

Inca How To
27 février 2013

Post-treatment

- At the end of each simulation launch with libIGCM you can create several post-treatment
 - Time Series
 - Seasonal Average
 - Monitoring

But what do you mean by a time serie ?

- Model Output

- Many variables are stored in a same file covering a model period, often one month.

For exemple MyJob_20010101_20010131_histmth.nc

- Time Series

- One variable per file over the many time periods, if possible the whole simulation lenght.

For exemple MyJob_20010101_21051231_1M_evap.nc

Output in COMP Directory

[OutputFiles]

```
List=(inca_avgr.nc, ${R_OUT_CHM_O_M}/${PREFIX}_1M_inca_avgr.nc, Post_1M_inca_avgr),\  
      (forcage.nc,  ${R_OUT_CHM_O_M}/${PREFIX}_1M_forcage.nc  , NONE)
```

Syntaxe :

List= (output file, file name on archive, post-treatment)

[Post_1M_inca_avgr]

Patches= ()

GatherWithInternal = (lon, lat, presnivs, time_counter)

TimeSeriesVars2D = (OD550_ASBCM, OD550_ASPOMM, OD550 ASSO4M,
OD550_CSSO4M, OD550_SSSSM, OD550_ASSSM, OD550_CSSSM, OD550_CIDUSTM,
OD550_AIBCM, OD550_AIPOMM)

ChunckJob2D = NONE

TimeSeriesVars3D = (CH4,NO,NO2,CO,O3,HNO3)

ChunckJob3D = NONE

Output in COMP directory

- **GatherWithInternal** : list of variables to be added in each time serie file
- **TimeSeriesVars2D/3D** : list of variables to create time series
- **ChunckJob2D/3D** =
 - NONE : One time serie for the whole simulation
 - ***Y (10Y, 50Y etc...) : Time serie file by period of *** years (10 years, 50 years, etc...)

How launch TimeSeries ?

In config.card

[Post]

#D- Do we rebuild parallel output, this flag determines

#D- frequency of rebuild submission

RebuildFrequency=1Y

#D- Do we rebuild parallel output from archive

RebuildFromArchive=NONE

#D- If you want to produce time series, this flag determines

#D- frequency of post-processing submission

TimeSeriesFrequency=~~NONE~~ → 10Y

#D- If you want to produce seasonal average, this flag determines

#D- the period of this average

SeasonalFrequency=NONE

#D-

PackFrequency=1Y

How to launch Time Series

- If you ask for TimeSeriesFrequency : the time series will be create in parallel of your simulation.
- If you didn't ask for TimeSeriesFrequency : you can launch all the timeSeries after the simulation with TimeSeries_Checker.job

```
cp modips1/libIGCM/TimeSeries_Checker.job  
    modips1/config/LMDZORINCA/MyEXP/.  
./TimeSeries_Checker.job
```

How to create a TimeSeries from zero

For exemple after your simulation you want a timeSeries for OD443_ASSO4M in inca_avgr.nc :

- Modify inca.card to add OD443_ASSO4M in post-treatment

```
TimeSeriesVars2D = (OD443_ASSO4M)
```

- Ask for TimeSeriesFrequency in your config.card
- Copy TimeSeries_Checker.job and launch it

Monitoring

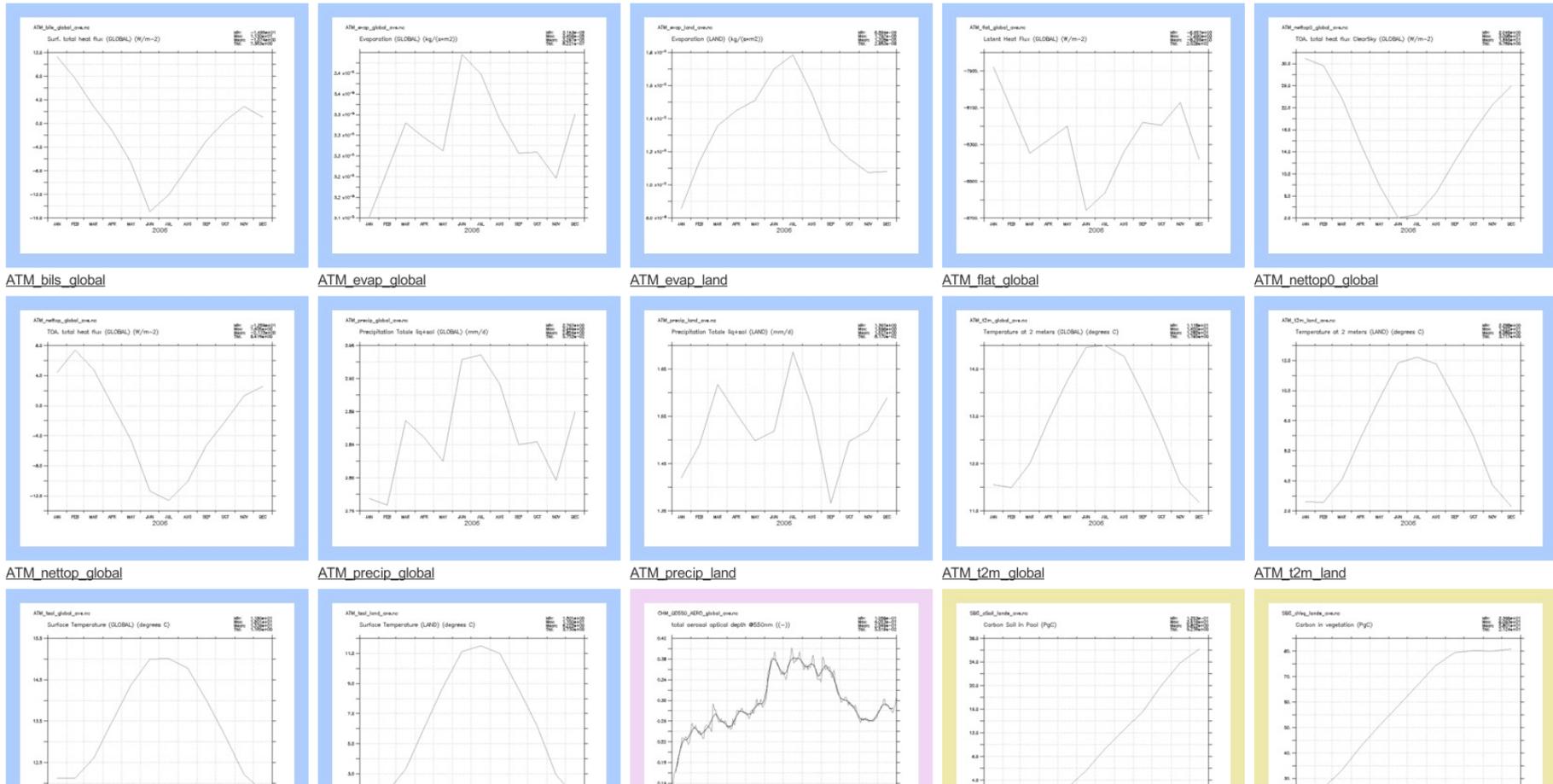
dods.extra.cea.fr/work/p86cozic/LMDZORINCA/AER/PROD/CURIE/L5O4run.G2/MONITORING/

Red Hat Mailing lists ser... TGCC - Actualit... Index of/work Google www-saclay.ce... _extraweb_a... Calcul centralisé Share on Poste... Pin It PageAccueil - ... IGCMG Web Se... IGCMG/Outils/f... Autres favoris

Cards Analysis Monitoring Board About

ALL Filter : Images :

ATM CHM ICE MBG OCE SBG SRF **XOR** CLR
 land ocean north south global forcing



Monitoring

- If you create TimeSeries, it will create automatically monitoring. It's the variable average for each time step
- You can see them on web :
 - <http://dods.extra.cea.fr/work/>

Index of /work

Name	Last modified	Size	Description
Parent Directory		-	
DODS_MONIT/	21-Feb-2013 23:46	-	
MONIT_DIR/	25-Feb-2013 08:34	-	
abdelaz/	03-Feb-2012 22:06	-	
aidel/	03-Feb-2012 22:06	-	
bekki/	03-Feb-2012 22:06	-	
clevy/	08-Feb-2012 01:13	-	
dcugnet/	03-Feb-2012 22:06	-	
dufresne/	19-Nov-2012 23:36	-	
fcodron/	03-Feb-2012 22:06	-	
flavoni/	03-Feb-2012 22:06	-	
labetoul/	28-Jan-2013 16:59	-	
lemaire/	03-Feb-2012 22:06	-	
marchand/	03-Feb-2012 22:06	-	
-----	03-Feb-2012 22:06	-	

If your login doesn't appear, ask to the hotline to add it

Inter Monitoring

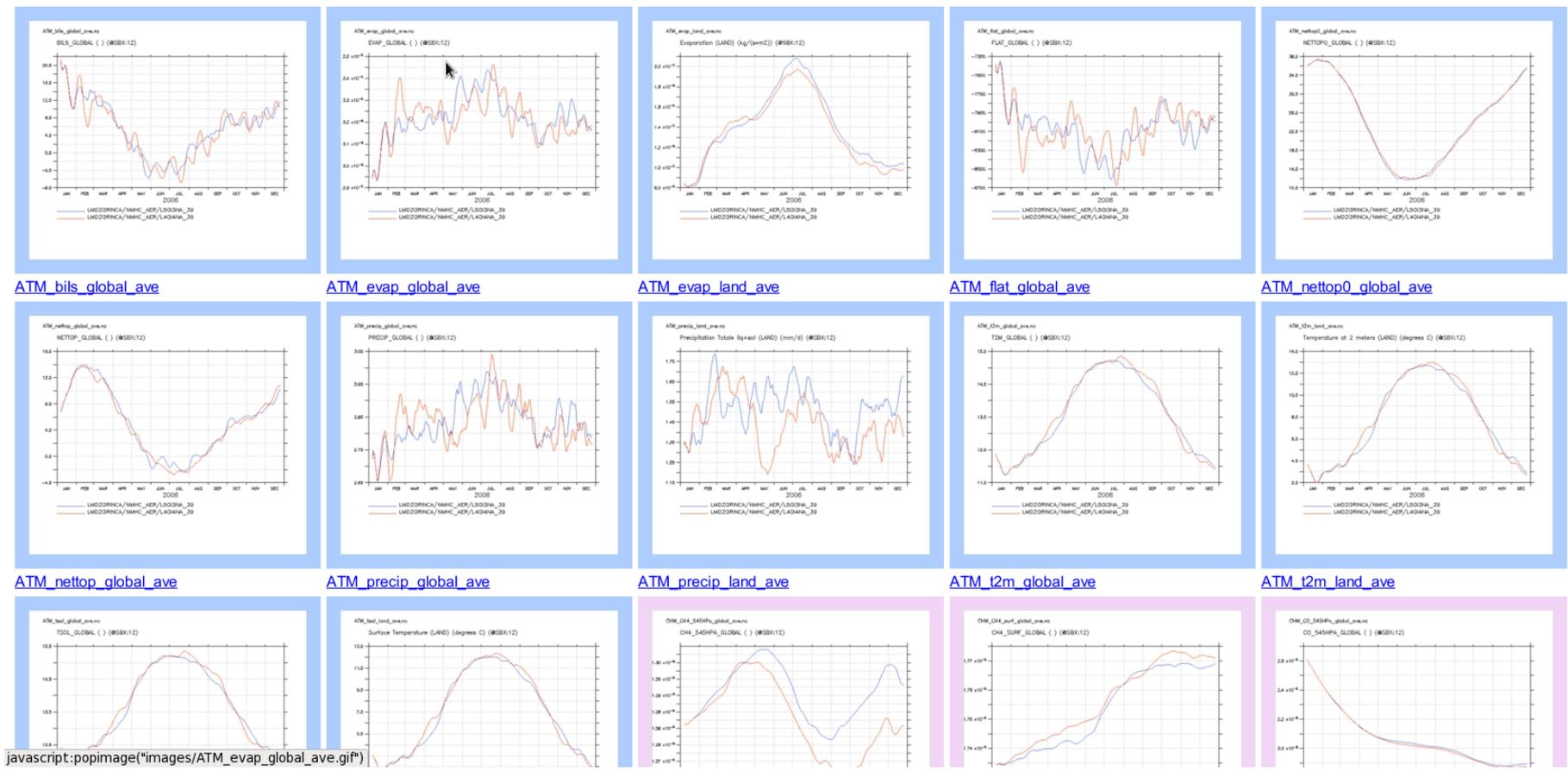
Monitoring comparison: L5O13NA_39 vs L4O14NA_39

at 2013-02-26 11:44:08

<http://webservices.ipsl.jussieu.fr/monitoring/>

ALL Filter : .* Images : 038 / 038

- ATM
 - CHM
 - ICE
 - MBG
 - OCE
 - SBG
 - SRF
 - XOR**
 - CLR
- land ocean north south global forcing



javascript:popimage("images/ATM_evap_global_ave.gif")

Tutorial for Inter Monitoring



Welcome to the ICMC Web Applications portal

Applications

-  [Migration Monitoring Board](#)
-  [Trusting Web Application](#)
-  [Machine Load Status](#)
-  [Inter Monitoring Web Application](#)
-  [Meta Atlas Web Application](#)
-  [Metrics Web Application](#)

News

- 2012-09-19 : Migration Monitoring Board activated 
- 2010-09-20 : Web Applications are now hosted at IPSL
- 2010-04-06 : Trusting Web Application started
- 2010-03-16 : [Thème Modélisation presentation](#)
- 2010-03-01 : Screencast tutorials announcement
<http://wiki.ipsl.jussieu.fr/IGCMG/Outils/WebApplications>
- 2009-10-04 : Machine Load Status started
- 2009-09-22 : Metrics Web Application added
- 2009-09-17 : Meta Atlas Web Application added
- 2009-04-09 : Discover the IPSL ESM with Google Earth



Where can you find all these files ?

- TimeSeries are stored on

`$STOREDIR/IGCM_OUT/LMDZORINCA/JobName/Componant/Analyse/TS_MO`

- Monitoring picture are stored on

`$CCCWORKDIR/IGCM_OUT/LMDZORINCA/JobName/MONITORING`