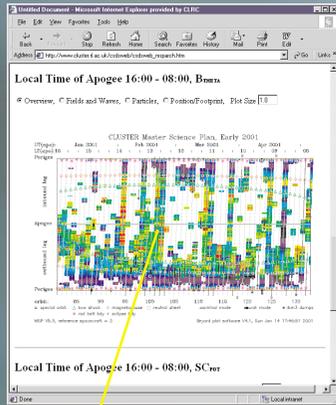


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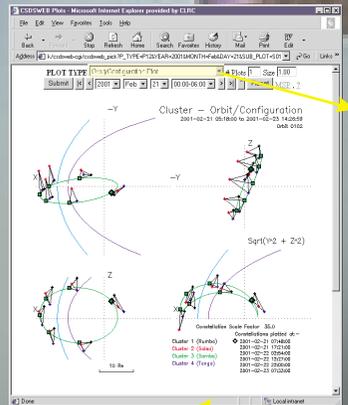
Quick Guide to Using CSDSweb/CDMS

Step 1: Using CSDSweb to find a region of interest.

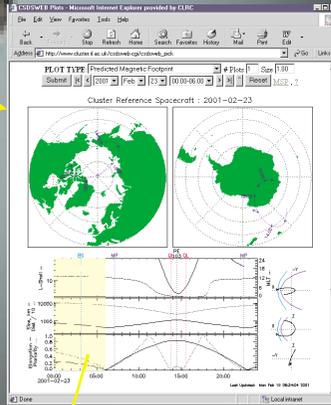
CSDSweb provides mission survey plots that can be used to quickly identify periods of interest and where there also data.



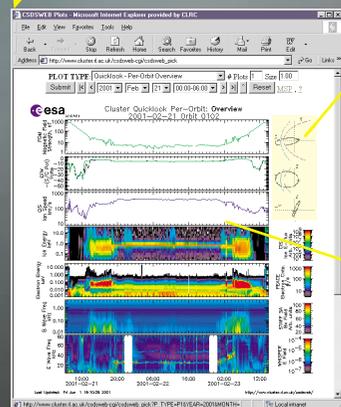
Clicking at a point on the plot brings up the survey plot for that orbit.



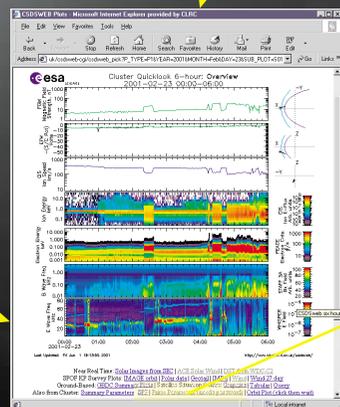
Click on the orbit thumbnail to check the orbit and configuration



Click to get 6 hour survey

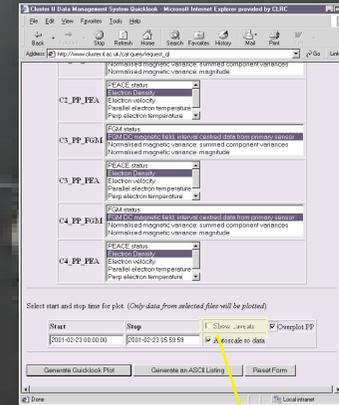


Click on the plot to zoom-in



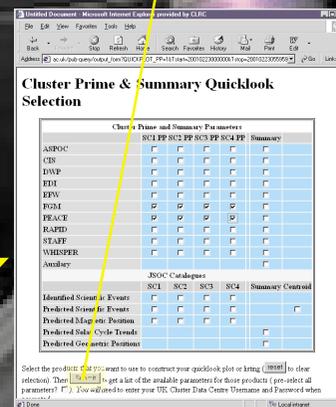
Select the PP option

Step 2: Using CDMS to look at multi-spacecraft data.

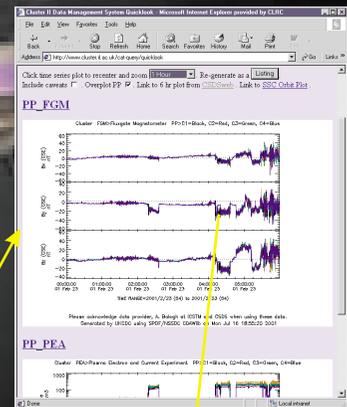


Select the instruments

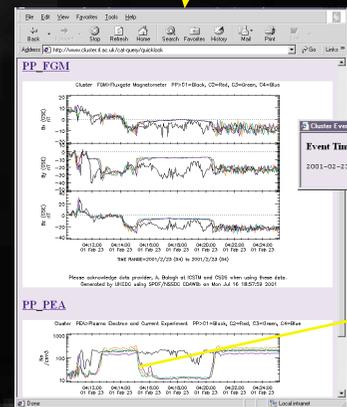
Remember to check the caveats. These provide useful information on the quality of the data



Pick the variables you want to plot.

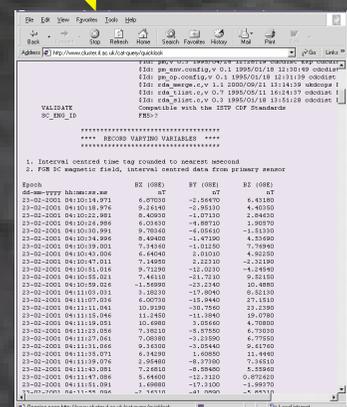


Click on the plot to zoom-in on a region of interest.



Click to show time

Clicking on the Listing button gives you the data as a text file.



The orbit survey plot provides ten minute resolution data from one spacecraft.

The six-hour survey plot shows the same data at one minute resolution

For higher resolution or multi-spacecraft data use the Prime Parameters.

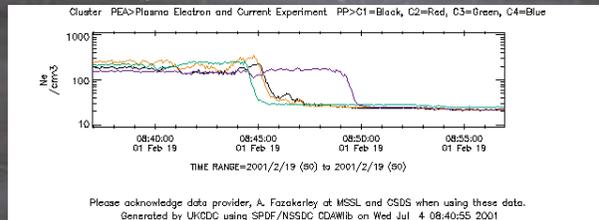
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New Features:

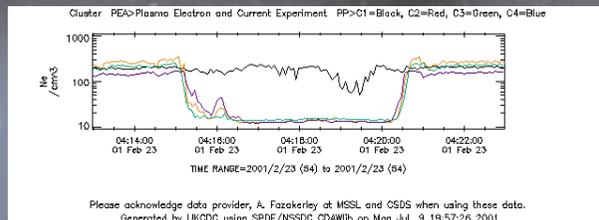
Overplot of Prime Parameter Data

This option allows users to overplot data from different spacecraft on the same panel. The parameters are colour coded according to the spacecraft number. This ability to overplot data makes inter-comparison of the four spacecraft data much more straightforward. To use this facility follow the normal process of selecting files and variables for the parameters that you want to plot. You will find a new checkbox labeled "Overplot PP" to the right of the Start/Stop inputs. Click on this checkbox to select overplot mode. You will also find a similar control on the plot page which allows you to switch between overplot and normal modes when using the zoom function.

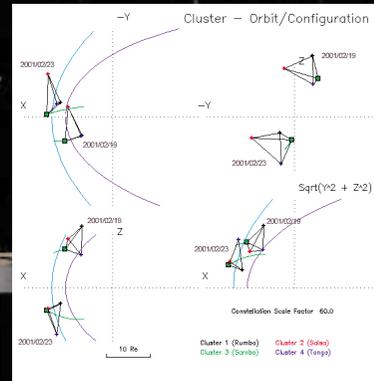
Example showing PEACE electron density from all four spacecraft during a Bow shock crossing on the 19th Feb 01, here we see that spacecraft 4 (blue) enters the solar wind about five minutes later than the other three spacecraft.



Here is another Bow shock example from PEACE, in this case three of the spacecraft (2, 3 and 4) enter the solar wind for a short period while spacecraft 1 remains in the higher density magnetosheath region.

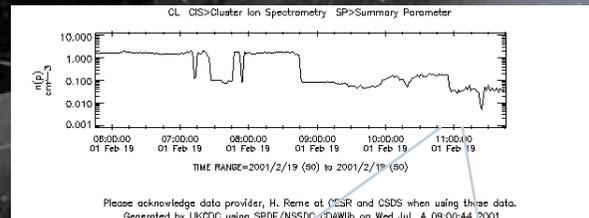


The spacecraft configuration during these events is shown in the figure on the right. Pre-rendered versions of these Orbit and Configuration plots are available from CSDSweb.

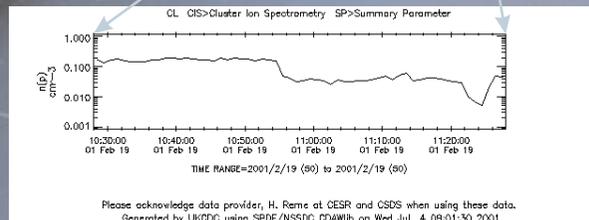


Time Zoom

The ability to change the time range of a plot simply by clicking inside any of the time series plot windows has been added. A pull down menu at the top of the screen allows selection of several different zoom factors and fixed time intervals. The plot will be re-centred based on where you click on the plot. In the following example we start with a plot of CIS ion density.



By selecting a time interval of "1 Hour" and clicking on the density drop just before 11:00, a new plot is automatically generated.



In the case of multiple plots per page, any can be used to select the new centre time and all are regenerated using the new time range. A useful "LISTING" button has also been added which will generate a text listing of the current plot parameters for the current time range

Show Time

The Show Time option is selected from the zoom range pull down menu. When selected, clicking on a time series plots will cause a small status window to be opened that displays the time corresponding to where the mouse was clicked.

Caveats Display

Caveats are important information that the PI teams add to the data files as part of a validation process prior to release to the data centres. They include status of the instrument and any particular quality concerns. Users are strongly recommended to review the caveats before working with the data. To simplify access to this information an option has been added that will allow the caveats information to be displayed when generating a plot or listing via the web system.

Database Contents Page

A database contents page is now accessible from the CDMS home page. This provides a quick view of the contents of the UKCDC database to allow users to check if data has been processed from a particular day of interest. Links to the left of the page will take the user to the corresponding data request page and automatically set the date of the request.

Active Links

Active links to CSDSweb and the NASA SSC page have been added to the plot page. In the case of the CSDSweb plot the nearest 6 hour overview plot to the centre of the selected time range will be displayed. For SSC web the four Cluster spacecraft will be preselected and the time range will be set to the time range of the current plot.