

11. Calculating Viewperiod Overlap with OVERLAP

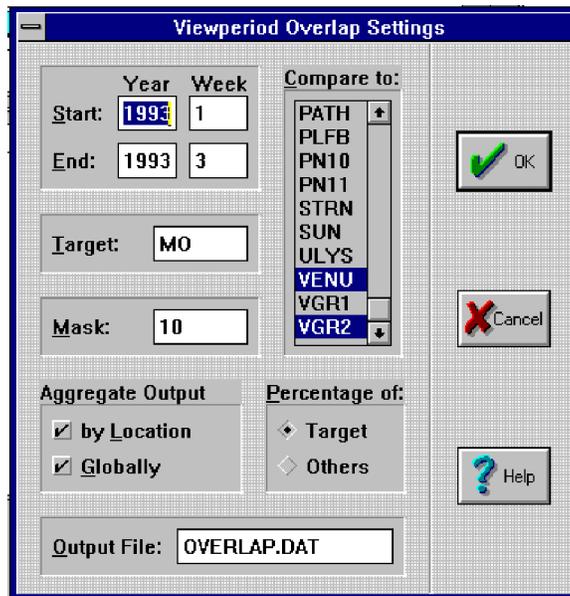
OVERLAP can generate tables of viewperiod overlap statistics showing the percentage of time various objects are overlapped with a selected target viewperiod object. This tool is available for DSN and project users.

11.1 Starting OVERLAP

- (1) From the Microsoft Windows Program Manager, double click on the FASTER group icon.
- (2) From the FASTER program group window, double click on the OVERLAP icon.



The “Viewperiod Overlap Settings” dialog box appears.



11.2 Entering Viewperiod Settings

- (1) Enter the following information in the “Viewperiod Overlap Settings” dialog box:
 - **Start Year**
 - **Start Week**
 - **End Year**
 - **End Week**

 - **Target** object with which overlap is to be calculated. This object must be in the viewperiod database for the time specified.

 - Desired viewperiod **Mask** (use **6** if no other information is known). OVERLAP attempts to use masks as close as possible to this number.

 - In the **Aggregate Output** group box, select whether overlap information should be aggregated **Globally** (an overall subnet overlap number) and/or **by Location** (an overlap number for Goldstone, one for Canberra, and one for Madrid).

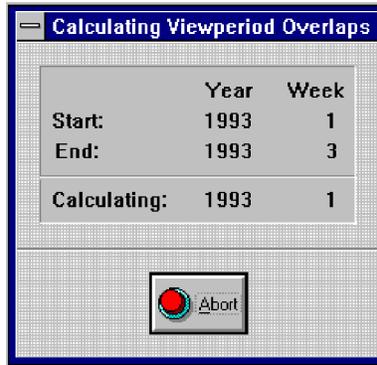
 - In the **Compare to** list box, select the viewperiod objects to be included for comparison against the target viewperiod object.

 - In the **Percentage of** group box, select whether percentage overlap should be expressed as a percentage of the **Target** viewperiod object’s time or as a percentage of each comparison viewperiod object's time (**Others**).

 - Enter a filename, *including path name of a directory where you have writing privileges* under which the overlap data will be stored.

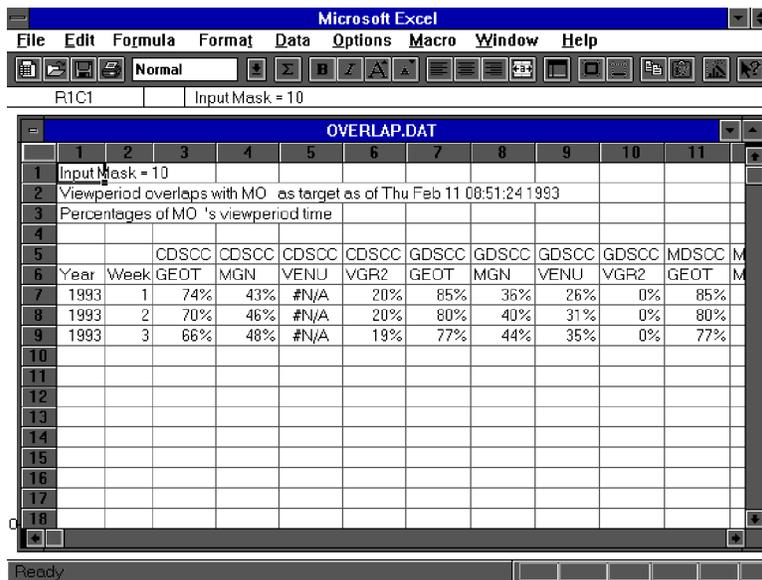
- (2) Click **OK**.

OVERLAP goes to work, displaying a “Calculating Viewperiod Overlaps” message window while it generates the overlap text file OVERLAP.DAT.



To terminate the run while OVERLAP is calculating, click the **Abort** button.

OVERLAP loads the file into an EXCEL worksheet.



- (3) To produce a chart of overlaps, use the Microsoft EXCEL Chart Wizard, as follows:
 - (a) Select the region of cells to be charted.

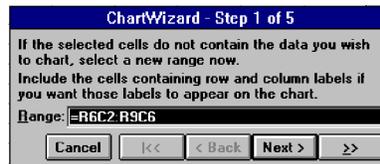
	2	3	4	5	6	7	8	9	10	11	12
4											
5		CDSCC	CDSCC	CDSCC	CDSCC	GDSCC	GDSCC	GDSCC	GDSCC	MDSCC	MDSCC
6	Week	GEOT	MGN	VENU	VGR2	GEOT	MGN	VENU	VGR2	GEOT	MGN
7	1	74%	43%	#N/A	20%	85%	36%	26%	0%	85%	36%
8	2	70%	46%	#N/A	20%	80%	40%	31%	0%	80%	40%
9	3	66%	48%	#N/A	19%	77%	44%	35%	0%	77%	44%
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- (b) Click on the **Chart Wizard** button (second to right-most button on button bar).



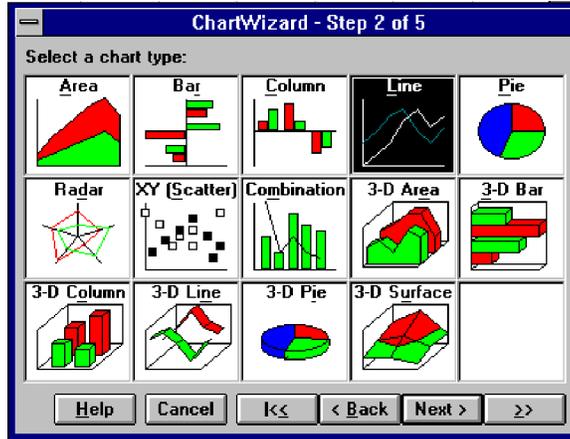
The cursor changes into a cross hair. Select a region of blank cells beneath the numbers. This defines the region in which the chart will be embedded.

The “ChartWizard Step 1 of 5” dialog box appears.



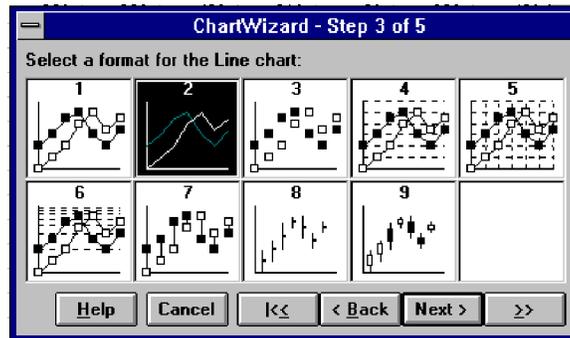
- (c) Click on the **Next>** button.

The “Chart Wizard Step 2 of 5” dialog box appears.



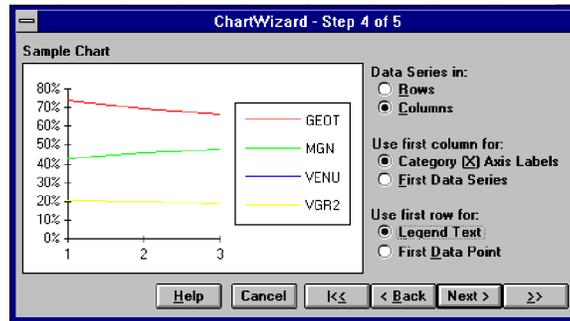
- (d) Click on the **Line** chart icon. Then click on the **Next>** button.

The “Chart Wizard Step 3 of 5” dialog box appears.



- (e) Select the **2** icon. Click on the **Next>** icon.

The “Chart Wizard Step 4 of 5” dialog box appears.

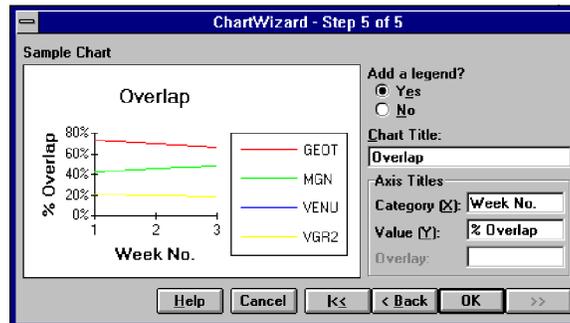


- (f) In the **Data Series in:** group, click on the **Columns** radio button.

In the **Use first row for:** group, click on the **Legend Text** radio button.

In the **Use first row for:** group, click on the **Next>** button.

The “Chart Wizard Step 5 of 5” dialog box appears.



- (g) Enter the following information:

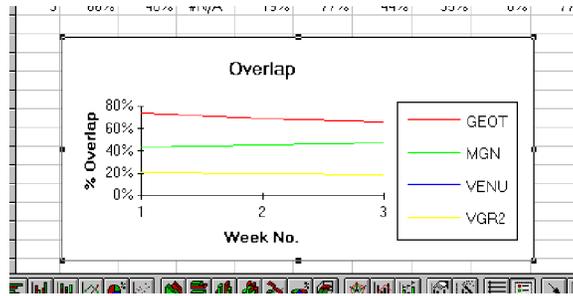
In the **Chart Title:** field, enter your chart’s title.

In the **Category (X):** field, enter the legend for the x-axis.

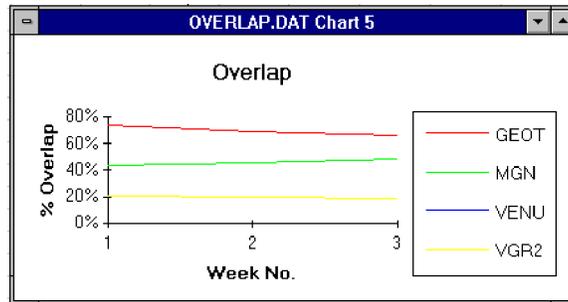
In the **Value (Y):** field, enter the legend for the y-axis.

Click **OK**.

EXCEL embeds the chart in the worksheet.

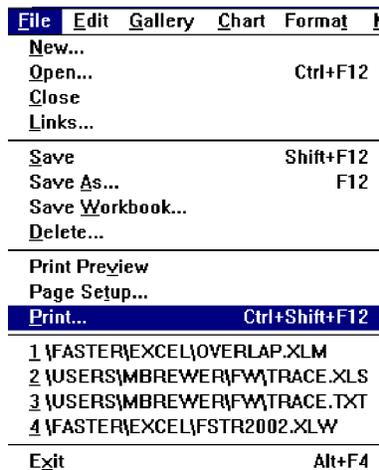


- (4) To print out the chart, double click on it. EXCEL turns it into an independent window that can then be printed out.

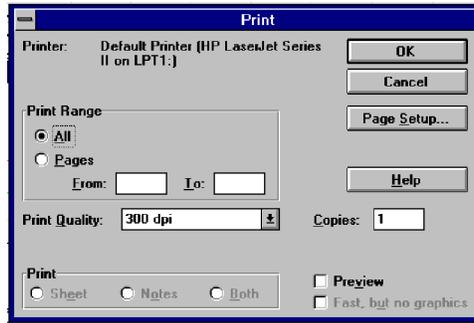


11.3 Printing the OVERLAP Chart

- (1) From the **File** pull-down menu, select *Print*.



The "Print" dialog box appears.



(2) Click **OK**. EXCEL prints out the chart.