

- 1 mkdir for /dat, /fig
- 2 use QJAS to export the LEEA and HEEA data as the following format

Sauvaud Energy-Time-Angle Plots V3.6.1a

IDFS Lineage

CLUSTERII

CLUSTER-1

PEACE

PAD

CPPADL

pa: angles

12

Gather n sweeps

1

Plot type

QJAS Energy-Angle-Time Spectrogram

Start Year 2002 Day 233 Time 08:10:00 > End Year 2002 Day 233 Time 08:25:00

Date 2002/08/23 Date 2002/08/23

Energy/Velocity Options

Energy eV

Instrument Bins

No s/c pot. correction

pot gap val, secs 0.0 60.0

Custom bins: Number 10

Log

Instrument Range

min, max 10.00 1000.00

Phase Space Options

Phase space density s**3/km**6

Log

Autoscale

min, max 1.00000 10.0000

Plot Options

Rainbow

t-fill gaps < (s) 0.0

Xwin Number 3

Landscape GIF File ->

Plot File Stem qjas_plot

Browse...

Export to File Options

Ascii Cluster Exchange 2

Export File Stem 20020821_0810_0825_C1_PEACE_PSD_CPPALHpa12sw01

Browse...

Plot Xwin

Print to File

Export

Help

Save...

Restore...

Quit

- 3 Go to cluster active archive to download the high resolution EFW spacecraft potential data and put it under /dat directory

```

yml@peace:~/20020821/0013 $ ls
20020821_0810_0825_C1_PEACE_PSD_CPPADHpa12sw01.cef  20020821_0810_0825_C3_PEACE_PSD_CPPADHpa12sw01.cef  C1_CP_EFW_L2_P_20020821_081000_20020821_082500_V110504.cef
20020821_0810_0825_C1_PEACE_PSD_CPPADLpa12sw01.cef  20020821_0810_0825_C3_PEACE_PSD_CPPADLpa12sw01.cef  C2_CP_EFW_L2_P_20020821_081000_20020821_082500_V110504.cef
20020821_0810_0825_C2_PEACE_PSD_CPPADHpa12sw01.cef  20020821_0810_0825_C4_PEACE_PSD_CPPADHpa12sw01.cef  C3_CP_EFW_L2_P_20020821_081000_20020821_082500_V110506.cef
20020821_0810_0825_C2_PEACE_PSD_CPPADLpa12sw01.cef  20020821_0810_0825_C4_PEACE_PSD_CPPADLpa12sw01.cef  C4_CP_EFW_L2_P_20020821_081000_20020821_082500_V110509.cef

```

- 4 eMap to generate python script
- 5 key in eMap