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Publication and Collation of Data Products and Presentation of Audit Trails

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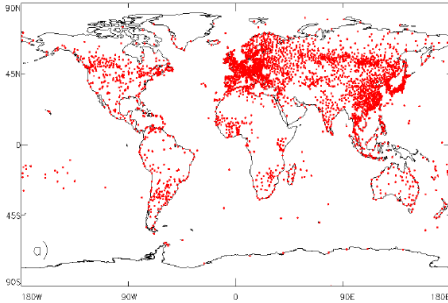


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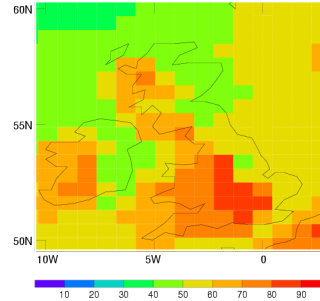


Data Product Format, Platform and Enabling Intercomparison

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eg. ASCII/netCDF



eg. gif/JPEG

METADATA

Something machine understandable

PLATFORM – like CMIP5 portal

Tables of all data products – level, version, spatial/temporal coverage, station/gridded, quality controlled, homogenised, created by etc.

Search engine

Files names according to a common format

INTERCOMPARISON

Graphics tools to create and compare maps, timeseries and basic statistics



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Acceptable Publication Criteria of the Data Product to the Data Bank



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List of source data (version, stations, period) and selection rationale

Documentation of the quality control method and flags

Homogeneous version of the data – where homogenisation methodology is documented in a previous peer-reviewed publication

Quality assessment report produced by running against at least a minimum set of the common test cases (WP 9 and 10)

Published paper documenting data construction method and related products in an ISI recognised journal

Audit trail document describing all processing steps – strong preference to include source code used



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Correct Acknowledgments and Intellectual Property Rights Issues



Correct Acknowledgments and Intellectual Property Rights Issues

All users of the data bank and data products should clearly indicate source (level/version, region)

Appropriate acknowledgment statements for use of the portal/data bank should be stored on the data bank web portal

Data product users should also reference the associated journal publication



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Audit Trails

Audit Trails

Sufficiently detailed step by step documentation of choices and methodology such that the product is reproducible:

list station used and periods considered

processing steps – particularly statistical, quality control and homogenisation methodology

THIS SHOULD INCLUDE CODE/SOFTWARE – IN CASES WHERE COPYRIGHT PROHIBITS THIS A STEP BY STEP LIST OF WHAT THE CODE DOES MAY SUFFICE

quality control flag metadata

breakpoint locations and adjustment factors

any ancillary datasets used



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Recommendation Summary

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- 1) Publication Criteria for the data product in the data bank:
 - source data list and rationale
 - description of quality control method and metadata flags
 - homogeneous and/or gridded version of the data
 - quality assessment report
 - Peer reviewed publication
 - audit trail with publication of code used

- 2) Common data format from a common data portal akin to CMIP

- 3) Manipulation tools provided to allow endusers to access the data, produce plots and make intercomparisons



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Questions?