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# 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

<b>Plan title</b>	DMP du projet "Effets combinés des stressseurs environnementaux multiples sur les oiseaux marins Arctiques"
<b>Version</b>	Version initiale
<b>Fields of science and technology (from OECD classification)</b>	Earth and related environmental sciences
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<b>Identifier</b>	Data Management Plan - ARCTIC-STRESSORS
<b>Identifier type</b>	identifiant local

## Project Details

<b>Project title</b>	Effets combinés des stressseurs environnementaux multiples sur les oiseaux marins Arctiques
<b>Acronym</b>	ARCTIC-STRESSORS
<b>Abstract</b>	<p>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 stressseurs 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.</p>

## Funding

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

**Start date** 2021-03-01

**End date** 2025-02-28

## Produits de recherche :

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

## Contributeurs

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

### 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.

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

### Jeu de données / Data ARCTIC-STRESSORS/ARCTOX

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

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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

We will collect samples in the field in East Greenland.

Additional data will be collected through the international network ARCTOX ([arctox.cnrs.fr](http://arctox.cnrs.fr))

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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

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.

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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

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

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**

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.

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**

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

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**

Not Applicable

Intellectual property right 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

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

Not 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.

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

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).

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>.

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.

DOI will be assigned to published data via Dataverse.

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

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

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

NA

NA

## 6. Data management responsibilities and resources

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

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.