

Goal

Capture provenance data relating to the “climategate” data using the W3C provenance model with Annalist

Source

Atmospheric Sciences > International Journal of Climatology > Vol 34 Issue 3 > Abstract

INTERNATIONAL JOURNAL OF CLIMATOLOGY

RESEARCH ARTICLE

Updated high-resolution grids of monthly climatic observations – the CRU TS3.10 Dataset

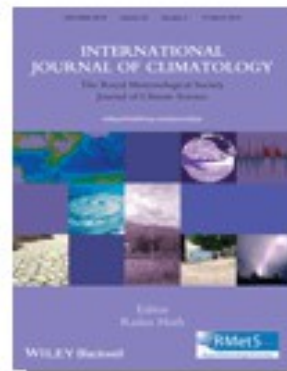
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Issue



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Additional Information (Show All)

SEARCH

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Advanced

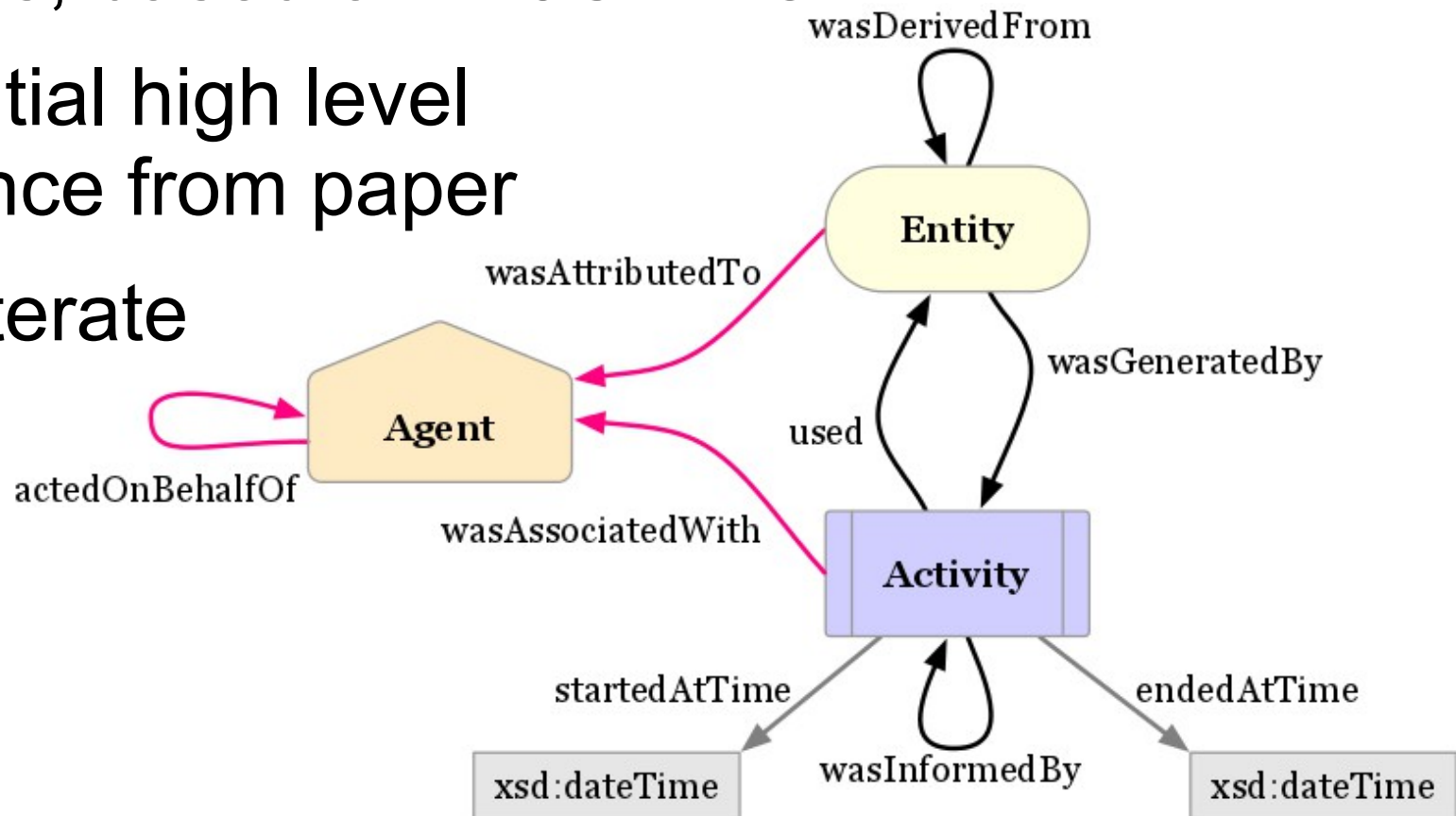
ARTICLE 1

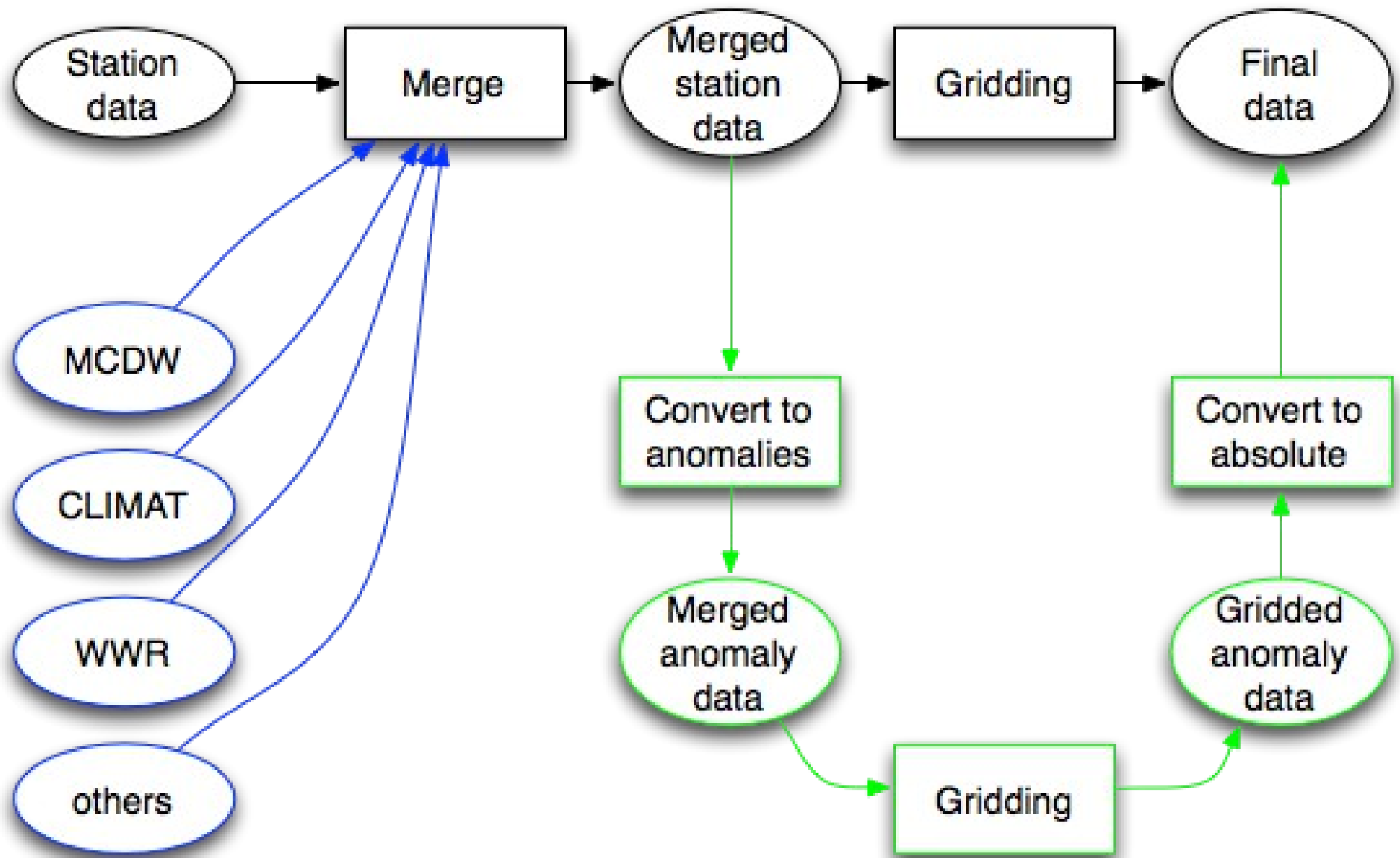
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<http://dx.doi.org/10.1002/joc.3711>

What we did

1. Create Annalist collection and GitHub repo
2. Created initial Annalist data definitions, based on W3C PROV
3. Glean initial high level provenance from paper
4. Refine, iterate





Outcome 1 - online provenance capture/demo tool

http://demo.annalist.net/annalist/c/Climate_data_provenance/

The screenshot shows a web browser window with the URL `demo.annalist.net/annalist/c/Climate_data_provenance/`. The page title is "Example provenance data for climate data sets". The navigation bar includes "Home", "Climate_data_provenance", "User gklyne", and "Logout". The main content area is titled "List entities" and features a search bar, a "List view" dropdown set to "Entity_list", and "View" and "View all" buttons. Below this is a table of climate data entities, each with a checkbox, an ID, and a label. At the bottom, there are buttons for "New", "Copy", "Edit", "Delete", "Close", "Set default", and "Customize".

	Id	Label
<input type="checkbox"/>	CLIMAT	CLIMAT monthly data
<input type="checkbox"/>	CRU_TS3_10_precip	CRU TS3.10 Dataset - precipitation
<input type="checkbox"/>	MCDW	MCDW
<input type="checkbox"/>	WWR	World Weather Records
<input type="checkbox"/>	gridded_precip_anomalies	Gridded precipitation anomaly data
<input type="checkbox"/>	merged_station_precip	Merged station precipitation data
<input type="checkbox"/>	merged_station_precip_anomalies	Merged station precipitation anomaly data
<input type="checkbox"/>	monthly_climatic_data	Monthly Climatic Data
<input type="checkbox"/>	station_precip	Station precipitation data

Outcome 2 – Annalist data definitions (JSON) in GitHub

https://github.com/gklyne/Climate_data_provenance

The screenshot shows the GitHub repository page for `gklyne/Climate_data_provenance`. The repository is owned by `gklyne` and has 1 branch, 4 commits, 0 releases, and 0 contributors. The main branch is `master`. The repository description is "Example provenance data for climate research datasets". The file list shows:

- `_annalist_collection`: Initial high-level provenance trace capture, 3 hours ago
- `d`: Initial high-level provenance trace capture, 3 hours ago
- `README.md`: first commit, 5 hours ago

The `README.md` file is selected, showing the title `Climate_data_provenance`. The right sidebar contains links to `Code`, `Issues`, `Pull requests`, `Wiki`, `Pulse`, `Graphs`, and `Settings`. The SSH clone URL is `git@github.com:gklyne/Climate_data_provenance`.

Summary

- Manual provenance extraction is tedious
 - automated capture would be much easier!
- Have created initial set of Annalist definitions for provenance
 - next time will be so much easier
- It proved very effective to start with a very high level view of provenance, and iterate
 - be agile
- Learned more about areas where Annalist usability still needs work