
DMP du projet "Understanding and using ecosystem services provided by earthworms"

Plan de gestion de données créé à l'aide de DMP OPIDoR, basé sur le modèle "ANR - DMP template (english)" fourni par Agence nationale de la recherche (ANR).

Plan Details

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Project Details

Project title Understanding and using ecosystem services provided by earthworms

Acronym U2 worm

Abstract Carbon storage and biogeochemical cycling in soil is influenced by physical, chemical and biological processes, which are most often studied separately. Our project aims to overcome this limitation as it elucidates the impact of soil fauna, in particular earthworms, on the formation of organo-mineral interactions in biogenic aggregates. We will study these processes through a combination of field and laboratory experiments in temperate as well as tropical environments. Our research goes beyond the current state of knowledge because it is based on specific earthworm traits instead of using the traditional functional group classification. The project results concern fundamental knowledge of relationships between traits and their function in terms of soil carbon sequestration. These processes will be addressed using modern state of art techniques and concepts. The results will be implemented by developing new model parameters and agroecological (field) applications.

Funding

- Agence nationale de la recherche (ANR) : ANR-20-CE01-0015-01

Start date 2021-02-01

End date 2025-01-31

Partners

- Institut d'écologie et des Sciences de l'environnement (200517555P)
- Ecologie fonctionnelle et écotoxicologie des agroécosystèmes (201521783S)
- Institut de Chimie des Milieux et Matériaux de Poitiers Unité de recherche (201220398Z)
- Ecologie Fonctionnelle et Biogéochimie des Sols et Agrosystèmes (199917859W)
- Ecologie microbienne (199511997S)
- Unité de modélisation mathématique et informatique des systèmes complexes (201421254W)

Produits de recherche :

1. Données expérimentales issus des travaux de projet (Jeu de données)
2. Protocoles décrivant les démarches des différents étapes (Texte)
3. Modèles mécanistiques (Modèle)

Contributeurs

| Nom | Affiliation | Rôles |
|-----------------|-------------|--|
| Cornelia Rumpel | | <ul style="list-style-type: none"> • Coordinateur du projet • Personne contact pour les données (Donnée expérimentale, Protocole, Modèle) • Responsable du plan de gestion de données |

Droits d'auteur :

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1. Data description and collection or re-use of existing data

We will characterise soil biodiversity and soil organic matter composition using existing protocols. Experiments will be planned based on existing concepts and methodologies. Data provenance will be documented based on published evidence.

We will collect experimental data in the laboratory and in the field. Moreover, these data will be used to develop new models. Numeric data will be reported in spreadsheets (.xls) or as text files (word documents). We may also collect images and other audio or visual media.

2. Documentation and data quality

Metadata consider the experimental conditions and the environmental description of sampling sites.

All experimental equipment will be subjected to regular testing using standard protocols. Data quality will be controlled with standard materials. At least three replicates will be used for all experimental and sampling procedures.

3. Storage and backup during the research process

Data will be stored on the personal computers of the project partners. The safeguard and back up of the data will be in the responsibility of the project partners. Whenever possible, the data will be published using dataverse.

All computers will be equipped with antivirus. Safeguarding of the data on external hard disk will be done regularly.

4. Legal and ethical requirements, code of conduct

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Experimental results belong to the partner, who collected the data. Intellectual property rights and ownership will be managed by consensus. French legislation is applicable.

Code of conduct and ethical issues are similar to those generally applied to scientific research based on rigorous methodology and data collection.

5. Data sharing and long-term preservation

Data will be shared upon request. An embargo may be applied if data have not been published.

Data giving rise to important results will be published via the dataverse software, which allows for long-term public preservation of data.

Software required to use experimental data and protocols will be accessible with word or excel software.

DOI will be assigned to published data via Dataverse.

6. Data management responsibilities and resources

The project partners will be responsible for management of the data they collected.

Human resources in form of time of researchers and technicians will be dedicated to FAIR data management.