



Weather monitoring and forecasting over eastern Attica (Greece) in the frame of FLIRE project

Vassiliki Kotroni (1), Konstantinos Lagouvardos (1), Nektarios Chrysoulakis (2), Christtos Makropoulos (3), Maria Mimikou (3), Chrysoula Papathanasiou (3), and Dimitris Poursanidis (2)

(1) National Observatory of Athens, Institute of Environmental Research and Sustainable Development, Athens, Greece (kotroni@meteo.noa.gr), (2) Foundation for Research and Technology – Hellas, Institute of Applied and Computational Mathematics, Heraklion, Crete, Greece, (3) Department of Water Resources and Environmental Engineering, School of Civil Engineering, National Technical Univ. of Athens, Greece

In the frame of FLIRE project a Decision Support System has been built with the aim to support decision making of Civil Protection Agencies and local stakeholders in the area of east Attica (Greece), in the cases of forest fires and floods. In this presentation we focus on a specific action that focuses on the provision of high resolution short-term weather forecasting data as well as of dense meteorological observations over the study area. Both weather forecasts and observations serve as an input in the Weather Information Management Tool (WIMT) of the Decision Support System. We focus on: (a) the description of the adopted strategy for setting-up the operational weather forecasting chain that provides the weather forecasts for the FLIRE project needs, (b) the presentation of the surface network station that provides real-time weather monitoring of the study area and (c) the strategy adopted for issuing smart alerts for thunderstorm forecasting based of real-time lightning observations as well as satellite observations.