
DMP du projet "Effets combinés des stressseurs environnementaux multiples sur les oiseaux marins Arctiques"

Plan de gestion de données créé à l'aide de DMP OPIDoR, basé sur le modèle "Science Europe - DMP template (english)" fourni par Science Europe.

Plan Details

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Project Details

Project title Effets combinés des stresseurs environnementaux multiples sur les oiseaux marins Arctiques

Acronym ARCTIC-STRESSORS

Abstract L'Arctique fait face à une accélération des changements environnementaux qui affectent les espèces et les écosystèmes marins de cette région. Le projet ARCTIC-STRESSORS propose d'étudier par une approche multidisciplinaire et à l'échelle pan-Arctique les effets combinés de facteurs de stress multiples (pollution, fonte des glaces, augmentation des températures) sur les oiseaux marins Arctiques. Plus précisément, ce projet a pour objectifs 1) d'évaluer l'importance de la glace de mer pour les oiseaux marins et comment la fonte des glaces pourrait augmenter leur exposition à la contamination par le mercure (Hg), mais également comment la combinaison de ces deux stresseurs pourrait impacter le comportement et la fitness des organismes. 2) D'étudier l'impact du Hg sur les capacités de thermorégulation des oiseaux marins et l'effet combiné d'une augmentation des températures, de la contamination par le Hg et de la diminution des étendues de glaces sur la niche énergétique et in fine la distribution de ces espèces en Arctique.

Funding

- Agence Nationale de la Recherche : ANR-20-CE34-0006

Start date 2021-03-01

End date 2025-02-28

Research outputs :

1. Jeu de données / Data ARCTIC-STRESSORS/ARCTOX (Jeu de données)
2. Collection d'échantillons / Collected samples ARCTIC-STRESSORS/ARCTOX (Collection)

Contributors

Name	Affiliation	Roles
FORT Jérôme	Littoral, Environnement et Sociétés - 201220407J	<ul style="list-style-type: none">• Coordinateur du projet• Personne contact pour les données (Echantillons/Samples, Données / Data)
Jerome Fort		<ul style="list-style-type: none">• Responsable du plan de gestion de données

Droits d'auteur :

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DMP du projet "Effets combinés des stressseurs environnementaux multiples sur les oiseaux marins Arctiques"

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

Jeu de données / Data ARCTIC-STRESSORS/ARCTOX

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

We will collect data both in the field and in the laboratory.

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

Data on seabird reproduction, ecology, survival and behaviour will be collected in the field in East Greenland on little auks, common eiders and black-legged kittiwakes

Stable isotopes (carbon and nitrogen), total mercury and all trace element data will be collected in the laboratory LIENSs-CNRS (La Rochelle, France)

Mercury stable isotope data will be collected in the laboratory IPREM-CNRS (Pau, France)

Highly Branched Isoprenoid data will be collected in the laboratory LOCEAN-CNRS (Concarneau, France)

Collection d'échantillons / Collected samples ARCTIC-STRESSORS/ARCTOX

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

We will collect samples in the field in East Greenland.

Additional data will be collected through the international network ARCTOX (arctox.cnrs.fr)

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

Blood (whole blood, plasma, red blood cells), feather and egg samples will be collected in East Greenland and all around the ARCTIC through the international network ARCTOX

2. Documentation and data quality

Jeu de données / Data ARCTIC-STRESSORS/ARCTOX

2a. What metadata and documentation (for example the methodology of data collection and way of

organising data) will accompany the data?

Metadata will include information on sample collection site, species, date/year, type of sample collected, analyses performed, involved collaborators, and storage place of the associated samples.

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

The quality of all the performed laboratory analyses and obtained results will be controlled by analyzing Certified Reference Material among a set of samples. In addition, datasets will be thoroughly reviewed for quality before analysis and publication (e.g., checked for the existence of outliers).

Collection d'échantillons / Collected samples ARCTIC-STRESSORS/ARCTOX

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

Metadata will include information on sample collection site, species, date/year, type of sample collected, analyses performed, involved collaborators, and storage place.
Sampling protocols will also accompany the data

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

Samples will be stored in a dry room at ambient temperature and in the dark.

3. Storage and backup during the research process

Jeu de données / Data ARCTIC-STRESSORS/ARCTOX

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

Data will be stored on the computer of the project leader. Data will also be backed up in multiple places (external hard drives of the project leader and of at least one of the main collaborators). Data will also be stored in the Cloud via the CNRS.

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

Collected data do not contain sensitive information.
All computers will be equipped with antivirus. Regular backup on external hard drive will be performed.

Collection d'échantillons / Collected samples ARCTIC-STRESSORS/ARCTOX

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

Samples (and leftovers after analyses, if any) will be stored at the laboratory LIENSs-CNRS (La Rochelle, France).

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

Collected samples are not sensitive.

Freezers where samples will be stored will be regularly checked

Dried samples will be stored in a dedicated secured room

4. Legal and ethical requirements, codes of conduct

Jeu de données / Data ARCTIC-STRESSORS/ARCTOX

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

Not Applicable

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

Intellectual property right 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

Collection d'échantillons / Collected samples ARCTIC-STRESSORS/ARCTOX

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

Not applicable

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

Intellectual property right and ownership will be managed by consensus. Samples will belong to both the project leader and the international team which collected them in the field.
French legislation is applicable.

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

Sample collection at the different Arctic sites will be performed under international ethical rules and under ethical/sample collection permits that apply at each site/country.

5. Data sharing and long-term preservation

Jeu de données / Data ARCTIC-STRESSORS/ARCTOX

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

Data will be shared to the project collaborators through an online repositories regularly updated (<https://arctox.plumegeo.fr/>).
Data will also be made available upon request. An embargo may be applied if data have not been published (not applicable to collaborators).

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

All data will be preserved long-term on the project repository (<https://arctox.plumegeo.fr/>), beyond the project lifetime. In addition, data associated with publications derived from the project will be available long-term in a public repository, such as <http://datadryad.org>.

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

Data generated throughout the project will be accessible via Excel
Data can be collected directly by collaborators through the project repository (<https://arctox.plumegeo.fr/>) and individual password available upon request.

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.

Collection d'échantillons / Collected samples ARCTIC-STRESSORS/ARCTOX

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

Samples will not be shared prior to analyses planned in the project

Sample left-overs, if any, could be made available upon request, given scientific relevance and under collaboration with the project leader

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

Available samples will be stored beyond the project at the LIENSs-CNRS laboratory.

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

NA

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

NA

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 leader (Jerome Fort) will be responsible for all data and sample management, with support from collaborators.

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)?

Costs of archiving data on a digital repository are commonly covered by scholarly journals. In the case that archiving costs are not covered by the journal, institutional funds will be used to cover these costs.

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

