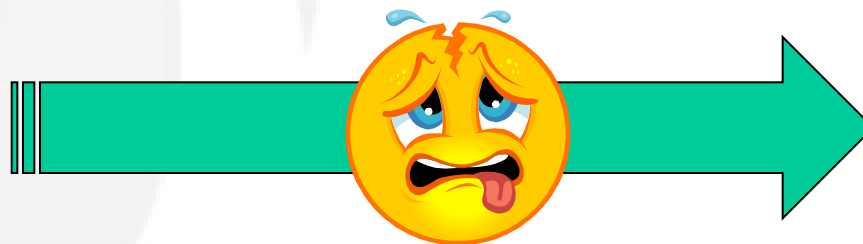
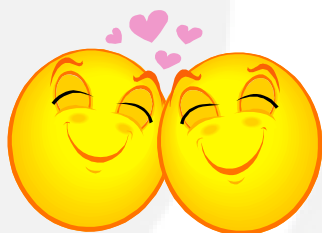


Using the ESGF portal to access...

...PMIP3-CMIP5-<your xMIPx> data

Theory ⇔ and practice!



...a scientific introduction to PMIP3 and CMIP5

- Paleoclimate Modelling Intercomparison Project, Phase 3
<https://pmip3.lsce.ipsl.fr/>
- Coupled Model Intercomparison Project (\Leftrightarrow IPCC model DB)
<http://cmip-pcmdi.llnl.gov/cmip5/>

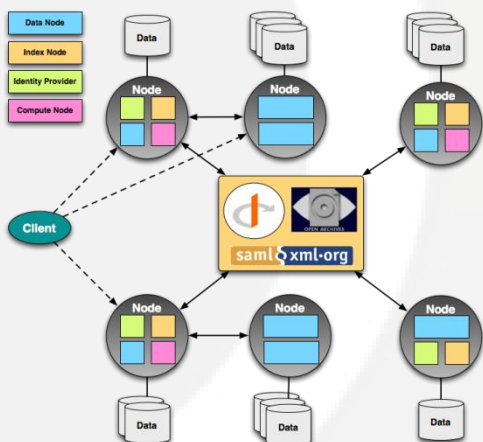


This presentation is not...

(2/2)

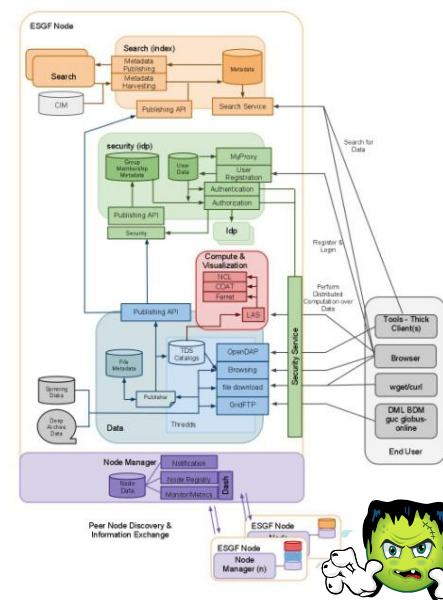
.. very technical

- ESGF = Earth System Grid Federation
 - “is a *spontaneous collaboration of groups*, agencies and institutions around the world, that are dedicated to the *development and operation* of a long-term system for the management, *access and analysis of climate data*”
 - ANL, LBNL, LLNL, NASA, NCAR, ORNL, BADC, CMCC, DKRZ, **IPSL**, ...
 - http://esgf.org/wiki/ESGF_Overview



What you need to know ☺

ESGF Distributed DB:
...is a collection of
Data nodes
Access portals



Forget the ugly technical details

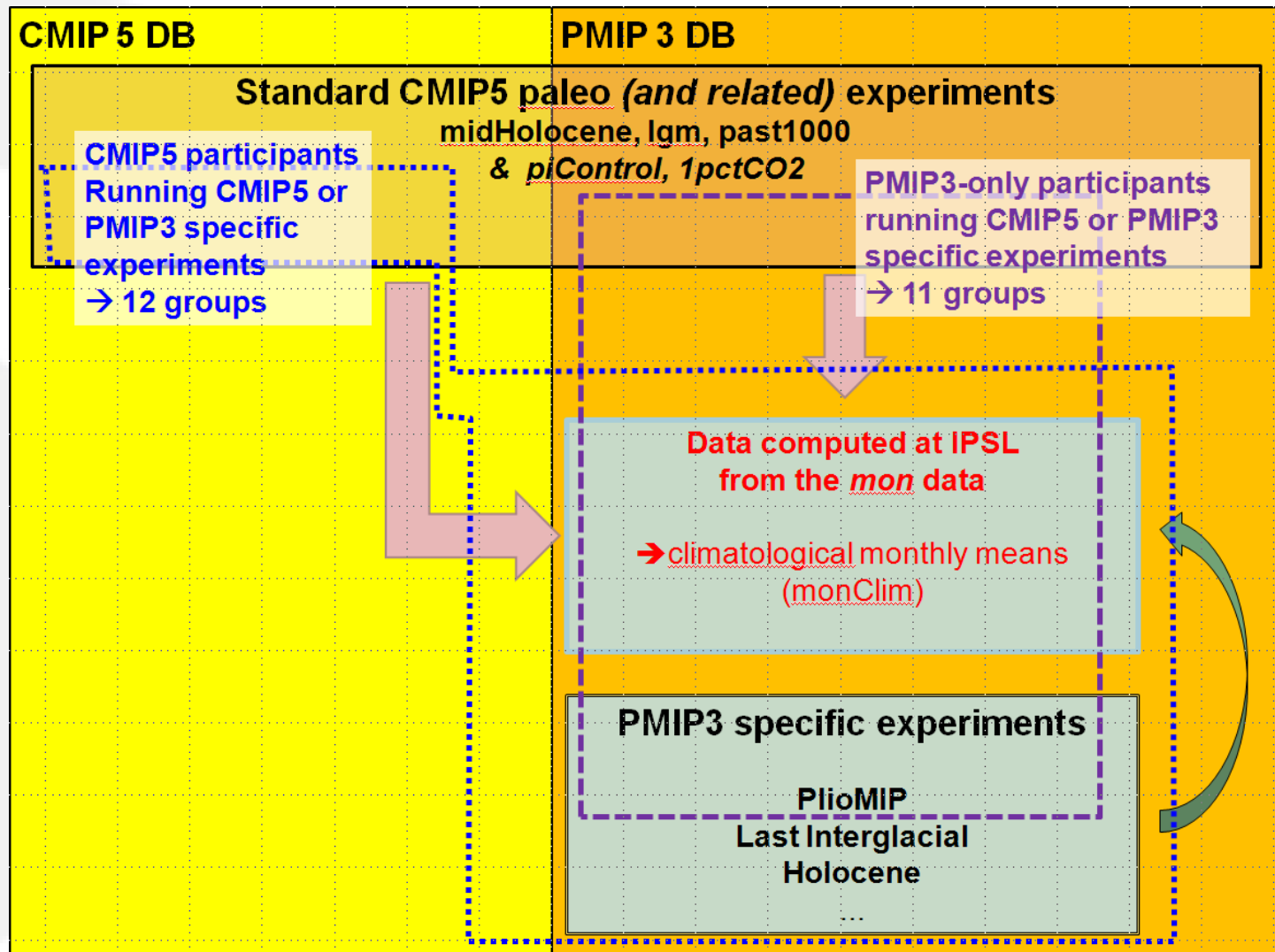


Why use ESGF to distribute PMIP3 data?

- The ESG infrastructure was initially developed to distribute CMIP5 and we adapted it for PMIP3
 - History: PMIPn and CMIPn have always been very close
 - Common variables, file formats & conventions, ...
 - Now: PMIP3 and CMIP5 have a lot of common data
 - PMIP3 has benefited A LOT from the PRODIGUER project
 - Distributing IPSL data for CMIP5 (project initiated by S. Denvil)
 - Data servers, ESGF software configuration and updates, manpower
- ESGF is constantly evolving (for the better):
 - Old Gateways portal: slow, frustrating
 - ➔ New Peer-to-peer Front-End (P2P FE): fast, easy
 - More developments for handling non-CMIP5 data
- We still depend on people who know how to make ESGF work reliably at IPSL! And can maintain it...



The PMIP3 and CMIP5 databases overlap



The PMIP3 groups

List of PMIP3/CMIP5 participants
Information as of April 22nd 2013

Up to date info: <https://pmip3.lsce.ipsl.fr/wiki/doku.php/pmip3.database.status>
Some P2P nodes: [PCMDI](#) [IPSL](#) [DKRZ](#) [BADC](#)

CMIP5 Errata: <http://pcmdi-cmip.lnl.gov/cmip5/errata/cmip5errata.html>
Models' documentation: <http://q.cma.cma.ac.cn/cmip5/publisheddocs/>

	Institute	Country	0k piControl	6k midHolocene	21k lgm	LM past1000 (1000 years)	1 % CO ₂ 1pctCO2 (140 years)	CMIP5	PlioMIP	Last Interglacial	Holocene	Carbon cycle	Atm	Ocn	Model id	Term of Use	Data Node	Publish to (index node)	Extra Doc Errata etc...
1	AWI	Germany	Completed	Completed	Completed			No	Yes	Yes	No	Yes	96x48 x L19	120x101 x L40	COSMOS-iso ?		DKRZ ?	ESG-WDCC ?	
2	BCC	China	CMIP5 (500)	CMIP5 (100)		CMIP5	CMIP5	Yes	No	No	No	Yes	128x64 x L26	360x232 x L40	bcc-csm1.1	Unrestricted	BCC	ESG-PCMDI	
3	BCCR	Norway	Completed	Running Summer 2013	Completed	Running Summer 2013	Running Summer 2013	No	Yes	Yes	No	Yes	96x48 x L26	100x116 x L32	NorESM1-L	Unrestricted	DKRZ ?	ESG-WDCC ?	
4	CAU-GEOMAR	Germany	PMIP3	PMIP3	Starting		PMIP3	No	Yes	Yes	?	No	96x48 x L19	182x149 x L31	KCM1-2	Non-commercial	DKRZ	ESG-WDCC ?	
5	CNRM-CERFACS	France	CMIP5 (850)	CMIP5 (200)	CMIP5 (200)		CMIP5	Yes	No	No	No	No	256x128 x L31	362x292 x L42	CNRM-CM5	Unrestricted	CNRM	ESG-IPSL	Doc
6	FUB	Germany	PMIP3 (400)		PMIP3 (800)			No	No	No	No	Yes	96x48 x L19	120x101 x L40	COSMOS-iso	Unrestricted	IPSL (DKRZ later?)	ESG-BADC	
7	NOAA-GFDL	USA	CMIP5 (470)		Starting avail. Fall 2013		CMIP5	Yes	No	No	No	Yes	144x90 x L24	360x200 x L50 360x210 x L64	GFDL-ESM2-G GFDL-ESM2-M	Unrestricted	GFDL	ESG-PCMDI	
8	NASA-GISS	USA	CMIP5 (7 x)	CMIP5 (100)	CMIP5 (2 x 100)	CMIP5 (8 x 1000)	CMIP5 (151)	Yes	Yes	?	Yes	No	144x90 x L40	288x180 x L32	GISS-E2.3	Unrestricted	NCSS	ESG-PCMDI	Doc
9	IPSL	France	CMIP5 (1000)	CMIP5 (500)	CMIP5 (200)	CMIP5	CMIP5	Yes	Yes	Yes	Yes	Yes	96x96 x L39	182x149 x L31	IPSL-CM5A-MR	Unrestricted	IPSL	ESG-BADC	Doc
10	ICHEC (KNMI)	Netherlands	PMIP3 (40)	PMIP3 (40)				No	Yes	No	No	No	320x160 x L82	362x292 x L42	EC-Earth-v2	Unrestricted	ICHEC	ESG-BADC	
11a	LASG-CESS	China	CMIP5 (900)	CMIP5 (100)	CMIP5 (100)		CMIP5		Yes	No	No		128x90 x L26		FGOALS-g2	Unrestricted	LASG	ESG-PCMDI	
11b	LASG-IAP		CMIP5 (501)	CMIP5 (100)		CMIP5	CMIP5	Yes	No	No	No		128x108 x L26	360x180 x L30	FGOALS-g2	Unrestricted	LASG	ESG-PCMDI	
11c			Completed			CMIP5				No	No		72x45 x L26		FGOALS-g1	Unrestricted	LASG	ESG-PCMDI	Doc
12	LOVECLIM	Belgium France Netherlands	Completed	Completed	Completed	Completed		No	No	Yes	Yes	No	32x64 x L3	122x65 x L20	LOVECLIM-v2	Unrestricted	IPSL	ESG-BADC	
13	MIROC	Japan	CMIP5 (531)	CMIP5 (100)	CMIP5 (100)	CMIP5	CMIP5	Yes	Yes	?	?	Yes	128x64 x L80	256x192 x L44	MIROC-ESM	Non-commercial only	DIAS	ESG-PCMDI	
14	MPI-M	Germany	CMIP5 (1156)	CMIP5 (2x100)	CMIP5 (2 x 100)	CMIP5	CMIP5	Yes	No	?	?	No	196x98 x L47	256x220 x L40	MPI-ESM-P	Unrestricted	DKRZ	ESG-WDCC	
15	MRI	Japan	CMIP5 (500)	CMIP5 (100)	CMIP5 (100)	Running September 2013	CMIP5	Yes	Yes	No	No	No	320x160 x L48	364x368 x L51	MRI-CGCM3	Non-commercial	DIAS	ESG-PCMDI	
16	NCAR	USA	CMIP5 (501)	CMIP5 (1x301 + 1x30)	CMIP5 (1x101 + 1x31)	CMIP5	CMIP5	Yes	Yes	No	No	No	288x192 x L26	320x384 x L60	CCSM4	Unrestricted	NCAR	ESG-NCAR	
17	OSUvic	USA	Completed	Completed (400)	Running May 2013		Starting April 2013	No	No	No	No	No	128x64 x L10	100 x 100 x L19	OSUvic-G3	Unrestricted	?	?	
18	CSIRO-QCCCE	Australia	CMIP5 (500)	CMIP5 (100)			CMIP5	Yes	No	No	No	No	192x96 x L18	192x192 x L31	CSIRO-Mk3.5.0	Non-commercial	NCI	ESG-NCI	
19a	MOHC (UK groups)	UK	CMIP5 (467)	CMIP5 (102)	Starting	Running Spring 2013	CMIP5	Yes	Yes	Yes	Yes	Yes	192x144 x L38	360x216 x L40	HadGEM2-ES	Unrestricted	BADC	ESG-BADC	Doc
19b			CMIP5 (240)	CMIP5 (35)				Yes	No	No	No	Yes	192x144 x L60	360x216 x L40	HadGEM2-CC	Unrestricted	BADC	ESG-BADC	
19c			PMIP3 (1200)			PMIP3	CMIP3	Yes	Yes	Yes	Yes	No	96x73 x L19	288x144 x L20	HadCM3	Unrestricted	BADC	ESG-BADC	
20	UNSW	Australia	PMIP3 (1000)	PMIP3 (500)	Running June 2012	PMIP3	PMIP3	No	Yes	Yes	Yes	No	64x56 x L18	128x112 x L21	CSIRO-Mk3.1-C	Non-commercial (DKRZ later?)	IPSL	ESG-BADC	Doc
21	UoTf	Canada	Completed	Completed	Completed	Completed	Completed	No	No	No	No	No	256x128 x L26	320x388 x L40	UoTf-CCS3	Unrestricted	?	?	

Click for up-to-date exp check: [piControl ?](#) [midHolocene ?](#) [lgm ?](#) [past1000 ?](#) [1pctCO2 ?](#)

Legend	Status expected completion date	Available in CMIP5 DB (nb ens X nb years in CMIP5 DB)	Available in CMIP3 DB (nb years in PMIP3 DB)
No			
Yes			

PMIP3 + PlioMIP groups: Note that the models used for PlioMIP are often not (exactly) the same as the ones used for PMIP3/CMIP5

PlioMIP-only (not in the table): LPAP, UoM

PMIP3 community
• 21 institutes
(25 models)

• pmip-announce list
600 registered
users

Note: models have
Terms of use
Unrestricted
Non-commercial

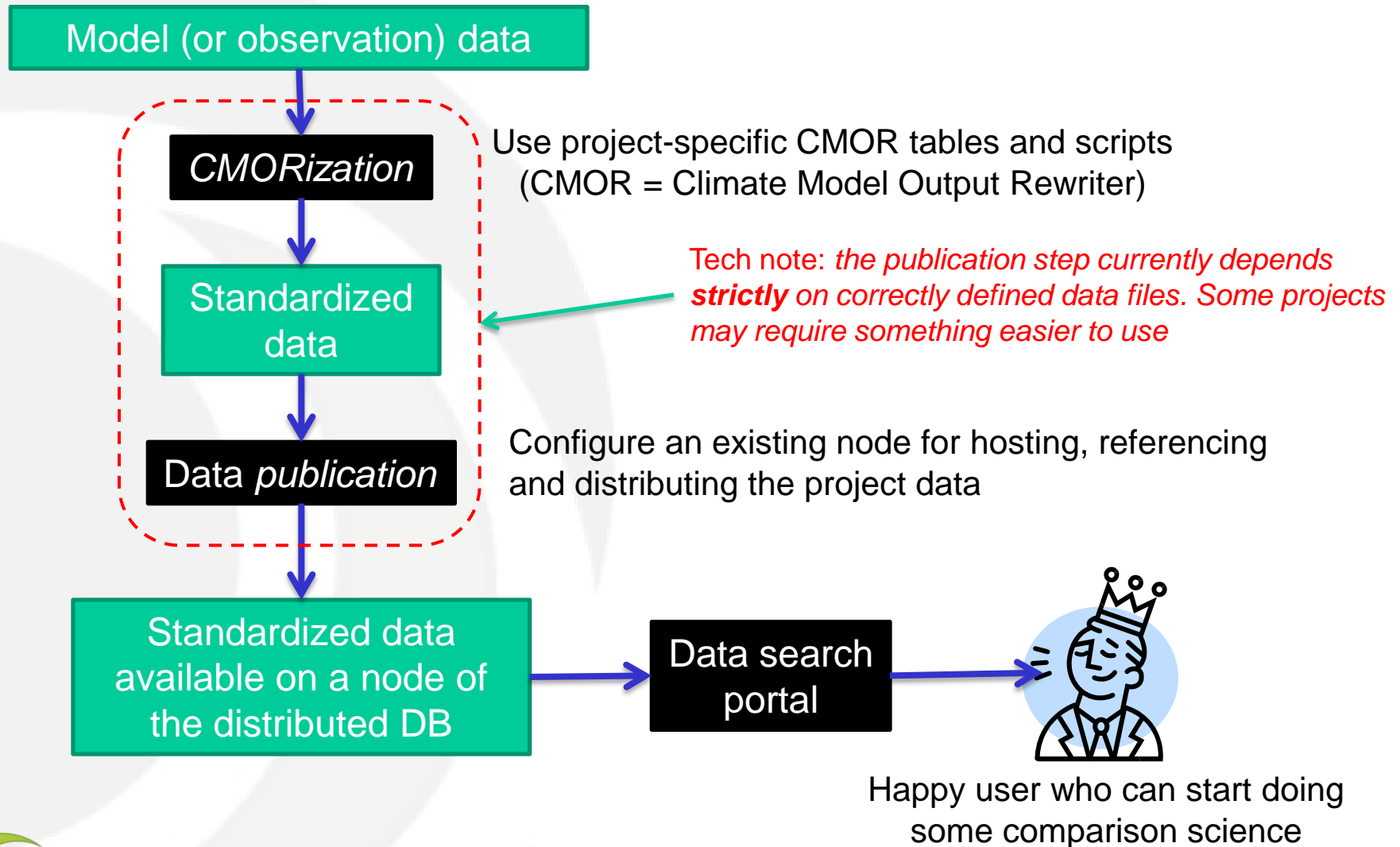


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Jean-Yves Peterschmitt - LSCE Theme 4 meeting – June 18th 2013



The data life cycle of distributed data (ultra brief overview)



Standard file names and path

Standardization document for a model intercomparison project:

→ the **DRS** (Data Reference Syntax) document

Using **CMOR library** + project specific CMOR **MIP tables** → you get:

- Standard file content

- CF-compliant metadata in the NetCDF file
- Standard variable names, axis names, ...

- Standard file names

<variable name>_<MIP table>_<model>_<experiment>_
<ensemble member>[_<temporal subset>].nc

with <temporal subset> = 'yyyy[mm[dd[hh][mm]]][-clim]'

- Eg. PMIP3/output/IPSL/IPSL-CM5A-LR/lgm/

monClim/atmos/Aclim/r1i1p1/v20120418/

tas/tas_Aclim_IPSL-CM5A-LR_lgm_r1i1p1_260101-280012-clim.nc



Using ESGF to download some data (at last!)

We are just a few steps away from doing some science!

- Find the name of the required variable(s)
- Use the portal to
 - Determine if the variable(s) are available
 - Create a *wget script* to download the variable(s)
- Create an ESGF account to download the data
- Execute the wget script on a Linux machine to download the data

There are other (non standard) ways to access the data...

- @IPSL: CMIP5 mirror on ciclad
- @IPSL: custom portals (for accessing the CMIP5 mirrored data)
 - <https://prodiguer.ipsl.fr/>
 - <http://ocmip5.ipsl.fr/FileFinderAR5/>
- Synchro-data (tool used for filling the IPSL CMIP5 mirror)
 - http://dods.ipsl.jussieu.fr/jriipsl/synchro_data/README
- ...



Variables requested for CMIP5 (and PMIP3)

- It's useful to know the standard name of the variable(s) you are looking for ☺
 - ... and the MIP table (CMOR table) where it is defined
- The available variables can be
 - project specific
 - similar to CMIP5

CMIP5(-like) variables defined in CMIP5 *Standard Output* document

http://cmip-pcmdi.llnl.gov/cmip5/output_req.html

Everything (names, units, axes, conventions, ...) is defined in the giant xls file



Most tabs of the file are associated with a CMOR table

fx → CMIP5_fx table ⇔ Time-Invariant Fields

Eg: *sftlf* → land_area_fraction, %, *atmos* realm

Omon ⇔ Monthly Mean Ocean Fields, Including Biogeochemical Fields

Eg: *tos* → sea_surface_temperature, K, *ocean* realm,
mon frequency



The ESGF P2P FE: Home page

<http://esgf-node.ipsl.fr/esgf-web-fe/>

Access to the
Search interface

Recommended
node for **IPSL**
users

Other P2P nodes

You should use the
one closest to your
current location !

**ESGF account
creation page**

An account created
on any ESGF node
will work on **all** the
nodes! ☺

No need for an
account for searching
the data, only for
downloading it

Help pages

The screenshot shows the ESGF P2P FE Home page. At the top, there is a navigation bar with links: Home, Search, Tools, Login, Help. The 'Search' link is circled in red. Below the navigation bar is a large world map. Below the map, it says 'Welcome to the ENES archive at IPSL'. There are three main sections: Peer Nodes, About IPSL, and Resources. The 'Peer Nodes' section lists various nodes, with the 'IPSL Node' highlighted. The 'Resources' section has a 'Quick Links' subsection with links like 'Create Account', 'MyProxyLogin', 'Expert Search (XML)', 'Wget Script Generator', 'ESGF aggregated RSS feed', and 'Contact ESGF'. The 'Instructions' subsection lists links like 'ESGF Full User Guide', 'Search Help', 'Search Controlled Vocabulary', 'Wget Scripts FAQ', 'Wget Scripting', 'Tutorial: Download Strategies', 'Using Globus Online', and 'Subscribing to RSS Notification'. The footer contains 'Guest User', 'ESGF P2P Version 1.5.0-browser_park-release-2-gfad439e-master [fe-2.4.1]', 'Privacy & Legal Notices', 'Contact ESGF', and 'ESGF.org'.



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The ESGF P2P FE: account creation page

The ESGF account:

- is only required for downloading data

No need for an account for checking the availability of data or searching!

- can be created on any P2P Front-End
- is active as soon as the request form is filled
- Is the same on the whole ESG Federation



The ESGF P2P FE: Search page

Current Search

Clear the previous search and Datacart before starting a new search

Unfold a category by clicking on it

Current Selections

No search criteria selected

Search Categories

Project

Institute

Model

Instrument

Experiment Family

Experiment

Time Frequency

Product

Realm

Variable

Variable Long Name

CMIP Table

CF Standard Name

Ensemble



Search

Examples: *temperature*, *"surface temperature"*, *climate AND project:CMIP5 AND variable:hur*.
To download data: add datasets to your Data Cart, then click on *Expand* or *wget*.

☒ Search All Sites ☐ Show All Replicas ☐ Show All Versions

Display 10 datasets per page

[Add All Displayed to Datacart](#)

[Remove All Displayed from Datacart](#)

Results

Data Cart

[Temporal Search](#)
[Geospatial Search](#)
[Clear search constraints and datacart](#)
[Search Help](#)
[Search Controlled Vocabulary](#)

Make sure that **all the ESGF DB** is searched, and only keep the **most recent version** of the data

Search categories (or facets)

The search results (datasets) and selected data will later be displayed in this area

Project

C20C (327)

CMIP5 (58561)

COUND (4)

CSSEF (615)

EUCLIPSE (157)

GeoMIP (682)

LUCID (255)

NEX (14)

PMIP3 (177)



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Finding which models have midHolocene data

Restrict the results by selecting the **Paleo** exps

Add the **midHolocene** filter

Unfold the **Model** facet to display the models that have midHolocene data

Current Selections	
(x) experiment family:Paleo	
Search Categories	
Project	
CMIP5 (442)	
PMIP3 (73)	
Institute	
Model	
Instrument	
Experiment Family	
Paleo (515)	
Experiment	
lgm (128)	
midHolocene (245)	
past1000 (142)	

Data is available for 2 projects !

Current Selections	
remove all	
(x) experiment family:Paleo	
(x) experiment:midHolocene	
Search Categories	
Project	
CMIP5 (196)	
PMIP3 (49)	
Institute	
Model	
Instrument	
Experiment Family	
Paleo (245)	
Experiment	
midHolocene (245)	

Model	
BCC-CSM1.1	(17)
CCSM4	(18)
CNRM-CM5	(19)
CSIRO-Mk3.6.0	(13)
CSIRO-Mk3L-1-2	(12)
EC-EARTH-2-2	(5)
FGOALS-g2	(19)
FGOALS-s2	(6)
GISS-E2-R	(9)
HadGEM2-CC	(17)
HadGEM2-ES	(15)
IPSL-CM5A-LR	(21)
KCM1-2-2	(22)
MIROC-ESM	(16)
MPI-ESM-P	(23)
MRI-CGCM3	(13)



Finding midHolocene surface temperature (*mon* freq)

Just keep sub-selecting new categories !

Search Categories

Project
Institute
Model
Instrument
Experiment Family
Paleo (17)
Experiment
midHolocene (17)
Time Frequency
mon (17)
Product
Realm
atmos (17)
Variable
tas (17)
Variable Long Name
CMIP Table
Amon (17)
CF Standard Name
Ensemble
r1i1p1 (15)
r1i1p2 (1)
r2i1p1 (1)

Current Selections

- [remove all](#)
- [\(x\) experiment family:Paleo](#)
- [\(x\) experiment:midHolocene](#)
- [\(x\) realm:atmos](#)
- [\(x\) variable:tas](#)
- [\(x\) time frequency:mon](#)

Click on (x) to **remove** a single category

Selecting *mon+atmos*
⇔ Selecting *Amon*

Some groups have submitted **ensemble runs** !
(default ensemble = *r1i1p1*)



The search results (datasets)

WARNING! Select a number of displayed datasets large enough to **display all the datasets**, check that the **datacart** is empty, then click on **Add All Displayed to Datacart**

Matching datasets are displayed in the Results tab

One of the datasets

Physical location and version of a dataset

Display the Documentation

< 1 2 > displaying 1 to 10 of 17 search results

Display 10 datasets per page

[Add All Displayed to Datacart](#) [Remove All Displayed from Datacart](#)

Results Data Cart

project=CMIP5 / IPCC Fifth Assessment Report, model=HadGEM2-CC, Met Office Hadley Centre, experiment=mid-Holocene, time_frequency=mon, modeling_realm=atmos, ensemble=r1i1p1, version=20120222

Data Node: cmip-dn1.badc.rl.ac.uk

Version: 20120222

Description: HadGEM2-CC model output prepared for CMIP5 mid-Holocene

Further options: [Add To Cart](#) [Model Documentation](#)

project=CMIP5 / IPCC Fifth Assessment Report, model=HadGEM2-ES, Met Office Hadley Centre, experiment=mid-Holocene, time_frequency=mon, modeling_realm=atmos, ensemble=r1i1p1, version=20120222

Data Node: cmip-dn1.badc.rl.ac.uk

Version: 20120222

Description: HadGEM2-ES model output prepared for CMIP5 mid-Holocene

Further options: [Add To Cart](#) [Model Documentation](#)

project=PMIP3 / IPCC Fifth Assessment Report, model=KNMI, Royal Netherlands Meteorological Institute, experiment=mid-Holocene, time_frequency=mon, modeling_realm=atmos, ensemble=r1i1p1, version=20120222

Data Node: knmi-dn1.badc.rl.ac.uk

Version: 20120222

Description: KNMI model output prepared for PMIP3 mid-Holocene

Further options: [Add To Cart](#) [Model Documentation](#)



The datacart (filled with full datasets)

Datacart
view

Good! All the results were
displayed in the Results tab

When you
need to clear
the datacart...

The screenshot shows the 'Data Cart' tab in a web application. At the top, it says '< 1 > displaying 1 to 17 of 17 search results'. Below this is a 'Display' dropdown set to '25' with the text 'datasets per page'. There are two links: 'Add All Displayed to Datacart' and 'Remove All Displayed from Datacart'. The 'Data Cart' tab is selected, and the 'Show all' radio button is chosen. To the right, there are links for 'Globus Online All Selected', 'WGET All Selected', and 'Remove All'. The main area lists three datasets, each with a checkbox, a title, a source, and a file count. The first dataset is 'cmip5.output1.MOHC.HadGEM2-CC.midHolocene.mon.atmos.Amon.r1i1p1.v20120222|cmip-dn1.badc.rl.ac.uk' with 94 files. The second is 'cmip5.output1.MOHC.HadGEM2-ES.midHolocene.mon.atmos.Amon.r1i1p1.v20120222|cmip-dn1.badc.rl.ac.uk' with 235 files. The third is 'pmip3.output.ICHEC.EC-EARTH-2-2.midHolocene.mon.atmos.Amon.r1i1p1.v20121120|esg2.e-inis.ie' with 16 files. Each dataset has links for 'Show Files', 'WGET', 'SRM', and 'Remove'.

< 1 > displaying 1 to 17 of 17 search results

Display 25 datasets per page

[Add All Displayed to Datacart](#) [Remove All Displayed from Datacart](#)

Results Data Cart

☒ Show all ☐ Filter over text

[Globus Online All Selected](#) [WGET All Selected](#) [Remove All](#)

☒ cmip5.output1.MOHC.HadGEM2-CC.midHolocene.mon.atmos.Amon.r1i1p1.v20120222|cmip-dn1.badc.rl.ac.uk
(Total Number of Files for All Variables: 94)

☒ cmip5.output1.MOHC.HadGEM2-ES.midHolocene.mon.atmos.Amon.r1i1p1.v20120222|cmip-dn1.badc.rl.ac.uk
(Total Number of Files for All Variables: 235)

☒ pmip3.output.ICHEC.EC-EARTH-2-2.midHolocene.mon.atmos.Amon.r1i1p1.v20121120|esg2.e-inis.ie
(Total Number of Files for All Variables: 16)

[Show Files](#) | [WGET](#) | [SRM](#) | [Remove](#)

[Show Files](#) | [WGET](#) | [SRM](#) | [Remove](#)

[Show Files](#) | [WGET](#) | [SRM](#) | [Remove](#)

We are not yet
ready to use
this

Warning! By default, **ALL** the files of the datasets are selected, not just the **tas** variable we are looking for...



The *filtered* datacart

- 1) Type **tas** in the text field, and click Search
→ This creates an extra **query:tas** field

Current Selections

- [remove all](#)
- [\(x\) experiment.family:Paleo](#)
- [\(x\) experiment.midHolocene](#)
- [\(x\) realm:atmos](#)
- [\(x\) variable:tas](#)
- [\(x\) time.frequency:mon](#)
- [\(x\) query:tas](#)

Search

Examples: *temperature*, *"surface temperature"*, *climate AND project:CMIP5 AND variable:hur*.
To download data: add datasets to your Data Cart, then click on *Expand* or *wget*.

☒ Search All Sites ☐ Show All Replicas ☐ Show All Versions

< 1 > displaying 1 to 17 of 17 search results

Display datasets per page

[Add All Displayed to Datacart](#) [Remove All Displayed from Datacart](#)

- 2) Select **Filter over text**

Search Categories

- Project
- Institute
- Model
- Instrument
- Experiment Family
- Experiment
- Time Frequency

Results Data Cart

☐ Show all ☒ Filter over text

[Globus Online All Selected](#) [WGET All Selected](#)

[Show Files WGET !](#)

Opening wget-20130618134014.sh

You have chosen to open:

wget-20130618134014.sh
which is a: sh File (50,1 KB)
from: http://esgf-node.lpsl.fr

What should Firefox do with this file?

☐ Open with

☒ Save File

☐ Do this automatically for files like this from now on.

OK Cancel

- 3) Generate and save the **wget script**



The ESGF wget script

- The wget script generated from a filtered datacart
 - Can be executed to download the selected variable
 - Will check the integrity of the downloaded files
 - Can be run again to resume a failed file transfer
 - Has lots of options (security, etc...): **wget-<date>.sh -h**
- Using the script
 - Save the script in a new directory, because all the files will be downloaded in the same directory (no subdirs created)
 - Edit the script and check the content of the *download_files* var
 - `chmod +x wget-<date>.sh`
`./ wget-<date>.sh`
 - WARNING! The script requires an ESGF account
Eg **`https://ipcc-ar5.dkrz.de/myopenid/jypmip`**



Download the data and start working ☺

```
jypeter@asterix2 - ...P2P_demo - 50 >./wget-20130618134014.sh
Running wget-20130618134014.sh version: 1.3.2
Use wget-20130618134014.sh -h for help.

There were files with the same name which were requested to be download to the same directory. To avoid overwriting the previous downloaded one they were skipped.
Please use the parameter 'download_structure' to set up unique directories for them.
Script created for 96 file(s)
(The count won't match if you manually edit this file!)

OpenSSL 1.0.0-fips 29 Mar 2010
** WARNING: ESGF Host certificate checking might not be compatible with OpenSSL 1.0+
The certificate expires in less than 8 hour(s). Renewing...
Please give your OpenID (hit ENTER to accept default: https://ipcc-ar5.dkrz.de/myopenid/jypmip)?
MyProxy Password?
Retrieving Credentials...done!
tas_Amon_CCSM4_midHolocene_r1i1p1_100001-130012.nc ...Downloading
--2013-06-18 14:13:29-- http://tds.ucar.edu/thredds/fileServer/datazone/cmip5_data/cmip5/output1/NCAR/CCSM4/midHolocene/mon/atmos/Amon/r1i1p1/v20120604/tas/tas_Amon_CCSM4_midHolocene_r1i1p1_100001-130012.nc
Resolving tds.ucar.edu... 128.117.181.47
Connecting to tds.ucar.edu|128.117.181.47|:80... connected.
HTTP request sent, awaiting response... 302 Moved Temporarily
Location: https://tds.ucar.edu/OpenidRelyingParty/home.htm?redirect=http%3A%2F%2Ftds.ucar.edu%2Fthredds%2FfileServer%2Fdatazone%2Fcmip5_data%2Fcmip5%2Foutput1%2FNCAR%2FCCSM4%2FmidHolocene%2Fmon%2Fatmos%2FAmon%2Fr1i1p1%2Fv20120604%2Ftas%2Ftas_Amon_CCSM4_midHolocene_r1i1p1_100001-130012.nc [following]
--2013-06-18 14:13:30-- https://tds.ucar.edu/OpenidRelyingParty/home.htm?redirect=http%3A%2F%2Ftds.ucar.edu%2Fthredds%2FfileServer%2Fdatazone%2Fcmip5_data%2Fcmip5%2Foutput1%2FNCAR%2FCCSM4%2FmidHolocene%2Fmon%2FAmon%2Fr1i1p1%2Fv20120604%2Ftas%2Ftas_Amon_CCSM4_midHolocene_r1i1p1_100001-130012.nc
Connecting to tds.ucar.edu|128.117.181.47|:443... connected.
HTTP request sent, awaiting response... 302 Moved Temporarily
Location: http://tds.ucar.edu/thredds/fileServer/datazone/cmip5_data/cmip5/output1/NCAR/CCSM4/midHolocene/mon/atmos/Amon/r1i1p1/v20120604/tas/tas_Amon_CCSM4_midHolocene_r1i1p1_100001-130012.nc [following]
--2013-06-18 14:13:31-- http://tds.ucar.edu/thredds/fileServer/datazone/cmip5_data/cmip5/output1/NCAR/CCSM4/midHolocene/mon/atmos/Amon/r1i1p1/v20120604/tas/tas_Amon_CCSM4_midHolocene_r1i1p1_100001-130012.nc
Connecting to tds.ucar.edu|128.117.181.47|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 799025508 (762M) [application/x-netcdf]
Saving to: "tas_Amon_CCSM4_midHolocene_r1i1p1_100001-130012.nc"

0% [ ] 17,143 58.9K/s
```

