

Magnetic Field Data Plots
(MAGPLT)
User's Guide

Veronica Kell
Data Management and Programming Office
Code 664
Goddard Space Flight Center
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MAGPLT
USER'S GUIDE

I. Purpose:

This program produces a CALCOMP plot tape of β , λ , and δ in one hour averages from PIONEER 15 minute average magnetic field data in either Solar-Heliographic or Pioneer Inertial coordinates. It is capable of plotting points from 1 DAY/PLOT to 31 DAYS/PLOT.

II. Input Required:

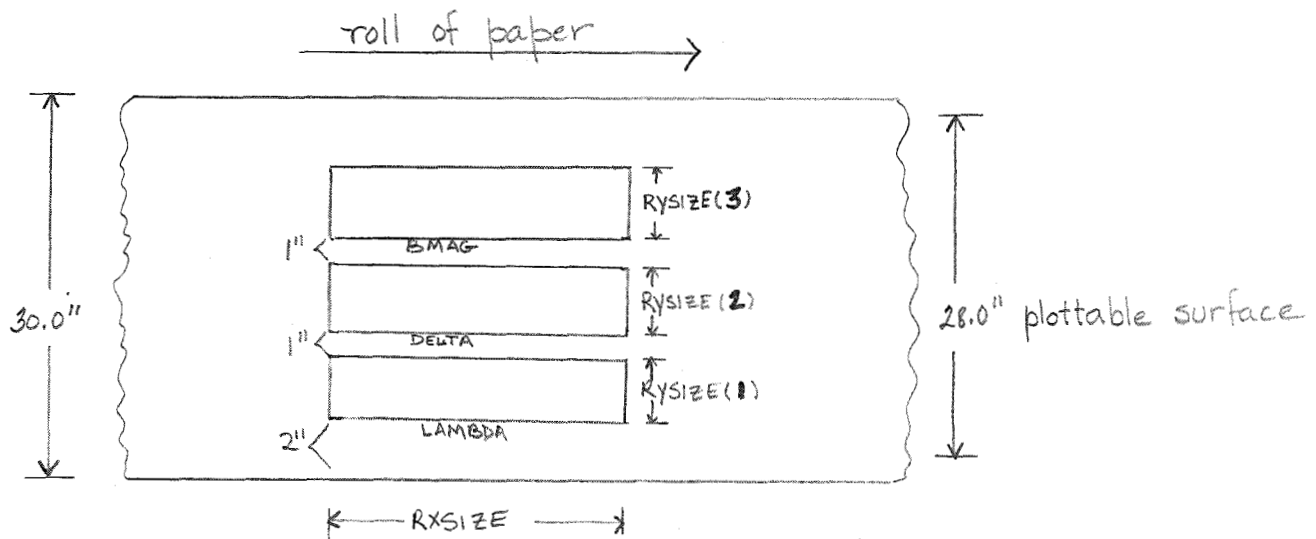
A. Magnetic Field Tape:

(generated from the MAGNETIC FIELD DATA BASE GENERATOR for the FOURIER program with INTRVL=900)

B. User NAMELIST:

<u>Parameter</u>	<u>Type</u>	<u>Default</u>	<u>Description</u>
INDATE(3)	3(I*4)	none required	YR,MONTH,DAY (separated by commas)
NDAYS	I*4	none required	Number of DAYS/PLOT
NUMPLT	I*4	1	Number of plot frames to be generated.
(NOTE: 1 plot frame consists of 3 plots β , λ , δ , and covers NDAYS days)			
ICORDS	I*4	0	Desired coordinate system: 0=PIONEER INERTIAL 1=SOLAR HELIOGRAPHIC 2=JUPITER ENCOUNTER
RXSIZE	R*4	11.0	Length of x-axis in inches
RYSIZE(3)	R*4	1.25 2.25 2.25	Length of y-axis for plots of Lambda, Delta, and B Magnitude, respectively, in inches. 3 $\sum_{I=1}^3 \text{RYSIZE}(i) + 4.0 \text{ in} \leq 28.0 \text{ in}$
4.0 inches spacing for labels.			
28.0 inches physical restraint on amount of paper to be used.			

DIAGRAM OF PLOTS *



* NOT TO SCALE

III. Output Generated:

1. CALCOMP Plot Tape
2. Listing that echoes the input parameters

6/18/81

IV. Error Handling:

<u>Message</u>	<u>Error and Recovery</u>
1. 'NUMBER OF DAYS PER PLOT GREATER THAN 31. 31 ASSUMED.'	NDAYS specified as being greater than 31. NDAYS will be set equal to 31, and processing will continue.
2. 'FREAD ERROR. PROCESSING TERMINATED'	READ ERROR. Any data generated will be plotted. Processing terminated. Check input tape for errors.

V. JCL:

1. Unit 10 is the input magnetic field tape //FT10F001 DD
2. PLOTTAPE is the output CALCOMP plot tape //PLOTTAPE DD

Source: SEVAK, MAGDABG.FORT (MAGPLT)
 _____ (TRIPLT)
 _____ (JDATEG)

jcl: SBPIO.LIB.CNTL(SMAGPLT)