PLANNING FOR THE FINAL MERGED LOG OF OBSERVATIONS

The IUE Project is actively planning the IUE Final Archive. An important aspect of this planning is the creation of the IUE Merged Log of Observations in its final format. Ideally the final log should provide all the necessary information about each IUE image for archival retrieval. The on-line version of the log should contain sufficient data to allow archival users to search the log for interesting information in the most useful and efficient manner.

The working version of the on-line format for the Final Merged Log of Observations (Table 1) is divided into four major sections. The first describes spacecraft specific information; the second contains science data as provided by the Guest Observer; the third contains IUE-defined homogenized science data; and the fourth holds processing and NSSDC maintenance information. Two additional fields have been suggested and are under active consideration: galactic coordinates and extended observer's comments concerning each image (e.g. comments concerning the quality of the data, unusual circumstances during acquisition, etc.).

The format for the on-line Final Merged Log of Observations is scheduled to be finalized at the next IUE Three-Agency Coordination Meeting which will be held May 2-4, 1989. The IUE Project is soliciting further questions and suggestions concerning the proposed final format from interested users. The topic will be discussed during the Signal-to-Noise Working Group Meeting to be held January 26 and 27, 1989. Suggestions and comments may be directed toward members of the Signal-to-Noise Working Group or directly to the IUE Project:

C/O Karen Levay
Code 684.9
Goddard Space Flight Center
Greenbelt, MD 20771

Electronic Mail Addresses:

SPAN ----- IUE::LEVAY
BITMAIL ----- ZEKLL @ SCFVM

TABLE 1

PROPOSED FINAL IUE ARCHIVE DATA BASE FORMAT - WORKING VERSION
NOVEMBER 1988

	FIELD LENGTH	FIELD NAME
	1	Camera Number 1; 2; 3; 4; 8; 9
	3	Camera LWP; LWR; SWP; SWR; FES
	6	Image Sequence Number
	11	Date/Start Time of Observation
	2	last two digits of year
	3	day of year
	2	hour of day
	2	minute of hour
	2	seconds of minute
	11	Modified HJD of Start Time of Observation (2400000.00000+)
	1	Aperture Large; Small; blank
	1	Dispersion Low; High; blank
	1	Trailed Exposure T
	1	Multiple Exposure M
	1	Broken Exposure B
S	1	Large Aperture Status Open; Closed
P	7	Internal Codes
A	1	record number of entry
C	1	multiplicity type Double; Wavecal
E	1	Lost image; Raw image only
C	1	abnormality code History replay
R	1	missing minor frames flag Yes; No
A	1	microphonics flag Yes; No
F	1	cosmic ray hit flag Yes; No
T	8	Length of Exposure
	4	minutes
	2	seconds
	2	decimal seconds
	2	FES Mode Fast; Slow/ Overlap; Underlap/ Blind
	5	FES Counts
	5	THDA at Start of Exposure (nnn.n)
	5	THDA at End of Exposure (nnn.n)
	4	UVC Voltage
	5	Focus
	3	FPM at Start of Exposure
	1	TRK Fes; Gyros; Both
	10	Guide Star Coordinates
	5	X-Value
	5	Y-Value
	7	Spacecraft Beta Angle
	7	Position Angle of Aperture
	1	Acquiring Station G;V

	5	Program ID
	14	Object ID
S	7	Right Ascension
C	2	hours
I	2	minutes
E	2	seconds
N	1	tenths of seconds
C	7	Declination
E	1	sign
	2	degrees
F	2	minutes
R	2	seconds
O	2	Object Class
M	6	Magnitude (+nn.nn)
	4	Spectral Type
G	3	Luminosity Class (MK type)
O	5	E(B-V)
	16	Observer's Name
	16	Primary Investigator's Name
	30	Comments (including TO comments)
	16	Homogeneous Object ID
	10	Popular Name
	7	Right Ascension (1950.0)
	2	hours
	2	minutes
H	2	seconds
O	1	tenths of seconds
M	7	Declination (1950.0)
O	1	sign
G	2	degrees
E	2	minutes
N	2	seconds
E	7	Right Ascension (2000.0)
O	2	hours
U	2	minutes
S	2	seconds
	1	tenths of seconds
S	7	Declination (2000.0)
C	1	sign
I	2	degrees
E	2	minutes
N	2	seconds
C	1	Proper motion applied to 2000.0? Yes; No
E	2	Homogeneous Object Class
	6	Magnitude (calculated from FES) (+nn.nn)
	4	Homogeneous Spectral Type
	3	Homogeneous Luminosity Class (MK type)
	5	Homogeneous E(B-V)

P	1	Processing Station
R	5	Processing Date (YYDDD)
O	6	Processing Scheme ID
C	6	Calibration File
E	1	Extraction Type (Point, Extended)
S	5	Release Date (YYDDD)
S	8	NSSDC Reblocked Tape/File
	5	NSSDC Reblocking Date (YYDDD)
	6	Raw Image Archive (RIA) tape
	3	Raw Image Archive file
	6	Condensed Data Archive (CDA) tape
	3	Condensed Data Archive file
	3	Condensed Data Archive (CDA) Mass Store volume
	3	Condensed Data Archive (CDA) member