Agrometeorological services in Greece

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Agrometeorological services in Greece

Past (last 40 years)

Agrometeorological services = limited demand & attention

Present

Agrometeorological services = of great importance
Agrometeorological services in Greece

Those involved

✓ The Ministry of Rural Development and Food
✓ HNMS- Hellenic National Meteorological Service
✓ Universities, Institutions
✓ Private parties
Agrometeorological services in Greece

HELLENIC REPUBLIC
Ministry of Rural Development and Food

Regional Centers for Plant Protection (7)
- local agro met stations networks
- plant protection guidelines

ELGA - Hellenic Agricultural Insurance Organization
- Protection against Frost
- Protection against Hail
Agrometeorological services in Greece

Universities - Institutions

AGRICULTURAL UNIVERSITY OF ATHENS
ΓΕΩΠΟΝΙΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ

UNIVERSITY OF THESSALY
SCHOOL OF AGRICULTURAL SCIENCES
Department of Agriculture Crop Production and Rural Environment

Efficient Irrigation Management Tools for Agricultural Cultivations and Urban Landscapes (IRMA)

Total budget: 1,398,874,50€
Duration: 2.5 years; Launched: 1/4/2013; Completion date: 30/9/2015
Financing:
European Territorial Cooperation Programmes (ETCP) GREECE-ITALY 2007-2013
www.greece-italy.eu
75% EU (ERDF) and 25% national funds of Greece and Italy
IRMA Subsidy Contract No: 13.11.06
Agrometeorological services in Greece

HNMS - Hellenic National Meteorological Service • NWP models
HNMS- Hellenic National Meteorological Service

- **NWP models**

COSMO model runs exclusively at ECMWF (version 5.03, ≈7km resolution over Mediterranean (+72hr) and ≈2.2km resolution over Greece (+48hr), twice a day (00h/12h)).

New COSMO model runs at ECMWF 4Km resolution over Mediterranean and 1Km resolution over Greece, twice a day (00h/12h)). **Testing phase – operational summer 2017**
HNMS- Hellenic National Meteorological Service

• Remote Sensing products

A lot of products generated from EUMETSAT, but not applicable in agrometeorology
HNMS- Hellenic National Meteorological Service

- met stations network – agro met stations

These met stations may not completely meet the WMO requirements to be characterized as agrometeorological but they give us some useful relative information

**Agrometeorological Data**

- Temperature
- Relative Humidity
- Soil Temperature
- Sunshine Duration
- Precipitation
- Evaporation
HNMS- Hellenic National Meteorological Service  •  Products

Delivering of basic agrometeorological information as a specific unity through the website

Information and interpretation according to the instructions of the WMO’s “Guide to Agricultural Meteorological Practices (GAMP)”
HNMS- Hellenic National Meteorological Service • Products

For example:
The user can find forecast maps with the 24hours precipitation, or forecast maps with low temperatures < 5, < 0, < -5°C that could cause damages to the crops.
HNMS- Hellenic National Meteorological Service

Products

The Agrometeorological Bulletin
with relative information for the aforementioned network of “agro Met Stations”
HNMS- Hellenic National Meteorological Service • Products

“The Drought bulletin”

... and other useful links:
HNMS- Hellenic National Meteorological Service

Future Plans

- Meteorological products - services to meet the farmers’ essential requirements
- Weather forecasts - warnings tailored to the farmers’ needs

Strategic goal
National framework for Agrometeorological services provision

Recording of competent bodies, delineation of responsibilities- distinct roles, avoidance of overlaps, promotion of cooperations

Needs

- Usage of both models and remote sensing products for agrometeorological purposes
Thank you for your attention