# MAMA

Annual meeting, Athens, 1-2, 5 December 2002

# Workpackage-4: MAMA-Model:

- Definition of coastal/shelf modelling areas
- New model implementations
- Web server data distribution
- Exchange visit program

# Definition of coastal/shelf modelling areas

INSTM: Model domain for the Sicily Strait re-defined with increased Resolution.

ISDGM and FSR: Model for the Nador Lagon Implemented. <u>Shelf model area still to be defined</u>

NCMS: Lebanese coastal area

LEM: ????????

# REPORT ON MODEL NESTING TECHNIQUE AVAILABLE ON THE WEB:

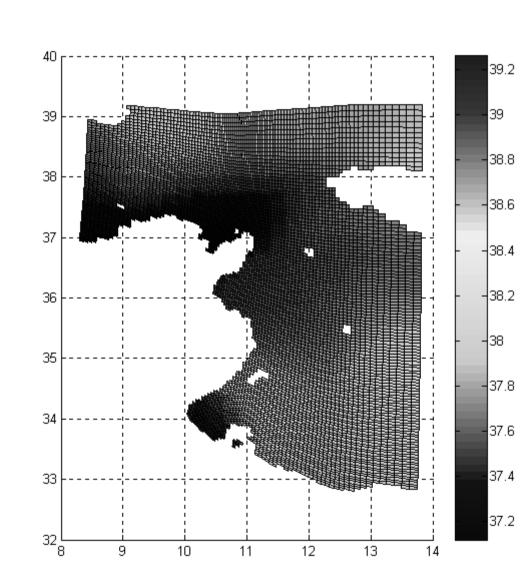
www.ambra.unibo.it/rasponi /sincem/mfsppwp6/nesting.html

Link also from the MAMA-WP4 web page on the MAMA Web server

## New Model implementations

#### INSTM:

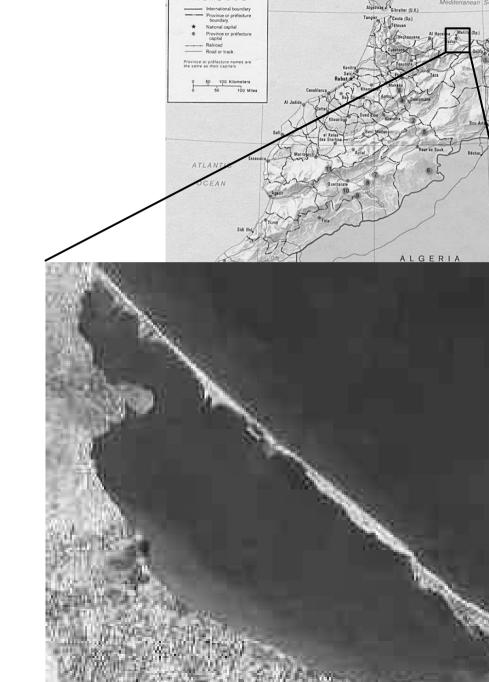
Sicily Strait: Increased resolution in the Tunisian Coastal areas.



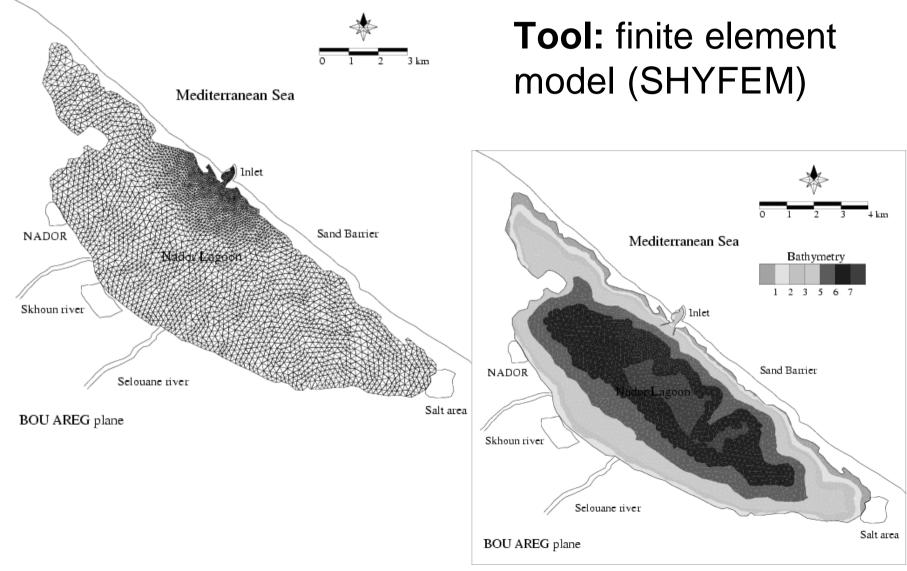
# New Model implementations ISDGM and FSR

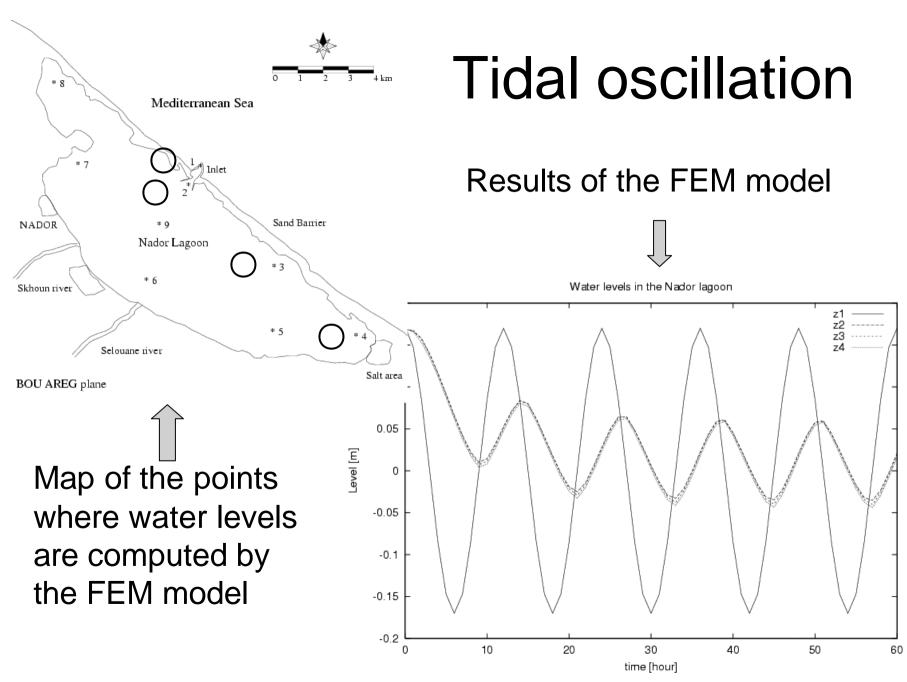
# NADOR LAGOON

- Surface 11.5 km<sup>2</sup>
- Shallow water (max depth 8m)
- Single passage with the open sea
- Aquaculture activity
- Wastewater and seawage discharge

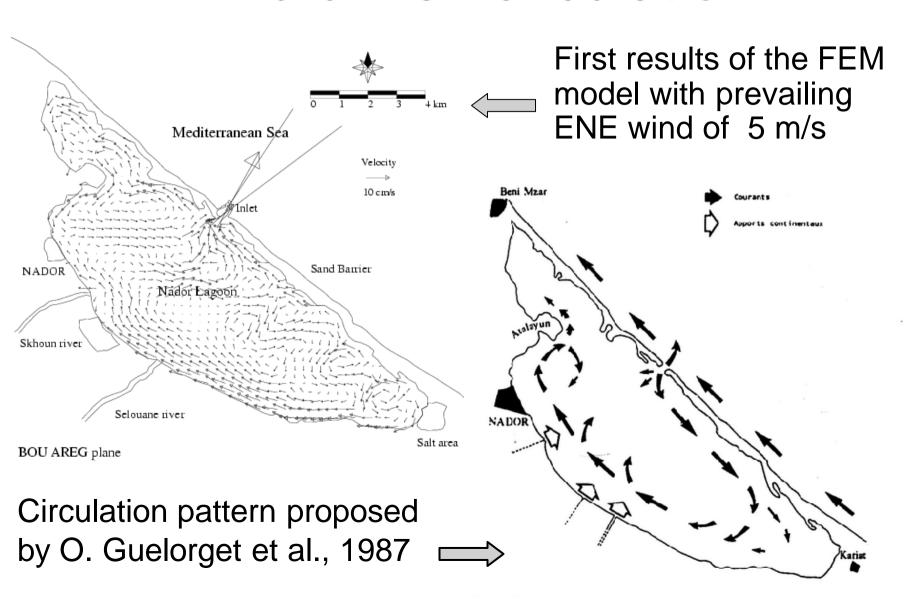


# Nador lagoon: grid and bathymetry





# Wind driven circulation



# Future work (NADOR LAGOON)

- Search for more data to calibrate and validate the numerical models
- Application of the transport-diffusion module for salinity and temperature
- Possible application of a water quality model to assess environmental problems
- Coupling with coastal shelf model

# Web server data distribution

All participants registered, but not all of them accessed the data of access:

ogin on the BSCW server (with you username and password)

So on folder: MAMA WP4 MAMA MODEL

Folders inside (Each folder contains a README.doc document

Bathymetry

Forcing Grid

Inits Obdata

Folder: Bathymetry

#### Contains:

Mediterranean Bathymetry file at 1/60° horizontal resolution. "Little endian" version of the file (for PC reading) has been added

Reading Instructions (FORTRAN77) and interpolation code.

Folder: Forcing

Contains:

Monthly averages of Mediterranean heat fluxes at 1° resolution From ECMWF-ERA data

Monthly averages of Mediterranean wind stress at 1° resolution from ECMWF-ERA data

Monthly averages of Mediterranean precipitation at 0.5° resolution from Legates and Wilmott (1990) data

Reading Instructions (FORTRAN77) and interpolation codes for each of the above files.

Folder: Grid

Contains:

FORTRAN77 Code for grid generation (Constant resolution) (Provided by R. Sorgente)

Folder: Inits

Contains:

Fortran 77 code for the horizontal interpolation of T and S data On the model grid

Fortran77 code for the vertical interpolation of T and S data On the model sigma-coordinate system.

N.B.: The MED6 monthly Mediterranean Sea gridded (1°) T and S (from MEDATLAS data set) fields can be downloaded From: www.cineca.it /mfspp/wp5

Folder: Obdata

Contains:

Fortran 77 code for the interpolation of T, S, u, v data From the MFSPP Mediterranean model (10 days averages) on the MAMA's model grid open boundary(ies)

N.B.: The MFSPP Mediterranean model results (climatological Forcing\_ can be downloaded at:

www.cineca.it/mfspp/wp5

# **EXCHANGE VISIT PROGRAM (WP4)**

UNIBO-CIRSA: Visits can start from APRIL 2003 Onwards

IMC: Visit can start from March 2003

# **EXCHANGE VISIT PROGRAM (WP3)**

V. Garnier (IFREMER) will visit UNIBO-CIRSA In February

J. Sole (CSIC): Arrangements are being taken