Case Study

NETWORK OF METEOROLOGICAL–HYDROLOGICAL STATIONS IN NORTH MACEDONIA

NATIONAL PARK PELISTER

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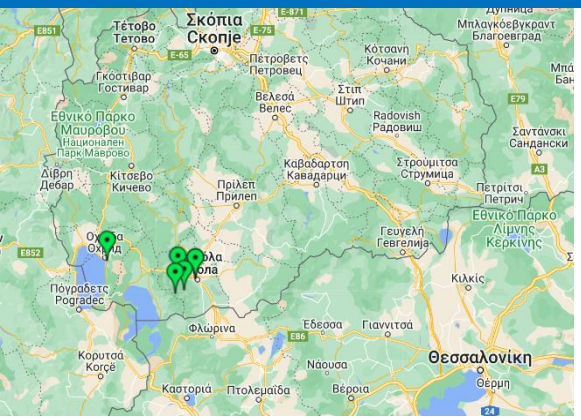


Brief Description

Project : Telemetry network for use in natural disaster protection applications (fires – floods)

Area: North Macedonia (South-West sector)

Date : July 2023

Project's Administrators

National Park Pelister

Important !

Installation at high altitudes

Important !

Full energy and telecommunications autonomy

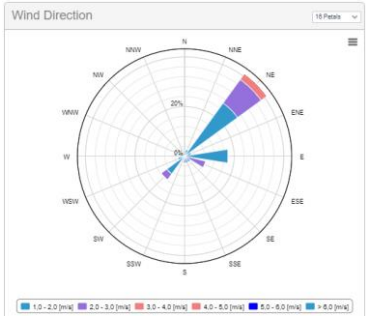
Important !

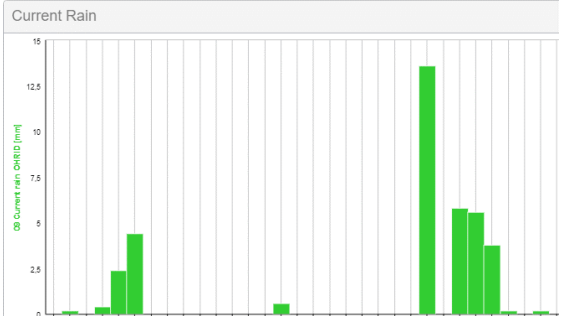
Extremely low maintenance requirement

Project Overview:

Supply and installation of five (5) Meteorological Stations and one (1) Hydrological Station measuring level and supply, in the area of Pelister National Park, North Macedonia, within the framework of the project ***«Modern Tools for Wildfires and Floods Risk ounctial forecast and monitoring and innovative techniques for cititzens' safeguard awareness and preparedness PREVEN-T"CN2-SO2.4-SC049»***

- The data is transmitted via mobile telephony every 30 minutes.
- The measurements are recorded in a database and at the same time automatically feed a cloud application.
- The network is expandable and can accept additional stations, as well as additional sensors at the stations.
- Extremely low power consumption.
- One of the most compact weather stations
- Automatic measurement of water supply with double Radar





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Parameters

- **Air Temperature and Relative humidity**
- **Wind speed and direction**
- **Wind Gust**
- **Barometric pressure**
- **Rainfall**
- **Total solar radiation**
- **Level and water velocity**
- **Discharge**

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