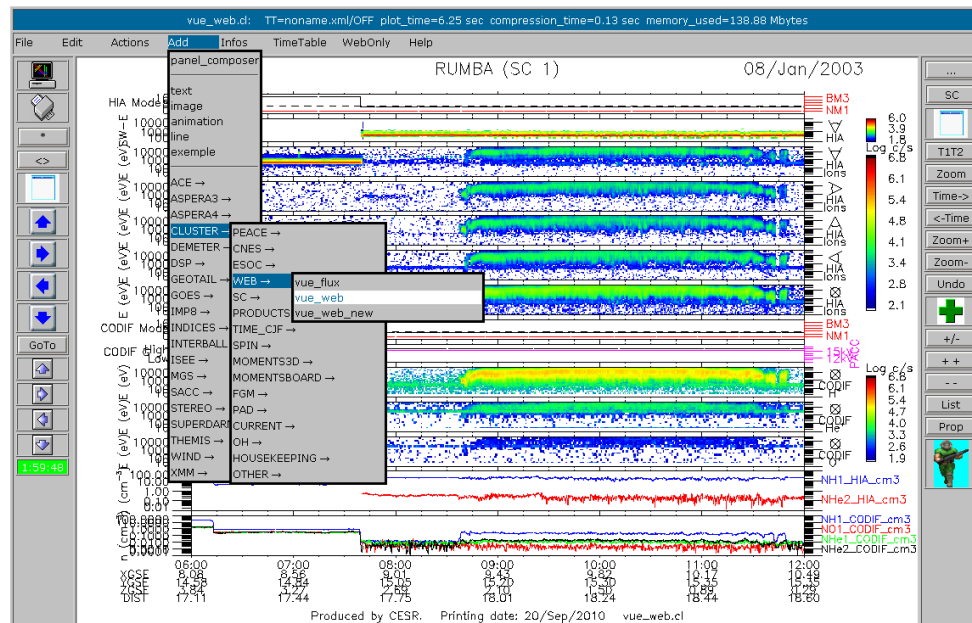




# CLWEB software

<http://clweb.cesr.fr>

An easy way to plot multi-experiments and multi-missions data



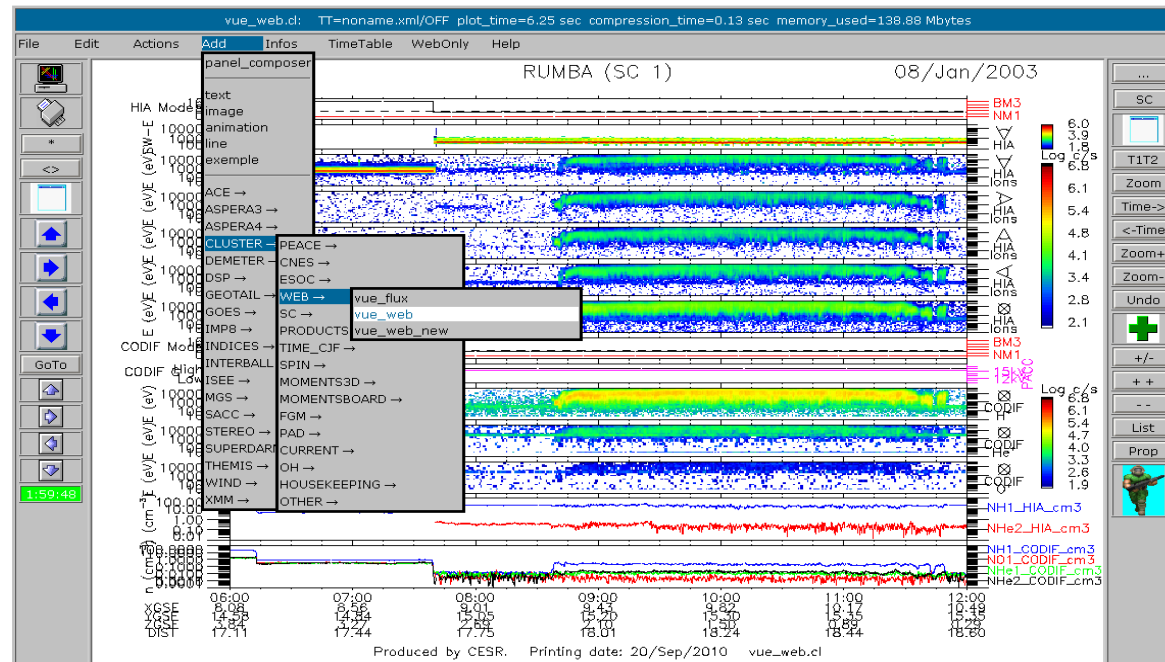
Emmanuel PENOU  
Contact: [epenou@irap.omp.eu](mailto:epenou@irap.omp.eu)



**CLWEB software**

**<http://clweb.cesr.fr>**

# an easy way to plot multi-experiments and multi-missions data



Emmanuel PENOU

Contact: [epenou@irap.omp.eu](mailto:epenou@irap.omp.eu)

Clweb is a web version of cl (this standalone version running on many platforms can be downloaded on <http://interball2.cesr.fr:8001>). Cl has been originally created for the Cluster project in the year 2000. New projects like STEREO and THEMIS have been regularly and naturally added.

Cl can plot a composition of panels of the following types:

- Title
- Text
- External plots or images
- Orbit data
- Can dynamically read calibration and compute (on the fly) calibrated data (like count/sec, flux, distribution function) and plot these quantities in **3d spectrogram** or contour (time/energy, time/theta, time/phi, time/mass, time/pitch-angle, phi/theta, distribution function, mass/energy, RLONG/RLAT) or in **2d plot** (energy, time).
- Can also compute **moments** (Density, Velocity, Heat Flux, Pressure) and some user defined products (partial moments)
- Can compute **current** for Cluster
- Time series (header): can plot one or more curves (field of the data file or a mathematic expression with these fields)

'panel composer'

'title'

'count3d' time\_energy

'count2d' time\_cjf

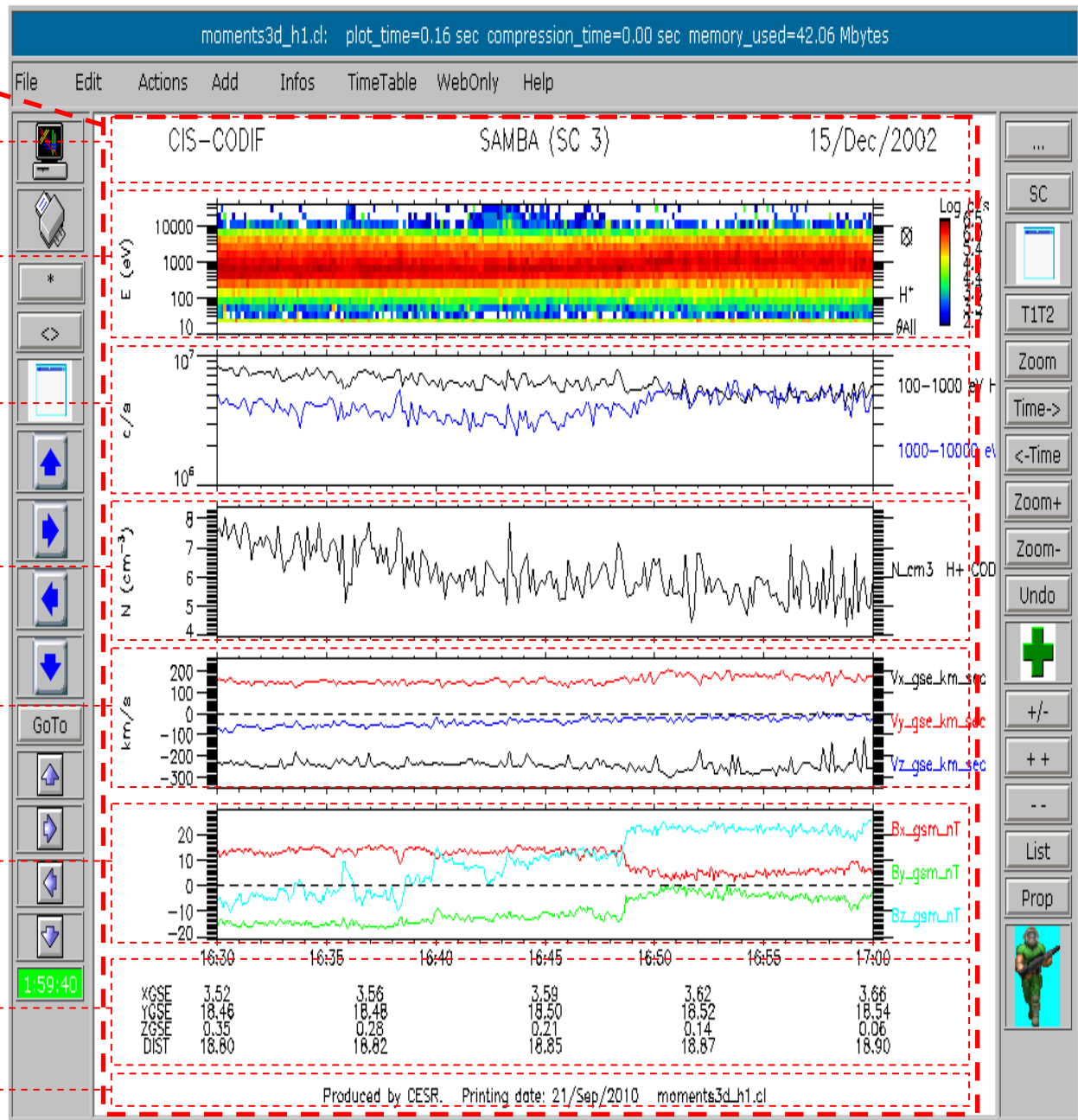
'count2d' moments

'count2d' moments

'header'

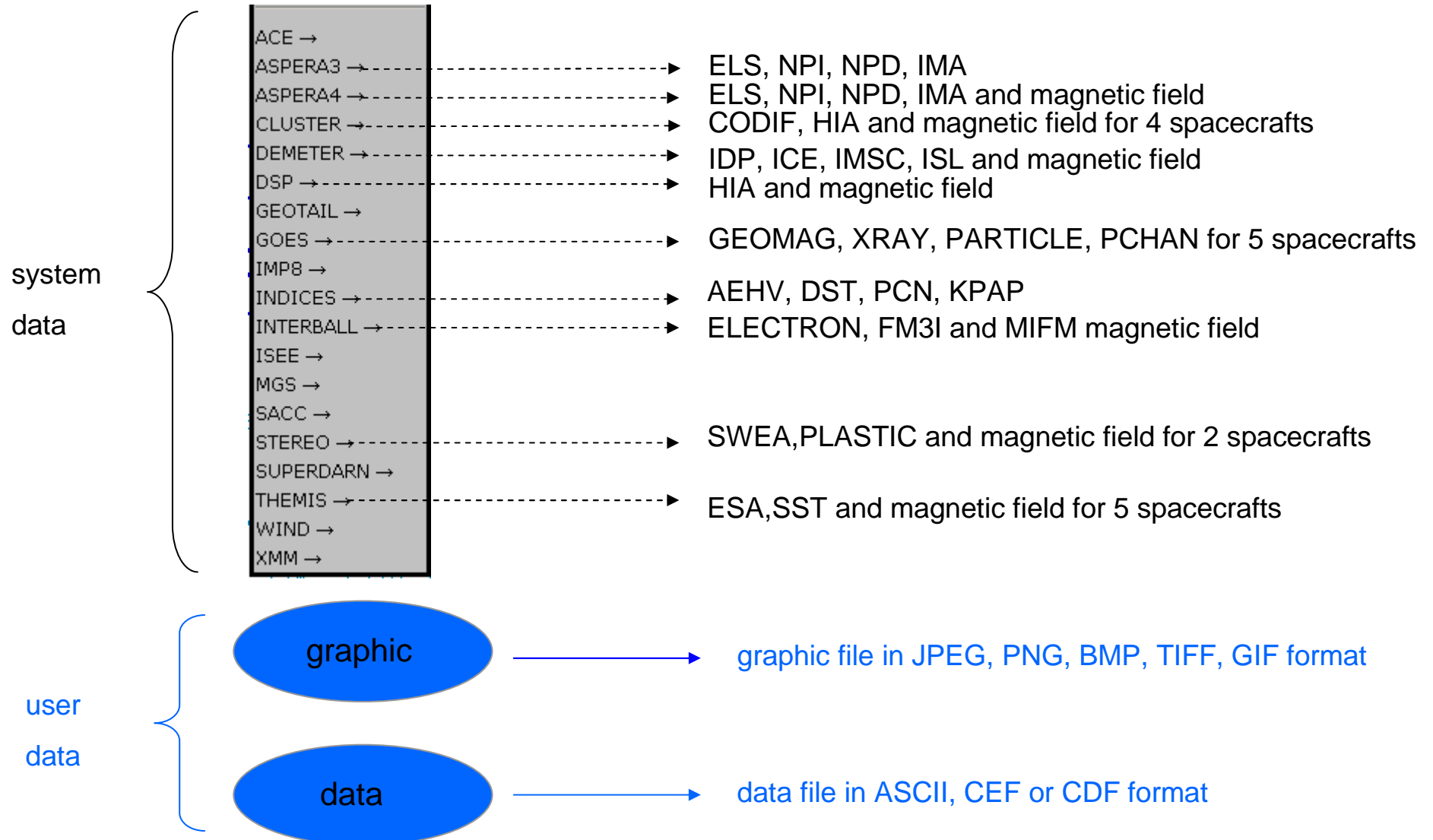
'orbito'

'copyright'



example of panel composer with 8 panels

## 2 types of datasets:



# Typical CLWEB session

**WELCOME TO CLWEB**

Written by Emmanuel PENOU (penou@cesr.fr)

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Clweb is a web version of cl. It has been tested under "Internet explorer", "Firefox", "Chrome", "Safari" and "Opera" (no right click under Opera).

- If you don't have account:
  - If you need a permanent account, please send me an email (penou@cesr.fr) with the login and dataset you plan to use on this server
  - If you want to try clweb, please compute  $1+0=$   and then click on
- If you have an account:
  - [Use clweb](#)
  - [Change your clweb password](#)
- In case of problem:
  - [Kill your current clweb session](#)
  - [Reset your cl.cfg file](#) (please first kill your current clweb session)
- Administration (protected access):
  - [clweb admin](#)

anonymous  
account

or

normal  
account

noname.cl: plot\_time=0.00 sec compression\_time=0.00 sec memory\_used=54.97 Mbytes

File Edit Actions Add Infos TimeTable WebOnly Help

**WELCOME TO CLWEB**

Written by Emmanuel PENOU (penou@cesr.fr)

- INACTIVITY TIMEOUT: 2 hours
- PLOT TIMEOUT: 4 mn
- UPLOAD MAX FILE SIZE: 999 Mbytes
- CACHE SIZE: 100 Mbytes

(Internet Explorer: Ok, Full screen=F11)  
(Mozilla Firefox: Ok, Full screen=F11)  
(Google Chrome: Ok, Full screen=??)  
(Safari: Ok, Full mode=??)  
(Opera: Ok but no right click, Full screen=F11)

1:59:58

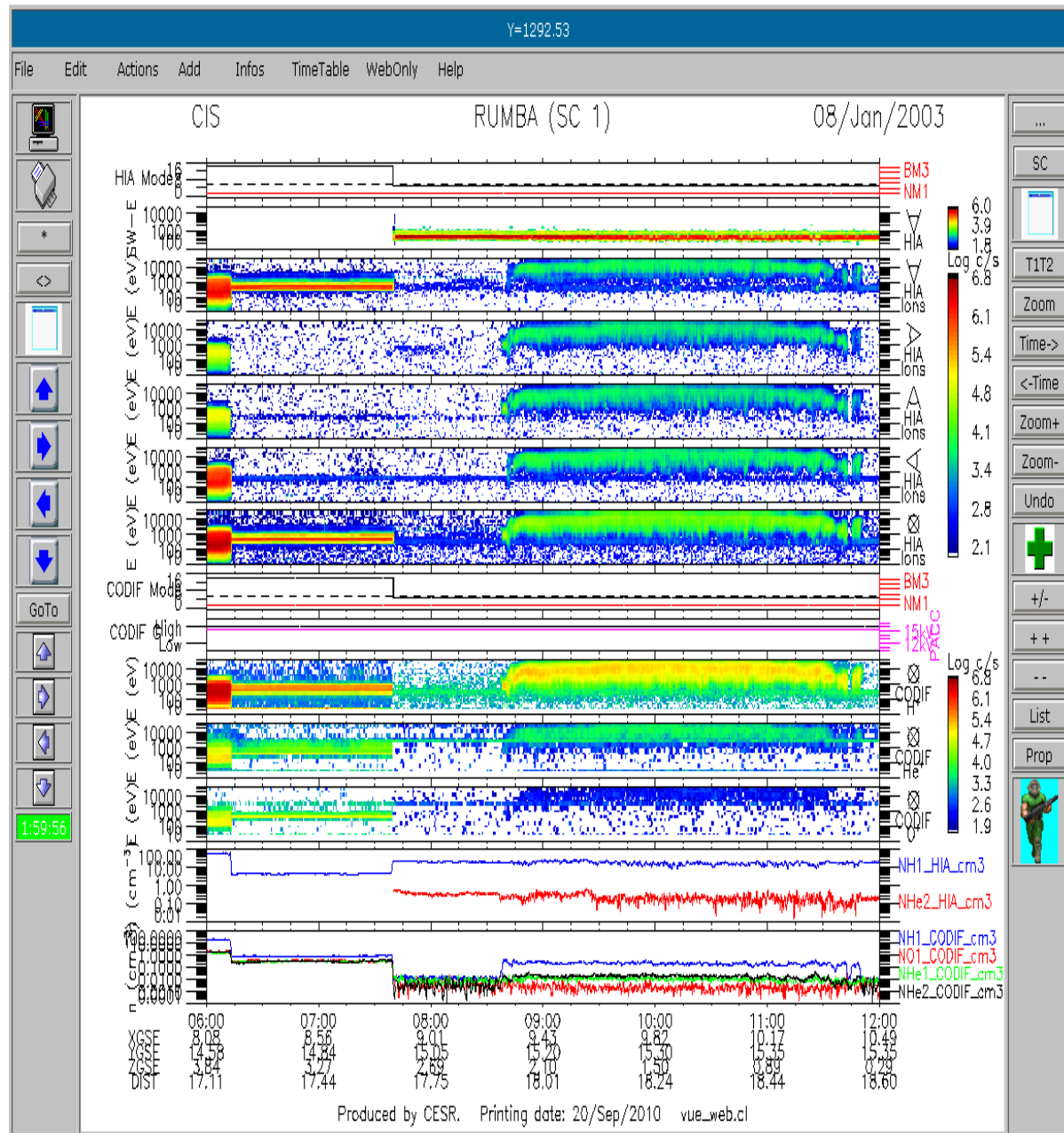
<http://clweb.cesr.fr>



Load a previously saved or uploaded plot (File/Open...)

or

Add a pre-defined plot (Add...)

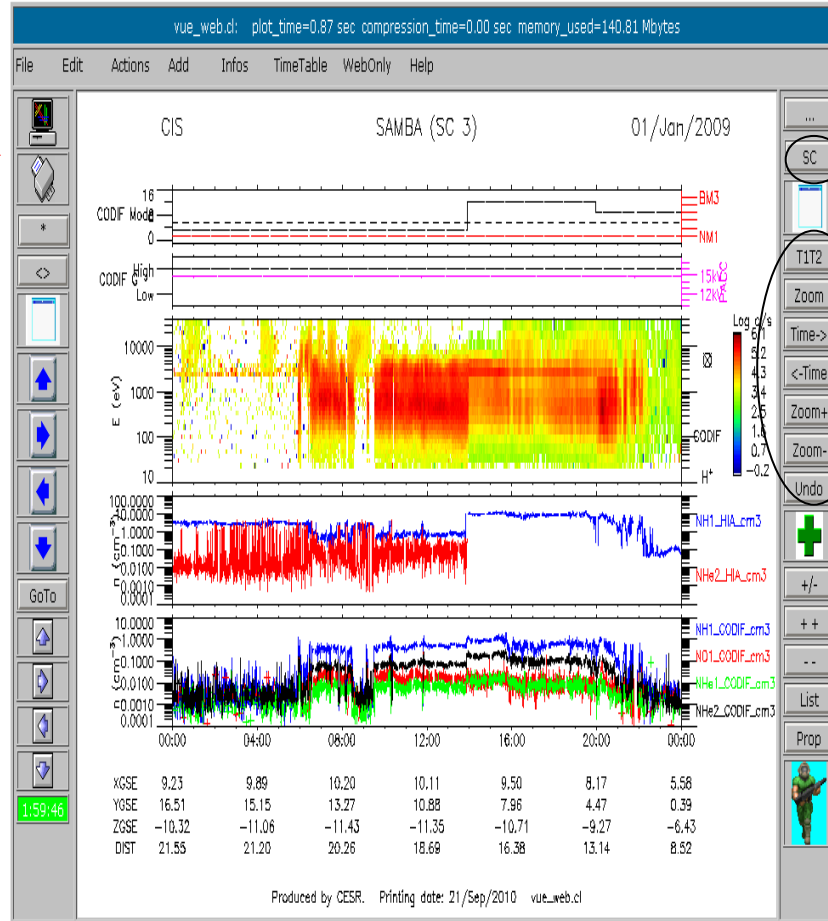


## Modify the plot:

- add,remove panel
- resize,modify panel
- change time,spacecraft
- change plot size
- change colors
- change axis limits
- load AMDA time-table  
(<http://www.ivoa.net/xml/VOTable/v1.1>)

...

...



change spacecraft

change time

Graphic output in PNG, PS or PDF format (File/Print...)

Numerical output in ASCII, CEF or CDF format (File/... output)

Save the plot (File/Save...)

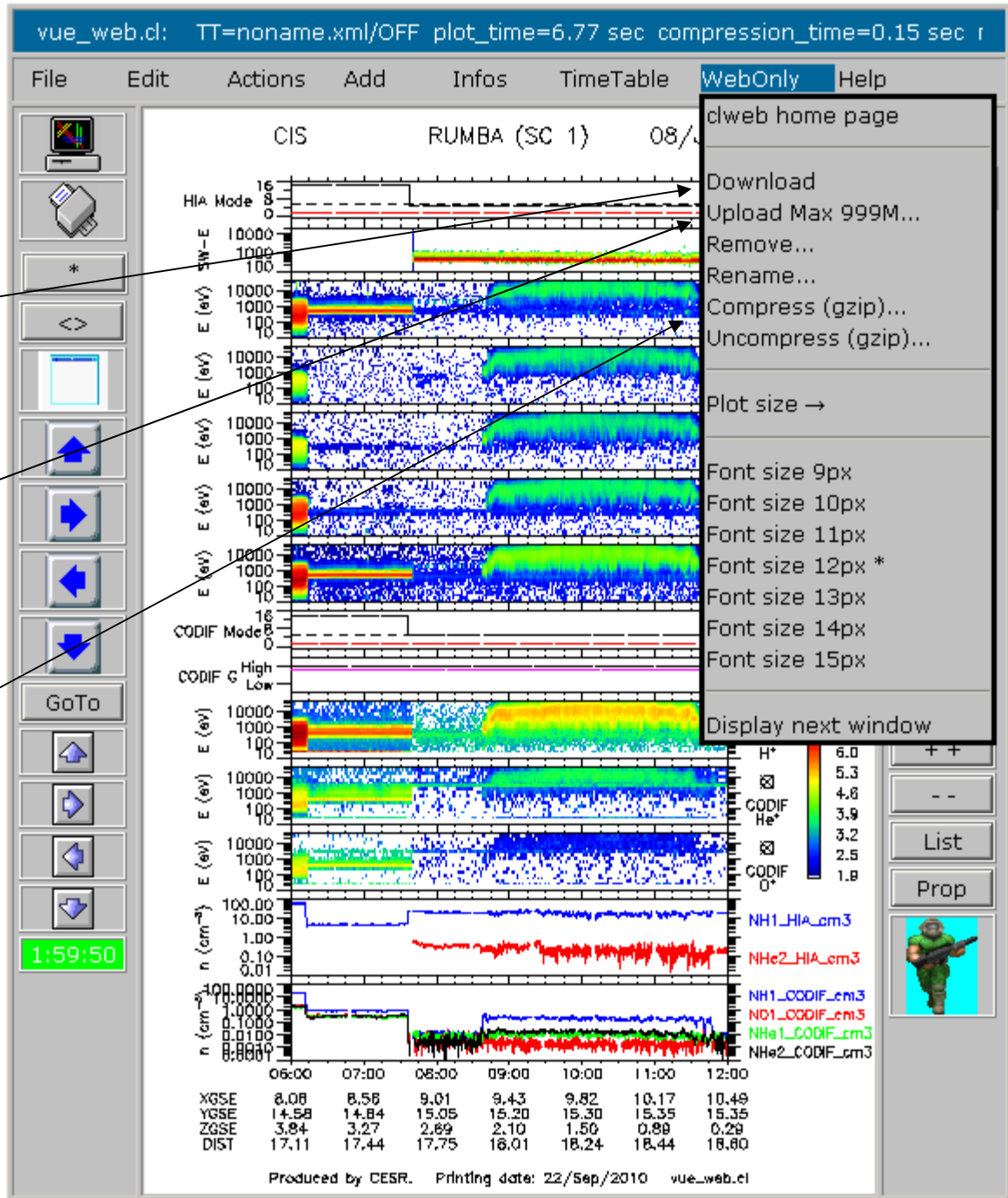
On the server, each user have a private home directory:

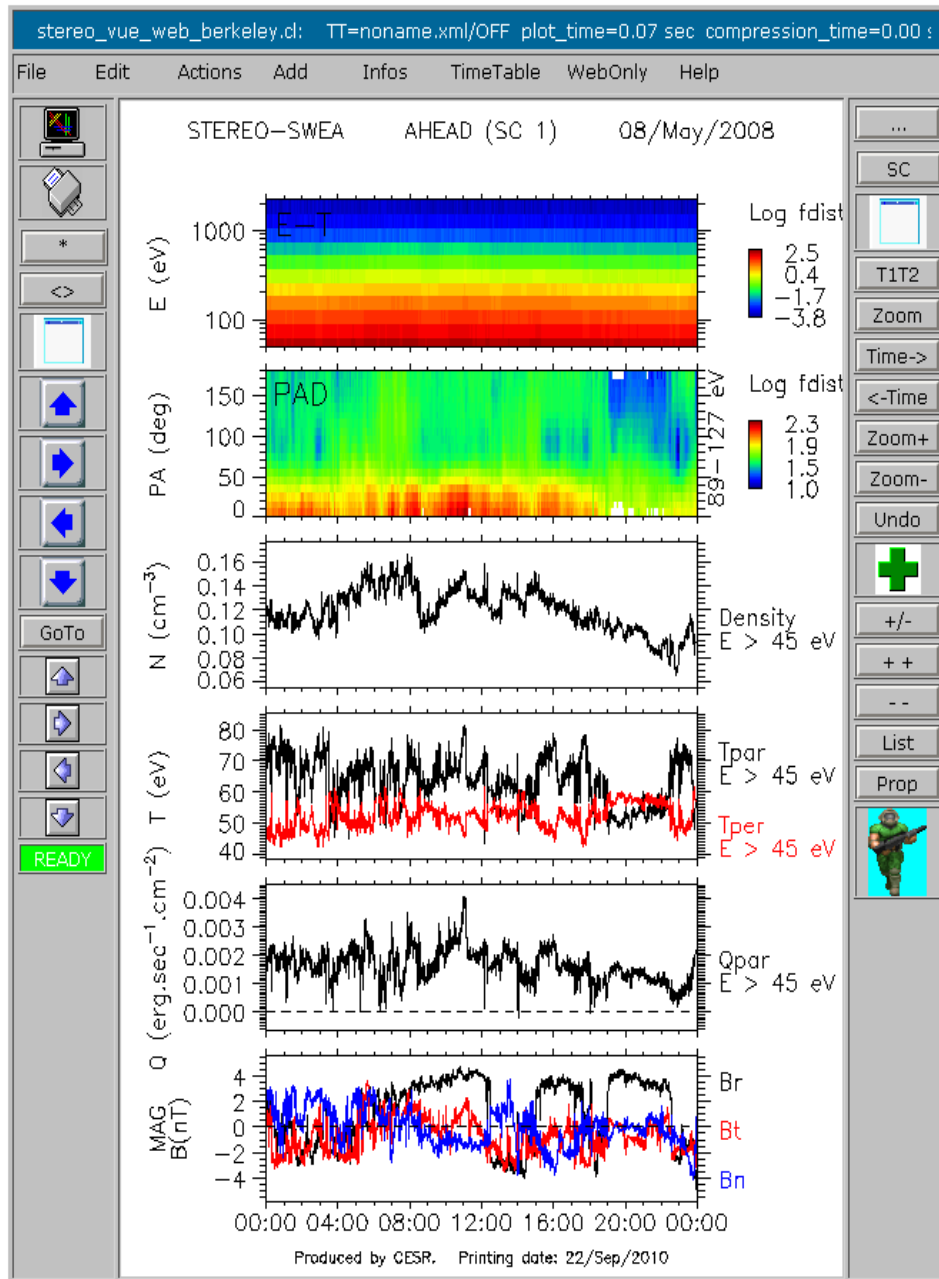
output files can be downloaded

input files can be uploaded

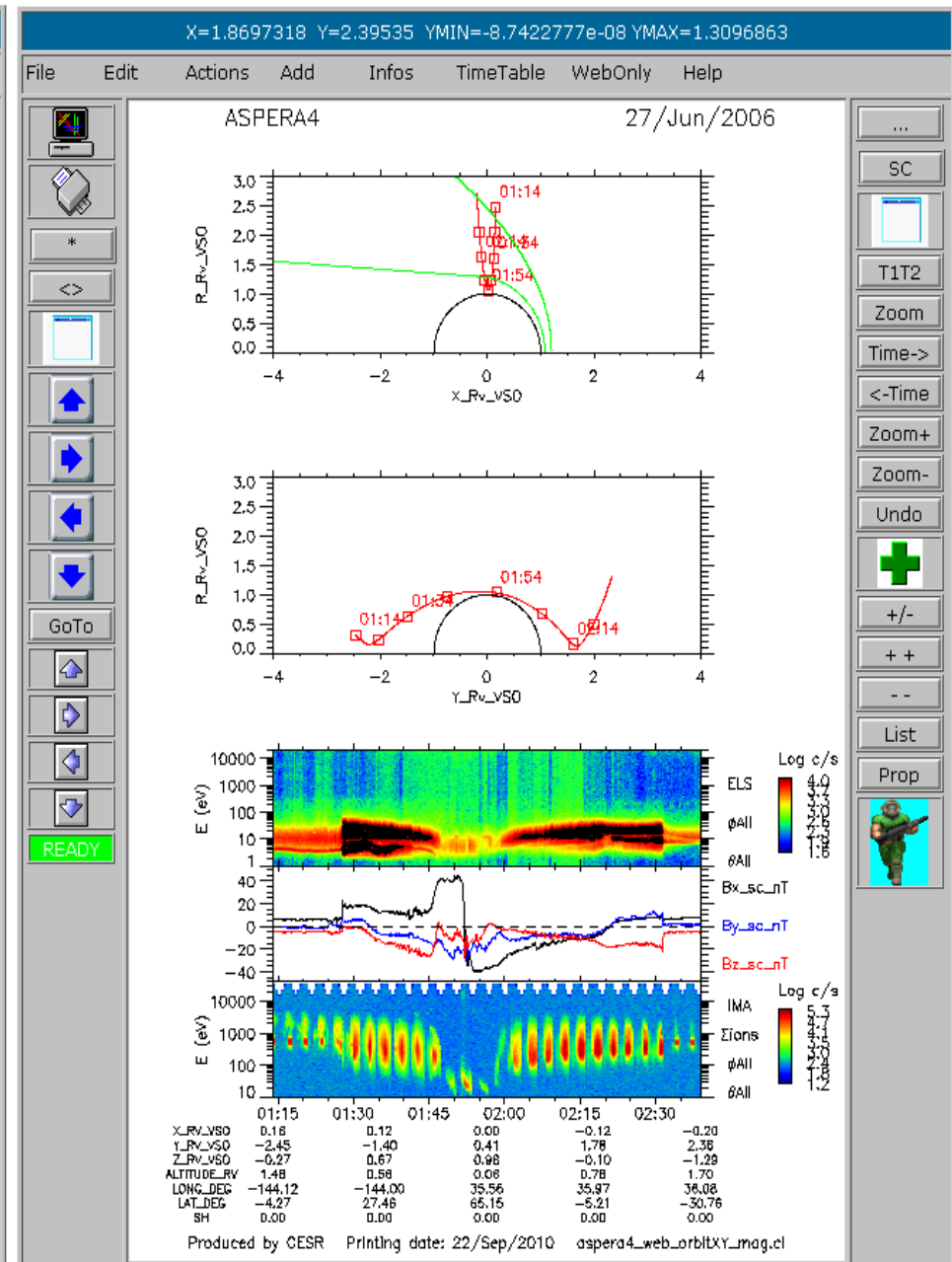
files can be removed, renamed, compressed and uncompressed

**NB:** home directory of anonymous account is destroy at the end of the session

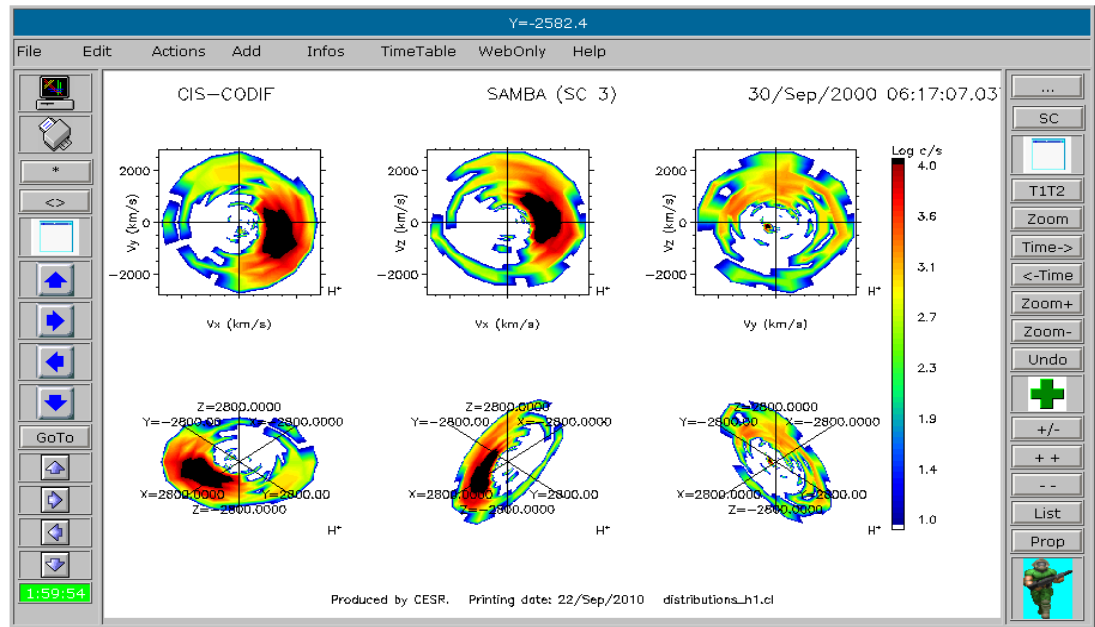




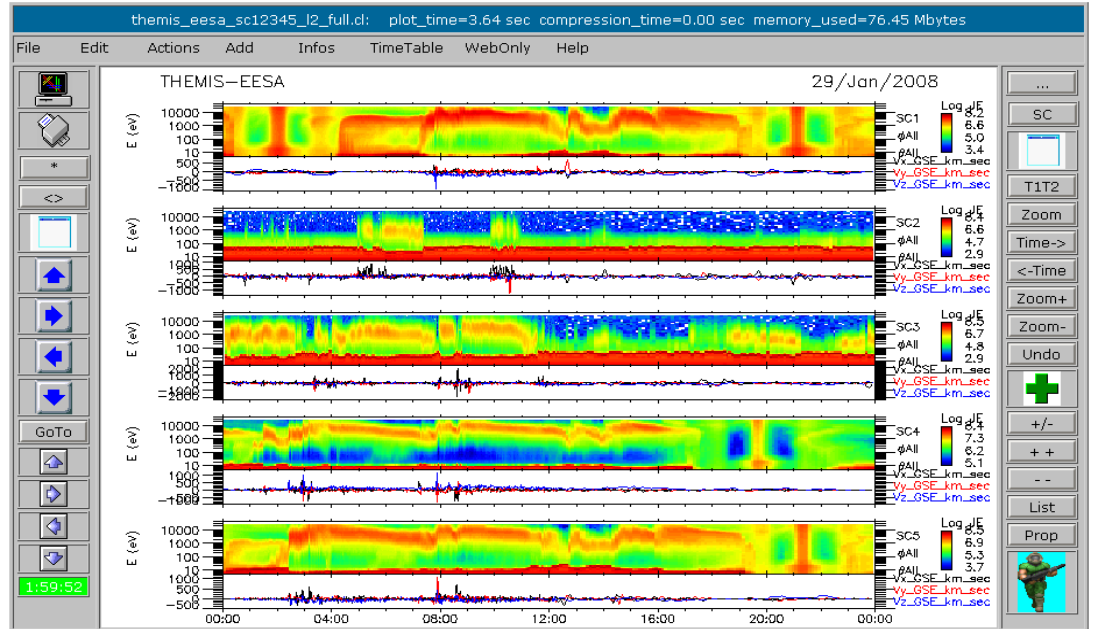
STEREO/WEB/stereo\_vue\_web\_berkeley



ASPERA4/WEB/aspera4\_web\_orbitXY\_mag



CLUSTER/SPIN/DISTRIBUTIONS/distributions\_h1



THEMIS/ESA/EESA/SC/themis\_eesa\_sc12345\_l2\_full