



Weather Stations online data platform

KreyoMET

Are the result of 20 years of experience, research and field service.

We offer reliable hardy stations, equipped with long tested sensors of top quality.

The monitored data is accessible on-line through a secure internet account.

Added services can assist your decision making process: disease prediction, weather forecast focused on the coordinates of your station, irrigation planning tables.

Turning Information into Profits!

Agronomical decisions based on exact and actual data, assist you in improving the quality of your crops, save your time and save costs!



KreyoMET Models:

- **KreyoMET models WS:** Disease prediction (plant protection), Irrigation control (plant water consumption ET, Soil Moisture), weather-forecast
- **KreyoMET Soil Moisture stations** (economic version)
- **KreyoMET Trap** – Automatic pheromone trap (online pest identification)
- **Additional Services:** Disease modules, Weather forecast of your micro-climate, Irrigation management





KreyoMET Stations

Available models and sensors:

Air temperature
Precipitation
Relative humidity
Leaf wetness

Wind speed
Global radiation (solarimeter)

Soil moisture sensors:
- Volumetric
- Tensiometric
- Depth measurements



Services Offered by KreyoMET

... [Click here to go to the secure data account](#)

- Disease prediction based on weather data (grapevine downy mildew, powdery mildew, grey mould and other diseases, also for other crops).
- Precipitation quantities for assessment of wash-off of spraying material
- Development of new foliage and plant growth
- Degree hour and accumulated temperature for calculations of grape berry moth.
- Water quantity and availability models based on evaporation measurements
- Precision weather forecast for your weather station coordinates in collaboration with Meteoblue www.meteoblue.ch for plant protection and work planning
- Documentation: management, presentation in various forms, data export (Excel).
- SMS alarms and automation according to weather data
- Display of data on smart-phones
- Geographic presentation of climate data on geographical information systems (e.g. GoogleEarth).
- Saving of data in own webpage
- Under development: Spraying book, registration of plant phenology development.



KreyoMET – How does it work?

Each weather station is equipped with a sim-card (it's not expensive!)

The station registers monitored data collected by the sensors and transmits it over GSM to a secure internet server.

The data is displayed on your private secure account on our data-platform website

You can read, download, copy and analyse your field data and also permit your consultant view and use this data for you.

Data access available on all internet using devices: PC, smartphone, tablet etc.





KreyoMET – Apple plantation



Service: Plant disease models

Information, graphic representation of the infection process, practical application of the disease models



Botritis ('Noble rot')

Botrytis (Pourriture Noble)

Powdery Mildew on grapes

Oïdium sur grape



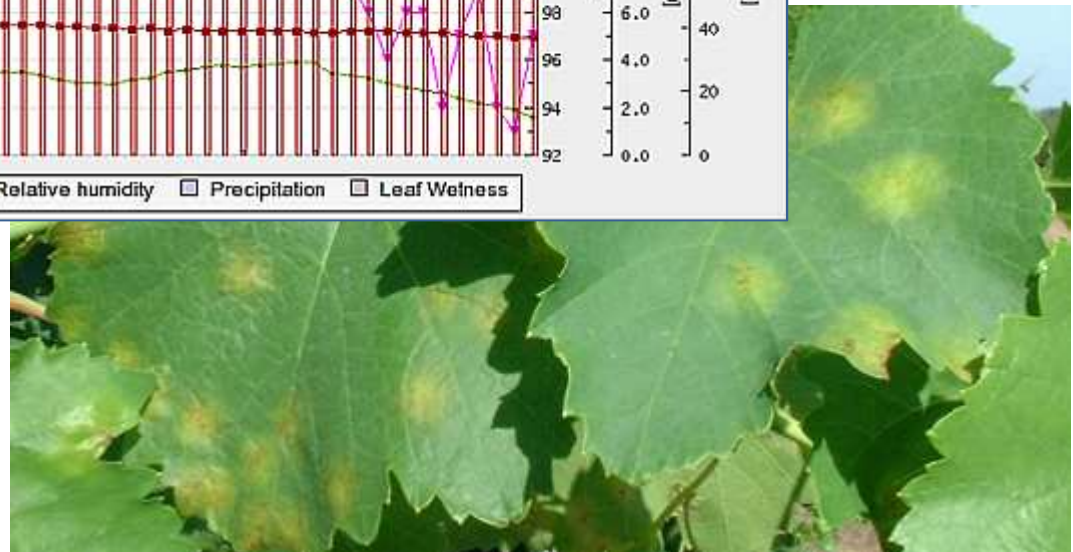
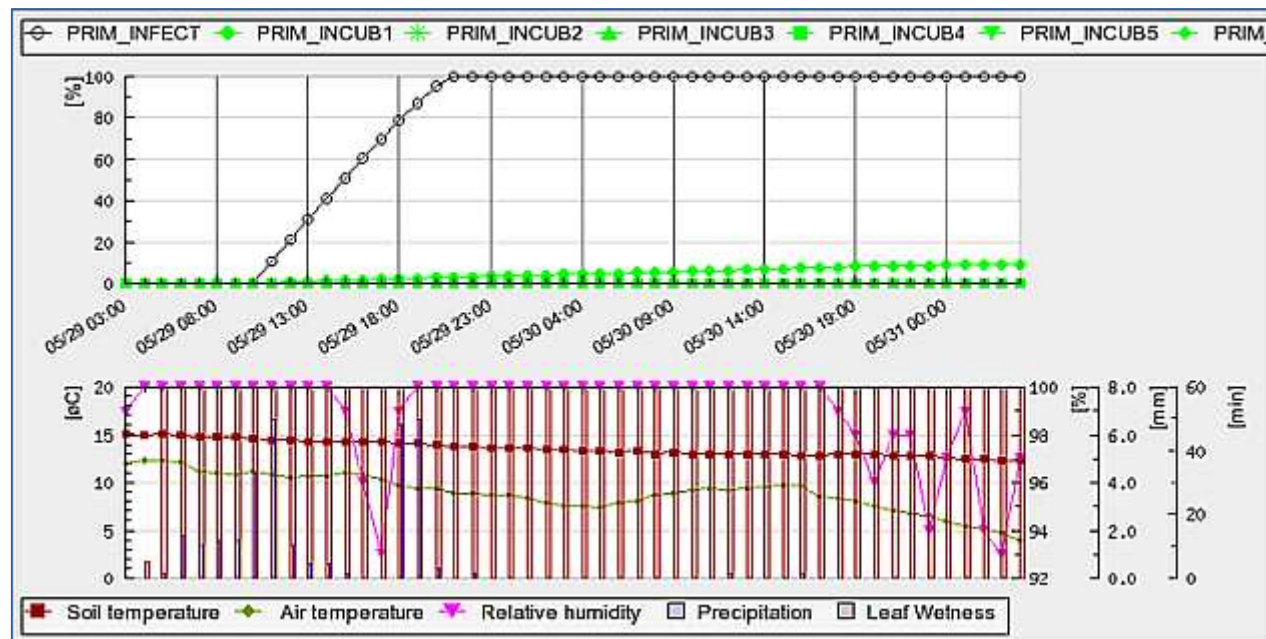
Downy Mildew on leaf (Plasmopara Viticola)

Effet du mildiou sur feuille de vigne



KREYER

Mildew – Graphic representation of infection (Primary infection)



Water usage Management – Irrigation Control

The quantity and availability of soil water

- **Evapotranspiration:** Water consumption by the plant
Information available by weather station KreyoMET WS300-CP

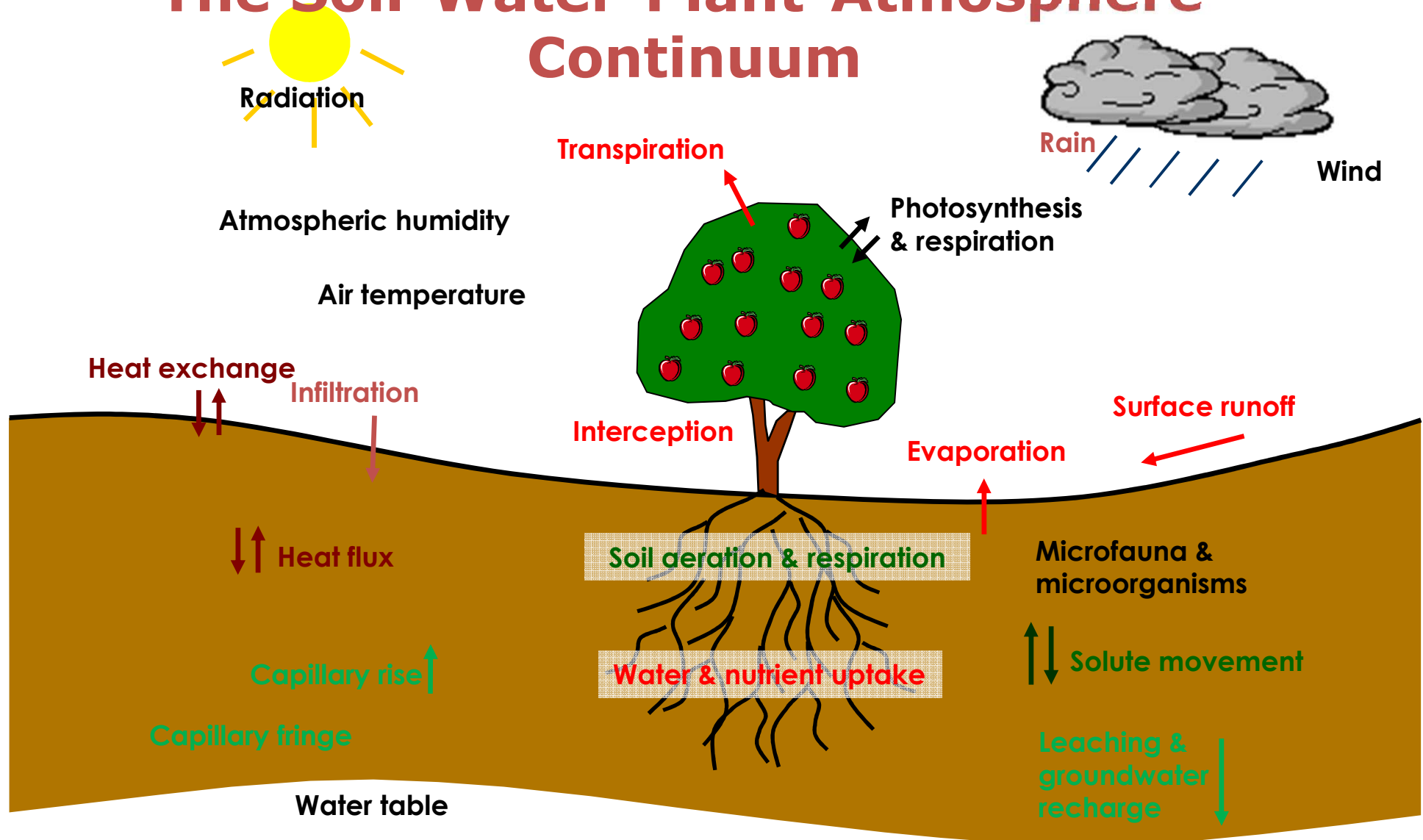
Improve your information by using soil-moisture sensors to know the amount of water in the earth:

- **Soil moisture:**
 - Volumetric (percentage of water in the soil),
 - Tensiometric (water availability to the plant)
- Depth measurement (6 sensors in varying depth down to 800 mm)
Equipment by using KreyoMET ECO combinable with a weather station for optimal surface coverage

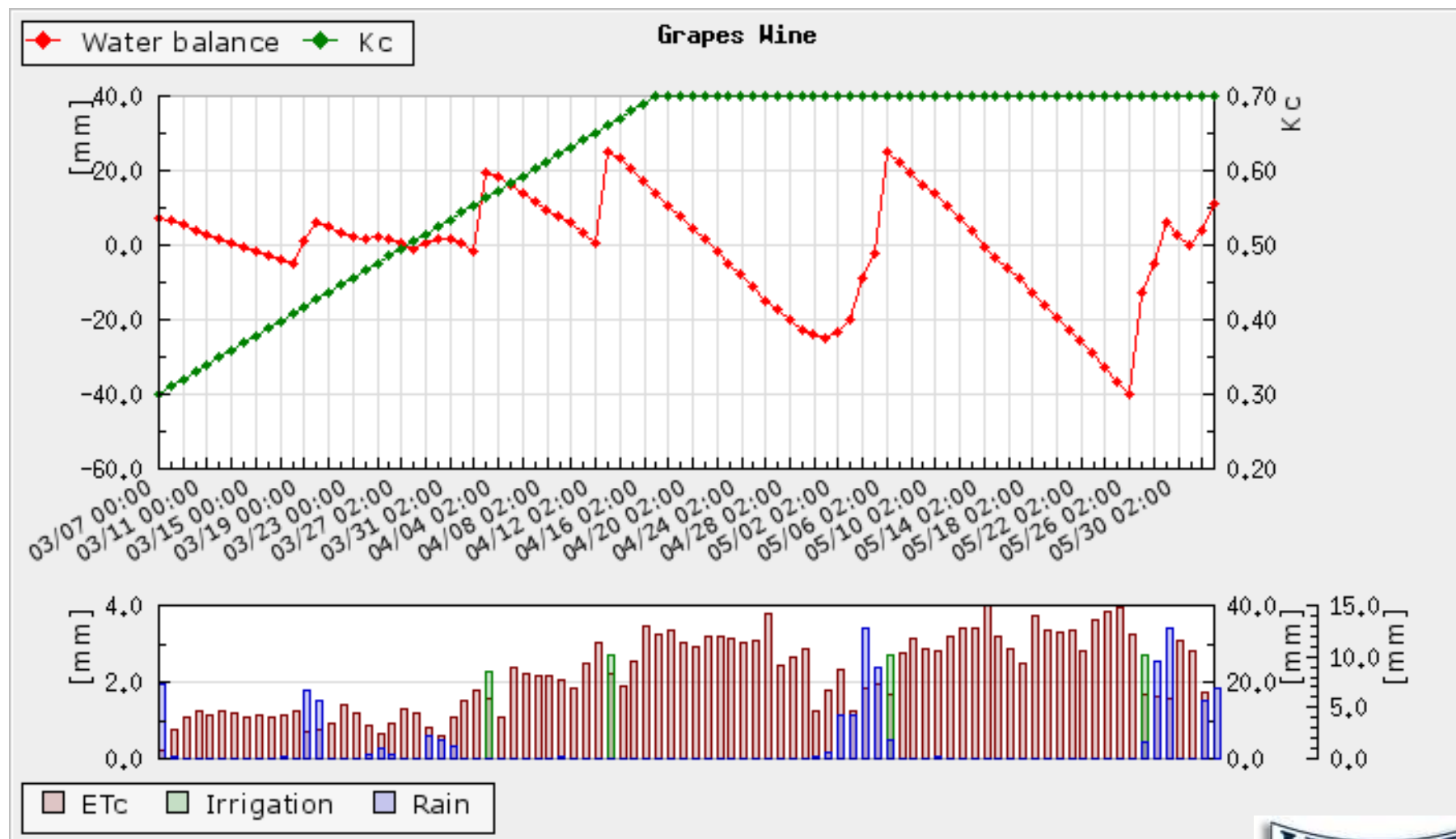
Complete your field information with the meteoblue weather forecast service



The Soil-Water-Plant-Atmosphere-Continuum



ET values (according to crop) – growth curve – Irrigation data





KreyoMET ECO: The economical solution for measuring soil moisture

Economic station for soil-moisture, combinable with a weather-station for optimal surface coverage.

Assorted sensors available: soil moisture. precipitation*. temperature.



Soil Moisture sensor types:



In the picture: Green Watermark tensiometric sensor for shallow-root plants.
Decagon 10HS volumetric sensor can be placed at various soil depths.

Tensiometric measurement (water availability) combined with volumetric measurement (water quantity percentage) gives the full information required to decide **WHEN and **HOW MUCH** to irrigate.**

Service: Kreyo-Meteo

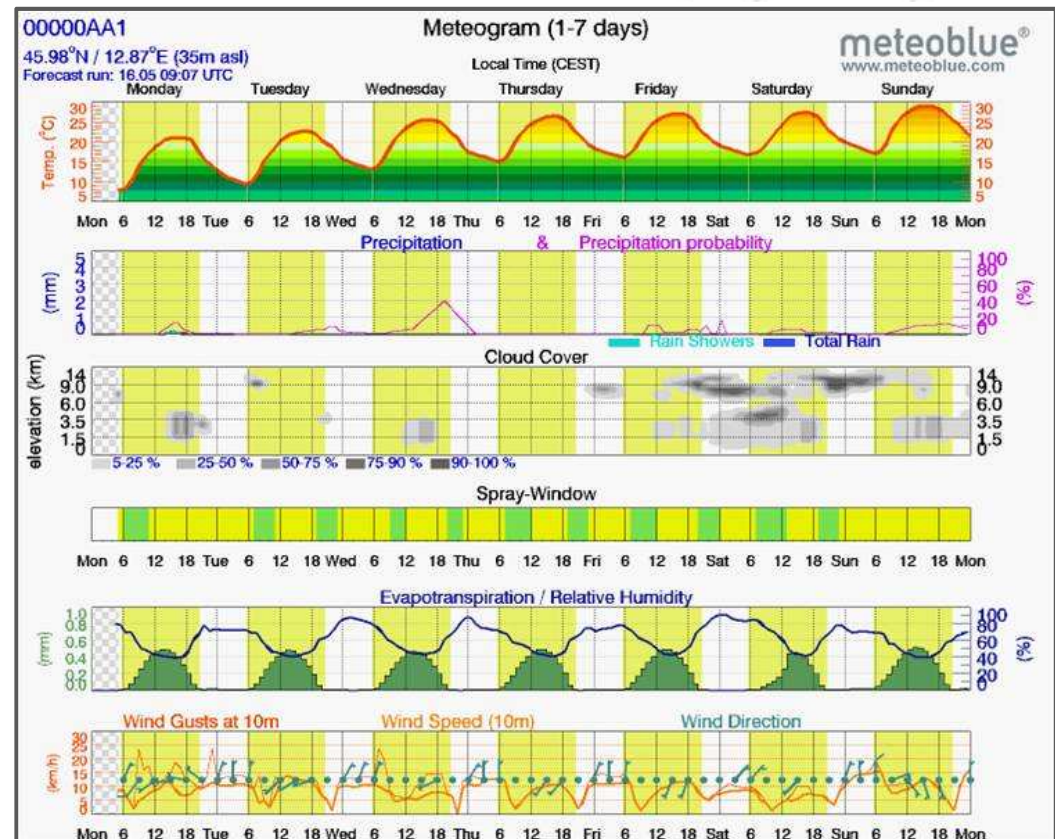


Professional meteorological service which gives comprehensive information about the weather, based on advanced meteorological models, focused on the global coordinates of your own station.

KreyoMETEO uses the data from your weather stations to calculate the most exact forecast possible for **your vineyard's exact micro-climate!**

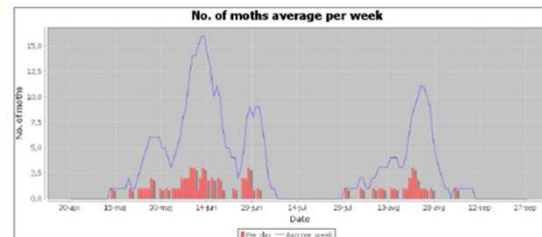
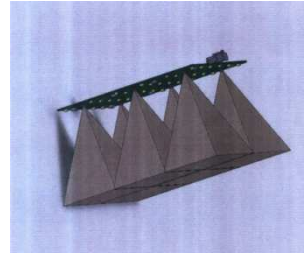
A unique service with global coverage!

Take well informed decisions regarding irrigation, spraying and other plant treatments – based on weather data from your own vineyard or field.



KreyoMET Trap – the automatic pheromone trap

- 6 micro-cameras take high-resolution pictures of the sticky-paper with pheromones



- The pictures are sent to the website automatically. The high-resolution allows immediate and correct pest-identification
- A GPS integrated in the Trap enables to place the pest-outbreak and flight-plan exactly on Google Maps or similar program



ePestAlert

Home

Devices

System management

Trap records

Pest: Codling Moth (*Cydia pomonella*)

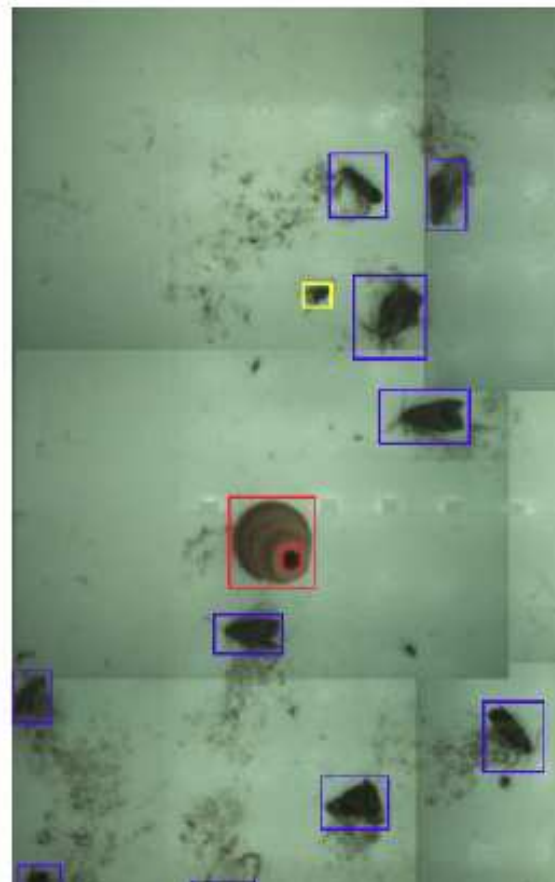
Plant: Apple

Location: Unspecified

Trap records

Charts and Statistics

Weather data



**The Trap on the internet:
Immediate identification
for timely pest control!!**

Date 31.08.2010

Time 22:50:00

Label 073/03/2011

No. of pests in trap 10

New pest in last 24 hours 5

Show unmarked

Compare with previous



KreyoMET - Complete solution

www.fiedclimate.com

Wireless Internet
Decision Support System
Irrigation management
Intelligent automatisaton
SMS Server/Alarms

KreyoMET
Weather stations
Soil moisture
stations

KreyoMET TRAP
Insect trap

KreyoMET ICA
Automatisation



For more information:

Please contact us at:



WTG – Wine Technology GmbH
Moselstrasse 9 • D-54349 Trittenheim
Tel: +49 (0) 65 07 - 938 180
Fax: +49 (0) 65 07 - 938 188
eMail : kreyer@kreyer.com

Or your local Kreyer distributor!