



# Expanding the Scope - Autonomous Flying Platforms for Atmospheric and Earth Surface Observations in the Mediterranean

Workshop in the Framework of COST Action ES0802 -  
Unmanned Aerial Systems (UAS) in Atmospheric Research

## Invitation - First Call

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Unmanned Aerial Systems (UASs) or Autonomous Flying Platforms are increasingly seen as important and effective research tools in the Earth- and atmospheric sciences. While having previously mainly been used for atmospheric measurements, the potential of UASs for assessing and monitoring Earth-surface properties and processes is increasingly recognized.

The *Autonomous Flying Platforms for Atmospheric and Earth Surface Observations* project (APAESO; <http://eewrc.cyi.ac.cy/APAESO/APAESO>) is aimed at the dual purpose of carrying out atmospheric and earth-surface observations in Cyprus and the (eastern) Mediterranean and is being carried out by the Energy, Environment and Water Research Center (EEWRC) of the Cyprus Institute (Cyi). It is being funded by the Cyprus Research Promotion Foundation (RPF).

We take pleasure in inviting you to a three-day workshop that will explore the potential of and requirements for dual-purpose UASs in the Mediterranean. The workshop is organized by EEWRC under the auspices of COST Action ES0802 and will be hosted by The Cyprus Institute. It will take place in Nicosia, Cyprus between 19 and 23 April 2010. The workshop will be followed by regular WG and MC meetings of COST Action ES0802.

Please contact Prof. Manfred Lange ([m.a.lange@cyi.ac.cy](mailto:m.a.lange@cyi.ac.cy)) or Dr. Amit Teller ([teller@cyi.ac.cy](mailto:teller@cyi.ac.cy)) to confirm your participation or for any inquiries. Details on travel to Cyprus, accommodation and other logistics will be provided in due time.

### Workshop Agenda (in brief, tentative)

#### 19 - 21 April 2010

- (i) Dual-purpose UASs for Atmospheric and Earth Surface Observations; the APAESO project
- (ii) Review of dual-purpose UASs and discussion of their possible utilization in the (eastern) Mediterranean (and elsewhere).
- (iii) Discussions on UAS components: possible platforms, observational modules, avionics
- (iv) Aspects related to operations of UASs: flight permissions, communication, ground facilities
- (v) Requirements and needs of the user community
- (vi) Open discussion on future collaborations with other UAS initiatives, proposed scientific projects, ideas for new instruments to be utilized in APAESO and optional Action Items.