
DMP du projet "Eurasian PAleodust Transport: datA-model comparisonN"

Plan de gestion de données créé à l'aide de DMP OPIDoR, basé sur le modèle "Science Europe : modèle structuré" fourni par Science Europe.

Renseignements sur le plan

Titre du plan	DMP du projet "Eurasian PAleodust Transport: datA-model comparisonN"
Version	Version initiale
Objet/périmètre du plan	<p>This document, Data Management Plan (DMP), is a deliverable of the EPATAN project, which is submitted to the French National Research Agency AAPG2022 Program.</p> <p>EPATAN is a proposal project aiming at running from September 2022 until September 2027, whereby the main object is to better identify and understanding the dust cycle during the lastest climate cycle in Eurasia and its impact on the climate variability.</p> <p>As part of the Open Research Data Pilot (ORDP), this document introduces the first version of the project Data Management Plan (DMP). The DMP is not a fixed document and will evolve during the lifespan of the EPATAN project with updated versions that will reflect the evolution of the project.</p>
Domaines de recherche (selon classification de l'OCDE)	Earth and related environmental sciences, Earth and related environmental sciences
Langue	eng
Date de création	2022-02-24
Date de dernière modification	2022-02-24
Identifiant	DOI
Type d'identifiant	DOI
Licence	Creative Commons Attribution 4.0 International
Documents (publications, rapports, brevets, plan expérimental...), sites web associés	<ul style="list-style-type: none">• Publications : Open access journals• Data : PANGAEA repository• Model simulations :• Conference presentations :

Renseignements sur le projet

Titre du projet

Eurasian PAleodust Transport: data-model comparison

Acronyme

EPATAN

Résumé

The Last Climate Cycle (LCC, 130-12kyr) has shown cold, dusty (GS) and warmer, non-dusty (GI) intervals, when the atmosphere was 2-20 times more loaded with dust than today. The alternations between GS and GI occurred on millennial time scales, involving climate forcings other than orbital. The transition between GS and GI lasted on average 50 yrs, resulting from a complete climate reorganization, not understood at present as paleodust is rather still terra incognita. Russia and eastwards Siberia have recorded paleodust millennial variations apparently similar to those observed in Europe. EPATAN, a data-model project, will acquire and investigate three new loess sequences to get high-resolution and well-dated paleodust records of the LCC. The Earth System Model will i) characterize the source regions of the paleodust and ii) reproduce past variations in dust deposition for key paleoclimate scenarios. Results will be compared with field data.

Another component of the project will analyse loess samples dated from the last glacial maximum to detect the origin of the deposited material by targeting the <2microns and 2-20 microns grain size fractions and bulk sample. The spatial analysis is motivated by preliminary results for Western Europe sites, indicating a local to regional origin for coarse material and a more distant source, involving longer transport in relation to general atmospheric circulation, for the finer particles.

These two approaches will provide a better understanding of the dust cycle during the latest climate cycle in Eurasia and its impact on climate variability.

Partenaires

- Institut de physique du globe de Paris (200512539M)
- Laboratoire de Géographie Physique : Environnements Quaternaires et Actuels (199812919F)
- Laboratoire des Sciences du Climat et de l'Environnement (200611689J)
- Géosciences Montpellier (200711908T)

Produits de recherche :

1. Data description and collection or re-use of existing data
2. Legal and ethical requirements, code of conduct
3. Data management responsibilities and resources
4. Data sharing and long-term preservation
5. Storage and backup during the research process
6. Documentation and data quality

Contributeurs

Nom	Affiliation	Rôles
Hatté Christine	Laboratoire des Sciences du Climat et de l'Environnement	<ul style="list-style-type: none"> • Responsable de la qualité des données (Data)
Rousseau Denis- Didier	Géosciences Montpellier	<ul style="list-style-type: none"> • Coordinateur du projet • Personne contact pour les données (Storage, Data , Quality, Sharing, Requirements, Management) • Responsable de la conservation à long terme des données (Data) • Responsable de la documentation des données (Data) • Responsable des questions éthiques (Data) • Responsable du dépôt et de la diffusion des données (Data) • Responsable du plan de gestion de données • Responsable du stockage des données (Data)
Antoine Pierre	Laboratoire de Géographie Physique : Environnements Quaternaires et Actuels	<ul style="list-style-type: none"> • Responsable de la production ou de la collecte des données (Data)
Lagroix France	Institut de physique du globe de Paris	<ul style="list-style-type: none"> • Responsable de la protection des données (Data) • Responsable du traitement et de l'analyse des données (Data)

Droits d'auteur :

Le(s) créateur(s) de ce plan accepte(nt) que tout ou partie de texte de ce plan soit réutilisé et personnalisé si nécessaire pour un autre plan. Vous n'avez pas besoin de citer le(s) créateur(s) en tant que source. L'utilisation de toute partie de texte de ce plan n'implique pas que le(s) créateur(s) soutien(nen)t ou aient une quelconque relation avec votre projet ou votre soumission.

DMP du projet "Eurasian PAleodust Transport: datA-model comparisonN"

1. Description des données et collecte ou réutilisation de données existantes

Data description and collection or re-use of existing data	
Nom	Data description and collection or re-use of existing data
Description	Data will be collected by project participants using samples collected in the field (stratigraphy of sequences, spectrophotometry), laboratory studies (grain size, environmental magnetism, geochemical analyses, 14C and luminescence dates, mollusk shells and earthworm granules) and model simulations. In addition, data published in the previous literature will be re-used to perform meta-analysis and comparative analyses.
Mots clés (texte libre)	
Langue	eng
Identifiant pérenne	according to PANGAEA rules for datasets or according to Climate Data standards for model simulations
Type d'identifiant	DOI
Contient des données personnelles ?	Non
Contient des données sensibles ?	Non
Prend en compte des aspects éthiques ?	Oui
Justification	Data available in the literature or from previous studies will be re-used to perform meta-analysis and comparative analyses.
Données réutilisées	<ul style="list-style-type: none"> re-used analytical data and sequences stratigraphies :
Titre de la méthode	Data production
Description	Data will be obtained from samples collected in the field after detailed description (depth, geological units) of the sequence stratigraphy. Sediment samples will be individually collected in parallel for grain-size, environmental magnetism, geochemical and isotope studies, mollusk shells and earthworm granules. Sediment samples will also be collected in the field for 14C and luminescence dating from particular stratigraphical units. In situ spectrophotometry measurements will be performed. Model simulation will also be performed using the HadCM3 UK Earth System model at the University of Birmingham (UK).
Documentation and data quality	
Nom	Documentation and data quality

Storage and backup during the research process

Nom Storage and backup during the research process

Legal and ethical requirements, code of conduct

Nom Legal and ethical requirements, code of conduct

Data sharing and long-term preservation

Nom Data sharing and long-term preservation

Data management responsibilities and resources

Nom Data management responsibilities and resources

2. Documentation et qualité des données

Data description and collection or re-use of existing data

Description Each dataset will be presented under a text format with indication of the site location, its coordinates, DOI of the paper in which the data are used.
Model simulations will be presented in netCDF format conforming to Climate Data standards.

Standards de métadonnées/données • PANGAEA :

Code langue des métadonnées eng

Description

Data will be primarily checked by collectors then by main person in charge of the deliverable and eventually by the person responsible for data storage. They will be finally discussed by all the project participants before being uploaded in PANGAEA repository.

Documentation and data quality

Question sans réponse.

Storage and backup during the research process

Question sans réponse.

Question sans réponse.

Legal and ethical requirements, code of conduct

Question sans réponse.

Question sans réponse.

Data sharing and long-term preservation

Question sans réponse.

Question sans réponse.

Data management responsibilities and resources

Question sans réponse.

Question sans réponse.

3. Exigences légales et éthiques, code de conduite

Data description and collection or re-use of existing data

Description

Three instances of collection of personal data will occur over during the course of the project. They relate to;

1. Data informing on employees at each institution, such as salary contracts
2. Collection of participant data in relation to conferences and workshops
3. Outreach material (eg. website, videos, pictures, and potentially Twitter, podcasts)

Description

Data collection during field work will be performed on geological sequences in the same place and at the same time by all participants of the project to prevent any ethical misbehavior. A few beneficiaries foresee outreach material that will contain personal data. For these, the regulations and examples of consent forms from the participating institutions are used

Documentation and data quality

Question sans réponse.

Question sans réponse.

Storage and backup during the research process

Question sans réponse.

Question sans réponse.

Question sans réponse.

Legal and ethical requirements, code of conduct

Question sans réponse.

Question sans réponse.

Question sans réponse.

Data sharing and long-term preservation

Question sans réponse.

Question sans réponse.

Question sans réponse.

Data management responsibilities and resources

Question sans réponse.

Question sans réponse.

Question sans réponse.

4. Traitement et analyse des données

Data description and collection or re-use of existing data

Description

Analytical data are proceeded according to the various protocols applied by the consortium for many years and published in international publications. They are treated through statistical analyses from univariate to multivariate analyses, signal analyses.

Documentation and data quality

Question sans réponse.

Storage and backup during the research process

Legal and ethical requirements, code of conduct

Question sans réponse.

Data sharing and long-term preservation

Question sans réponse.

Data management responsibilities and resources

Question sans réponse.

5. Stockage et sauvegarde des données pendant le processus de recherche

Data description and collection or re-use of existing data

Besoins de stockage The original data will be stored on individual computers until publication and deposition in open access repository like PANGAEA.

Volume estimé des données 0

Mesures prises pour la sécurité des données The data storage practices will comply with applicable national, European and international framework, and the European Union's General Data Protection Regulation 2016/679.

Documentation and data quality

Question sans réponse.

Storage and backup during the research process

Question sans réponse.

Legal and ethical requirements, code of conduct

Question sans réponse.

Data sharing and long-term preservation

Question sans réponse.

Data management responsibilities and resources

Question sans réponse.

6. Partage des données et conservation à long terme

Data description and collection or re-use of existing data

Modalités de partage

University of Montpellier - Electronic Research Data Archive (UM ERDA) is a storage, sharing and archiving facility provided by University Montpellier to support the general UM Data Management. ERDA will be used for internal (password protected) sharing of EPATAN project files and data on a day to day basis. In addition, researchers from EPATAN will store raw files and temporary data products on ERDA prior publication.

Every use of EPATAN data, prior publication, will require informing all EPATAN participants.

Publication of the raw data will be submitted to peer-review open access journals with the lead author being the EPATAN participant who generated the data. Furthermore these raw data will be deposited in the PANGAEA open access repository at the same time as the article describing the data is submitted for open access publication.

Justification

All published data will be deposited in PANGAEA open access repository <<https://www.pangaea.de/>> where the consortium already deposited previously published data. Preliminary version of published papers will be deposited in HAL repository and abstracts of meetings will be stored in open access repositories like EGUsphere <<https://www.egusphere.net/>>, for EGU general assemblies, or ESSOAr <<https://www.essoar.org/>> for AGU Fall Meetings.

Volume estimé des données 0

Archive :

Documentation and data quality

Question sans réponse.

Storage and backup during the research process

Justification

All published data will be deposited in PANGAEA repository <<https://www.pangaea.de/>> where the consortium already deposited previously published data

Volume estimé des données 0

Archive :

Legal and ethical requirements, code of conduct

Question sans réponse.

Question sans réponse.

Data sharing and long-term preservation

Question sans réponse.

Question sans réponse.

Data management responsibilities and resources

Question sans réponse.

Question sans réponse.

