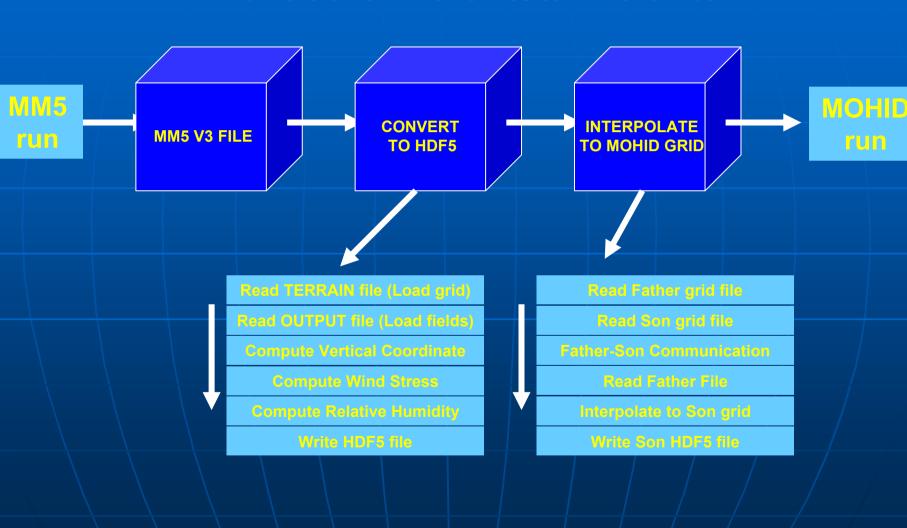
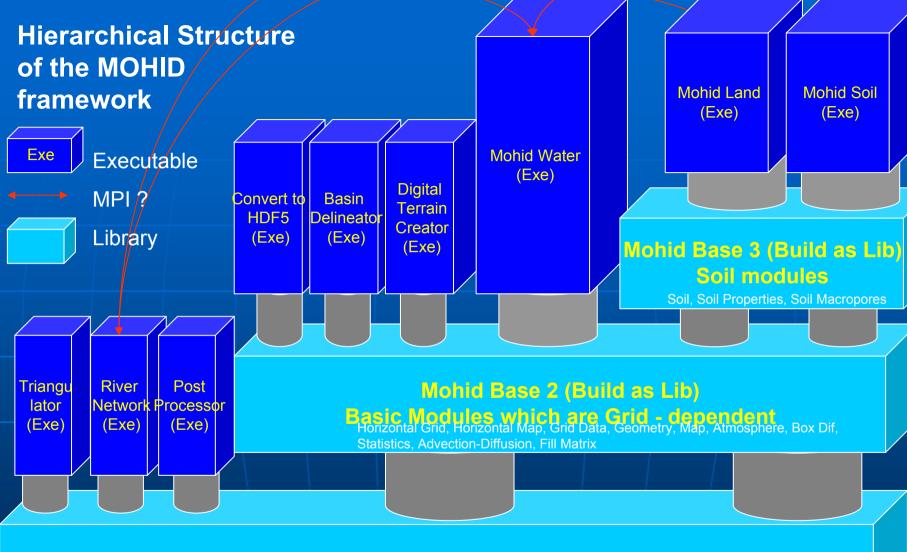
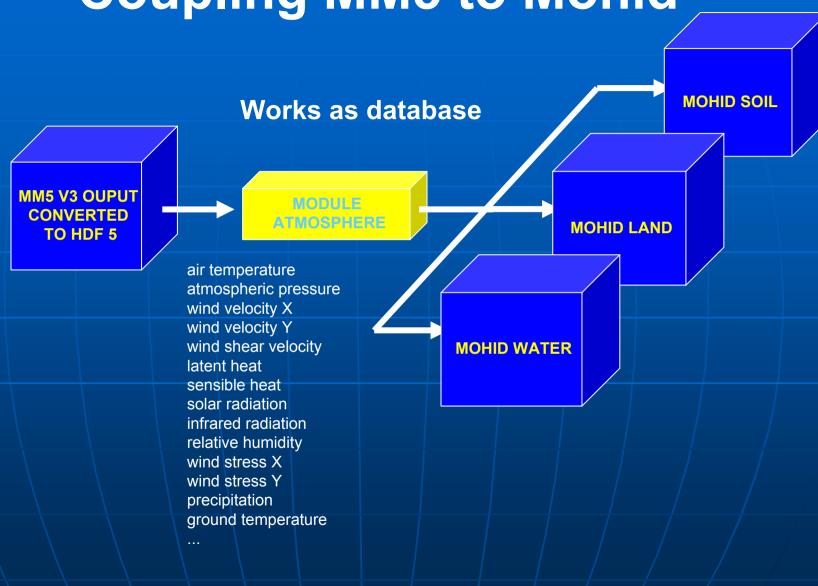
Conversion of MM5 v3 files to HDF5 format





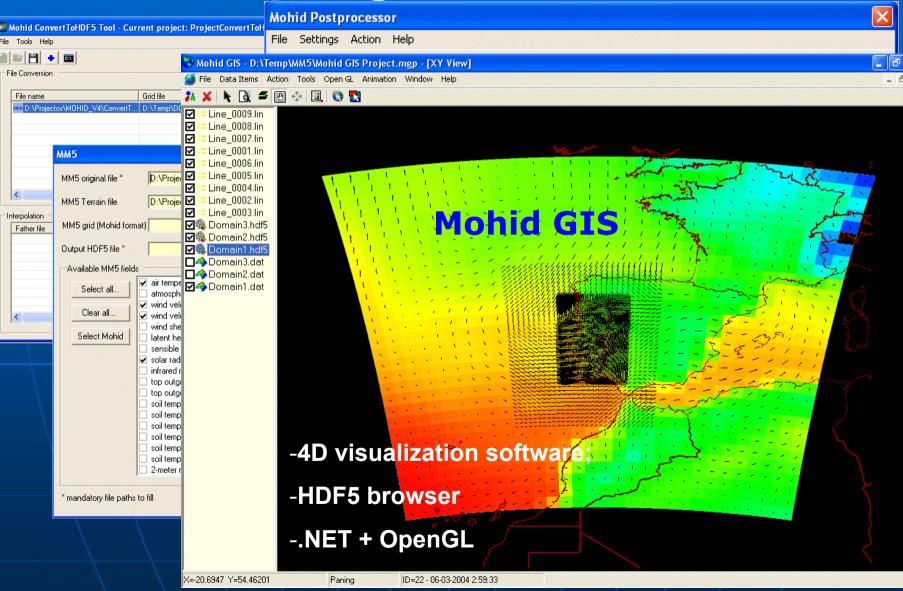
Mohid Base 1 (Build as Lib)

Basic Modules which are Grid - independent
Global Data, Enter Data, Time, Functions, Stop Watch, Hydro Integration, HDF 5, LUD, Discharges, Triangulation, Time Series, Water Quality, Sediment Quality, Life, CEQUALW2, Interface, Drainage Network



Software to convert MM5 files to HDF5

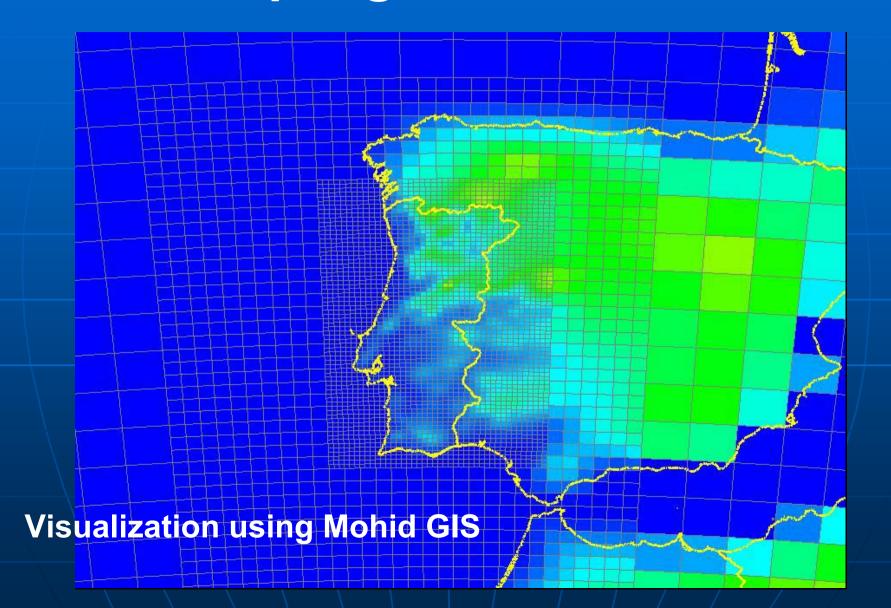
- "Open source"; Release version soon to be available for download at http://www.mohid.com. Available versions for MSWindows and optimized for CVF6.6 (upgrade for IFC8.0 scheduled).
- -FORTRAN95 + HDF5 (libraries available at (ftp://ftp.ncsa.uiuc.edu/HDF/HDF5/)). Platform independent.
- -Graphical interface for conversion is also available. Written in VB.NET ("freeware") for MSWindows 2000, XP;
- -Graphical interface (MOHID GIS) for visualizing developed in .NET environment using OpenGL libs;
- -Graphical interface (MOHID Post-Processor) for visualizing developed in Fortran using OpenGL libs

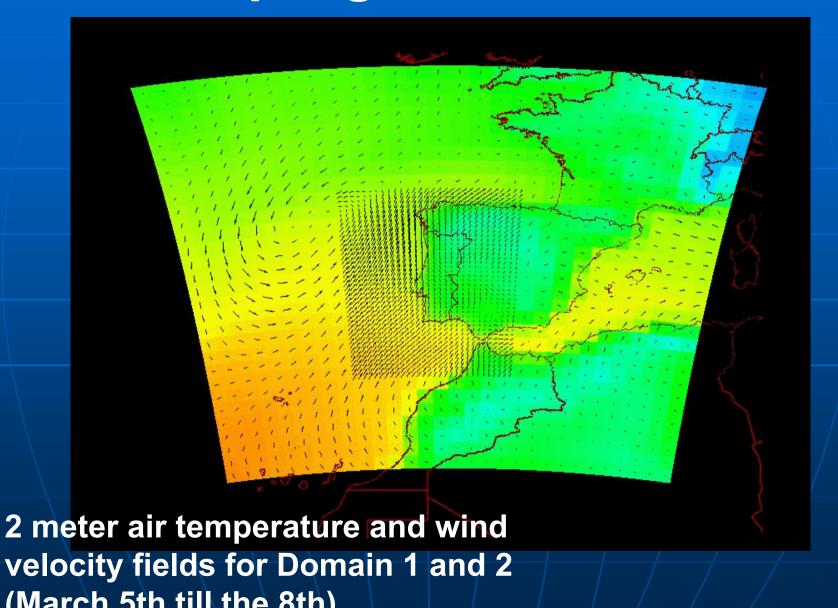


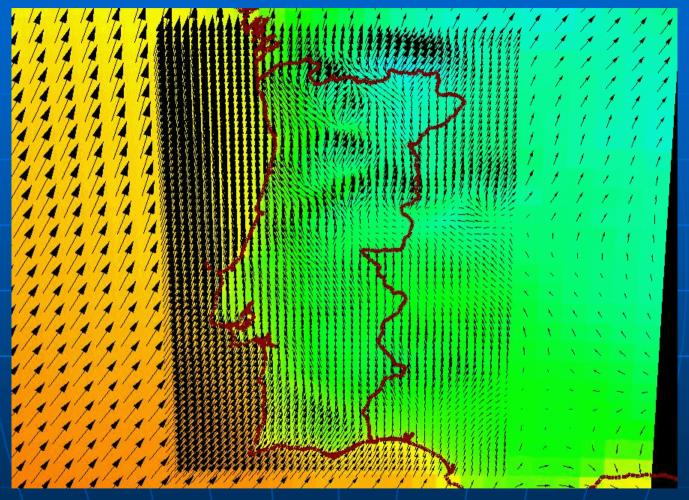
MOHID GIS – Under development

- Digital Terrain Model/ bathymetry generation
- Basins delineation
- Drainage network generation
- Layered structured;
 Georeferecing sattelite images and charts
- 4D Visualization
 - 3D (X, Y, Z)
 - Time (t)

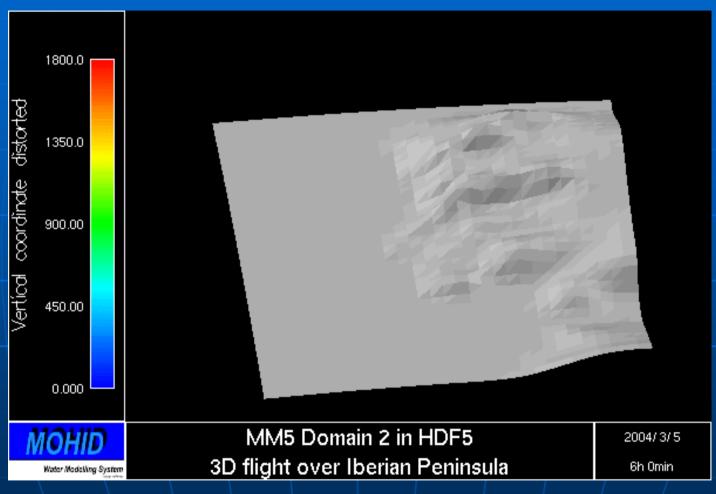




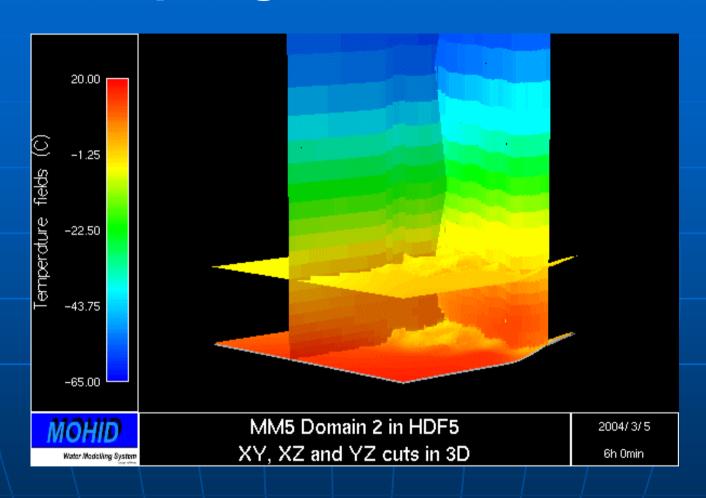




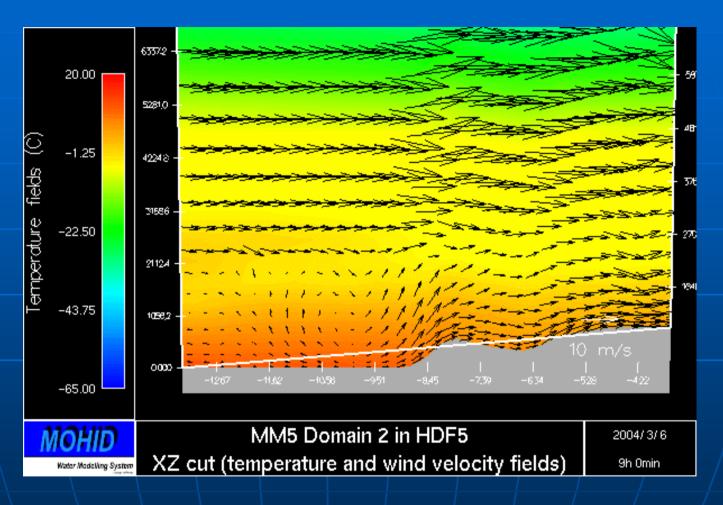
2 meter air temperature and wind velocity fields for Domain 2 and 3 (March 5th till the 8th)



Flight over Iberian Peninsula using Mohid Post-Processor



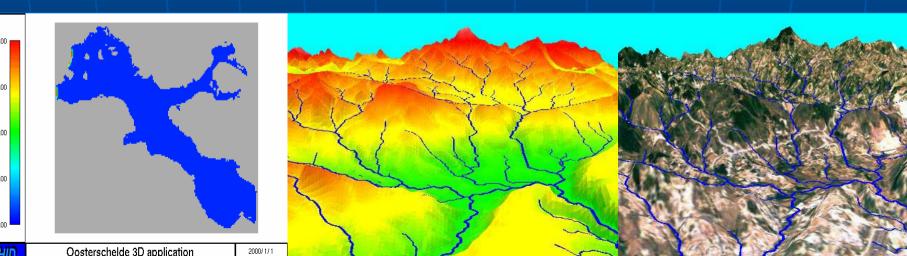
3D view with XY, XZ and YZ cuts of temperature fields



XZ cut of temperature and velocity fields

Potentiality of coupling the models

- -Increase in spatial and temporal definition of atmospheric properties input to Mohid;
- -Possibility of using atmospheric previsions to perform oceanographic previsions using Mohid Water;
- -Operational oceanographic modelling of the Portuguese coast;
- -Possibility of operational modelling of hydrographic basins (flood forecast) using Mohid Land;



Potentiality of converting to HDF5

- -Output file compression;
- -Possibility of graphically visualize the files with a varied number of available, including IST software like Mohid Post-Processor, Mohid GIS;
- -Standard format, platform independent;
- -Enables the use of MM5 results to be used by research modelling groups;

Don't hesitate to contribute for the development of these tools!

Thank you very much for your attention!