

IUE Image Processing News

Cathy Imhoff
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1. Final Archive ("NEWSIPS") Processing Update

The IPC continues to process SWP low-dispersion data obtained before 1990. So far we have processed and archived nearly 9000 images. The data files may be obtained from the NSSDC's NDADS system (see NASA IUE Newsletter No. 52, pg. 70, for instructions, or use the IUEDAC routine IUEFX).

We have just received the LWP calibration updates, so we now have the capability to process LWP images as well. The dataset that can now be processed includes all Goddard LWP low-dispersion images obtained before 1990.

NEWSIPS data users may now request to have specific images processed at high priority. This will allow researchers to have quick access to the Final Archive data that they need for their analyses. Please see the article on this capability in this newsletter for information.

The *NEWSIPS Processing Information Manual* was published in NASA IUE Newsletter No. 53. It is also available on request. For a copy of the manual or for more information, please contact Cathy Imhoff (301-794-1470 or imhoff@iuegtc.gsfc.nasa.gov).

2. IUE Database Improvements

Our IPC staff members continue to review and verify the IUE database. Virtually all the Goddard low-dispersion data obtained before 1990 have been verified. Staff members have nearly completed reviewing the SWP high-dispersion images in the database, and will soon start work on the LWP high-dispersion images. In addition, all images taken since 1992 have been verified as they are obtained and processed.

The IUEDAC periodically updates the IUE Merged Log, which includes many of the Final Archive Core Data Items from the verified IUE database. SEARCH and W_SEARCH (the widgetized version) provide the means to open the Merged Log and identify images of interest based on searches defined by the user. The user can determine if an image has been processed through the Final Archive NEWSIPS software either by examining the Final Archive Status Flag in the Merged Log, or by using IUEFX to attempt to retrieve the data from NSSDC.

3. Status of IUESIPS

We continue to process new, incoming IUE images with the IUESIPS software. The IUE Project plans to continue this until the Final Archive "NEWSIPS" processing system is ready to handle new images. A significant amount of work remains to be done (e.g. the high dispersion processing system is still in development), so this will not occur for some time.

4. IUEGTC Now on Internet

IUE staff members involved on IUE image processing, calibration, software, and data shipments work offsite at a CSC facility, GreenTec I, about 2 miles away from Goddard. Our computer IUEGTC is now available via Internet at iuegtc.gsfc.nasa.gov. Some of the people you may wish to contact are:

Cathy Imhoff	image processing	imhoff@iuegtc.gsfc.nasa.gov
Karen Levay	data shipments database	levay@iuegtc.gsfc.nasa.gov
Joy Nichols	calibration Final Archive algorithms software development	nichols@iuegtc.gsfc.nasa.gov

Note that the TOC and IUEDAC staff work on-site at Goddard. Their e-mail addresses are on the IUE computers located there (IUE, IUESOC, or IUEDAC). These computers are also on Internet (e.g. iuesoc.gsfc.nasa.gov).

5. Erratum

In the article "Chronology of Modifications to IUESIPS Output Products: 1985 - 1993", we listed several enhancements including the updated wavelength calibration. This was incorrectly noted in the introductory text as item 138 in the chronology list; it is actually item 143, which was implemented on April 1, 1988, at Goddard.