

[UC]² Data Policy - Version 1.0

Working Group (WG) Data Management – WG Leader: Dieter Scherer

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This data policy holds for all data provided by the [UC]² data management system (DMS) or by other data repositories granting access to [UC]² data for collaborative research.

The research programme “Urban Climate Under Change” - [UC]², funded by the German Federal Ministry of Education and Research (BMBF) since June 2016, operates a DMS for distribution of data to be used for collaborative research between partners of the four consortia MOSAIK, 3DO, KliMoPrax and UseUClim participating in the [UC]² research programme. The [UC]² DMS will be maintained during the entire funding period, for which this data policy applies. During this period the [UC]² DMS will provide data exclusively to partners of the [UC]² consortium, since an account is required for accessing the [UC]² DMS. The data policy remains valid for [UC]² data to be provided by other means for collaborative research after termination of the [UC]² research programme.

Data that are intended to be uploaded to the [UC]² DMS must use one of the seven variants of data licences that have been defined by [UC]²:

MOSAIK Licence

3DO Licence

KliMoPrax Licence

UseUClim Licence

[UC]² Restricted Licence

[UC]² Research Licence

[UC]² Open Licence

The respective data licence must be specified in the global attribute **licence** in the NetCDF file in which the data are stored. Other data formats that are supported by the [UC]² DMS may use different methods for indication of the respective licence.

Specific conditions of use apply to each of the data licence variants, which are described in the following. In addition, any NetCDF file containing data to be uploaded to the [UC]² DMS must strictly adhere to the conventions defined by the [UC]² data standard.

Use of the **[UC]² Research Licence** or the **[UC]² Open Licence** as specified below is highly recommended to all partners of the [UC]² consortium providing data for collaborative research, since the [UC]² research programme intends to follow and support an open data policy. As soon as data that are stored in NetCDF files have been published, the respective NetCDF file(s) shall include the reference in the global attribute **references**. One of the **[UC]² Research Licence** or the **[UC]² Open Licence** shall be used subsequently. If data that have previously been uploaded to the [UC]² DMS using one of the restrictive data licence variants have been published, a new version of the file(s) in which the data are stored shall be generated and uploaded to the [UC]² DMS again.

Data that are not intended to be uploaded to the [UC]² DMS may follow individual data policies as defined by the partner who owns the data. The partners are free to decide upon distribution of their own data by other means. If such data are shared with subsequent users, the data shall nevertheless adhere to the conventions defined by the [UC]² data standard, although this is not an obligation.

MOSAIK Licence

1. Licence type

Data provided by the [UC]² data management system (DMS) under the **MOSAIK Licence** (as indicated by the global attribute **licence** in the NetCDF file in which the data are stored, or by other means in further file formats) are licensed under a Creative Commons Licence CC-BY-NC-SA (<http://creativecommons.org/licenses/by-nc-sa/4.0/legalcode>) as far as those conditions are not in any way modified by the following conditions or by any conditions specific to data (see 7. Data originating from other data bases).

2. Data usage

Data under the **MOSAIK Licence** may exclusively be used by partners from official member institutions of the MOSAIK consortium, i.e., their institutions have signed the MOSAIK cooperation agreement between the partners and the MOSAIK cooperation agreement with the Deutsche Wetterdienst (DWD). Any use of data must be in accordance with the cooperation agreements and the recommendations on safeguarding good scientific practice published by the Deutsche Forschungsgemeinschaft (DFG).

3. Audit

All downloads from the [UC]² DMS are auditable. Information will be used for statistical analyses, such as download statistics.

4. Publications

Articles, papers, or written scientific work of any form, based in whole or in part on data under the **MOSAIK Licence** may only be published after written permission have been granted by the owner of the data. Publications must contain a reference including the title, the author and the institution owning the data as specified in the meta-data.

5. Share alike

Sharing of data under the **MOSAIK Licence** is only allowed with persons who have the right to use them (see 2. Data usage). Any user who is sharing data will accept responsibility for informing subsequent users of the respective conditions of use.

6. Liability/Warranty

Data are delivered to the user without a warranty of any kind. The user is aware that the data were generated in keeping with the state of science and technology during the time of data generation.

7. Data originating from other data bases

The data policy of the source data base applies for any data originating from other data bases as indicated in the meta-data. Any use of these data must also be in agreement with the respective conditions of use.

3DO Licence

1. Licence type

Data provided by the [UC]² data management system (DMS) under the **3DO Licence** (as indicated by the global attribute **licence** in the NetCDF file in which the data are stored, or by other means in further file formats) are licensed under a Creative Commons Licence CC-BY-NC-SA (<http://creativecommons.org/licenses/by-nc-sa/4.0/legalcode>) as far as those conditions are not in any way modified by the following conditions or by any conditions specific to data (see 7. Data originating from other data bases).

2. Data usage

Data under the **3DO Licence** may exclusively be used by partners from official member institutions of the 3DO consortium, i.e., their institutions have signed the 3DO cooperation agreement between the partners and the 3DO cooperation agreement with the Deutsche Wetterdienst (DWD). Any use of data must be in accordance with the cooperation agreements and the recommendations on safeguarding good scientific practice published by the Deutsche Forschungsgemeinschaft (DFG).

3. Audit

All downloads from the [UC]² DMS are auditable. Information will be used for statistical analyses, such as download statistics.

4. Publications

Articles, papers, or written scientific work of any form, based in whole or in part on data under the **3DO Licence** may only be published after written permission have been granted by the owner of the data. Publications must contain a reference including the title, the author and the institution owning the data as specified in the meta-data.

5. Share alike

Sharing of data under the **3DO Licence** is only allowed with persons who have the right to use them (see 2. Data usage). Any user who is sharing data will accept responsibility for informing subsequent users of the respective conditions of use.

6. Liability/Warranty

Data are delivered to the user without a warranty of any kind. The user is aware that the data were generated in keeping with the state of science and technology during the time of data generation.

7. Data originating from other data bases

The data policy of the source data base applies for any data originating from other data bases as indicated in the meta-data. Any use of these data must also be in agreement with the respective conditions of use.

KliMoPrax Licence

1. Licence type

Data provided by the [UC]² data management system (DMS) under the **KliMoPrax Licence** (as indicated by the global attribute **licence** in the NetCDF file in which the data are stored, or by other means in further file formats) are licensed under a Creative Commons Licence CC-BY-NC-SA (<http://creativecommons.org/licenses/by-nc-sa/4.0/legalcode>) as far as those conditions are not in any way modified by the following conditions or by any conditions specific to data (see 7. Data originating from other data bases).

2. Data usage

Data under the **KliMoPrax Licence** may exclusively be used by partners from official member institutions of the KliMoPrax consortium, i.e., their institutions have signed the KliMoPrax cooperation agreement between the partners and the KliMoPrax cooperation agreement with the Deutsche Wetterdienst (DWD). Any use of data must be in accordance with the cooperation agreements and the recommendations on safeguarding good scientific practice published by the Deutsche Forschungsgemeinschaft (DFG).

3. Audit

All downloads from the [UC]² DMS are auditable. Information will be used for statistical analyses, such as download statistics.

4. Publications

Articles, papers, or written scientific work of any form, based in whole or in part on data under the **KliMoPrax Licence** may only be published after written permission have been granted by the owner of the data. Publications must contain a reference including the title, the author and the institution owning the data as specified in the meta-data.

5. Share alike

Sharing of data under the **KliMoPrax Licence** is only allowed with persons who have the right to use them (see 2. Data usage). Any user who is sharing data will accept responsibility for informing subsequent users of the respective conditions of use.

6. Liability/Warranty

Data are delivered to the user without a warranty of any kind. The user is aware that the data were generated in keeping with the state of science and technology during the time of data generation.

7. Data originating from other data bases

The data policy of the source data base applies for any data originating from other data bases as indicated in the meta-data. Any use of these data must also be in agreement with the respective conditions of use.

UseUCLim Licence

1. Licence type

Data provided by the [UC]² data management system (DMS) under the **UseUCLim Licence** (as indicated by the global attribute **licence** in the NetCDF file in which the data are stored, or by other means in further file formats) are licensed under a Creative Commons Licence CC-BY-NC-SA (<http://creativecommons.org/licenses/by-nc-sa/4.0/legalcode>) as far as those conditions are not in any way modified by the following conditions or by any conditions specific to data (see 7. Data originating from other data bases).

2. Data usage

Data under the **UseUCLim Licence** may exclusively be used by partners from official member institutions of the UseUCLim consortium, i.e., their institutions have signed the UseUCLim cooperation agreement. Any use of data must be in accordance with the cooperation agreement and the recommendations on safeguarding good scientific practice published by the Deutsche Forschungsgemeinschaft (DFG).

3. Audit

All downloads from the [UC]² DMS are auditable. Information will be used for statistical analyses, such as download statistics.

4. Publications

Articles, papers, or written scientific work of any form, based in whole or in part on data under the **UseUCLim Licence** may only be published after written permission have been granted by the owner of the data. Publications must contain a reference including the title, the author and the institution owning the data as specified in the meta-data.

5. Share alike

Sharing of data under the **UseUCLim Licence** is only allowed with persons who have the right to use them (see 2. Data usage). Any user who is sharing data will accept responsibility for informing subsequent users of the respective conditions of use.

6. Liability/Warranty

Data are delivered to the user without a warranty of any kind. The user is aware that the data were generated in keeping with the state of science and technology during the time of data generation.

7. Data originating from other data bases

The data policy of the source data base applies for any data originating from other data bases as indicated in the meta-data. Any use of these data must also be in agreement with the respective conditions of use.

[UC]² Restricted Licence

1. Licence type

Data provided by the [UC]² data management system (DMS) under the **[UC]² Restricted Licence** (as indicated by the global attribute **licence** in the NetCDF file in which the data are stored, or by other means in further file formats) are licensed under a Creative Commons Licence CC-BY-NC-SA (<http://creativecommons.org/licenses/by-nc-sa/4.0/legalcode>) as far as those conditions are not in any way modified by the following conditions or by any conditions specific to data (see 7. Data originating from other data bases).

2. Data usage

Data under the **[UC]² Restricted Licence** may exclusively be used by partners from official member institutions of the [UC]² research programme. Any use of data must be in accordance with the recommendations on safeguarding good scientific practice published by the Deutsche Forschungsgemeinschaft (DFG).

3. Audit

All downloads from the [UC]² DMS are auditable. Information will be used for statistical analyses, such as download statistics.

4. Publications

Articles, papers, or written scientific work of any form, based in whole or in part on data under the **[UC]² Restricted Licence** may only be published after written permission have been granted by the owner of the data. Publications must contain a reference including the title, the author and the institution owning the data as specified in the meta-data.

5. Share alike

Sharing of data under the **[UC]² Restricted Licence** is only allowed with persons who have the right to use them (see 2. Data usage). Any user who is sharing data will accept responsibility for informing subsequent users of the respective conditions of use.

6. Liability/Warranty

Data are delivered to the user without a warranty of any kind. The user is aware that the data were generated in keeping with the state of science and technology during the time of data generation.

7. Data originating from other data bases

The data policy of the source data base applies for any data originating from other data bases as indicated in the meta-data. Any use of these data must also be in agreement with the respective conditions of use.

[UC]² Research Licence

1. Licence type

Data provided by the [UC]² data management system (DMS) or by other data bases under the **[UC]² Research Licence** (as indicated by the global attribute **licence** in the NetCDF file in which the data are stored, or by other means in further file formats) are licensed under a Creative Commons Licence CC-BY-NC-SA (<http://creativecommons.org/licenses/by-nc-sa/4.0/legalcode>) as far as those conditions are not in any way modified by the following conditions or by any conditions specific to data (see 7. Data originating from other data bases).

2. Data usage

Data under the **[UC]² Research Licence** may be used freely for research only (non-commercial purposes). Data may be used for other purposes after written permission has been granted by the owner of the data. Any use of data must be in accordance with the recommendations on safeguarding good scientific practice published by the Deutsche Forschungsgemeinschaft (DFG).

3. Audit

All downloads from the [UC]² DMS are auditable. Information will be used for statistical analyses, such as download statistics.

4. Publications

Articles, papers, or written scientific work of any form, based in whole or in part on data under the **[UC]² Research Licence** must contain a reference including the title, the author and the institution owning the data as specified in the meta-data.

5. Share alike

Sharing of data under the **[UC]² Research Licence** is allowed. Any person sharing data will accept responsibility for informing the other users of the respective conditions of use.

6. Liability/Warranty

Data are delivered to the user without a warranty of any kind. The user is aware that the data were generated in keeping with the state of science and technology during the time of data generation.

7. Data originating from other data bases

The data policy of the source data base applies for any data originating from other data bases as indicated in the meta-data. Any use of these data must also be in agreement with the respective conditions of use.

[UC]² Open Licence

1. Licence type

Data provided by the [UC]² data management system (DMS) or by other data bases under the **[UC]² Open Licence** (as indicated by the global attribute **licence** in the NetCDF file in which the data are stored, or by other means in further file formats) are licensed under a Creative Commons Licence CC-BY-NC-SA (<http://creativecommons.org/licenses/by-nc-sa/4.0/legalcode>) as far as those conditions are not in any way modified by the following conditions or by any conditions specific to data (see 7. Data originating from other data bases).

2. Data usage

Data under the **[UC]² Open Licence** may be used freely for any purpose. Any use of data must be in accordance with the recommendations on safeguarding good scientific practice published by the Deutsche Forschungsgemeinschaft (DFG).

3. Audit

All downloads from the [UC]² DMS are auditable. Information will be used for statistical analyses, such as download statistics.

4. Publications

Articles, papers, or written scientific work of any form, based in whole or in part on data under the **[UC]² Open Licence** must contain a reference including the title, the author and the institution owning the data as specified in the meta-data.

5. Share alike

Sharing of data under the **[UC]² Open Licence** is allowed. Any person sharing data will accept responsibility for informing the other users of the respective conditions of use.

6. Liability/Warranty

Data are delivered to the user without a warranty of any kind. The user is aware that the data were generated in keeping with the state of science and technology during the time of data generation.

7. Data originating from other data bases

The data policy of the source data base applies for any data originating from other data bases as indicated in the meta-data. Any use of these data must also be in agreement with the respective conditions of use.