

Title *Mesozoic Black shales GeoDataBase for European area*

Name of the supervisors Simonetta CIRILLI & Laura MELELLI

Brief description of the planned research

The Mesozoic rich organic matter shales represent not only a significant target for hydrocarbons, but also an interesting target to investigate the Global Anoxic Events. They occurred more or less synchronously in several European basins as a consequence of a global perturbation of the carbon cycle and marine biological change. Data on black shale outcrops and boreholes (also from literature data) will be managed as spatial data. In order to do this a GeoDataBase (GDB) in GIS is expected as the main result of the thesis. The GIS Data Storage, the Modelling Geospatial Relationships and the type of GDB (single user or multiuser) are the framework of this part of thesis work.

aim

- To create a GIS data base to collect all the most important information (and related references) on the outcropping and subsurface distribution of black shales in Europe. The catalogue should include also informations on geologic setting and sedimentary architecture of the areas subject of this study.

