

## **Further developments:**

## • The soil heterotrophic respiration sub model:

> Calibration with long term (50 years) soil carbon content data taken at an agricultural site near Lonzée in Belgium.

> Application to two other agricultural sites located in the South-West of France and model validation.

Short term temperature impacts on soil respiration: set-up of complementary experiments to understand the present results (pre-incubation temperature impacts, physico-chemical

processes influences).

- The soil autotrophic respiration sub model:
  - > Development, parameterization and calibration of the sub model.
  - Validation of this sub model and of the global one with soil chamber and eddy-covariance measurements.



## Acknowledgements:

This research is funded by the FRS-FNRS, Belgium

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