

Motivation

The AERosols, RadiatiOn and CLOUDs in southern Africa (AEROCLO-sA) project is an international network of scientists funded through the French National Research Agency (ANR, ANR-15-CE01-0014-01), the LEFE/CHAT and the LEFE/PNTS programmes (grants n° PNTS-2016-02 and PNTS-2016-14) of the CNRS-INSU, the French National Space Agency (CNES), the European Union's 7th Framework Programme (FP7/2014-2018) and the South African National Research Foundation (NRF).

In collaboration with African scientists, AEROCLO-sA aims to study the impact of aerosols on the regional radiative budget in the presence of clouds, and the implications on weather and climate.

The multidisciplinary analysis of observations from a major field campaign in August - September 2017 is a key element of the AEROCLO-sA strategy.

Background & Definitions

1) This policy covers data (including quick looks) collected during AEROCLO-sA field experiments by institutions and individual scientists participating in the project. This will include data generated in collaboration with partners paid through subcontracts.

2) The AEROCLO-sA observations are split into individual datasets that are owned by one data Principle Investigator (PI) and can be accessed separately.

3) For the use of data, two groups will be distinguished:

(A) Senior researchers named in the original AEROCLO-sA proposal and employees of AEROCLO-sA beneficiaries paid through project funds will have immediate access to all data, once uploaded to the database, but must follow the requirements laid out in this policy.

(B) All external parties will have the same access rights after an embargo period specified in this protocol. Alternatively they can request earlier access through written application to the AEROCLO-sA Steering Committee (SC, composed by the partners of the ANR, NRF and EUFAR projects:

- Paola Formenti (LISA) – project coordinator

- Barbara D'Anna (IRCELYON) – WP1 coordinator: ground-based observations

- Cyrille Flamant (LATMOS) – WP2 coordinator: aircraft observations

- Fabien Waquet (LOA) – WP3 coordinator: remote sensing observations

- Marc Mallet (CNRM) – WP4 coordinator: modelling

- Stuart John Piketh (NWU) – South African NRF project coordinator

- Kerstin Schepanski (TROPOS) – EUFAR2 transnational access projects EriSMA and ALLDUST-SA coordinator

and represented by the project PI, P. Formenti - paola.formenti@lisa.u-pec.fr) as explained in the following.

4) Generally, the access given to the data by this policy only covers the sole and direct use of the data in the framework of the scientific objectives of AEROCLO-sA. This explicitly excludes the redistribution of data to third parties and the use for commercial applications.

Use for scientific work outside of AEROCLO-sA objectives needs a written permission by the SC. The sole exception is that the data PIs themselves are allowed to use their datasets for research unrelated to AEROCLO-sA.

5) This policy has been established considering rules of the national funding agencies of AEROCLO-sA. If data are created through additional funding sources (e.g. EUFAR), additional rules may apply that will be specified in the documentation of the individual datasets.

Rules

1) Data producers must provide their data to the project database held by the pole AERIS/Sedoo (le Service de Données de l'OMP CNES / CNRS / IRD / Météo-France / UPS). The timeframe for data upload is described below.

2) AEROCLO-sA data collected using AEROCLO-sA funds can be updated at any time but not later than December 2018 except for field samples which can be submitted until March 2019. Data PIs are requested to provide information about every update together with the new version. All users that have downloaded a given dataset from the database are automatically informed about the update via e-mail.

3) AEROCLO-sA data available to all AEROCLO-sA participants until September 2019 (with provision to contact the PI prior to using their data). During the embargo period, any data is accessible on request and royalty free to all AEROCLO-sA participants within the limits of the scientific objectives of the project. Before the end of the embargo period, external users can request the release of individual datasets through written application to the SC.

4) AEROCLO-sA data will be opened to registered users in the wider community from October 2019. After that, external users can access the data in the same way as AEROCLO-sA participants.

5) AEROCLO-sA data collected or analysed using AEROCLO-sA funds, but residing in another database, should be available via web links giving access to the data. AEROCLO-sA participants should be able to request access to other datasets collected as part of these experiments.

6) Users of the database are expected to contact the producer/owner of the data in order to propose collaboration, also after the end of the embargo period. To ensure this happens, any access to a data set (or a sub-data set) will automatically trigger an e-mail to the owner of the data so that he/she is aware of who intends to use the data and can contact that person if needed. This also allows the owners (PIs) of the data to inform their users of any evolution in the dataset.

7) AEROCLO-sA participants or other registered users will offer co-authorship to the PI if the data is used in a scientific publication. Such scientific publications shall cite the relevant reference (data publication or database identification, including DOI) provided by the PI.

8) For any usage of AEROCLO-sA data needs to be acknowledged with the sentence: "This work was supported by the French National Research Agency under grant agreement n° ANR-15-CE01-0014-01, the French national programme LEFE/INSU, the Programme national de Télédétection Spatiale (PNTS, <http://www.insu.cnrs.fr/pnts>), grants n° PNTS-2016-02 and PNTS-2016-14, the French National Agency for Space Studies (CNES), and the South African National Research Foundation (NRF) under grant UID 105958. The research leading to these results has received funding from the European Union's 7th Framework Programme (FP7/2014-2018) under EUFAR2 contract n°312609". Airborne data was obtained using the F20 Atmospheric Research Aircraft managed by Safire, which is a joint facility of the CNRS, Météo-France and the CNES."

9) Any publication related to AEROCLO-sA has to be reported to the SC AEROCLO-sA Members by email (aeroclo-sc@lisa.u-pec.fr) then have 30 days to object to the publication. Should an objection be raised, the procedure described in the Consortium Agreement will be followed. It is recommended that published or accepted versions of AEROCLO-sA-related publications are uploaded to the Baobab bibliographic repository to increase the visibility of AEROCLO-sA research.

10) This policy will be signed by all scientists who request access to the AEROCLO-sA data base.

11) It is possible that parts of the data in the AEROCLO-sA database are also stored in other databases (e.g. EUFAR, NASA..). The rules laid out in this document should be followed as much as possible. The AEROCLO-sA SC should be informed in due course and deviations from the AEROCLO-sA data policy need to be approved. Assignment of a data DOI should only be made through Sedoo and any other database should use that same DOI.

12) Any breaches of this data policy will be discussed by the AEROCLO-sA Steering Committee, which reserves the right to take legal actions under French law.

PROCEDURE

1) Scientists wishing to get access to data from the AEROCLO-sA database filling the following form, the content of which will be automatically sent to the AEROCLO-sA SC by e-mail (aeroclo-sc@lisa.u-pec.fr).

2) The SC verifies that the request originates from an AEROCLO-sA beneficiary and informs the scientist that the user account is open for access to all AEROCLO-sA data.

For external users, see following paragraph.

3) If the request originates from an external party, the SC team will discuss the request and decide.

In this case access may only be granted to part of the AEROCLO-sA observations (individual datasets).

After the end of the embargo period, external users will be treated the same way as internal users during the embargo period.

AEROCLO-sA form for access to data

Web form that asks for Full Name, Affiliation (address, phone, e-mail) and description of intended data use including a specification of which part of the AEROCLO-sA data should be used.

1) With this form, I fully accept the rules given in this data policy. In particular

- I apply for access to the data in order to perform work as described in the following description of intended data use.

- I commit to contact the producer/owner of the data I required in order to propose a collaboration (note that an automatic e-mail will be sent to that person).

2) In the case of any publication, I commit

- to propose co-authorship with the data provider

- to acknowledge the funding of AEROCLO-sA with the sentence:

“This work was supported by the French National Research Agency under grant agreement n° ANR-15-CE01-0014-01, the French national programme LEFE/INSU, the Programme national de

Téledetection Spatiale (PNTS, <http://www.insu.cnrs.fr/pnts>), grants n° PNTS-2016-02 and PNTS-2016-14, the French National Agency for Space Studies (CNES), and the South African National Research Foundation (NRF) under grant UID 105958. The research leading to these results has received funding from the European Union's 7th Framework Programme (FP7/2014-2018) under EUFAR2 contract n°312609". Airborne data was obtained using the F20 Atmospheric Research Aircraft managed by Safire, which is a joint facility of the CNRS, Météo-France and the CNES."

- to inform the SC of any publication related to AEROCLO-sA at least 30 days prior to planned submission using the email address aeroclo-sc@lisa.u-pec.fr.

3) I commit to never redistribute AEROCLO-sA data received through this agreement to any other person or institution without the permission of the data owner.

4) I commit not to use data for commercial applications.