IfM FU Berlin - Dataworkshop

CMIP5 Data Structure

FONA Decadal Climate Prediction BMBF

MiKlip

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Done in MiKlip

- Structering of the validation data on miklip server
  - through data strategy via *obs4MIPs*
  - complete data area „ready to go“

```
cd   /miklip/integration/data4miklip
```

```
ls   documentation  model  observations  reanalysis
```

```
tree –L 2
|-- documentation
|   `-- technotes   -> to different products
|-- model
|   |-- baseline0   -> linked output1&output2 MPI-M
|   |-- baseline1   -> /miklip/->/baseline1
|   `-- cmip5       -> /gpfs_750/->/cmip5
|-- observations    -> obs4MIPs
|   |-- atmos       -> different (monthly) products
|   `-- ocean
`-- reanalysis      -> ana4MIPs
    `-- NASA-GMAO -> MERRA
```

Data Structure - MIP

CMIP5	• Coupled **Model** Intercomparison Project • cmip-pcmdi.llnl.gov -> • cmip5_data_reference_syntax.pdf

CMIP5 Data Reference Syntax (DRS) and Controlled Vocabularies

Karl E. Taylor, V. Balaji, Steve Hankin, Martin Juckes, Bryan Lawrence, and Stephen Pascoe

Version 1.2

9 March 2011

1 Introduction

1.1 Scope

Data Structure - MIP

CMIP5	• Coupled **Model** Intercomparison Project

<activity>|<product>|<institute>|<model>|<experiment>|<frequency>|
<modelingrealm>|<MIP table>|<ensemble member>|<version number>|
<variable name>|
<CMOR filename>.nc

cmip5/output1/MPI-M/MPI-ESM-LR/historical/mon/
atmos/Amon/r1i1p1/v20120315/
uas/
uas_Amon_MPI-ESM-LR_historical_r1i1p1_185001-200512.nc

Data Structure – MIP on MiKlip

CMIP5

model/cmip5/output1/MPI-M/MPI-ESM-LR/historical/mon/atmos/Amon/r1i1p1/v20120315/**uas**/
uas_Amon_MPI-ESM-LR_historical_r1i1p1_185001-200512.nc

obs4MIPs

observations/atmos/**uas**/mon/grid/NASA-JPL/QuikSCAT/v20120411/
uas_QuikSCAT_L2B_v20110531_199908-200910.nc

ana4MIPs

reanalysis/NASA-GMAO/GEOS-5/MERRA/mon/atmos/**uas**/
uas_Amon_reanalysis_MERRA_200001-200012.nc

BUT: Any structure would be nice…