



TFLAP Probe: from MFS-TEP to ADRICOSM-STAR

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TFLAP is a new expendable Temperature Fluorescence LAunchable Probe, developed and constructed during the MFS-TEP Project by the Laboratory of Experimental Oceanology and Marine Ecology (DECOS-Tuscia University) to support VOS (Voluntary Observing Ship) program.

During the project, the first thirty prototypes have been constructed and used during different oceanographic cruises. Experience from these field tests allowed to improve the device.

The main objective of ADRICOSM-STAR project is the development and implementation of an integrated coastal management system, including river and urban waters, using both observational and modelling components.

The role of the Laboratory in the project was to give support for the upgrading of VOS monitoring system through the improvement of TFLAP probe, such as the development of new optical components for high resolution fluorescence measurements, the automation of TFLAP calibration procedure with a dynamic system and the design of a dedicated software.