



## **Water, Air and Soil field Study in South of France for Master Students**

**P. Coll** and THE SGE MASTER AND STEP MASTER METROLOGY TEAM

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In the frame of the SGE French master (<http://www.master-ge.com/>) and of the STEP French master (<http://www.ipgp.jussieu.fr/pages/0502.php>) 75 students and 14 assistant-researchers from Universities Paris 7 and Paris 12 went on a Field campaign in the South of France for one week (in the “Etang de Berre” area), entitled “Environmental alterations (Water, Air, Soil)”. The origin of such a practical study is 10 years old (former sessions at Bort les Orgues, Saint-Poncy and Vallon Pont-d’Arc in France). Part of the students bring their experience in stringent analysis of solutions, atmospheric gases and aerosols, or solid sediments. Other students have already a field experience and help interpreting the obtained geochemical data.

An important logistic (and then a notable funding) was necessary to make this session possible: 10 mini-vans, 2 transport trucks, boats renting, 15 m<sup>3</sup> of scientific equipment, 14 teachers... We were then able to build 3 field laboratories : the largest one was devoted to the liquid phase analysis, a second one devoted to the gas phase analysis coupled with a meteorological station, aerosols collectors and pollutants analysers, and the last one devoted to the solids including an atomic absorption spectrometer.

The students were then able to study in situ and at the laboratory the main environmental alterations of the area, including the anthropogenic impact of the chemical and physical properties of the aquatic system, the local atmospheric photochemical pollution, and the impact of industrial activities on aerosols and sediments. We plan to expose during this session our pedagogic approach, the way the students studied the environmental objects and a summary of the main results, few days before the 2007 Field study session. We will also emphasize the fact that students from other European masters will be highly welcomed for the next sessions.