
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

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Partners

- Institut d'ecologie et des Sciences de l'environnement [IEES](#)
- Ecologie fonctionnelle et écotoxicologie des agroécosystèmes [Ecosys](#)
- Institut de Chimie des Milieux et Matériaux de Poitiers Unité de recherche [IC2MP](#)
- Ecologie Fonctionnelle et Biogéochimie des Sols et Agrosystèmes [Eco&Sol](#)
- Ecologie microbienne [LEM](#)
- Unité de modélisation mathématique et informatique des systèmes complexes [UMMISCO](#)

Research outputs :

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

Contributors

Name	Affiliation	Roles
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

1a. How will new data be collected or produced and/or how will existing data be re-used?

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.

1b. What data (for example the kind, formats, and volumes), will be collected or produced?

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

2a. What metadata and documentation (for example the methodology of data collection and way of organising data) will accompany the data?

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

2b. What data quality control measures will be used?

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

3a. How will data and metadata be stored and backed up during the research?

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.

3b. How will data security and protection of sensitive data be taken care during the research

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

4a. If personal data are processed, how will compliance with legislation on personal data and on security be ensured?

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4b. How will other legal issues, such as intellectual property rights and ownership, be managed? What legislation is applicable?

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

4c. What ethical issues and codes of conduct are there, and how will they be taken into account?

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

5a. How and when will data be shared? Are there possible restrictions to data sharing or embargo reasons?

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

5b. How will data for preservation be selected, and where data will be preserved long-term (for example a data repository or archive)?

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

5c. What methods or software tools are needed to access and use data?

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

5d. How will the application of a unique and persistent identifier (such as a Digital Object Identifier (DOI)) to each data set be ensured?

DOI will be assigned to published data via Dataverse.

6. Data management responsibilities and resources

6a. Who (for example role, position, and institution) will be responsible for data management (i.e. the data steward)?

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

6b. What resources (for example financial and time) will be dedicated to data management and ensuring that data will be FAIR (Findable, Accessible, Interoperable, Re-usable)?

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