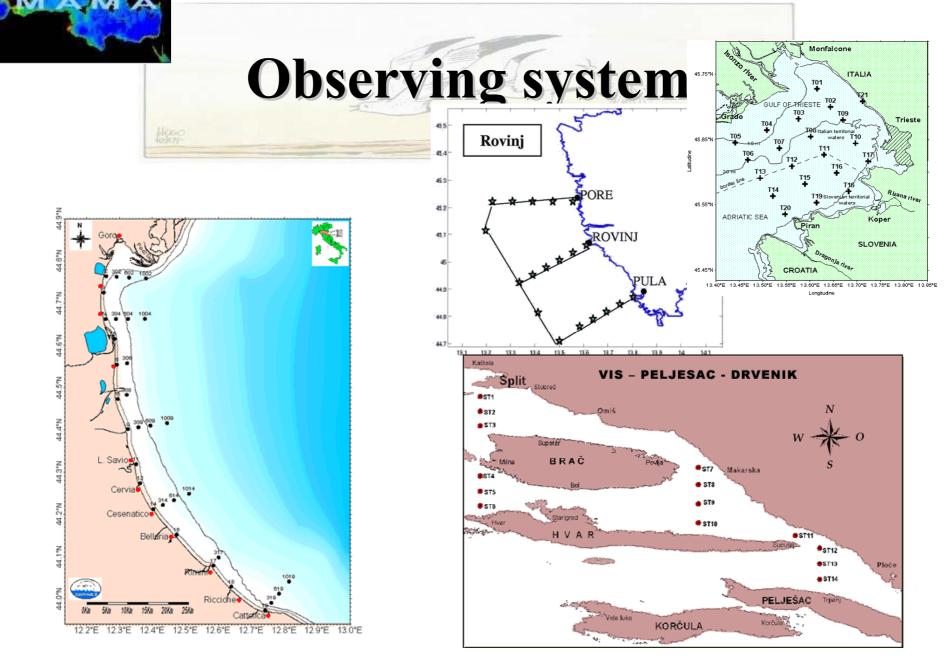
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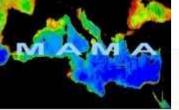
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16.7

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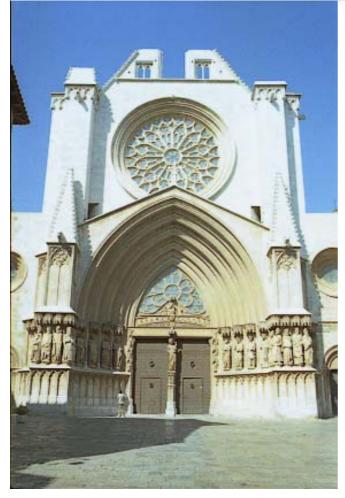


- •Many data are collected and many models are running
- •How disseminate the data, results and information
 •What is the most effective model for dissemination (centralised, distributed)









 Access to data/information through a unique portal









Search of data
is not easy, but
the data are
dispersed in
many sites



