IUE Regional Data Analysis Facilities Bulletin No. 5
Updated Table of IUESIPS Configuration Entries

The configuration entries describe the modifications made to the IUE Spectral Image Processing System (IUESIPS) software which in some way affect the files contained on the Guest Observer tapes. Detailed descriptions of these changes are contained in references 1 - 3. To assist users in determining which modifications are relevant to their own data, the Regional Data Analysis Facilities (RDAFs) have available an online table of configuration entries which can be accessed by various sorting routines. A description of the RDAF table of configuration entries (called HISTORY.TXT) is given below.

#### **HISTORY.TXT** Format:

Each configuration entry is allotted at least four lines in the HISTORY.TXT file. These lines contain the configuration number, a description of the entry, a sorting key to determine what type of images were affected by the modifications, and the start and end dates at both Goddard and VILSPA for the time in which processed images were affected by the software configuration.

## Configuration Entry Number:

The configuration entry number appears in columns 1-5 of each of the 4 lines and describes the chronological order in which the configurations ended at Goddard. Entry numbers are either integer or real numbers (with at most one significant digit past the decimal point) between 1 and 124. Numbers ending in .7, .8 or .9 are special cases that are used to allow additional sorting information to be included in the table. For example, configuration number 87 (data missing from last spectral order) affected LWR and SWP images processed (at Goddard) between 11-10-81 and 5-5-82 but affected LWP images processed between 1-7-82 and 5-5-82. The additional LWP information was therefore listed under the special configuration number 87.7. The few entries with fractions less than .6 are unique configurations, and as such, are listed separately in the references cited below.

#### Description Line:

The first line (of the four used for each configuration entry) is a brief description of the IUESIPS modification. Because the description was limited to one line, it is necessarily brief and only meant as a rough guide for the user.

#### Application Line:

The line immediately following the description line contains 6 fields for describing the class or type of data affected by the modification. Only the

first five fields are currently defined and these are described in Table 1 below. The fields start in column 6, are each 1 character long, and are separated by a blank.

#### Goddard Start and End Dates:

The third line is reserved for the start and end date describing when the particular software configuration affected production image processing at GSFC. The start date always precedes the end date and the following format is used: two numbers for the day of the month, space, three letters for the month, space, and two numbers for the year (e.g. 01 feb 84). Blank entries for both the start and end date imply that the configuration entry did not affect any images processed at Goddard. The remainder of this line (starting in column 26) is reserved for an estimate of the percentage of images processed at Goddard which were affected by the configuration. These entries were generally included only when it was known that a small number of images were affected. Table 2 below lists the configuration numbers according to the year in which the configuration entries were closed.

#### VILSPA Start and End Dates:

The fourth line describes the start and end dates for when the particular configuration affected images processed at VILSPA. The information is in the same format as described for line 3. Blank entries for VILSPA dates can either mean that the entry is not relevent to images processed at VILSPA, or that VILSPA has not yet sent us this information. In cases where we know only the starting date, we have set the end date arbitrarily to 1-1-90. (It should be noted that the RDAF sorting routine ASSESS will not list out entries for which the appropriate start and end dates are blank.)

R. Thompson GSFC RDAF Manager

Table 1. Key to Application Line Fields

| FIELD | 1   | 2          | 3   | 4                                   | 5   |
|-------|---|------------|---|-------------------------------------|---|
| TITLE | Camera  | DISPERSION | EXTRACTION  | REGISTRATION                        | PROCESSING  |
|       | 0 - all<br>1 - LWP<br>2 - LWR<br>3 - SWP<br>4 - LWP &<br>5 - LWP &<br>6 - LWP & | SWP        | O - all/na S - small ap. L - large ap. E - extended or trailed P - pt. source R - raw image F - PI, GPI, GI or reseau f | O - all/na A - automatic M - manual | <pre>0 - all/na C - current or     standard cal. S - special     calibration L - label or     record 0 only X - effect is     insignificant</pre> |

(na = not appropriate)

## Examples:

- 4 H R O L O implies that the particular configuration entry affects
  LWP & SWP high dispersion raw image files. The registration
  method is not appropriate (na) and only the label or record O
  data is affected. (The last O has no current definition.)
- 5 H O O C O implies the entry affects LWR & SWP low dispersion images, the extraction and registration method is not appropriate, and it is applicable to all images processed with the current (i.e. standard) calibration techniques.
- O H O O X O implies that all high dispersion images are affected; however, the effect is considered insignificant.

Table 2. Processing Years in which Configurations Ended

| Year of    | Configuration Numbers |            |                                  |  |
|------------|-----------------------|------------|----------------------------------|--|
| Processing | Goddard               | Processing | VILSPA Processing (approximate)* |  |
| 1978       | 1 -                   | 33         | 1 - 31                           |  |
| 1979       | 34 -                  | 49         | 32 - 50                          |  |
| 1980       | 50 -                  | 64         | 51 - 59, 41, 74                  |  |
| 1981       | 65 -                  | 85         | 60 - 76, 45, 46, 49              |  |
| 1982       | 86 -                  | 98         | 77 - 98, 67, 73                  |  |
| 1983       | 99 -                  | 111        | 100 - 103, 106, 109              |  |
| 1984       | 112 -                 | 124        | 104 - 123                        |  |
| 1985       | ?                     |            | 124 - ?                          |  |

\* VILSPA entries with uncertain end dates: 61, 72, 85, & 110

# Examples:

An image processed at Goddard in 1981 would not be affected by configuration entries 1 through 64.

An image processed at VILSPA in 1983 would not be affected by entries 1 through 98 (although entries > 99 may be relevant).

## References:

- 1) Turnrose, B.E., and Harvel, C.A., "Techniques of Reduction of IUE Data: Time History of IUESIPS Configurations," NASA IUE Newsletter, February 1982, No. 16 (contains configuration entries 1 - 71)
- 2) Turnrose, B.E., Thompson, R.W., and Gass, J.E., "Techniques of Reduction of IUE Data: Time History of IUESIPS Configurations," NASA IUE Newsletter, September 1984, No. 25 (contains entries 1 111 with updates to some of those previously published)
- 3) Gass, J.E., and Thompson, R.W., "Techniques of Reduction of IUE Data: Time History of IUESIPS Configurations - 1984 Supplement," NASA IUE Newsletter, December 1985, No. 28 (contains entries 112 - 124)

### **IUESIPS** Configuration Entries

```
Background spectrum smoothed improperly at ends of orders
01
01
     000000
01
     03 apr 78 20 apr 78
     17 apr 78 14 jun 78
01
02
     Extracted SWP spectrum limited to 1000-1900 angstroms
     3 L 0 0 0 0
02
02
     03 apr 78 20 apr 78
02
     Extracted spectra contain erroneous negative fluxes
03
     000000
03
     03 apr 78 26 apr 78 20%
03
     17 apr 78 14 jun 78 20%
03
Ω4
     Region of image processed included target ring
04
     000000
04
     03 apr 78 27 apr 78
     17 apr 78 14 jun 78
04
     Wavelength regions where orders overlap were deleted
05
05
     0 0 0 0 0 0
05
     03 apr 78 08 may 78
05
     17 apr 78 14 jun 78
06
     Echelle ripple correction applied to whole order
     O H O O O O
06
     03 apr 78 11 may 78
06
     17 apr 78 14 jun 78
06
     VICAR label lists dispersion constants incorrectly
07
07
     0 0 0 0 L 0
07
     03 apr 78 11 may 78
     17 apr 78 14 jun 78
07
80
     VICAR label does not list processing date
80
     0 0 0 0 L 0
80
     03 apr 78 18 may 78
80
     17 apr 78 14 jun 78
09
     Extraction slit not centered on order (1-pixel error in OBSCRIBE)
09
     00000
     03 apr 78 18 may 78
09
     17 apr 78 14 jun 78
09
     Dispersion constants derived by WAVECAL slightly inaccurate
10
10
     00000
10
     03 apr 78 21 may 78
10
    17 apr 78 14 jun 78
    ITF based on single image at each exposure level
11
11
     500000
11
    03 apr 78 22 may 78
    17 apr 78 14 jun 78
11
12
     Whole image shifted to register orders
12
    0 0 0 0 0 0
    03 apr 78 22 may 78
12
    17 apr 78 14 jun 78
12
```

```
13
     Spectrum extracted by preliminary programs (SPIN, ROTATEH, COMPARE)
13
     0 L 0 0 0 0
13
     03 apr 78 22 may 78
13
     17 apr 78 14 jun 78
14
     Some error flags for reseaux and sat. pixels displaced by 14 data-pts
     000000
14
14
     03 apr 78 01 jun 78
     17 apr 78 01 feb 79
14
14.1 March 1978 reseau grid and disp. constants applied
14-1 0 0 0 0 0 0
14.1
14.1 17 apr 78 14 jun 78
14.2 Assigned wavelengths approximately 0.7 Angstroms too short
14.2 2 H O O O O
14.2
14.2 17 apr 78 15 jun 78
15
     Data quality flag does not distinguish gross & bkgnd reseaux
15
     0 L 0 0 0 0
15
     22 may 78 16 jun 78
15
     17 apr 78 01 feb 79
     Geometric correction based on erroneous reseau grid
16
     3 H O O O O
16
16
     03 apr 78 09 jun 78
     17 apr 78 01 feb 79
16
16.7 Geometric correction based on erroneous reseau grid
16.7 2 H O O O O
16.7 03 apr 78 01 jul 78
16.7 17 apr 78 01 feb 79
17
     Echelle ripple correction used non-optimal parameters
17
     2 H O O O O
17
     03 apr 78 07 jul 78
17
     17 apr 78 14 jun 78
     All spectra extracted with HT=9, DISTANCE=8.0
18
     18
18
     22 may 78 01 aug 78
18
19
     Header record may record image sequence no. as O
     0000L0
19
19
     03 apr 78 08 aug 78 20%
19
     17 apr 78 01 feb 79
20
     Preliminary line library used for WAVECAL
     2 L 0 0 X 0
20
20
     03 apr 78 11 aug 78
20
     17 apr 78 01 feb 79
21
     Incorrect offsets from small to large aperture
21
     2 L L O O O
21
     03 apr 78 30 aug 78
     17 apr 78 01 feb 79
21.7 Incorrect offsets from small to large aperture (-50 km/s error) **
21.7 2 H L O O O
21.7 03 apr 78 31 aug 78
21.7 17 apr 78 01 feb 79
```

```
21.1 Wavelength Scale is in error- correction: wave=-20 +1.0158*wave
21.1 3 L 0 0 0 0
21.1
21.1 15 jun 78 07 sep 78
     Registration of spectral orders done manually
22
22
     000000
22
     03 apr 78 10 sep 78
     17 apr 78 01 feb 79
22
23
     Header record may list the camera number incorrectly <e.g 13, 23)
23
     0 0 0 0 L 0
23
     02 sep 78 20 sep 78
23
     06 nov 78 01 feb 79
24
     Preliminary line library used for WAVECAL
24
     3 L 0 0 0 0
24
     03 apr 78 21 sep 78
     17 apr 78 01 feb 79
24
     Point source (HT=9) spectra extracted with DISTANCE=8 (too small)
25
25
     0 L L 0 0 0
25
     03 apr 78 25 sep 78
25
     17 apr 78 01 feb 79
26
     Wavelength coverage restricted by preliminary version of FICOR5
26
     00000
26
     02 oct 78 06 oct 78
26
27
     Automatic registration (DSPCON) used only 6 (vs. 12) sampling areas
27
     0 0 A 0 0
     10 sep 78 25 oct 78
27
27
28
     Vacuum-to-air correction not applied to single-aperture spectra
28
     2 L 0 0 0 0
28
     04 nov 78 15 nov 78
28
29
     Entire image photometrically corrected by FICOR
29
     3 H F O O O
29
     03 apr 78 10 dec 78
     17 apr 78 07 mar 79
29
30
     Entire image photometrically corrected by FICOR
30
     0 L F 0 0 0
30
     03 apr 78 13 dec 78
30
     17 apr 78 07 mar 79
     VICAR label doesn't list extraction OMEGA(90), HBACK(5), DISTANCE(?)
31
     0 L 0 0 L 0
31
31
     22 may 78 13 dec 78
31
     14 jun 78 05 jun 78
32
     VICAR label doesn't list information on automatic registration
32
     0 0 0 A L 0
32
     10 sep 78 13 dec 78
32
33
     Spectrum contains order 65 (at very edge of tube)
33
     3 H O O O O
33
     03 apr 78 19 dec 78
33
     17 apr 78 14 feb 79
```

```
34
     Entire image photometrically corrected
34
     2 H F 0 0 0
     03 apr 78 04 jan 79
34
     17 apr 78 07 mar 79
34
34.1 Geometric/wavelength processing used GSFC 23-May-78 calib. files
34.1 0 0 0 0 0 0
34.1
34.1 15 jun 78 01 feb 79
34.2 Geometric/wavelength processing used GSFC 08-Aug-78 calib files
34.2 3 L 0 0 0 0
34.2
34.2 07 sep 78 01 feb 79
     G.O. tape written incorrectly -- all known images reprocessed
35
35
     0 L 0 0 X 0
35
     19 jan 79 01 feb 79
35
36
     Some Images processed on the IBM 360 (VICAR label truncated)
     0 H O O L O
36
     25 apr 78 06 feb 79 75%
36
36
37
     Original IUESIPS file management system used -- not to worry
37
     0 0 0 0 X 0
37
     03 apr 78 09 feb 79
37
     17 apr 78 05 jun 79
38
     VICAR label does not list values of manual registration shifts
38
     0 0 0 M L 0
     03 apr 78 05 apr 79
38
38
     17 apr 78 01 feb 79
39
     Images designated as "do not process" were not processed!
39
     0 0 0 0 x 0
39
     03 apr 78 30 apr 79 2%
     17 apr 78 01 jan 90
39
40
     Improper scaling for neg. flux values (where abs(fmin)>abs(fmax))
40
     0 0 0 0 0 0
40
     03 apr 78 07 jun 79 5%
     17 apr 78 12 jul 79
40
41
     All spectra extracted with HT=5 (no extended-source processing)
     0 H L 0 0 0
41
     03 apr 78 14 jun 79
41
41
     17 apr 78 10 jan 80
42
     Redundant raw image of Pt spectrum written to tape
42
     0 0 R 0 X 0
42
     03 apr 78 19 jun 79
42
43
     G.O. tape does not contain header file
43
     0 0 0 0 X 0
43
     03 apr 78 02 jul 79
43
44
     20% exposure level of ITF was incorrect **** use SWPFIX
     3 0 0 0 0 0
44
44
     22 may 78 07 jul 79
44
     14 jun 78 07 aug 79
```

```
Non-optimal offsets from small to large aperture (lambda error)
45
45
     5 0 L 0 0 0
     03 apr 78 08 jul 79
45
45
     17 apr 78 10 mar 81
46
     Large aperture offset changed (no wavelength error)
     5 0 L 0 X 0
46
     03 apr 78 06 aug 79
46
     17 apr 78 10 mar 81
46
46.7 Large aperture offset changed (no wavelength error)
46.7 2 L L O X O
46.7 20 sep 79 29 oct 79
46.7 17 apr 78 10 mar 81
     WAVECAL image files contain gpi file
47
     0 0 F 0 0 0
47
     03 apr 78 09 oct 79
47
48
     Biweekly dispersion constants used to assign wavelengths
48
     0 L 0 0 C 0
48
     03 apr 78 29 oct 79
48
49
     Version-I line library used for wavelength calibration
49
     0 X 0 0 H 0
49
     03 apr 78 23 nov 79
     17 apr 78 10 mar 81
49
50
     Low-dispersion spectrum not given absolute calibration
50
     0 L 0 0 0 0
50
     03 apr 78 09 jan 80
     17 apr 78 12 jul 79
50
     ITF truncated at upper limit
51
51
     500000
51
     03 apr 78 08 jan 80
51
     17 apr 78 01 feb 80
52
     DISTANCE parameter for EXTLOW procedure specified incorrectly ***
52
     0 L 0 0 0 0
52
     22 may 78 01 mar 80
52
     14 jun 78 06 mar 80
53
     Absolute calibration based on Bohlin et al. (Astr. Ap., 1980)
53
     5 L 0 0 0 0
53
53
     12 jul 79 02 apr 80
54
     Version-II line library used for wavelength calibration
54
     0 H O O X O
54
     23 nov 79 18 apr 80
54
55
     Biweekly reseau grid used for geometric corrections
55
     5 0 0 0 C 0
55
     03 apr 78 18 jul 80
55
56
     Biweekly dispersion constants used to assign wavelengths
56
     5 H O O C O
56
     03 apr 78 18 jul 80
56
```

```
57
     Preliminary mean dispersion constants used to assign wavelengths
57
     5 L O O C O
     29 oct 79 18 jul 80
57
57
58
     Inaccurate automatic registration used
58
     5 0 0 A 0 0
58
     09 sep 78 18 aug 80
     25 jan 79 30 dec 80
58
     Version-III line library used for wavelength calibration
59
59
59
     18 apr 80 29 aug 80
59
59.1 Image sequence number in header record missing left-most digit
59.1 3 0 0 0 L 0
59.1 03 sep 80 18 sep 80
59.1 03 sep 80 30 sep 80
     Image processing used outdated procedures GEOM, FICOR, and EXTLOW **
     0 L 0 0 0 0
60
     22 may 78 04 nov 80
60
     14 jun 78 10 mar 81
60
61
     Non-perpendicular manual registration shifts used
     0 0 M 0 0
61
     22 may 78 04 nov 80
61
61
     14 jun 78 01 jan 90
62
     VICAR label missing AUTO/MANUAL message and scheme name
62
     0 H O O L O
     03 apr 78 04 nov 80
62
     17 apr 78 30 jan 81
62
62.7 VICAR label missing AUTO/MANUAL message and scheme name
62.7 0 L 0 0 L 0
62.7 03 apr 78 04 nov 80
62.7 17 apr 78 10 mar 81
63
     Non-perpendicular manual registration shifts used
     3 0 0 M 0 0
63
63
     04 nov 80 26 nov 80
63
64
     Copy of RAW image sent to NSSDC has incorrect ss, sl in VICAR label
64
     0 0 R 0 L 0
64
     10 dec 79 22 dec 80
64
65
     VICAR label lists DEC of target and SHIFT parameter incorrectly
     0 L 0 0 L 0
65
65
     04 nov 80 16 jan 81
65
     10 mar 81 17 jun 81
66
     Automatic registration of images in error by up to .4 pixels
66
     0 0 0 A X 0
66
     18 aug 80 19 jan 81
     30 dec 80 17 jun 81
66
67
     Temperature dependence of calibration files not taken into account
67
     5 L O O C O
67
     03 apr 78 03 mar 81
67
     17 apr 78 11 mar 82
```

```
Photometrically-corrected region slightly off-center
86
     5 L 0 0 0 0
68
     04 nov 80 03 mar 81
68
     10 mar 81 17 jun 81
68
69
     Un-photometrically corrected pixels possibly extracted
     0 L 0 0 0 0
69
     04 nov 80 05 mar 81
69
69
     10 mar 81 17 jun 81
     Unused region of VICAR label not filled with blanks
70
70
     0 + 0 + 0 + 0
70
     04 nov 80 06 mar 81
70
     10 mar 81 05 may 81
     Geometric/wavelength calibration used GSFC 13-Nov-78 calib. files
71
71
     500000
71
71
     01 feb 79 10 mar 81
     Use jun-79 - jun-80 mean dispersion constants
72
     5 H O O C O
72
     18 jul 80 30 apr 81
72
     10 mar 81 01 jan 90
72
     Temperature correction of calibration files not applied
73
     5 H O O C O
73
73
     03 apr 78 19 may 81
     17 apr 78 11 mar 82
73
     Background smoothed using only 2 pass 15-pt. running-average filter
74
     0 0 0 0 0 0
74
74
     03 apr 78 11 jun 81
74
     17 apr 78 30 dec 80
75
     Error in specifying region to be photometrically-corrected
75
     5 L 0 0 0 0
75
     10 jul 81 24 jul 81
75
76
     Potential loss of lines in raw image
76
     000000
76
     03 apr 78 14 aug 81 <<1%
76
     Non-optimal automatic registration of closely-spaced orders
77
77
     0 H O A O O
     10 sep 78 28 aug 81
77
77
     01 feb 79 11 mar 82
     Preliminary ITF used for LWP
78
     100000
78
78
     17 aug 81 03 nov 81
78
79
     Preliminary ITF extrapolation used in photometric correction
79
     0 L 0 0 0 0
79
     08 jan 80 10 jul 81
     01 feb 80 11 mar 82
79
79.7 Preliminary ITF extrapolation used in photometric correction
79.7 0 H O O O O
79.7 08 jan 80 10 nov 81
79.7 01 feb 80 11 mar 82
```

```
No flagging of LWR microphonic pings
80
     2 L 0 0 0 0
80
    03 apr 78 28 sep 81
80
     17 apr 78 11 mar 82
80
80.7 No flagging of LWR microphonic pings
80.7 2 H O O O O
80.7 03 apr 78 10 nov 81
80.7 17 apr 78 11 mar 82
     Microphonics flagged in VICAR label of raw image file
     2LROLO
81
     28 sep 81 10 nov 81
81
81
     Image processing used outdated procedures GEOM, FICOR and DATEXTH **
82
     5 H O O O O
82
82
     03 apr 78 10 nov 81
     17 apr 78 11 mar 82
82
82.7 Image processing used outdated procedures GEOM, FICOR and DATEXTH **
82.7 1 H O O O O
82.7 03 apr 78 07 jan 82
82.7 17 apr 78 11 mar 82
     Round-off error in header record dispersion constants
     5 L 0 0 0 0
83
     03 nov 80 16 nov 81
83
     10 mar 81 11 mar 82
83.7 Round-off error in header record dispersion constants
83.7 1 L 0 0 L 0
83.7 17 aug 81 16 nov 81
83.7 10 mar 81 11 mar 82
84
     Reseau file does not contain camera and image sequence number
84
     0 0 F 0 L 0
84
     03 apr 78 23 nov 81
84
     Possible slight automatic registration errors
85
     0 0 A 0 0
85
     10 sep 78 24 nov 81
85
85
     01 feb 79 01 jan 90
     Redundant end-of-label flag in NSSDC data file labels
86
86
     000010
     10 dec 79 29 apr 82
86
86
     Data missing from last extracted spectral order
87
     5 H O O O O
87
87
     10 nov 81 05 may 82
87
     11 mar 82 07 jul 82
87.7 Data missing from last extracted spectral order
87.7 1 H O O O O
87.7 07 jan 82 05 may 82
87.7 11 mar 82 07 jul 82
88
     Possible error in observation date (used in helio. velocity corr.)
88
     0 H O O O O
     10 nov 81 05 may 82 2%
88
88
     11 mar 82 07 jul 82
```

```
88.7 Possible error in observation date (listed in VICAR label & header)
88.7 0 L 0 0 L D
88.7 04 nov 80 06 may 82 2%
88.7 10 mar 81 07 jul 82
     Error in handling negative declination values
     0 0 0 0 0 0
89
89
     10 nov 81 05 aug 82 50%
     11 mar 82 19 oct 82 50%
89
     Error in scaling net ripple-corrected fluxes
90
90
     0 H O O O O
90
     10 nov 81 05 aug 82
     11 mar 82 16 jul 82
90
91
     Photometric correction not limited to partial read boundaries
     5 L F O X O
91
     04 nov 80 27 aug 82
91
     10 mar 81 19 oct 82
91
91.7 Photometric correction not limited to partial read boundaries
91.7 1 L F O X O
91.7 17 aug 81 27 aug 82
91.7 10 mar 81 19 oct 82
     Photometrically-corrected region not centered between apertures
92
92
     5 L F O X O
92
     04 nov 80 27 aug 82
     10 mar 81 19 oct 82
92
92.7 Photometrically-corrected region not centered between apertures
92.7 1 L F O X O
92.7 17 aug 81 27 aug 82
92.7 10 mar 81 19 oct 82
     Old echelle ripple correction used to calculate ABNET flux
93
93
     0 0 0 0 0 0
93
     03 apr 78 27 aug 82
     17 apr 78 19 oct 82
93
     Non-optimal offsets used from small to large aperture
94
94
     10L000
94
     17 aug 81 21 sep 82
94
     10 mar 81 19 oct 82
95
     Use of mar-79 - jan-81 mean dispersion constants
95
     5 H O O C O
95
     30 apr 81 21 sep 82
95
95.7 Use of mar-79 - jan-81 mean dispersion constants
95.7 5 L 0 0 C 0
95.7 03 mar 81 21 sep 82
95.7
96
     Dispersion constants based on single image from jun 17 1981
96
     1000c0
     17 aug 81 21 sep 82
96
     11 mar 82 19 oct 82
96
97
     Noise conditioning filter not used for LWP (high dispersion)
97
     1 H O O O O
97
    10 nov 81 11 oct 82
97
    11 mar 82 19 oct 82
```

```
98
    No flagging of bright spots
98
    000000
    03 apr 78 19 nov 82
98
    17 apr 78 19 oct 82
98
    MICRO entry in VICAR label of SWP and LWP raw images
99
    4 L R O L O
99
    28 sep 81 31 jan 83
99
99
99.7 MICRO entry in VICAR label of SWP and LWP raw images
99.7 4 H R O L O
99.7 10 nov 81 31 jan 83
99.7
100 Possible default to mean temperature for correcting calib. files
100 5 L 0 0 0 0
100 03 mar 81 24 feb 83 <1%
100 11 mar 82 31 may 83
100.7Possible default to mean temperature for correcting calib. files
100.75 H O O O O
100.719 may 81 24 feb 83 <1%
100.711 mar 82 31 may 83
101 Non-perpendicular manual registration shift (error insignificant)
101 0 0 0 M X 0
    21 sep 82 24 feb 83
101
    19 oct 82 31 may 83
101
102 Use of jun-80 - aug-82 dispersion constants without temperature corr.
102
    1000c0
    21 sep 82 12 apr 83
102
102 19 oct 82 11 oct 83
103 Possible corruption of temperature data in VICAR label
103 000000
103 03 apr 78 09 may 83 <<1%
103 17 apr 78 20 sep 83
    Automatic registration without avoiding microphonic noise (>1 region)
104
104
    200AX0
104 24 nov 81 19 may 83 <<1%
    11 mar 82 27 apr 84
104
    Automatic registration without avoiding microphonic noise (1 region)
105
105
    2 0 0 A X 0
    31 jan 83 19 may 83 <10%
105
105
106 Background mean filter width of 30 data pts used (instead of 31)
106 0 L 0 0 X 0
106 04 nov 80 22 jul 83
    10 mar 81 11 oct 83
106
107 Error handling images with > 1 region of microphonic noise
107 2 L 0 0 0 0
107 28 sep 81 21 jul 83 <<1%
107 11 mar 82 27 apr 84
107.7Error handling images with > 1 region of microphonic noise
107.72 H O O O O
107.710 nov 81 25 jul 83 <<1%
107.711 mar 82 27 apr 84
```

```
108 Possible error in calculated observing date (used in helio. vel. corr.)
108 5 H O O O O
108 11 mar 82 27 apr 84
108.7Possible error in calculated observing date (listed in label & header)
108.75 L 0 0 L 0
108.704 nov 80 27 jul 83 <5%
108.710 mar 81 27 apr 84
108.8Possible error in calculated observing date (listed in label & header)
108.81 H O O O O
108.807 jan 82 12 jul 83 <5%
108.811 mar 82 27 apr 84
108.9Possible error in calculated observing date (listed in label & header)
108.91 L O O L O
108.917 aug 81 27 jul 83 <5%
108.911 mar 82 27 apr 84
109 No absolute calibration used for low dispersion LWP ABNET flux
109
    1 L 0 0 0 0
109 03 apr 78 19 oct 83
109 17 apr 78 11 oct 83
110 No method for identifying modified VICAR label parameters
110 0000L0
110 03 apr 78 19 oct 83 <1%
110 17 apr 78 01 jan 90
111 Inaccurate message 'MEAN DC USED' in label of corrected LWP images
111 1 L O O L O
111 12 apr 83 09 nov 83
111 11 oct 83 17 oct 84
112 TFLOOD reseau used in wavelength calibration procedure
112 1 0 0 0 X 0
112 21 sep 82 20 jun 84
112 17 apr 78 17 oct 84
112.7TFL00D reseau used in wavelength calibration procedure
112.75 0 0 0 X 0
112.718 jul 80 20 jun 84
112.717 apr 78 17 oct 84
113 Incomplete VICAR labels for history replay images
113 0000L0
113 09 aug 78 06 apr 84 <<1%
113 17 apr 78 01 jan 90 <<1%
114 Spurious characters in dispersion constants listed in label
114 OLOOLO
114 04 nov 80 09 may 84
    10 mar 81 17 oct 84
114
115 Non-optimum omega angle used for LWP low dispersion spectra
115 1 L 0 0 0 0
115 22 may 78 20 jun 84
115 14 jun 78 17 oct 84
116 Non-photometrically corrected 255 DN pixels possibly extracted
116 0 L 0 0 X 0
116 04 nov 80 20 jun 84
116 10 mar 81 17 oct 84
```

```
117 Inaccurate 'MEAN DC USED' message in VICAR label
117 1 H O O L O
117 12 apr 83 20 jun 84
117
    11 oct 83 17 oct 84
118 Time correction not applied to DC's if no THDA in VICAR label
118 5 L O O C O
118 03 mar 81 20 jun 84 <10%
118.7Time correction not applied to DC's if no THDA in VICAR label
118.75 H O O C O
118.719 may 81 20 jun 84 <10%
118.711 mar 82 17 oct 84
119 Use of jan-80 - aug-82 mean dispersion constants
119 5 0 0 0 C 0
119
    21 sep 82 20 jun 84
119 19 oct 82 17 oct 84
120 Use of jun-80 - mar-83 mean LWP dispersion constants
120 1 0 0 0 C 0
120
    12 apr 83 20 jun 84
120
    11 oct 83 17 oct 84
121
    Minor errors in PBI fluxes
121
    0 L F 0 X 0
121 04 nov 80 11 jul 84
121 10 mar 81 17 oct 84
121.7Minor errors in PBI fluxes
121.75 H F O X O
121.710 nov 81 11 jul 84
121.711 mar 82 17 oct 84
121.8Minor errors in PBI fluxes
121.81 H F O X O
121.807 jan 82 11 jul 84
121.811 mar 82 17 oct 84
122 Extrapolated pixels possibly handled incorrectly in PHOTOM
122 0 L 0 0 0 0
122 04 nov 80 11 jul 84
122 10 mar 81 17 oct 84
122.7Extrapolated pixels possibly handled incorrectly in PHOTOM
122.75 H O O O O
122.710 nov 81 11 jul 84
122.711 mar 82 17 oct 84
122.8Extrapolated pixels possibly handled incorrectly in PHOTOM
122.81 H O O O O
122.807 jan 82 11 jul 84
122.811 mar 82 17 oct 84
123 Possible extraction of uncorrected O DN pixels for background
123 5 H O O X O
123
    10 nov 81 11 jul 84
123
   11 mar 82 17 oct 84
123.7Possible extraction of uncorrected 0 DN pixels for background
123.71 H O O X O
123.707 jan 82 11 jul 84
123.711 mar 82 17 oct 84
```

124 Non-optimum echelle ripple correction used

124 1 H O O O O

124 27 aug 82 17 dec 84 124 11 mar 82 10 jun 85