

AVAILABILITY OF *IUE* NASA AND ESA SPECTRAL ATLASES ON MAGNETIC TAPE

The *IUE Ultraviolet Spectral Atlas* (Wu *et al.* 1983, *IUE NASA Newsletter* No. 22) and the *IUE Low-Dispersion Spectra Reference Atlas, Part 1. Normal Stars* (Heck *et al.* 1984, ESA SP-1052) are available on magnetic tape from the Astronomical Data Center, NSSDC/WDC-A-R&S. The former is an atlas of 468 spectral files of 173 standard stars and can be supplied on a single 2400-foot (732-m) magnetic tape in IBM/VBS blocked or in GO unblocked format at any of the standard densities, although 1600 and 6250 bpi are preferred because two tapes are required for 800 bpi. The VBS (variable blocked with spanned records) format contains a binary control word before each physical and each logical record which gives the length of the record and spanning information; hence, special software is required to process this format. However, for persons having access to IBM computers or the capability to process VBS tapes, this format offers distinct advantages for both the data center and for the recipient. Although the GO formatted Atlas requires approximately 200 additional feet of tape at the same density (due to many more end of record gaps) there is no real advantage if one tape is needed anyway; however, while the cost in computer time for the preparation of a blocked tape is approximately \$4.50, a GO formatted tape costs about \$47.50 to prepare, because the IBM charging algorithm assesses one I/O charge for each physical record transferred (there are 468 physical records on a blocked tape and 468×33 on a GO, or unblocked, tape of the Atlas). Of course, for those recipients using IBM or other machines which charge per physical record, the GO format will be a disadvantage on both ends.

The ESA Atlas contains flux tables of increment 5 Å in the wavelength range $\lambda\lambda 1155-3200$ Å for 229 normal stars observed with *IUE*. This Atlas is available as a single file of fixed length logical and physical records, although the latter can be modified according to user specifications. It can be written to the same tape as the NASA Atlas, if so desired, and will be recorded as the 469th file on the tape; alternatively, a second tape can be supplied for the ESA Atlas.

Both *IUE* atlases can be requested by completing the order form on the following page. Please give your full name: title (Dr., Mr., Ms., etc., first name and middle initial included) and specify the maximum block size (physical record length) that your machine can process and the recording mode (EBCDIC, ASCII) for the ESA Atlas, and supply the appropriate number of 732-m (preferably new) tapes (one or two for all densities but 800 bpi, two or three for the latter). Tapes should be sent with teflon strips and sponge bumpers applied inside the straps or cannisters to prevent unraveling and possible destruction in transit, and write rings in to avoid hub breakage.

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Space Administration

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REQUEST FORM FOR ASTRONOMICAL CATALOGS

Requester's name: _____

Address: _____

Telephone: () _____; Date: _____

Catalog(s) requested: (include catalog number and Status Report date)

Output form: magnetic tape (); microfiche (); microfilm ()
printout (); punched cards (); other ()

Data to be used for (please describe for our records):

Comments:

Tape description (9-track EBCDIC tape at ≥ 1600 bpi preferred)

Number of tracks: _____; Density: _____;

Internal code (EBCDIC/ASCII): _____.

Maximum block size (physical record length) in bytes (characters): _____.

Please forward this form to:

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