MAMA Rome meeting, 3-6 June 2003

Workpackage-4: MAMA-Model:

Definition of coastal/shelf modelling areas
New model implementations
Exchange visit program

Definition of coastal/shelf modelling areas

INSTM – A. Harzallah and A.Gharbi (Tunisia): Model domain for the Sicily Strait re-defined with increased Resolution.

FSR – M. Snoussi and J. Chao (Morocco) Model domain for the Alboran Sea defined

ISMAR-CNR – G. Umgiesser and I. Scroccaro (Italy): Model domain for the Nador re-defined for nesting

NCMS – N. Kabbara (Lebanon): Model domain for the Lebanese coastal area defined

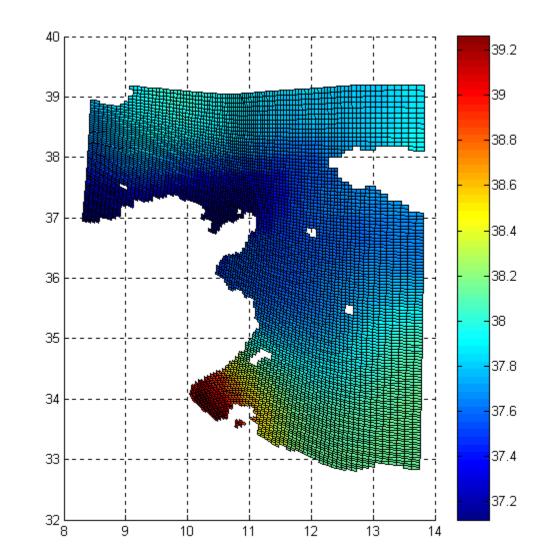
LEM (Algeria): ????????

New Model implementations

INSTM: Sicily Strait Development from An earlier implementation

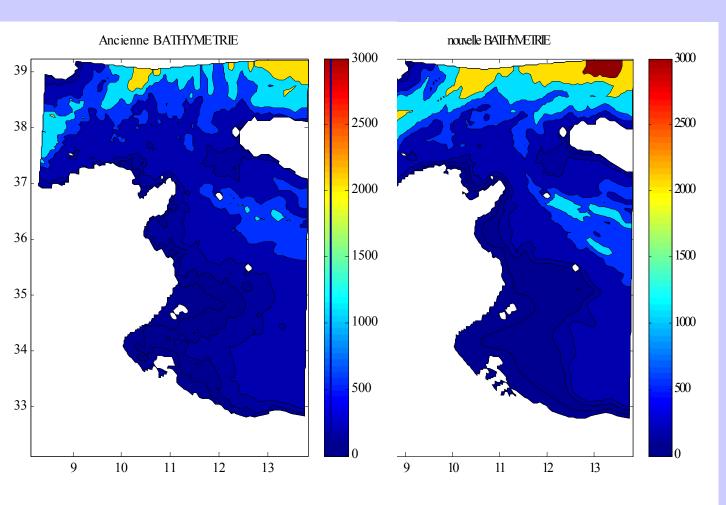
Increased resolution in the Tunisian Coastal areas.

Model Grid and Surface salinity Field (MED6)



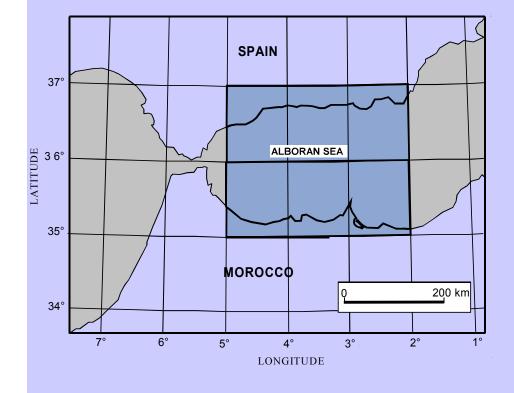
Model bathymetry now obtained from the U.S. Navy DBDB1 data set @ 1min horizontal resolution

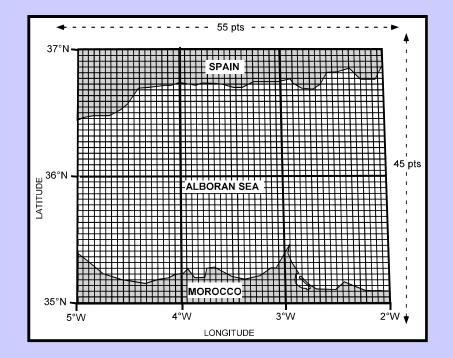
Previous



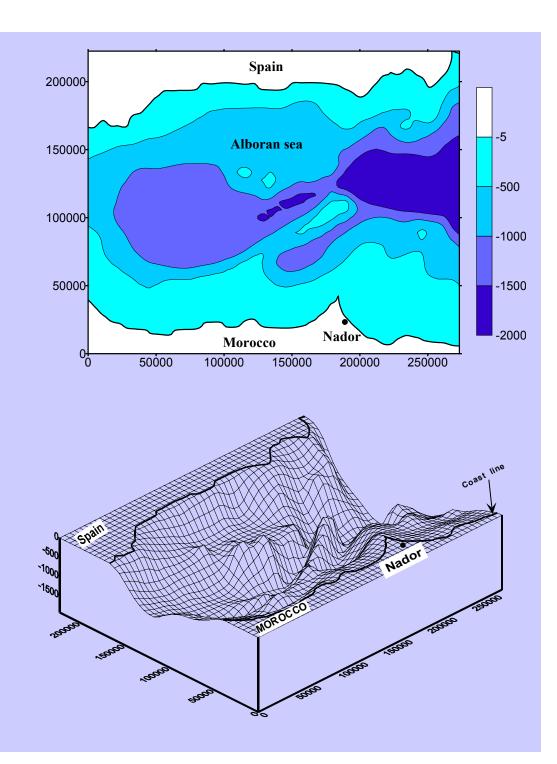
Current

FSR Alboran Sea Model domain About 5 km horizontal resolution 15 σ layers vertical resolution system





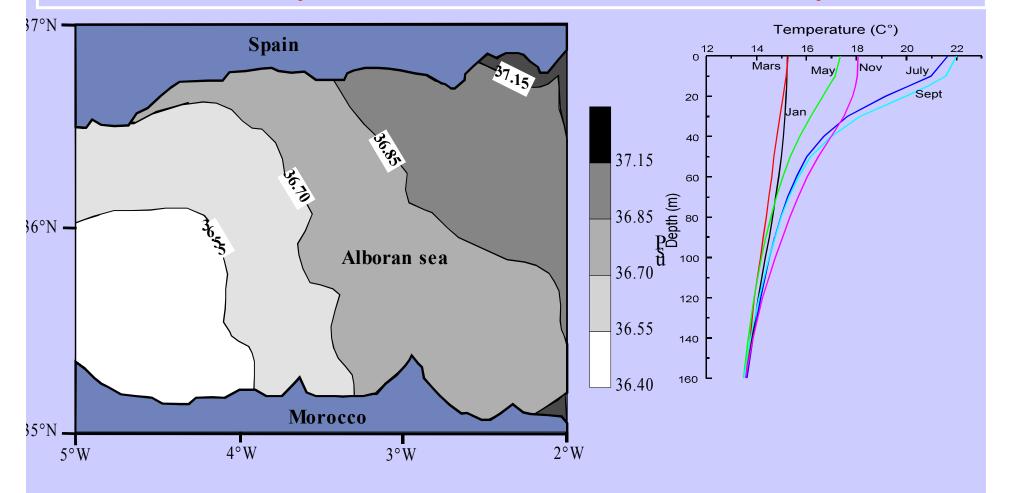
FSR Alboran Sea Model. Bathymetry from DBDB1



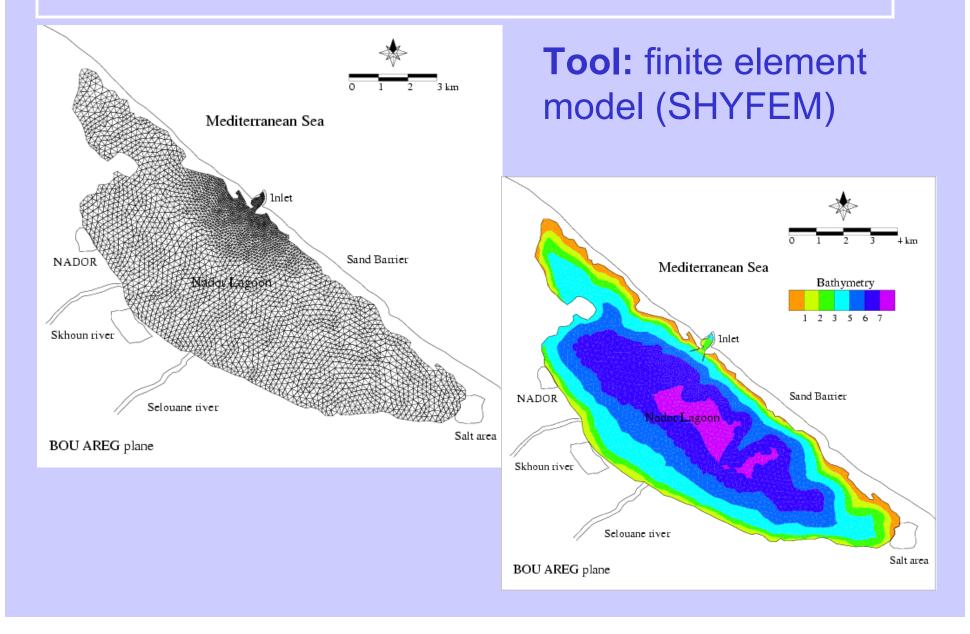
FSR: Initial Conditions and Climatological analysis from The MED6 dataset

Surface salinity field January

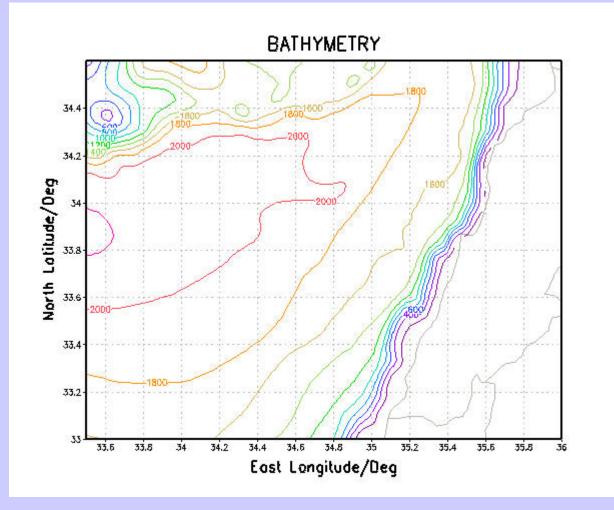
Temperature annual cycle

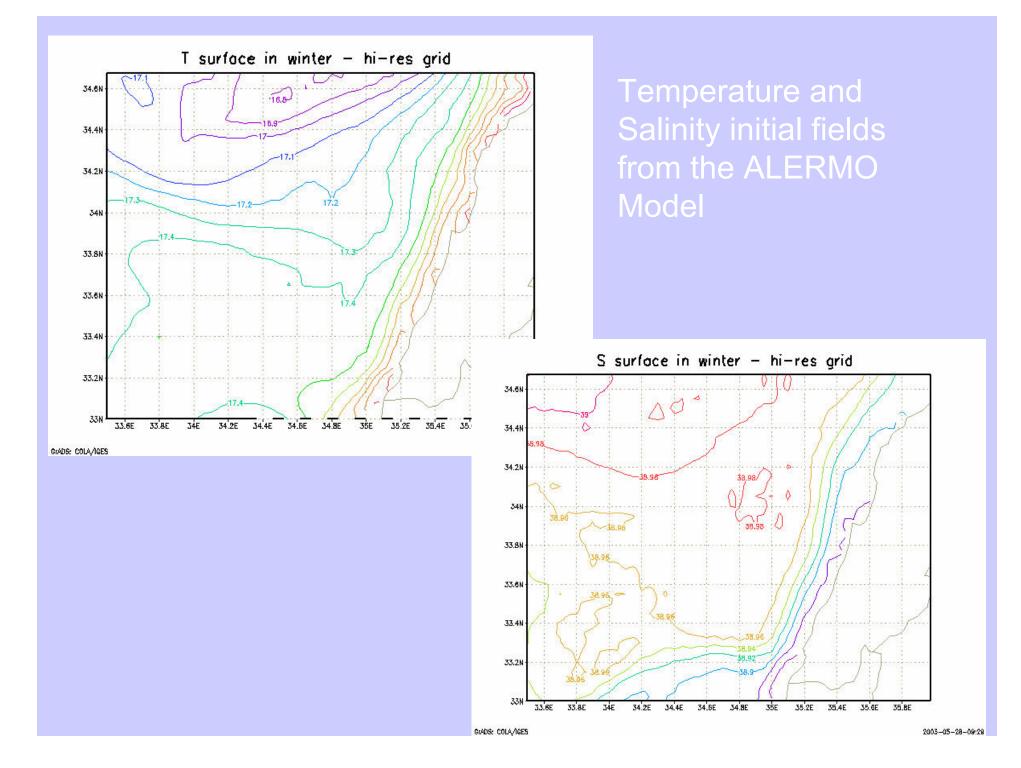


ISMAR-CNR. Nador lagoon: grid and bathymetry

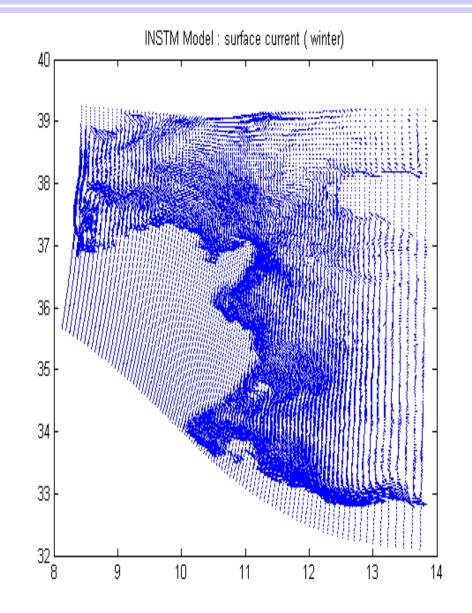


NCMS. Model bathymetry (from DBDB1) Resolution: 1.5 km

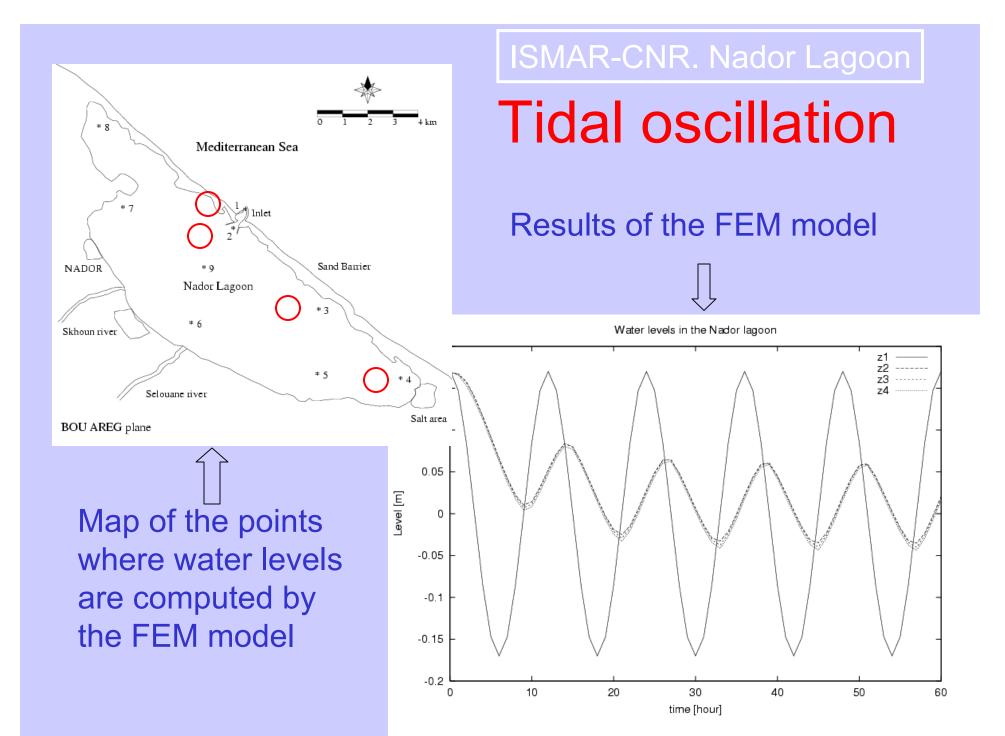




RESULTS: INSTM - SICILY CHANNEL MODEL

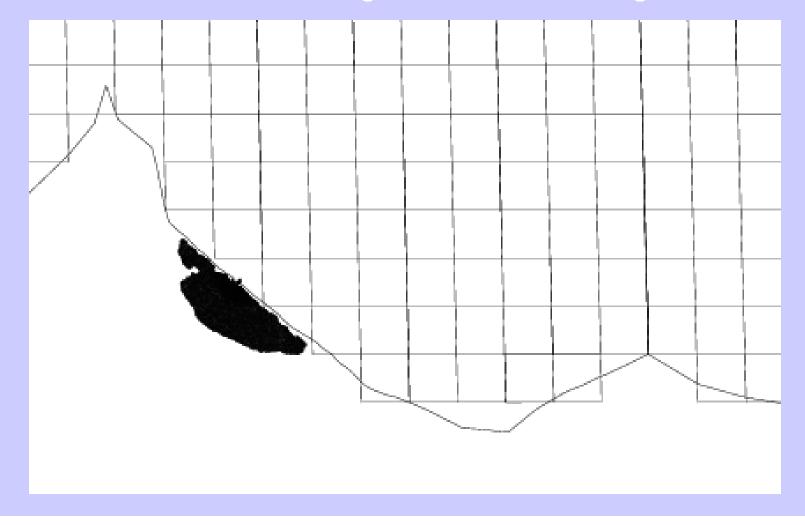


Test run. 1 Month of integration With MFSPP-OGCM nesting



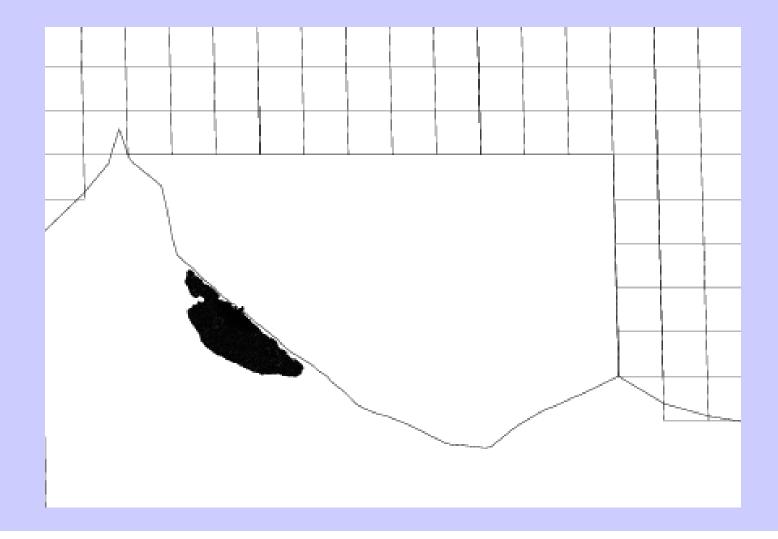
The coupling with the regional model

The finite difference grid of the regional model and the finite element grid of the Nador lagoon



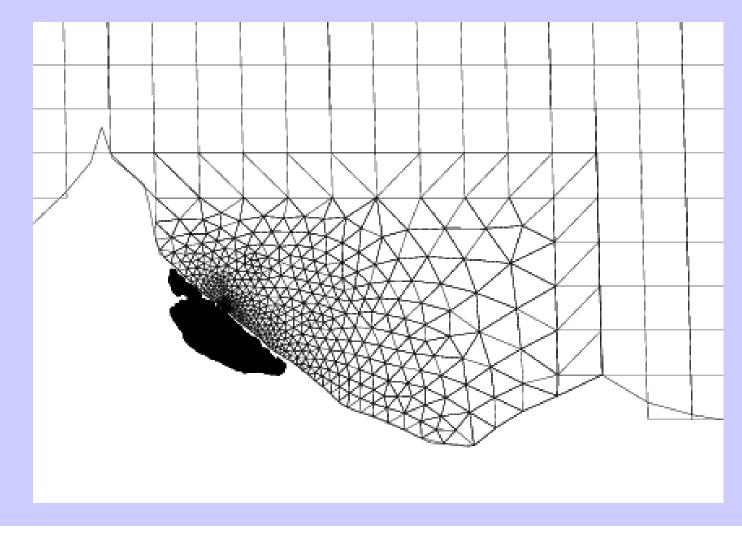
The coupling with the regional model

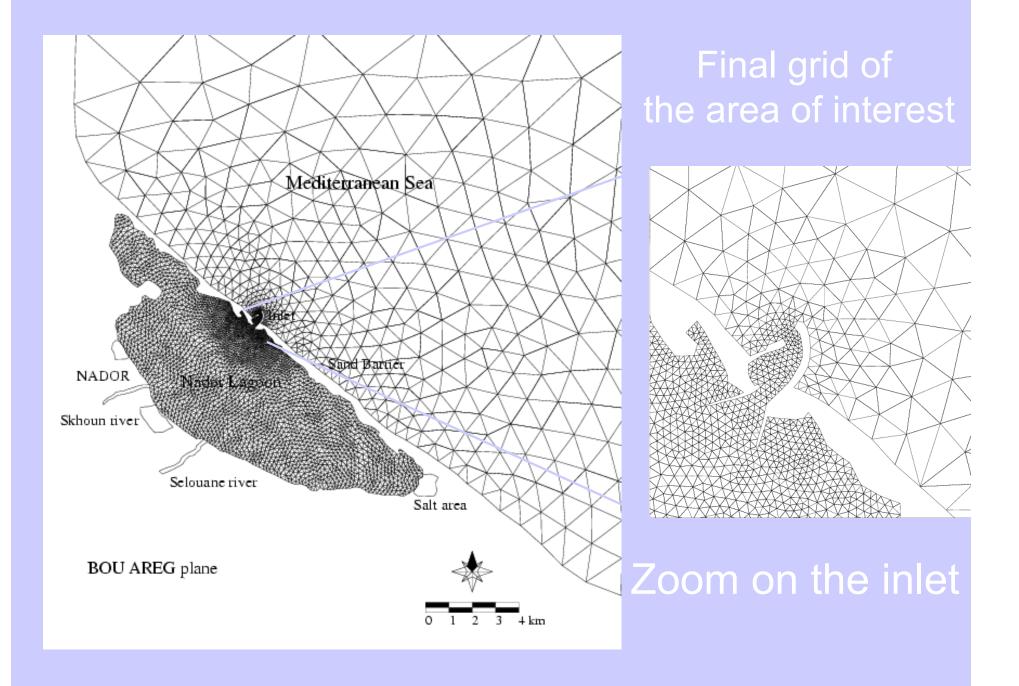
Area to be overlapped by the finite element grid

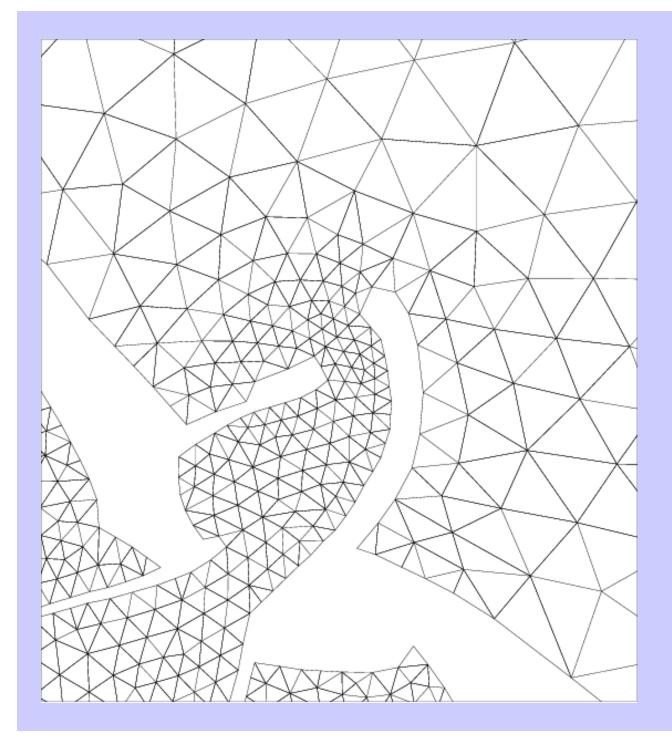


The coupling with the regional model

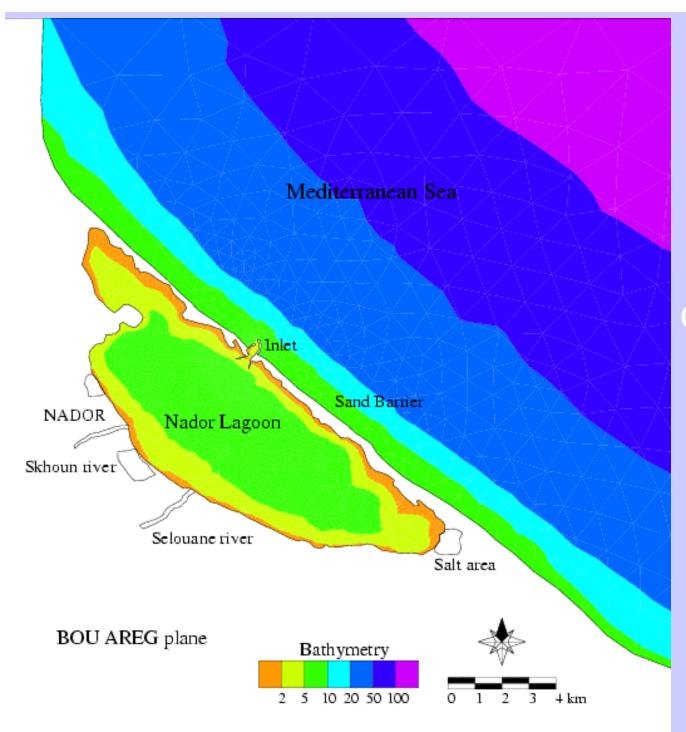
The new finite element grid coupled with the finite difference grid



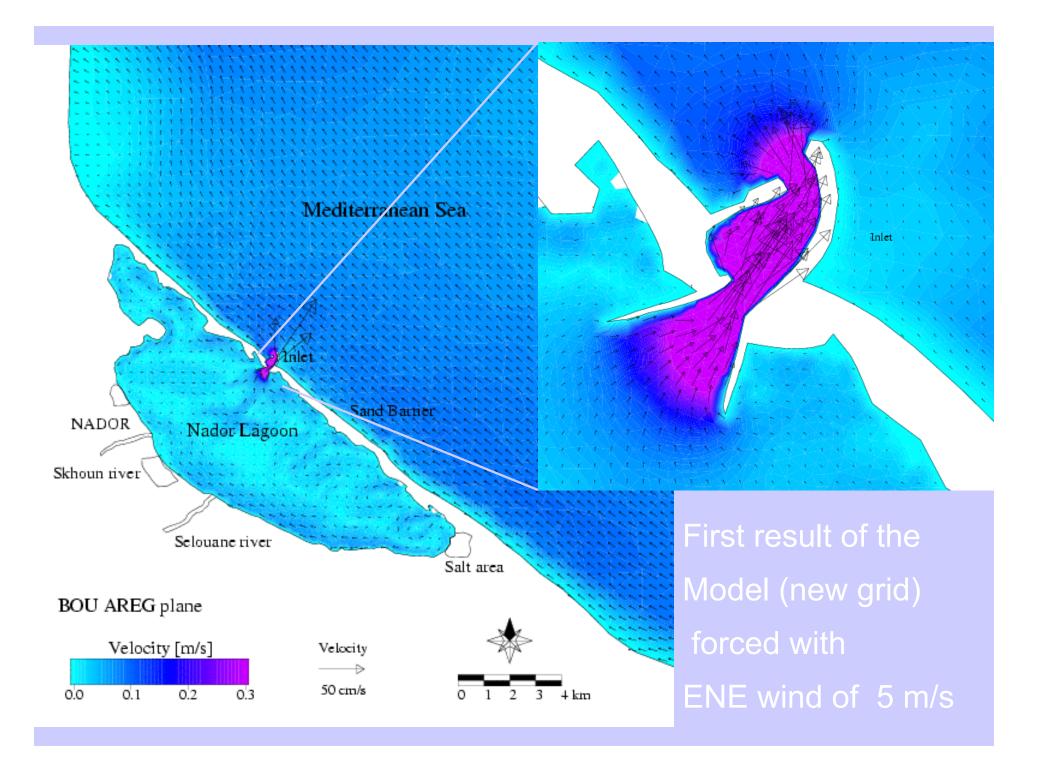


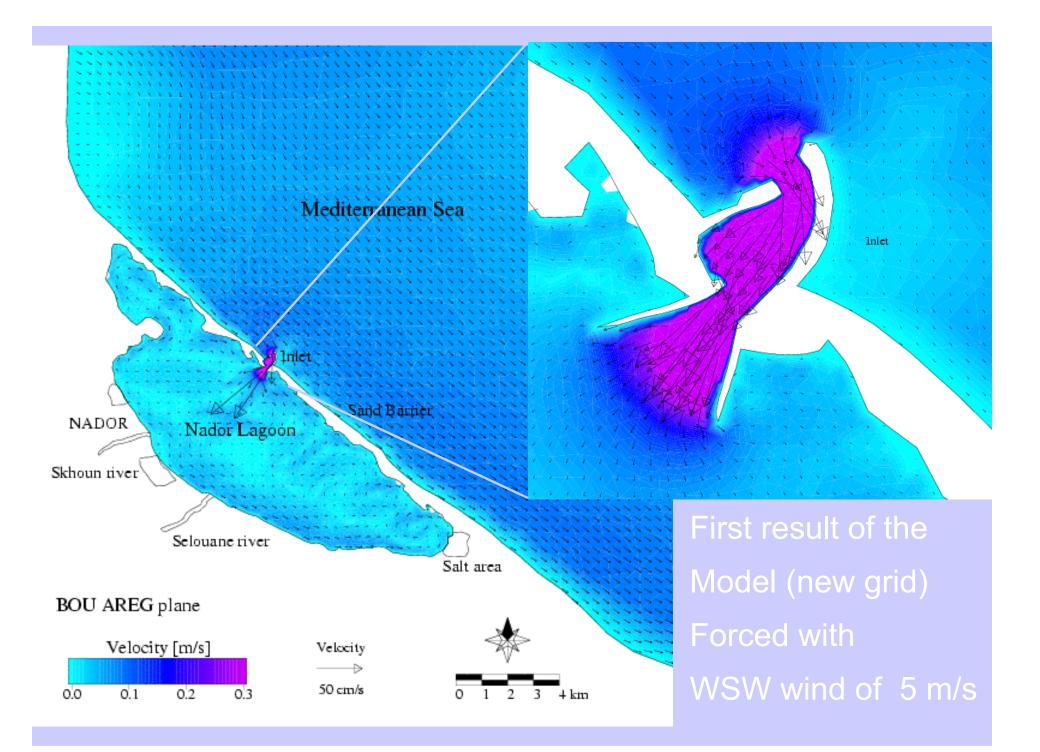


Zoom on the inlet of the finite element grid



Bathymetry of the lagoon and the shelf





Visit Program

- Nijad Kabbara (NCMS): Visit to IMC (R. Sorgente) just accomplished
- Ayda Gharbi (INSTM): Visit at UNIBO (M. Zavatarelli) start after the end of this meeting
- Jamal Chao (FSR) Visit at UNIBO (M. Zavatarelli) start in July