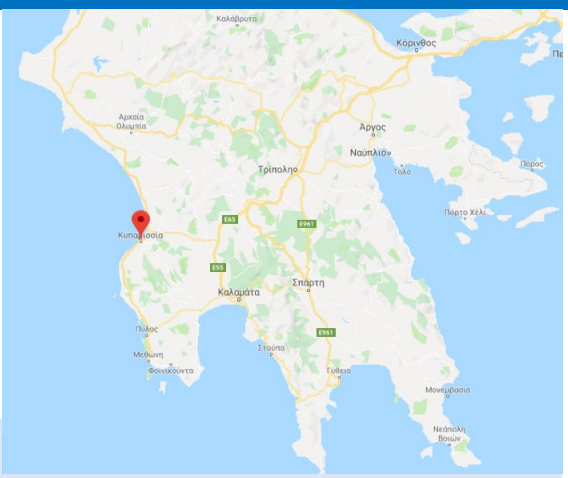
Case Study

AGROMETEOROLOGICAL RESEARCH STATIONS NETWORK IN SOUTH WEST GREECE (PELOPONNESE)

ScientAct



Project ID:

*Stations network with reference sensors, **at researching level**, with **data completeness** and **measurements accuracy** which fulfill the **WMO requirements.***

*The stations are equipped with multiple solar radiation sensors which fulfills the discrete spectrums, **with agrometeorological** interest and provide complete data series for **energy calculations**. Simultaneously, **plants** parameters are logged with high accuracy via **IR sensors** and **soil** parameters too.*

The stations are full expandable and portable, providing the advantage for use in any kind of researching and precision farming application.

IN BRIEF:

Project: Telemetric Meteorological stations

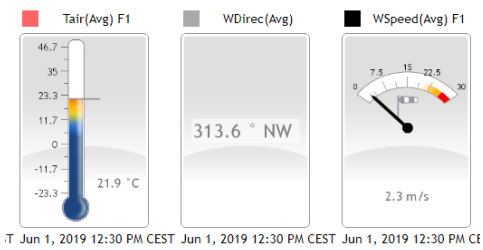
Place : Peloponnese (South West Greece)

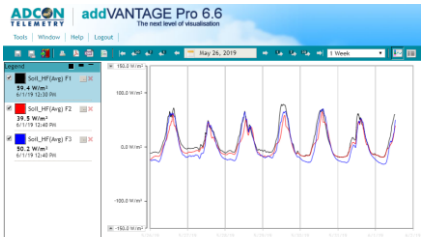
When: Completion on May 2019

ADMINISTRATOR:

Agricultural University of Athens

The stations are self-powered. The power supply is made via two complete independent photovoltaic systems. The first one supplies the telemetry system and the second one supplies the sensors. This technique was applied for the first time from SCIENTACT 15 years ago, providing excellent stability to systems with multiple sensors.





Important !

Probably the most complete Agrometeorological stations of the country

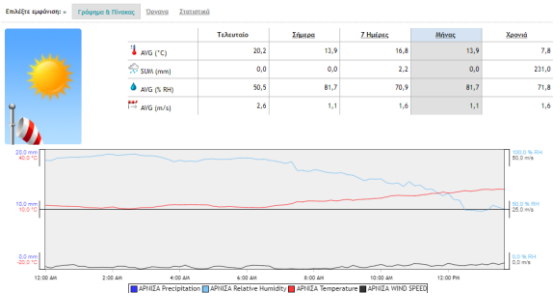
Important !

Equipped with reference sensors, for the climate, soil and plants

Important !

Automatic data processing

The data are transmitted automatically to the cloud every 10min. The software is automatically processing the raw data and calculates the secondary data.



The data apart from researching purposes, are available with supervisory and comprehensible way, to the growers of the region.

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SCIENTACT

PARAMETERS

1. Air Temperature (min. max, average)
2. Relative Air Humidity (min. max, average)
3. RS (pyranometer), incoming
4. RS (pyranometer), reflected
5. PAR
6. Wind Speed (max, average)
7. Wind Direction
8. Rain Height
9. Soil Temperature (in 6 depths)
10. Soil Moisture (in 6 depths)
11. Heat Flow
12. ETo
13. Sunshine Duration
14. Albedo
15. IR Leaf Temperature X 2
16. Average Leaf Temperature
17. Air – Leaf Variation Temperature
18. Hourly statistics
19. Installation Temperature
20. Batteries Voltage
21. Data delay
22. GSM Signal Power
23. Solar Panel operation
24. Daily statistics
25. Monthly statistics

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