

## Databases at the IUEDAC

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In addition to the IUE Merged Observing Log, the IUEDAC has several other Project and spectral databases available. These include the IUE Reference Database, IUE Standard Stars table, IUE Observing Programs table, Kelly and Palumbo line list, Kurucz 1979 models, and the latest (as yet unpublished) Kurucz models.

Most of the databases have an IDL procedure specifically written for the purpose of accessing that database; for example, the procedure SEARCH accesses the IUE Merged Observing Log. Several of the tables may be accessed via the expert mode of the database software. Please see the writeup dbexpert.txt in the liuer.inf subdirectory or a member of the IUEDAC staff for assistance getting started with these procedures. These databases may be accessed on the IUE Alpha or installed on an user's home system. The Kurucz 1979 database is included in the main software compressed tar file. The other databases are available in separate compressed tar files. Please see the README file in the pub/software subdirectory of iuesn1.gsfc.nasa.gov's anonymous ftp account.

IUE Merged Observing Log consists of two tables, IUELOG and IUEFES. IUELOG contains a one-line description per aperture used for each observation made with one of four vidicon cameras on the IUE satellite. A description of each field is available in the liuer.inf iuelog.txt file. Presently the table is current for observations through the 10th of November 1994. It is updated four times a year. IUEFES contains a one-line description of archived Fine Error Sensor (FES) images. A description of each field is available in the liuer.inf iuefes.txt file. Presently the table is current for observations through the 23rd of May 1994. These tables may be accessed via the procedure SEARCH or the expert level database procedures.

IUE Reference Database consists of three tables, IUEJRNL, IUECOAU, and ALIAS. IUEJRNL is a table of IUE articles, including reference information, principal author, objects observed, and images used. IUECOAU is the table of coauthors of IUE articles. It is linked by article number to the IUEJRNL table. ALIAS is a table of object names. Since an astronomical object may have several names, each object is assigned an arbitrary number, which is linked to its various designations in the ALIAS table, and to the article(s) in which it appears in the IUEJRNL table. It is also used with the STDSTARS table (see below). A description of each field is available in the liuer.inf iuejrnل.txt, iuecoau.txt, and iuealias.txt files respectively. Presently the tables are complete for articles through 1993. The IUE images used and objects observed information is complete through 1985 and for the years 1990 through 1992. These tables may be accessed via the procedure IUSEREF or the expert level database procedures.

IUE Standard Stars table, STDSTARS, contains information on the IUE Standard Stars library. A description of each field is available in the liuer.inf stdstars.txt file. This table may be accessed via the procedure STDSTARS or the expert level database procedures.

IUE Observing Programs table, IUEPROG, lists the observing programs that received observing time on the IUE satellite. A description of each field is available in the liuer.inf iueprog.txt. Presently the table is current through May 1993. This table may be accessed via the expert level database procedures.

Kelly and Palumbo line list contains information about various spectral lines, such as their wavelength, chemical element, and ionization state. This table may be accessed via the procedure KANDP.

Kurucz 1979 Model Atmospheres may be accessed via the procedure KURUCZ.

The latest (as yet unpublished) Kurucz Model Atmospheres may be accessed via the procedures KURUCZ91, KURGET, or KURGET1, or via the expert level database procedures.