climate change initiative

→ CLIMATE MODELLING USER GROUP

CMUG support to the future evolution of Obs4MIPs

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cmug cci

CMUG purpose:

To encourage and facilitate use of the CCI ECV datasets by the climate modelling community

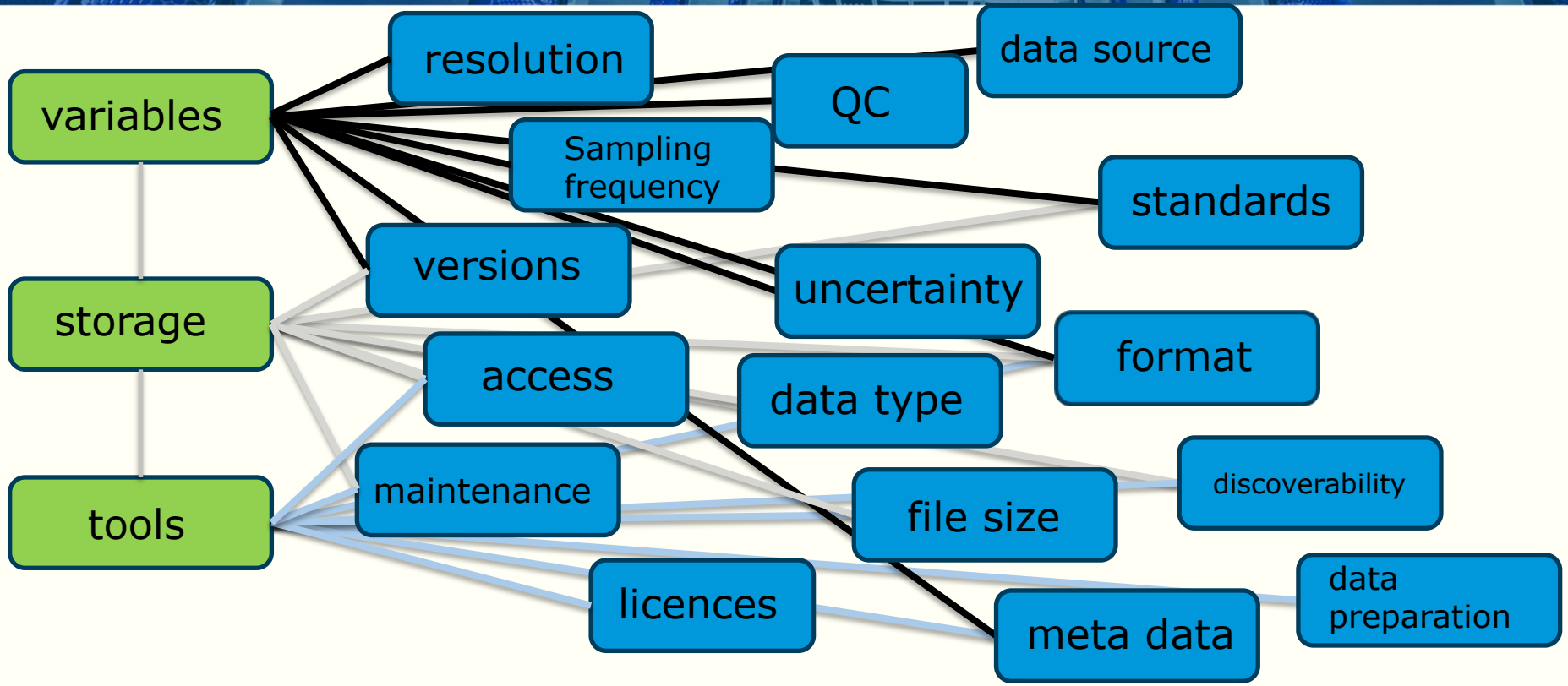
CMUG deliverable:

Obs4MIPs user requirements and gap analysis report.

User requirements for an observations data base

What is an ideal repository for a data provider?

What is an ideal repository for a data user?


variables
storage
tools
resolution
QC
data source
Sampling frequency
standards
versions
uncertainty
format
access
data type
maintenance
file size
discoverability
licences
meta data
data preparation

Updates to current Obs4MIPs provision

- Dataset updates
- Priorities for new variables (EO and in situ)
- CMIP requirements
- CORDEX requirements
- Other user’s requirements
- Dataset indicators/supplemental information
- New functionality

Current and future requirements

- What is needed now?
- 5-8 year outlook
- Synergy with other tools and databases
  - CreateIP/ana4MIPs
  - Input4MIPs
  - ESMValTool

Supporting operational evaluation of global and regional climate models

- In situ/regional datasets
- Sub-grid scale processes
- Higher temporal sampling
- Earth system monitoring
- Handling of uncertainties
- Equitable access
- Cataloguing

CORDEX Flagship studies/Scientific challenges

- Cities
- Wind Energy
- Inland Waters
- Small Islands
- Convection
- High Mountain Environments

Outreach

- Publicising the datasets available
- Ease of access
- Ease of use

Questions?

Please come and talk to me about your user requirements for obs4MIPs

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Spare slides

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Waliser et al/Ferraro et al recs

- Expand the inventory of datasets hosted by obs4MIPs
- Include higher frequency datasets and higher frequency model output
- Develop a capability to accommodate reliable and defendable uncertainty measures
- Include datasets and data specification support for datasets involving offline simulators
- Consider hosting reanalysis datasets in some fashion but with appropriate caveats
- Include gridded in sity datasets and consider other in situ possibilities
- Provide more information on the degree of correspondence between model and observations.