

state-of-the-art network of Automatic Weather Stations in Cyprus: from weather sensors to web publishing

The Cyprus Department of Meteorology (DoM) has developed a state-of-the-art network of Automatic Weather Stations (AWS). Each station can accommodate virtually any kind of sensor and is also equipped with an industrial computer, capable of data pre- and post-processing. Station measurements are available in real time to end users and end up in DoM's climatological database for further quality control, post-processing and report generation. All communications take place in an end-to-end encrypted VPN tunnel, thus maintaining both security and integrity, without putting either the stations or the departmental infrastructure at risk. In addition to the stations, the AWS network is supported by the on-premise departmental IT infrastructure, where the stations are continuously monitored and their data are backed up and published in near real-time on the departmental website.

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