

# 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}  
{VARAMMA_LOG} ++  
{VARAMMA_ID}  
{VARAMMA_OD}  
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 2 2008-12-18 16:56:52Z 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 2 2008-12-18 16:56:52Z pinsard \$

- fplod 2008-11-20T09:36:58Z aedon.locean-ipsl.upmc.fr (Darwin)
  - creation from /homedata/eynard/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 /homedata/eynard/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**

Does'nt 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 degree to longitude centered on meridiem 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  $\{\text{VARAMMA\_ID}\}$  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**

Does'nt 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

**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'

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

**Returns:** 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:** ++ 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 peu 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'

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

```
IDL> hovmuller, 'AMSU', 'a4', 2006L, AXE='latitude', /nosave,small=[2,1,1]
IDL> hovmuller, 'AMSU', 'a5', 2006L, AXE='latitude', /noerase,/nocolorbar,small=[2,1,
```

++ 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'
```

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

```
IDL> hovmuller, 'OLR', 'n.a.', 2006L, AXE='longitude'
```

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

```
IDL> hovmuller, 'AMSU', 'a4', 0000L, DATASETTYPE='varamma_t3',AXE='latitude'
```

- History:**
- 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 gérés par ncdftime) 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 2 2008-12-18 16:56:52Z 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 `anewvaramma3.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 \$

## figure08.pro

plot figure 8 of paper1

**Categories:** PNG hoemuller 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 2008-08-13T08:38:52Z 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 hoevmuller 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 2008-08-13T08:41:22Z 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\_climato\_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 2008-08-14T15:24:42Z 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: "pltt".

Unknown target name: "cm\_4cal".

Unknown target name: "pltt".

Unknown target name: "cm\_4cal".