

VARAMMA manuals

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```

varamma_profile.sh

NAME

varamma_profile.sh - define VARAMMA environnement

SYNOPSIS

Online usage

```
$ . ./varamma_profile.sh -d directory -i indir -o outdir -t tempdir
```

In \${HOME}/.profile, add the following line

```
. varamma_profile.sh -d directory -i indir -o outdir -t tempdir
```

DESCRIPTION

define VARAMMA environnement

`\${VARAMMA}` is the base directory of tools.

`\${VARAMMA_LOG}` is the directory where log files will be written.

`\${VARAMMA_ID}` is the directory where input files must be.

`\${VARAMMA_OD}` is the directory where output files will be written.

MANPATH++

EXAMPLES

For fplod, on aedon.locean-ipsl.upmc.fr:

```
$ cd /usr/home/fplod/incas/varamma/varamma_ws/src/
$ . ./varamma_profile.sh \
-d $(pwd) \
-i /usr/temp/${LOGNAME}/varamma_d/ \
-o /usr/temp/${LOGNAME}/varamma_d/ \
-t /usr/temp/${LOGNAME}/log/
```

For fplod on zeus.locean-ipsl.umpc.fr:

```
$ cd ${HOME}/incas/varamma/varamma_ws/src/
$ . ./varamma_profile.sh \
-d $(pwd) \
-i /usr/temp/${LOGNAME}/varamma_d/ \
-o /usr/temp/${LOGNAME}/varamma_d/ \
-t /usr/temp/${LOGNAME}/log/
```

FILES

original location

/usr/home/fplod/incas/varamma/varamma_ws/src/varamma_profile.sh sur aedon.locean-ipsl.upmc.fr

EVOLUTIONS

- ++ option bavarde
 - ++ machine dependant
 - ++ besoin de posix
 - ++ pas de MANPATH defini par défaut sur zeus
 - ++ climserv
- \$Id: varamma_profile.sh 8 2008-12-23 16:13:30Z pinsard \$
- fplod 2008-08-14T12:28:16Z aedon.locean-ipsl.upmc.fr (Darwin)
 - move all *.sh and *.pro files to src/
- fplod 2008-07-21T10:58:47Z aedon.locean-ipsl.upmc.fr (Darwin)
 - creation

dlogd.sh

NAME

dlogd.sh - prompt for destruction of the most recent release of \${VARAMMA_LOG}/action.log.YYYY-MM-DDTHH:MM:SSZ

SYNOPSIS

```
$ dlogd.sh action
```

DESCRIPTION

dlogd.sh prompt for destruction of the most recent release of \${VARAMMA_LOG}/action.log.YYYY-MM-DDTHH:MM:SSZ.

SEE ALSO

[varamma_profile.sh](#)

[elogd.sh](#)

[plogd.sh](#)

[tlogd.sh](#)

FILES

original location

/usr/home/fplod/incas/varamma/varamma_ws/src/dlogd.sh sur aedon.locean-ipsl.upmc.fr

EVOLUTIONS

\$Id: dlogd.sh 2 2008-12-18 16:56:52Z pinsard \$

- fplod 2008-11-26T11:26:40Z aedon.locean-ipsl.upmc.fr (Darwin)
 - creation

elogd.sh

NAME

elogd.sh - edit the most recent \${VARAMMA_LOG}/action.log.YYYY-MM-DDTHH:MM:SSZ

SYNOPSIS

```
$ elogd.sh action
```

DESCRIPTION

elogd.sh launch \${EDITOR} on the most recent release of \${VARAMMA_LOG}/action.log.YYYY-MM-DDTHH:MM:SSZ.

SEE ALSO

[varamma_profile.sh](#)

[dlogd.sh](#)

[plogd.sh](#)

[tlogd.sh](#)

FILES

original location

/usr/home/fplod/incas/varamma/varamma_ws/src/elogd.sh sur aedon.locean-ipsl.upmc.fr

EVOLUTIONS

\$Id: elogd.sh 2 2008-12-18 16:56:52Z pinsard \$

- fplod 2008-11-26T11:26:40Z aedon.locean-ipsl.upmc.fr (Darwin)
 - creation

plogd.sh

NAME

plogd.sh - prints the most recent release of \${VARAMMA_LOG}/action.log.YYYY-MM-DDTHH:MM:SSZ

SYNOPSIS

```
$ plogd.sh action
```

DESCRIPTION

plogd.sh prints the most recent release of \${VARAMMA_LOG}/action.log.YYYY-MM-DDTHH:MM:SSZ.

It uses a2ps application.

Print is one on the default printer.

SEE ALSO

[varamma_profile.sh](#)

[dlogd.sh](#)

[elogd.sh](#)

[tlogd.sh](#)

FILES

original location

/usr/home/fplod/incas/varamma/varamma_ws/src/plogd.sh sur aedon.locean-ipsl.upmc.fr

EVOLUTIONS

\$Id: plogd.sh 2 2008-12-18 16:56:52Z pinsard \$

- fplod 2008-11-26T11:26:40Z aedon.locean-ipsl.upmc.fr (Darwin)
 - creation

tlogd.sh

NAME

tlogd.sh - shows the most recent release of \${VARAMMA_LOG}/<action>.log.YYYY-MM-DDTHH:MM:SSZ

SYNOPSIS

```
$ tlogd.sh action
```

DESCRIPTION

tlogd.sh shows the most recent release of \${VARAMMA_LOG}/action.log.YYYY-MM-DDTHH:MM:SSZ.

SEE ALSO

[varamma_profile.sh](#)

[dlogd.sh](#)

[elogd.sh](#)

[plogd.sh](#)

FILES

original location

/usr/home/fplod/incas/varamma/varamma_ws/src/tlogd.sh sur aedon.locean-ipsl.upmc.fr

EVOLUTIONS

\$Id: tlogd.sh 2 2008-12-18 16:56:52Z pinsard \$

- fplod 2008-11-26T11:26:40Z aedon.locean-ipsl.upmc.fr (Darwin)
 - creation

cat_clim_ecmwf.sh

NAME

cat_clim_ecmwf.sh - build ECMWF climatology file

SYNOPSIS

`cat_clim_ecmwf.sh`

DESCRIPTION

Build ECMWF climatology file of relative humidity ++using mean daily file by year and reduce geographical domain ++to [60 ° W, 50 ° E] [30 ° S, 45 ° N].

EXAMPLES

To build ECMWF climatology :

```
$ cat_clim_ecmwf.sh
```

FILES

original location

/usr/home/fplod/incas/varamma/varamma_ws/src/cat_clim_ecmwf.sh sur aedon.locean-ipsl.upmc.fr

COMMENTS

If yearmin and yearmax are the same one can compare input and output files like this:

For yearmin=yearmax=2000

```
$ cdo diffv ${VARAMMA_ID}/++_ng.nc \
    ${VARAMMA_OD}/ecmwf.day.mean_climato_ng.nc
```

There must be a difference because 2000 is a leap year.

For yearmin=yearmax=2001

```
$ cdo diffv ${VARAMMA_ID}/ecmwf.day.mean_2001_ng.nc \
    ${VARAMMA_OD}/ecmwf.day.mean_climato_ng.nc
```

There must be no difference on values of ecmwf and info fields ++ à vérifier

SEE ALSO

EVOLUTIONS

```
++ unset
++ option debug/verbose
++ gestion log
++ vérification accès filein
++ pb levels operationel vs reanalyse
++ 29 février
$Id: cat_clim_ecmwf.sh 8 2008-12-23 16:13:30Z pinsard $
```

- fplod 2008-11-20T09:36:58Z aedon.locean-ipsl.upmc.fr (Darwin)
 - creation from /omedata/eymard/scripts/script_cat_clim_ECMWF3d

cat_clim_olr.sh

NAME

cat_clim_olr.sh - build OLR climatology file

SYNOPSIS

`cat_clim_olr.sh`

DESCRIPTION

Build OLR climatology file using mean daily file by year and reduce geographical domain to [60 ° W, 50 ° E] [30 ° S, 45 ° N].

EXAMPLES

To build OLR climatology :

```
$ cat_clim_olr.sh
```

FILES

original location

/usr/home/fplod/incas/varamma/varamma_ws/src/cat_clim_olr.sh sur aedon.locean-ipsl.upmc.fr

COMMENTS

If yearmin and yearmax are the same one can compare input and output files like this:

For yearmin=yearmax=2000

```
$ cdo diffv ${VARAMMA_ID}/olr.day.mean_2000_ng.nc \
${VARAMMA_OD}/olr.day.mean_climato_ng.nc
```

There must be a difference because 2000 is a leap year.

For yearmin=yearmax=2001

```
$ cdo diffv ${VARAMMA_ID}/olr.day.mean_2001_ng.nc \
${VARAMMA_OD}/olr.day.mean_climato_ng.nc
```

There must be no difference on values of olr and info fields ++ à vérifier

SEE ALSO

EVOLUTIONS

```
++ unset
    ++ option debug/verbose
    ++ gestion log
    ++ vérification accès filein
!! pb zeus et dedale signalé à reseau le 200807
$Id: cat_clim_olr.sh 2 2008-12-18 16:56:52Z pinsard $
```

- fplod 2008-08-05T09:37:14Z aedon.locean-ipsl.upmc.fr (Darwin)
 - creation from /omedata/eymard/scripts/script_cat_clim_AMSU

is_leap_year.sh

NAME

is_leap_year.sh - tell if year is leap

SYNOPSIS

`is_leap_year.sh [yyyy]`

DESCRIPTION

Tell if year is leap by exit status.

If no argument is given, current year will be used.

EXAMPLES

Is 2000 leap ?

```
$ is_leap_year.sh 2000
$ echo ${?}
0
```

Is 2001 leap ?

```
$ is_leap_year.sh 2001
$ echo ${?}
1
```

FILES

original location

/usr/home/fplod/incas/varamma/varamma_ws/is_leap_year.sh sur aedon.locean-ipsl.upmc.fr

EVOLUTIONS

\$Id: is_leap_year.sh 2 2008-12-18 16:56:52Z pinsard \$

- fplod 2008-08-05T13:21:05Z aedon.locean-ipsl.upmc.fr (Darwin)
 - creation from <http://cfaj.freeshell.org/shell/tuesday-tips/#tt-2004-06-08>

olr_split.sh

NAME

olr_split.sh - split OLR mean daily file

SYNOPSIS

```
olr_split.sh [-g] [-r] [-f] [-y year]
```

DESCRIPTION

Split OLR mean daily file by year and reduce geographical domain to [60 ° W, 50 ° E] [30 ° S, 45 ° N].

If **-g** option is set, there will be no geographical domain reduction.

If **-f** option is set, previously output files will be overwritten.

If **-r** option is set, output files will be concatenated in one (might be usefull, combined with **-g** option to check).

If **-y** option is set with a year, only this year will be splitted.

EXAMPLES

To split \${VARAMMA_ID}/olr.day.mean.nc between [2000,2007] and between [60 ° W, 50 ° E] [30 ° S, 45 ° N]

```
$ olr_split.sh
```

To split \${VARAMMA_ID}/olr.day.mean.nc in 2006 between [60 ° W, 50 ° E] [30 ° S, 45 ° N]

```
$ olr_split.sh -y 2006
```

To split globally and build a recomposed file

```
$ olr_split.sh -g -r
```

one might compare original and rebuild file

```
$ cdo diffv ${VARAMMA_ID}/olr.day.mean.nc ${VARAMMA_OD}/olr.day.mean_rebuild.nc
```

diff should only show differences in global attributes

CAUTIONS

Doesn't work on zeus because of UDUnits library problems

++++ GROS DOUTE SUR LES LONGITUDES DANS CES FICHIERS ++++++

FILES

original location

/usr/home/fplod/incas/varamma/varamma_ws/olr_split.sh sur aedon.locean-ipsl.upmc.fr

TODO

```
++ unset
++ option debug/verbose
++ gestion log
++ vérification accès filein
++ found none interactive actionof ncks if output file exists
```

EVOLUTIONS

\$Id: olr_split.sh 2 2008-12-18 16:56:52Z pinsard \$

- fplod 2008-08-14T14:53:04Z aedon.locean-ipsl.upmc.fr (Darwin)
 - modify West longitude conversion according to <http://en.wikipedia.org/wiki/Longitude>
- fplod 2008-08-13T14:26:41Z aedon.locean-ipsl.upmc.fr (Darwin)
 - add -f option
 - add -y option
 - add 180 degré to longitude centered on meridien 0 (<0 =W , >0=E)
- fplod 2008-07-24T15:02:12Z aedon.locean-ipsl.upmc.fr (Darwin)
 - creation

paper01_pre.sh

NAME

paper01_pre.sh - data prerequisite for paper #1

SYNOPSIS

`paper01_pre.sh`

DESCRIPTION

Put in \${VARAMMA_ID} all the data files necessary to plot all the figures for paper1.

TODO

++ les fichiers de climato sont produits à partir des fichiers de référence donc il faudrait plutôt lancer clim++ avant ou dedans

++ quels sont les fichiers de références AMSU

++ quels sont les fichiers de références ECMWF

++ comment ça marche sur climserv

CAUTIONS

Doesn't work on zeus because of UDUnits library problems

SEE ALSO

[varamma_profile.sh](#)

[olr_split.sh](#)

FILES

/usr/home/fplod/incas/varamma/varamma_ws/paper01_pre.sh sur aedon.locean-ipsl.upmc.fr

EVOLUTIONS

- fplod 2008-08-13T12:27:41Z aedon.locean-ipsl.upmc.fr (Darwin)
 - add OLR reference file and yearly-afratl files production
- fplod 2008-08-12T13:55:32Z aedon.locean-ipsl.upmc.fr (Darwin)
 - creation. not finish

forout.pro

returns a file name writable in \${VARAMMA_OD}

Categories: outputs

Uses: report_

Params: name : *in, required, type=string*

basename of the file to create in \${VARAMMA_OD}/

Keywords: OVERWRITE : *default=false*

to overwrite the output image file if exists.

Returns: filename (dirname and basename) or -1 if error

Restrictions:

- Requires SAXO

Pre: varamma_profile.sh

Post: varamma_profile.sh

To prepare the production of \${VARAMMA_OD}/figure08.png:

```
Examples: IDL> fullfilename_out=forout('figure08.png',/OVERWRITE)
IDL> print, fullfilename_out
/usr/temp/fplod/varamma_d/figure08.png
```

If asked an other time without /OVERWRITE, the file is not anymore writable

```
IDL> fullfilename_out=forout('figure08.png')
IDL> print, fullfilename_out
-1
```

History:

- fplod 2008-08-12T15:26:26Z aedon.locean-ipsl.upmc.fr (Darwin)
 - creation from hovmuller_latitude.pro

hovmuller.pro

plot hovmuller

Categories: PNG hovmuller AMSU OLR

Params: dataset : *in, required, type='string'*

dataset to plot

canal : *in, optional, type='string'*

canal of AMSU

only used if AMSU dataset

iyear : *in, required, type='integer'*

year

Keywords: DATASETTYPE : *default='for AMSU ++, for OLR ++'*

dataset type name. For each dataset, there are several file type (year vs total, global vs regional). ++

AXE : *default='latitude'*

geographical axe to be use for hovmuller can be either 'latitude' or 'longitude'

UBOX : *type='1D array of 4 items'*

latitudes and longitudes of the box in this order : ulon1 ulon2 ulat1
ulat2

OVERWRITE : *default=false*

to overwrite the output image file if exists.

Useless if NOSAVE is set.

NOSAVE : *default=false*

to NOT save the output image in a file

might be usefull if several plots are needed on the same figure.

file if exist might be overwritten if OVERWRITE is set to 1.

EXTRA :

Used to declare that this routine accepts inherited keywords

see example with SMALL keyword

Restrictions:

- Requires SAXO

Exports: pltt_

cm_4cal_

forout.pro

Pre: varamma_profile.sh

for AMSU dataset be sure to have *cx.anyyyy.nc* in the directory defined in *\${VARAMMA_ID} /*

for OLR dataset be sure to have *olr.day.mean_yyyy_ng.nc* in the directory defined in *\${VARAMMA_ID} /*

Post: [varamma_profile.sh](#)

Todo:

- ++ check ubox (lat and lon) validity
- find from where come this error
- % Type conversion error: Unable to convert given STRING to Long.
- ++ parametrisation date début date fin
- ++ exploitation du champ info des fichiers OLR
- ++ gros souci avec les longitude OLR !!!!
- ++ split read and plot
- ++ saveimage or openps (for image to provide to publisher)
- ++ filename si small idiot car peut contenir plusieurs figures donc pas canal+year...

To plot AMSU a4 hovmuller latitude plot for 2006 and produce a PNG file:

Examples: IDL> `hovmuller, 'AMSU', 'a4', 2006L, AXE='latitude', ubox=[-30.,+40.,-30.,45.]`

To plot AMSU a4 and a5 hovmuller latitude plots for 2006 on the same figure:

```
IDL> hovmuller, 'AMSU', 'a4', 2006L, AXE='latitude', ubox=[-30.,+40.,-30.,45.], /nosave
IDL> hovmuller, 'AMSU', 'a5', 2006L, AXE='latitude', ubox=[-30.,+40.,-30.,45.], /noerase
```

++ les deux dessins n'occupent pas la même taille.

To plot OLR hovmuller latitude plot for 2006 and produce a PNG file:

```
IDL> hovmuller, 'OLR', 'n.a.', 2006L, AXE='latitude', ubox=[-30.,+40.,-30.,45.]
```

To plot OLR hovmuller longitude plot for 2006 and produce a PNG file:

```
IDL> hovmuller, 'OLR', 'n.a', 2006L, AXE='longitude', ubox=[-30.,+40.,-30.,45.]
```

To plot AMSU a4 hovmuller latitude plot climatology and produce a PNG file:

```
IDL> hovmuller, 'AMSU', 'a4', 0000L, DATASETTYPE='varamma_t3', AXE='latitude', ubox=[-30.,+40.,-30.,45.]
```

- History:**
- fplod 2008-12-23T13:49:03Z aedon.locean-ipsl.upmc.fr (Darwin)
 - add latitude and longitude boundaries in keywords (UBOX)
 - fplod 2008-08-14T15:31:11Z aedon.locean-ipsl.upmc.fr (Darwin)
 - j'ajoute la possibilité de travailler avec les fichiers de climato en ajoutant un motcle datasettype (ceux qui peut permettre même pour OLR par exemple de travailler soit avec les fichiers splités soit avec le fichiers original ... enfin c'est l'idée.

- j'ai compris que 1) il faut /timestep pour AMSU (parce l'axe des temps ne fait pas partie de ceux gerés par ncdf_gettime) 2) qu'il y a un gros avec les longitudes OLR
- fplod 2008-08-13T08:02:19Z aedon.locean-ipsl.upmc.fr (Darwin)
 - replace hovmuller_latitude by hovmuller
 - add AXE keyword
 - change terminology of latitude image file hov by hovy
 - check parameters (type and value)
 - parametrization of xaxisname, yaxisname and timevar
- fplod 2008-08-12T14:17:14Z aedon.locean-ipsl.upmc.fr (Darwin)
 - add _EXTRA keyword
 - change format of colorbar f5.1 to I3.3, 1/10th is useless in legend and I rather like have a *big* font than a dot.
 - add OVERWRITE keyword
 - add NOSAVE keyword
 - subtitle = " to avoid text between plot and color bar
 - usage of _forout
- fplod 2008-08-05T09:59:15Z aedon.locean-ipsl.upmc.fr (Darwin)
 - change font
- fplod 2008-07-31T12:59:17Z aedon.locean-ipsl.upmc.fr (Darwin)
 - Start to add OLR dataset
 - add dataset parameter
- fplod 20080718
 - extract from ananewvaramma3.pro 20080718 :

```

hovmuller latitude
canal='a7'
mois=['Jan','Feb','Mar','Apr','May','Jun','Jul','Aug','Sep','Oct','Nov','Dec']
mo_lon=[31,28,31,30,31,30,31,31,30,31,30,31]

imo=4 &im1=10 ; no du mois
file='stagiaire/'+canal+'.an2006.nc'
initncdf, file, xaxisname = 'xlon', yaxisname = 'ylat'
domdef,-10,5,-30,45 ;domdef,0,5,-30,45
j1=total(mo_lon(0:imo-2)) & J2=total(mo_lon(0:im1-1))
data=read_ncdf('moyenne_tb', j1,j2,/timestep,timevar = 'jours', file = file)
time=julday(imo,1,2006)+lindgen(jpt) ; redefinition axe temps
pltt,window=0, data, 'yt',title='latitude - time '+canal;,min=250,max=295
saveimage, 'sorties/'+canal+'20060410-hov-10-5.png',/png ;capture d'ecran

```

Version: \$Id: hovmuller.pro 8 2008-12-23 16:13:30Z pinsard \$

paper01.pro

plot all figures for paper #1

Categories: [figure08.pro](#) [figure09.pro](#) [figure14.pro](#)

Restrictions:

- Requires SAXO

Pre: [varamma_profile.sh](#)

[paper01_pre.sh](#)

Post: [varamma_profile.sh](#)

To produce PNG files :

Examples: IDL> [paper01](#)

History:

- fplod 2008-08-14T16:46:37Z aedon.locean-ipsl.upmc.fr (Darwin)
 - 8, 9 et 14 ok (almost !)
- fplod 2008-08-13T10:34:01Z aedon.locean-ipsl.upmc.fr (Darwin)
 - creation of header not yet ok, just the idea

timeserie.pro

plot time series

Categories: PNG Climatology AMSU OLR2

Params: dataset : *in, required, type='string: AMSU OLR'*

dataset to plot

canal : *in, optional, type='string: ax bx'*

canal of AMSU

only used if AMSU dataset

Keywords:

- Requires SAXO

Returns: pltt_

cm_4cal_

Pre: [varamma_profile.sh](#)

for AMSU dataset be sure to have `cx.an*yyyy*.climato.nc` ++ in the directory defined in `#{VARAMMA_ID}/`

for OLR dataset be sure to have `olr.day.mean_climato_ng.nc` in the directory defined in `#{VARAMMA_ID}/`

Post: [varamma_profile.sh](#)

PNG file is now present in `#{VARAMMA_OD}`

Todo: ++ exploitation du champ info des fichiers OLR

++ split read and plot

++ saveimage or openps (for image to provide to publisher)

++ add _EXTRA keyword

To plot AMSU a4 climatology

Examples: IDL> `timeserie, 'AMSU', 'a4'`

To plot OLR climatology

IDL> `timeserie, 'OLR', 'n.a.'`

History: • fplod 2008-08-05T14:03:03Z zeus.locean-ipsl.upmc.fr (Linux)

– creation from hovmuller_latitude.pro

– extract from ananewvaramma3.pro 20080718 :

 ; series temporelles

Inconsistent literal block quoting.

```
mois=['Jan','Feb','Mar','Apr','May','Jun','Jul','Aug','Sep','Oct','Nov','Dec']
mo_lon=[31,28,31,30,31,30,31,31,30,31,30,31] canal='a5'
file='stagiaire/' + canal + '.climato.nc' initncdf, file, xaxis-
name = 'xlon', yaxisname = 'ylat'
domdef,-10,5,15,25 imo=4 ; no du mois im1=9 j1=total(mo_lon(0:imo-
2)) & J2=total(mo_lon(0:im1-2))+mo_lon(im1-1)-1 ;imo=1
; no du mois ;im1=12 ;j1=0 & j2=364 ;J2=total(mo_lon(0:im1-
2))+mo_lon(im1-1)-1 print,j1,j2 data=read_ncdf('moyenne_tb',
j1,j2,/timestep,timevar = 'jours', file = file) time=julday(imo,1,2000)+lindgen(jpt)
seriea5=(data.arr-min(data.arr))/(max(data.arr)-min(data.arr))
pltt,window=1,seriea5, 't',title='climatology time series',min=0.1,max=0.9
xyouts,max(time)+20,0.1,'a5',color=0,charsize=2
```

Version: \$Id: timeserie.pro 2 2008-12-18 16:56:52Z pinsard \$

figure01.pro

plot figure 1 of paper1

Categories: [hovmuller.pro](#)

Restrictions:

Pre: [varamma_profile.sh](#)

for AMSU dataset be sure to have `cx.anyyyy.nc` in the directory defined in `VARAMMA_ID`/

Inline literal start-string without end-string.

Post: [varamma_profile.sh](#)

To produce a PNG file :

Examples: IDL> `figure01`

History: • fplod 2008-12-23T15:47:59Z aedon.locean-ipsl.upmc.fr (Darwin)

– add ubox keywords required by hovmuller.pro

• fplod 2008-08-12T13:30:02Z aedon.locean-ipsl.upmc.fr (Darwin)

– creation of header not yet ok, just the idea

figure02.pro

plot figure 2 of paper1

Categories: [hovmuller.pro](#)

Restrictions:

Pre: [varamma_profile.sh](#)

for AMSU dataset be sure to have `cx.anyyyy.nc` in the directory defined in `VARAMMA_ID`/

Inline literal start-string without end-string.

Post: [varamma_profile.sh](#)

To produce a PNG file :

Examples: IDL> `figure02`

History: • fplod 2008-12-23T15:47:59Z aedon.locean-ipsl.upmc.fr (Darwin)

– add ubox keywords required by hovmuller.pro

• fplod 2008-08-12T13:33:22Z aedon.locean-ipsl.upmc.fr (Darwin)

– creation of header not yet ok, just the idea

figure03.pro

plot figure 3 of paper1

Categories: [hovmuller.pro](#)

Restrictions:

Pre: [varamma_profile.sh](#)

for AMSU dataset be sure to have `cx.anyyyy.nc`++ in the directory defined in `${VARAMMA_ID} /`

Inline literal start-string without end-string.

Post: [varamma_profile.sh](#)

To produce a PNG file :

Examples: IDL> `figure03`

History: • fplod 2008-12-23T15:47:59Z aedon.locean-ipsl.upmc.fr (Darwin)

– add ubox keywords required by hovmuller.pro

• fplod 2008-08-12T13:35:39Z aedon.locean-ipsl.upmc.fr (Darwin)

– creation of header not yet ok, just the idea

figure04.pro

plot figure 4 of paper1

Categories: [hovmuller.pro](#)

Restrictions:

Pre: [varamma_profile.sh](#)

for AMSU dataset be sure to have `cx.anyyyy.nc` in the directory defined in `VARAMMA_ID`/

Inline literal start-string without end-string.

Post: [varamma_profile.sh](#)

To produce a PNG file :

Examples: IDL> `figure04`

History: • fplod 2008-12-23T15:47:59Z aedon.locean-ipsl.upmc.fr (Darwin)

– add ubox keywords required by hovmuller.pro

• fplod 2008-08-12T13:37:04Z aedon.locean-ipsl.upmc.fr (Darwin)

– creation of header not yet ok, just the idea

figure05.pro

plot figure 5 of paper1

Categories: [hovmuller.pro](#)

Restrictions:

Pre: [varamma_profile.sh](#)

for AMSU dataset be sure to have `cx.anyyyy.nc` in the directory defined in `VARAMMA_ID`/

Inline literal start-string without end-string.

Post: [varamma_profile.sh](#)

To produce a PNG file :

Examples: IDL> `figure05`

History: • fplod 2008-08-12T13:40:13Z aedon.locean-ipsl.upmc.fr (Darwin)

– creation of header not yet ok, just the idea

figure06.pro

plot figure 6 of paper1

Categories: [hovmuller.pro](#)

Restrictions:

Pre: [varamma_profile.sh](#)

for AMSU dataset be sure to have `cx.anyyyy.nc` in the directory defined in `VARAMMA_ID`/

Inline literal start-string without end-string.

Post: [varamma_profile.sh](#)

To produce a PNG file :

Examples: IDL> `figure06`

History: • fplod 2008-12-23T15:47:59Z aedon.locean-ipsl.upmc.fr (Darwin)

– add ubox keywords required by hovmuller.pro

• fplod 2008-08-12T13:41:29Z aedon.locean-ipsl.upmc.fr (Darwin)

– creation of header not yet ok, just the idea

figure07.pro

plot figure 7 of paper1

Assumptions:

Pre: [varamma_profile.sh](#)

for AMSU dataset be sure to have *cx.anyyyy.nc*++ in the directory defined in \${VARAMMA_ID}/

Inline literal start-string without end-string.

Post: [varamma_profile.sh](#)

To produce a PNG file :

Examples: IDL> `figure07`

History: • fplod 2008-08-12T13:42:36Z aedon.locean-ipsl.upmc.fr (Darwin)

– creation of header not yet ok, just the idea

figure08.pro

plot figure 8 of paper1

Categories: PNG hovmuller VARAMMA

Uses: hovmuller.pro forout.pro

Restrictions:

- Requires SAXO

Pre: varamma_profile.sh

for AMSU dataset be sure to have `cx.anyyyy.nc` in the directory defined
in `${VARAMMA_ID} /`

Post: varamma_profile.sh

++ different min et max pour chaque plot !

++ write a) b) c) d) near each plot

To produce a PNG file :

Examples: IDL> figure08

History:

- fplod 2008-12-23T15:47:59Z aedon.locean-ipsl.upmc.fr (Darwin)
 - add ubox keywords required by hovmuller.pro
- fplod 2008-08-13T08:38:52Z aedon.locean-ipsl.upmc.fr (Darwin)
 - change *hovmuller_latitude* to *hovmuller* and the colling sequence
- fplod 2008-08-12T15:09:51Z aedon.locean-ipsl.upmc.fr (Darwin)
 - more concrete action ...
- fplod 2008-08-11T15:41:20Z aedon.locean-ipsl.upmc.fr (Darwin)
 - creation of header not yet ok, just the idea

figure09.pro

plot figure 9 of paper1

Categories: PNG hovmuller VARAMMA

Uses: [hovmuller.pro](#)

Restrictions:

- Requires SAXO

Pre: [varamma_profile.sh](#)

for AMSU dataset be sure to have *cx.anyyyy.nc* in the directory defined
in \${VARAMMA_ID}/

++ OLR ++ ECMWF

Post: [varamma_profile.sh](#)

To produce a PNG file :

Examples: IDL> `figure09`

History: • fplod 2008-12-23T15:47:59Z aedon.locean-ipsl.upmc.fr (Darwin)

– add ubox keywords required by hovmuller.pro

• fplod 2008-08-13T08:41:22Z zeus.locean-ipsl.upmc.fr (Linux)

– more concrete action inspired by figure08.pro

• fplod 2008-08-11T15:56:10Z aedon.locean-ipsl.upmc.fr (Darwin)

– creation of header not yet ok, just the idea

figure11.pro

plot figure 11 of paper1

Uses: [hovmuller.pro](#)

Restrictions:

- Requires SAXO

Pre: [varamma_profile.sh](#)

++ OLR ++ ECMWF

Post: [varamma_profile.sh](#)

++ jpg is now present in ++

To produce a PNG file :

Examples: IDL> `figure11`

History: • fplod 2008-08-11T15:56:10Z aedon.locean-ipsl.upmc.fr (Darwin)

- creation of header not yet ok, just the idea

figure12.pro

plot figure 12 of paper1

Categories: AMSU

Restrictions:

- Requires SAXO

Pre: [varamma_profile.sh](#)

for AMSU dataset be sure to have *cx.anyyyyclimato_ng.nc* in the directory defined in \${VARAMMA_ID}/

Post: [varamma_profile.sh](#)

To produce a PNG file :

Examples: IDL> [figure12](#)

History: • fplod 2008-08-11T16:04:44Z aedon.locean-ipsl.upmc.fr (Darwin)

- creation of header not yet ok, just the idea

figure13.pro

plot figure 13 of paper1

Categories: AMSU

Restrictions:

- Requires SAXO

Pre: [varamma_profile.sh](#)

for AMSU dataset be sure to have *cx.anyyyy_climate_ng.nc* in the directory defined in \${VARAMMA_ID}/

Post: [varamma_profile.sh](#)

++ jpg is now present in ++

To produce a PNG file :

Examples: IDL> [figure13](#)

History:

- fplod 2008-08-11T16:04:44Z aedon.locean-ipsl.upmc.fr (Darwin)
 - creation of header not yet ok, just the idea

figure14.pro

plot figure 14 of paper1

Categories: hovmuller.pro forout.pro

Restrictions:

- Requires SAXO

Pre: varamma_profile.sh

for AMSU dataset be sure to have *cx.anyyyy_climato.nc* in the directory defined in \${VARAMMA_ID}/

Post: varamma_profile.sh

To produce a PNG file :

Examples: IDL> figure14

History: • fplod 2008-12-23T15:47:59Z aedon.locean-ipsl.upmc.fr (Darwin)

– add ubox keywords required by hovmuller.pro

• fplod 2008-08-14T15:24:42Z aedon.locean-ipsl.upmc.fr (Darwin)

– more concrete action ...

• fplod 2008-08-11T16:10:05Z aedon.locean-ipsl.upmc.fr (Darwin)

– creation of header not yet ok, just the idea

Docutils System Messages

Unknown target name: “report”.

Unknown target name: “pltt”.

Unknown target name: “cm_4cal”.

Unknown target name: “pltt”.

Unknown target name: “cm_4cal”.