DATA SET CATALOG #111

OGO-6
LYMAN ALPHA DATA

69-051A-12A 1 tape

69-051A-12A

This data set consists of one 800 BPI, 7-track, BCD tape.

D#	C#	File	Start	Stop
D-05975	C-04881	1	6/8/69 7:13	6/8/69 7:18

Note: As yet, only 1 tape of this data set has arrived. However, at least nine other tapes of this data set are expected, all of which will contain very small amounts of data. This data will be added to the one tape above and put in a separate file.

OGO-6-12 LYMAN-ALPHA TAPE FORMAT

ID Record

Characters		
1-10	bOGOb-b6bb	
11-20	bEXPbb12bb	Experiment Name
21-31	LYMAN-ALPHA	
32-40	blank	
41-50	REVbbXXXXX	XXXXX = Orbit Number in which data starts.
51-60	DAY 66 YYY bb	YYY = day number
61-70	DD/MM/YY bb	Date of background correction run
71-100	blank	

ne tape

Data Record

The data record will contain 4000 characters arranged into 40 frames of data which are 100 characters long.

Data Frame

	Data Word	Format
1.	Time (ms)	F9.0
2.	Scanner angle (deg)	F6.1
3.	Count rate (uncorrected) (counts/sec)	F8.0
4.	Count rate (with background correction) (counts/sec)	F8.0
5.	Data electrometer current (amps)	E9.2
6.	Calibration electrometer current (amps)	E9.2
7.	Experiment status	F2.0
8.	Look direction right ascension (GEI System) (deg)	F6.1
9.	Look direction declination (GEI System) (deg)	F6.1
10.	Look direction ecliptic longitude (GSE System) (deg)	F6.1
11.	Look direction ecliptic latitude (GSE System) (deg)	F6.1
12.	Altitude (km)	F7.1
13.	Satellite geodetic latitude (deg)	F6.1
14.	Satellite geodetic longitude (deg)	F6.1
15.	Solar-zenith angle (Sun-earth-satellite angle) (deg)	F6.1

The data will not be continuous due to several effects:

1) At the start of each input file several seconds of data is needed to initialize the routine which establishes the scanner angle; 2) The count data for scanner angles between 300 deg. and 60 deg. is not useful and is therefore edited out; 3) Dropouts in the input data are reflected in the output.

The only quantities which can take on both + and - values are the latitudes in words 9, 11, and 13. All other words will be positive. A substantial number of corrected count rates (word 4) will have zero values. Several conditions may cause this to happen: 1) The background data cannot be interpolated to provide a correction value; 2) The correction may be larger than the count rate (word 3); 3) A correction value is calculated only if the status (word 7) has a value of 2 or 6.

A double end-of-file will indicate the end of a tape.