

**GOCE ITALY: Scientific Tasks and First Results**

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GOCE Italy is the Italian Consortium that has been activated for the scientific exploitation of the products of the ESA-GOCE mission.

The Consortium is being supported for a three year project by the Italian Space Agency, starting from July 2009.

The project aims at applying to the GOCE data the scientific background that has been developed in Italy on several different fields of the Earth sciences that will benefit from the results of the GOCE mission.

In particular the following points will be studied and, where possible, implemented:

- the use of GOCE model for an optimal combination with existing global gravity models;
  - the study of tidal Earth models and of orbit modelling for low orbiters;
  - the study of geostrophic currents with particular care to the Mediterranean area;
  - the merging of gravity field information into geophysical models of the Earth interior;
  - the use of GOCE data to discriminate different geological processes;
  - the applications of GOCE for the determination of high accuracy local geoids.
- First results in the various fields will be reported.