Data Grapher:

Selecting *Data Grapher* from the *Tools* menu will bring up a window (too large to show completely here) containing a plot view and several controls. These controls allow exploration the latest simulation by plotting the data produced. Initially the graph will be empty.

To get a plot of the data, use the following browsers in the *Data Grapher* window:

paste_15.tiff ¬

The first browser is a list of the current simulations. The second and third browsers contain the different data which *Inclination* has stored or calculated for the simulations. To make a plot of the data, select the desired data sets. Then select one of the values in the *x Value* browser to act as the x value and one or more items from the *y Value* browser to act as the y values. Now examine the following switches and button in the *Data Grapher* window:

paste_16.tiff ¬

If the *autoDisplay* switch is on then the data will be automatically plotted when any

change is made, otherwise click the *Plot* button to update any changes that have been made. The *grid* button toggles the graph grid on and off. The graph will display somewhat faster without the grid.

A plot should appear in the plot view. If not, then check the following:

paste_17.tiff ¬

This set of controls allows the user to see the minumum and maximum values of the data. Changing the sliders changes the range which is plotted. If the *From* field is equal to the *To* field then no data will be plotted. The *data skip* control allows the user to display a subset of data points by skipping every *n* data items.

There are a few options that change the atributes of the plot.

`paste_19.tiff ¬`

When multiple y-value plots are created, each y-value set will appear in the data sets list. The line color, line type, marker color and marker type can be changed for each set.

The plot created can be copied and pasted as a PostScript™ file or as a plot which can be pasted into applications like *Plot Editor*. The plot can be copied by selecting it then selecting *Copy* from the *Edit* menu.

Note: data for the *Data Grapher* is changed when a new simulation is run.