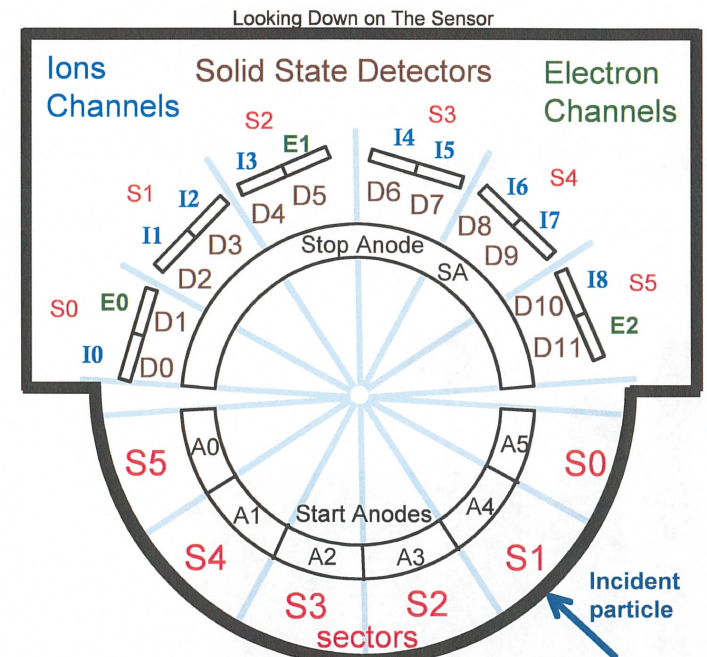
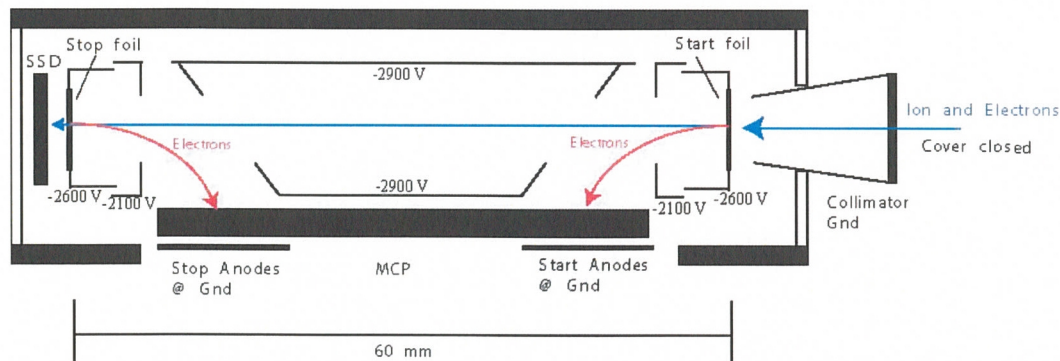


New Horizons Pluto Energetic Particle Spectrometer Science Investigation (PEPSSI)

PRINCIPAL INVESTIGATOR: Ralph McNutt, APL
 DESCRIPTION: Medium Energy Particle Spectrometer
 ENERGY RANGE: 25-1000 keV (protons)
 60-1000 keV (atomic ions)
 25-500 keV (electrons)
 FIELD OF VIEW: 160 deg x 12 deg
 ANGULAR RESOLUTION: 25 deg x 12 deg
 ENERGY RESOLUTION: 0.25 keV
 SENSOR SIZE: 7.6 cm dia. x 2.5 cm thick
 POWER: 1.4 watt
 MASS: 1.5 kg



New Horizons PEPSSI Data Sets

Delta Review Data Sets:
nh-p-pepssi-4-plasma-v1.0

New Horizons PEPSSI Data Set Evaluation Tools

Staging and Evaluation -

Machine: Dell Precision T3400

Operating System: Fedora 18 linux

Staging and Minor Diagnostics -

Machine: IBM lenovo T60p ThinkPad

Operating System: Fedora 27 linux

Documentation Evaluation

nh-p-pepssi-4-pluto-v1.0/document
soc_inst_icd.pdf

Note – This document is identical to previous versions. This document contains no information about any PEPSSI data product beyond Level 3. It is assumed that this document is included for information only since the description of these data can be found in the dataset.cat file.

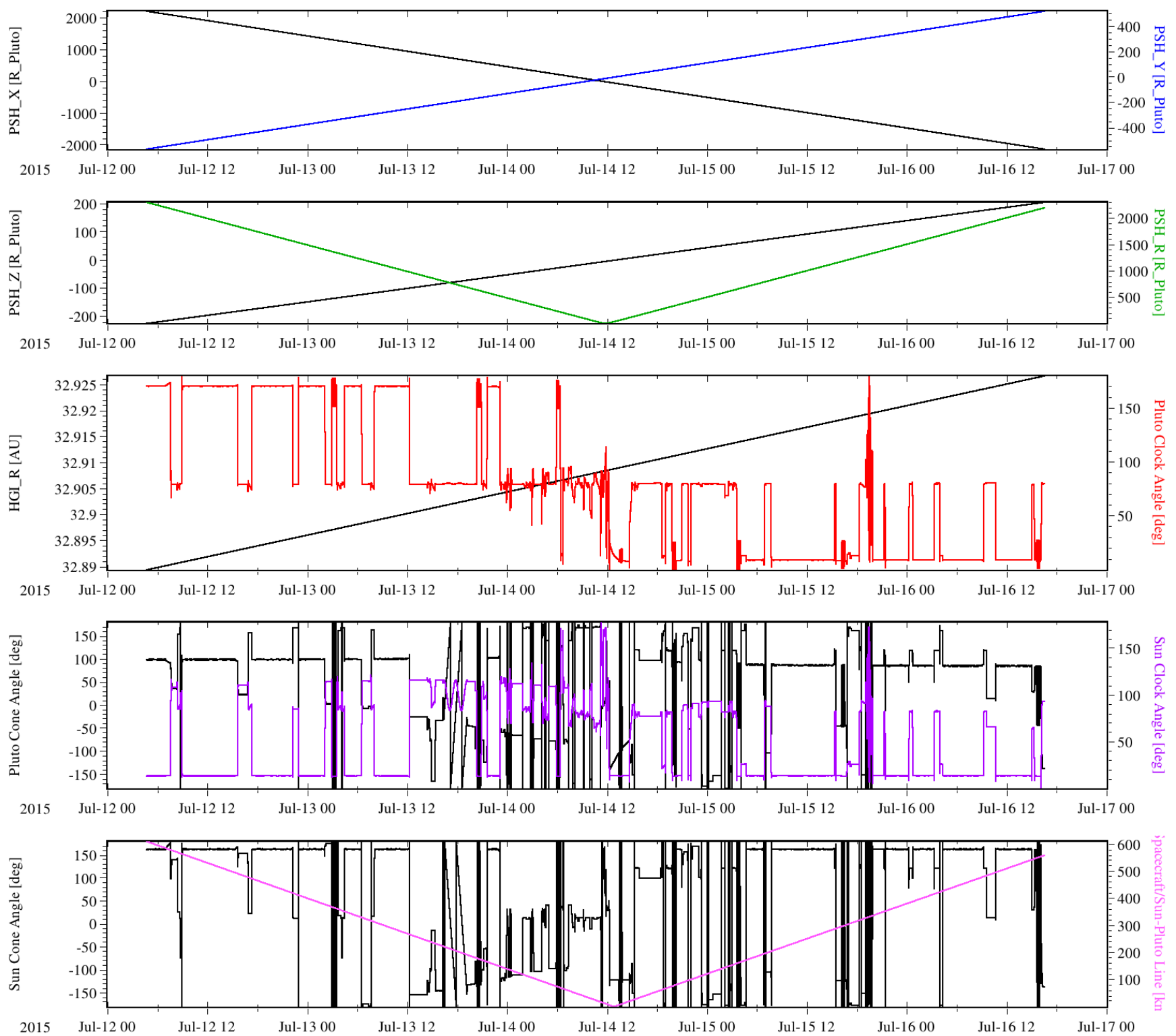
Additional Comment

The explanation provided in the dataset.cat file is excellent!

Data Evaluation

Attitude CVS Data

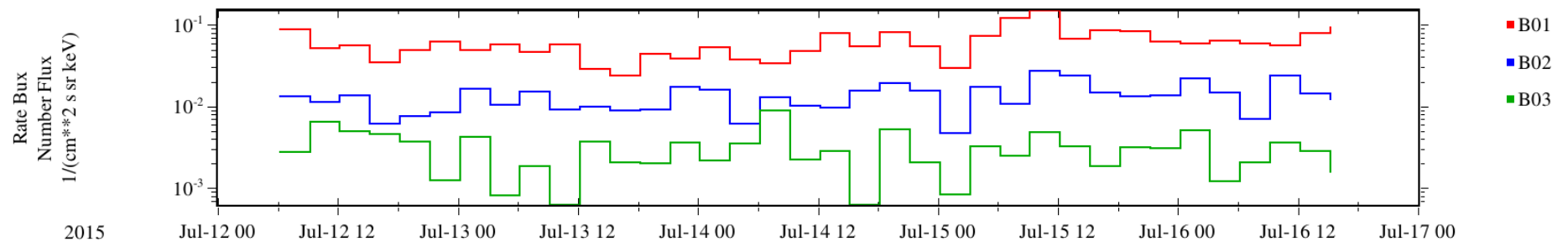
The contents of the attitude data file was examined.



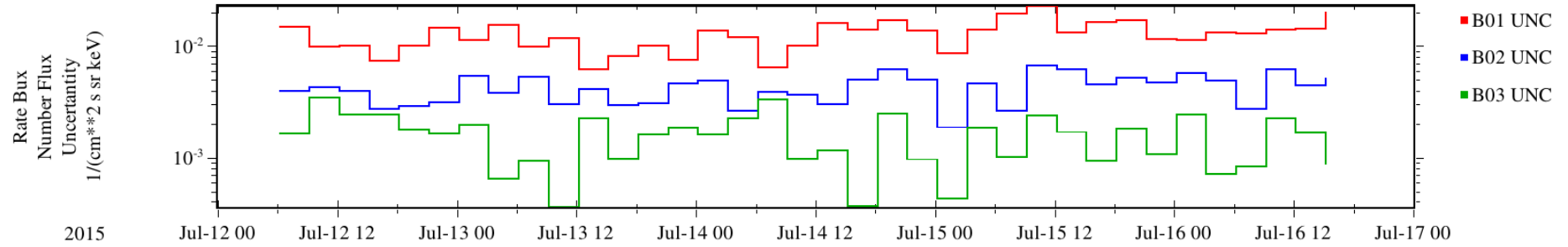
Triples CVS Data

The contents of the triples data file was
examined. .

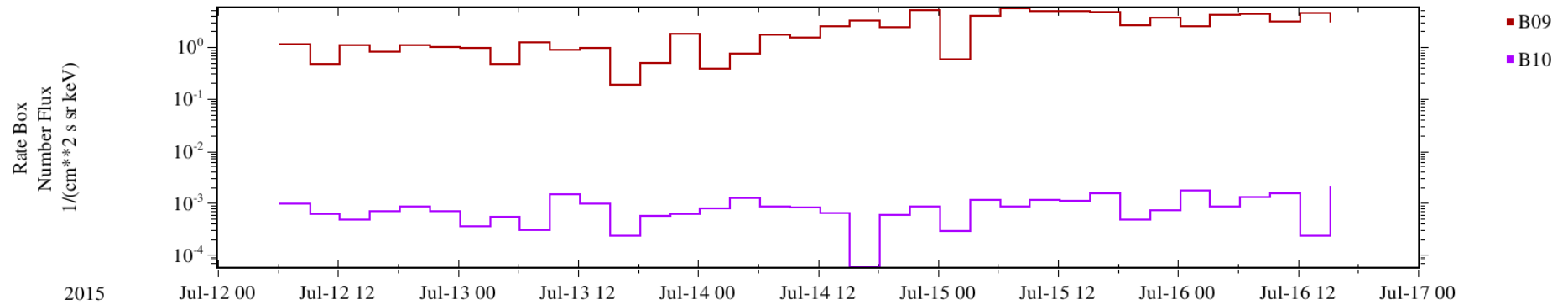
PEPSSI Resampled Proton Differential Number Flux



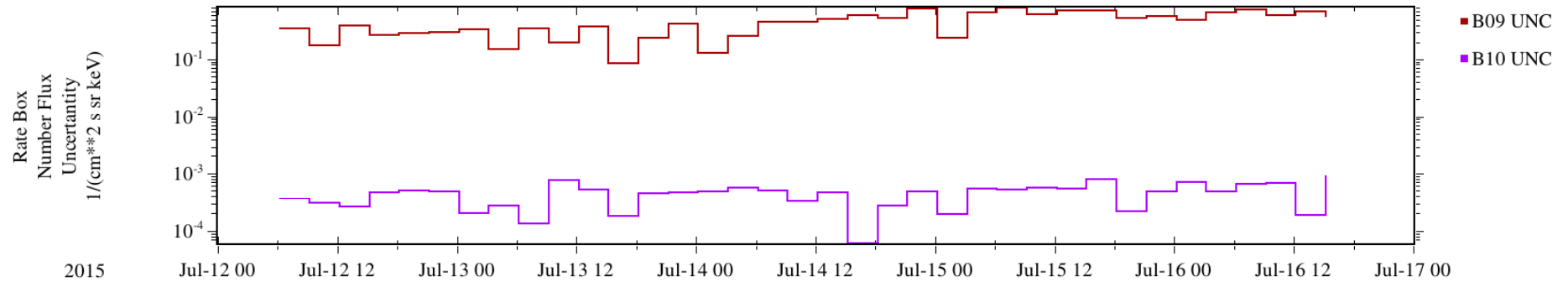
PEPSSI Resampled Proton Differential Number Flux Uncertainty



PEPSSI Resampled Helium Differential Number Flux



PEPSSI Resampled Helium Differential Number Flux Uncertainty

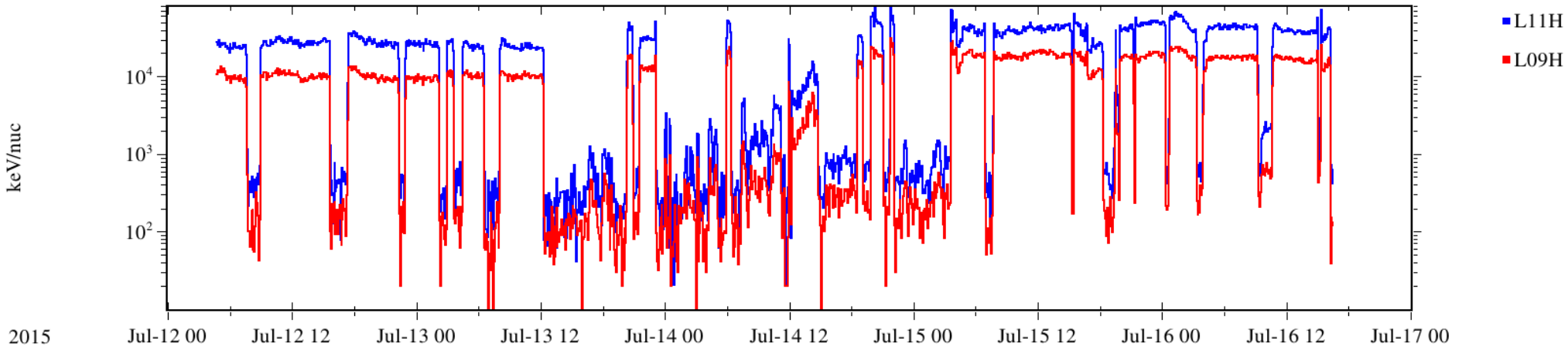


Doubles CVS Data

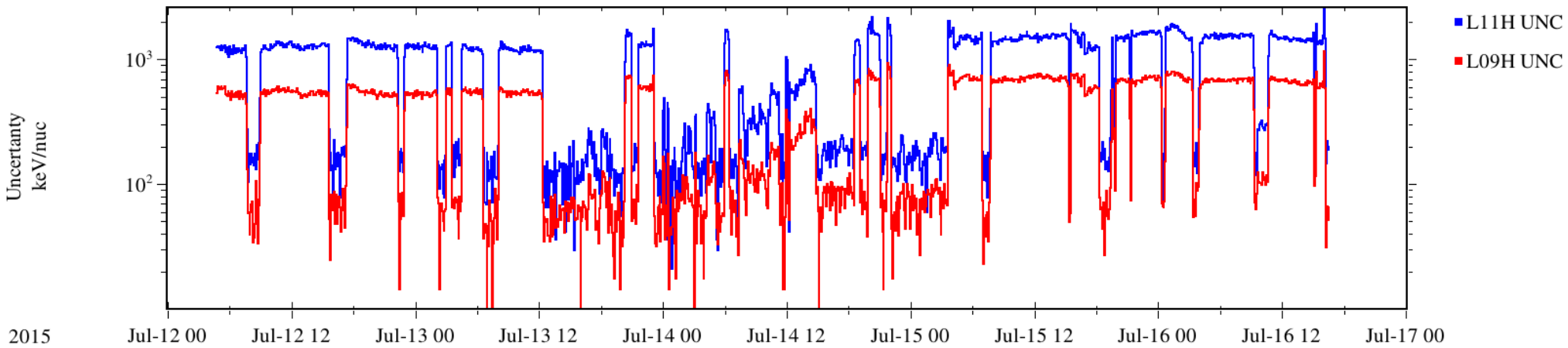
There are two types of doubles cvs files and the difference in them is one is at time resolution of 5 min and the other is at a time resolution of 5 sec. The contents of both doubles data file were examined. Data files show values expected for averaging these data.

5 min Resolution

PEPSSI Resampled He+ Average Energy
(5 min avg)

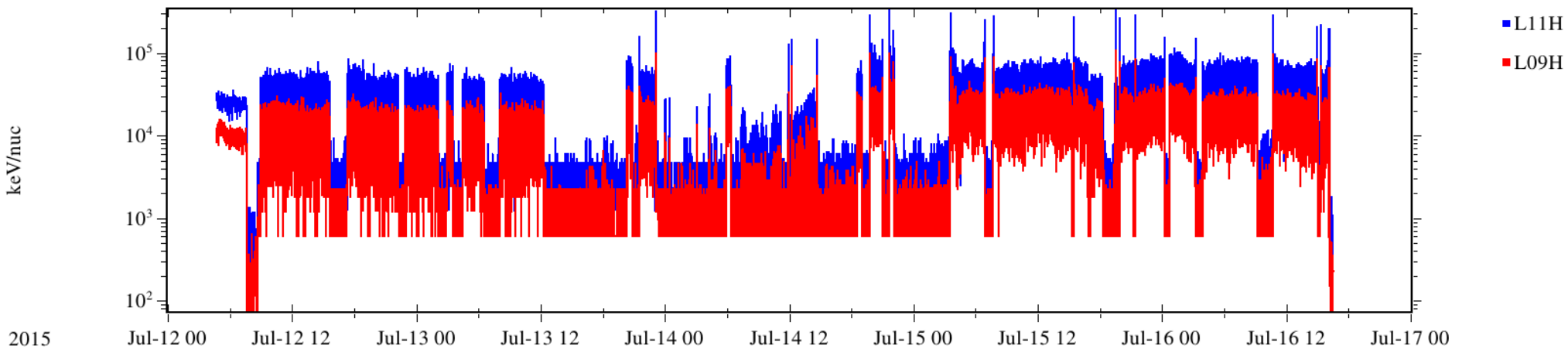


PEPSSI Resampled He+ Average Energy Uncertainty
(5 min avg)

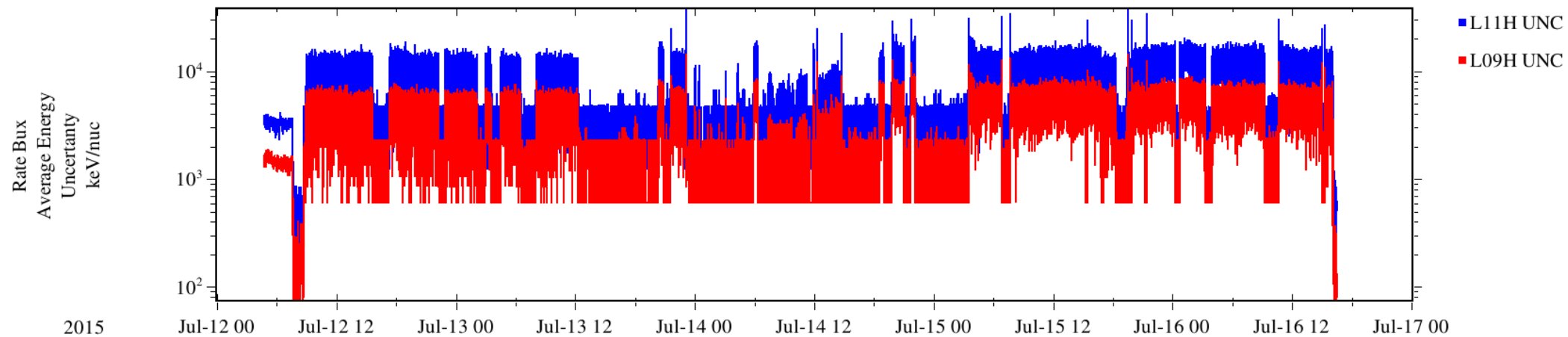


5 sec Resolution

PEPSSI Resampled He+ Average Energy
(5 sec avg)



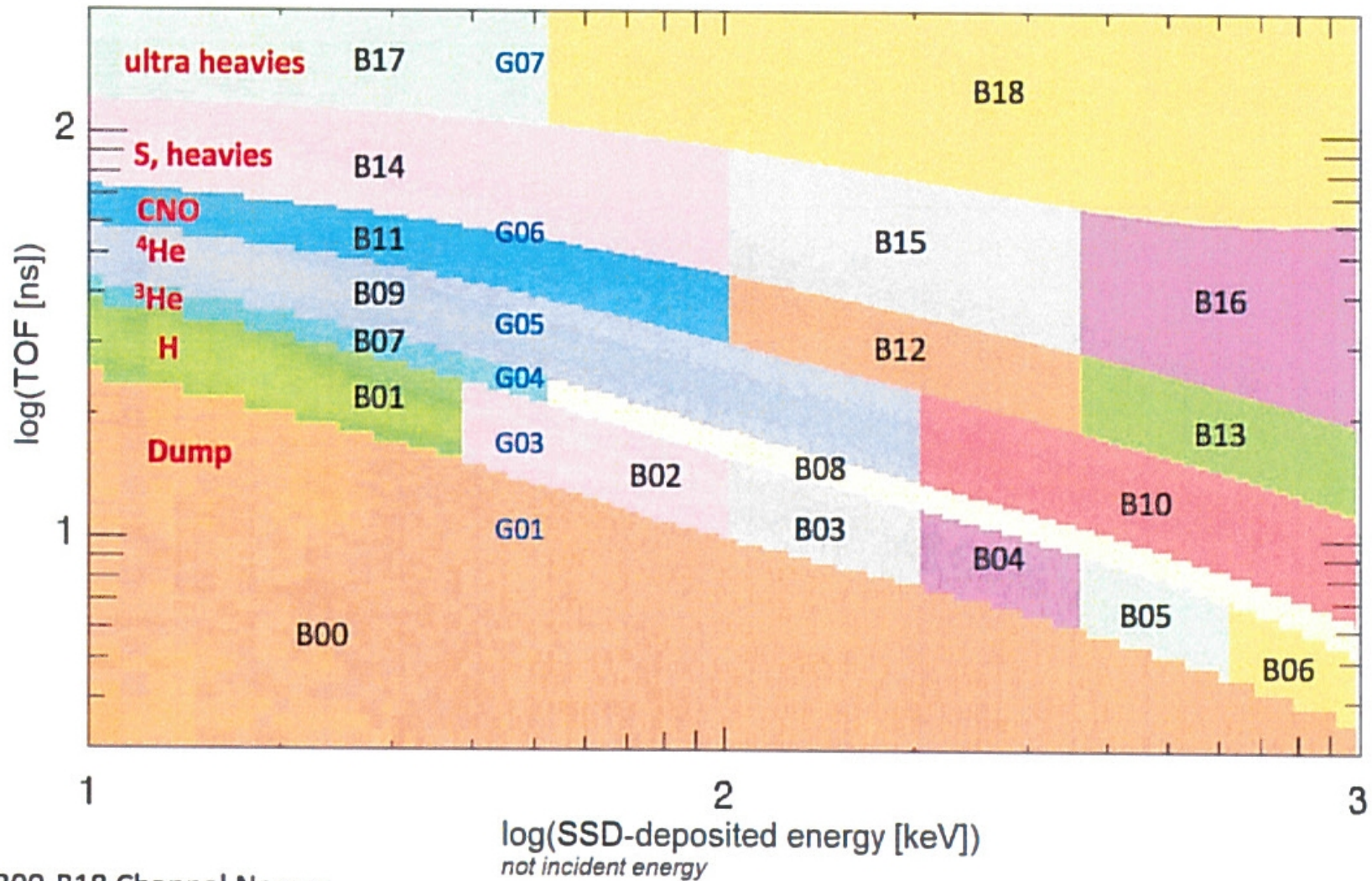
PEPSSI Resampled He+ Average Energy Uncertainty
(5 sec avg)



Certification

In PEPSSI team has done an excellent job describing these data and the contents. I have no doubt that the data will be useful to the public and they will be able to understand these data. I recommend certification!

Back-Up Slides



(b) B00-B18 Channel Names
G01, G03-G07 Priority Groups (by species)

Figure 11-6: PEPSSI Rate Boxes on the TOF vs Energy Plane. Normal Mode. (a) Boxes until 2007 DOY 144; (b) boxes after this time.

nh-p-pepssi-4-plasma-v1.0
voldesc.txt

GOOD

nh-p-pepssi-4-plasma-v1.0
aareadme.txt

GOOD

nh-p-pepssi-4-plasma-v1.0/catalog
catinfo.txt

GOOD

nh-p-pepssi-4-plasma-v1.0/catalog
nh.cat

GOOD

nh-p-pepssi-4-plasma-v1.0/catalog
nhsc.cat

GOOD

nh-p-pepssi-4-plasma-v1.0/catalog
ref.cat

GOOD

nh-p-pepssi-4-plasma-v1.0/catalog
dataset.cat

GOOD

nh-p-pepssi-4-plasma-v1.0/catalog
pepssi.cat

GOOD

nh-p-pepssi-4-plasma-v1.0/index
indxinfo.txt

GOOD

nh-p-pepssi-4-plasma-v1.0/index
index.lbl & index.tab

GOOD

nh-p-pepssi-4-plasma-v1.0/index
checksum.lbl & checksum.tab

GOOD

nh-p-pepssi-4-plasma-v1.0/document
docinfo.txt

GOOD

nh-p-pepssi-4-plasma-v1.0/document
codmac_level_definitions.lbl
codmac_level_definitions.pdf

GOOD

nh-p-pepssi-4-plasma-v1.0/document
nh_met2utc.tbl & nh_met2utc.tab

GOOD

nh-p-pepssi-4-plasma-v1.0/document
payload_ssr.lbl & payload_ssr.pdf

GOOD

nh-p-pepssi-4-plasma-v1.0/document
pepssi_ssr.lbl & pepssi_ssr.pdf

GOOD

nh-p-pepssi-4-plasma-v1.0/document
nh_pepssi_v110_ti.txt

GOOD

nh-p-pepssi-4-pluto-v1.0/document
soc_inst_icd.lbl

GOOD