

GROOM

Gliders for Research, Ocean Observation and Management

FP7-GA. 284321

The main aim of the GROOM project is to design between 2011 and 2014 an European infrastructure for applied research based on the use of gliders such as marine observation tools able to provide valuable information to different socio-economic sectors. GROOM's mission is to define in a scientific, technological and organizational way the European glider capacity required to maintain the appropriate and required levels for a sustainable marine observation.



GROOM has been structured into six work-packages (WP):

- WP1 Coordination
- WP2 Integration with GOOS
- WP3 Scientific Innovation
- WP4 Targeted experiments
- WP5 Observatory Infrastructure
- WP6 Project Management,

whose execution will be carried out by nineteen institutions representing nine European countries such as France, Cyprus, Germany, Finland, Greece, Italy, Norway, Spain and UK.

Gliders are autonomous underwater vehicles (AUV) designed for biogeochemical ocean observations based on small internal buoyancy changes. Helped by wings, they convert vertical movements in horizontal allowing their displacement -gliding- with a very low minimum consumption levels.

Gliders are able to plot till 1000 m depth vertical profiles along the water column, providing real time information in spatial and temporal scales unaffordable by other AUV models and more sustainable than using traditional methodologies aboard research vessels.

