#733

IRAS

IR Telescope

Faint Source catalog V2.0 (Long)

83-004A-01r ASIR-00042

Faint Source Reject File (FSR)

83-004A-01s ASIR-00061

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## 1. INTRODUCTION:

The documentation for this data set was originally on paper, kept in NSSDC's Data Set Catalogs (DSCs). The paper documentation in the Data Set Catalogs have been made into digital images, and then collected into a single PDF file for each Data Set Catalog. The inventory information in these DSCs is current as of July 1, 2004. This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system. The information existing in the DSCs is now not needed for locating the data files, but we did not remove that inventory information.

The offline tape datasets have now been migrated from the original magnetic tape to Archival Information Packages (AIP's).

A prior restoration may have been done on data sets, if a requestor of this data set has questions; they should send an inquiry to the request office to see if additional information exists.

2. ERRATA/CHANGE LOG:

NOTE: Changes are made in a text box, and will show up that way when displayed on screen with a PDF reader.

***When printing, special settings may be required to make the text box appear on the printed output.***

| Version | Date | Person | Page | Description of Change |
|---|---|---|---|---|
| 01 | | | | |
| 02 | | | | |

3 LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC INFORMATION SYSTEM:

http://nssdc.gsfc.nasa.gov/nmc/

[NOTE: This link will take you to the main page of the NSSDC Master Catalog. There you will be able to perform searches to find additional information]

4. CATALOG MATERIALS:

a. Associated Documents To find associated documents you will need to know the document ID number and then click here.
http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/

b. Core Catalog Materials

IRAS

IR Telescope

Faint Source Catalog V2.0(Long)
83-004A-01r ASIR-00042

Faint Source Reject File (FSR)
83-004A-01s ASIR-00061

This data set consists of one, 8 mm, low density tape. The FITS files are written to tape using TAR. The FITS headers are written in ASCII and the data are in binary form. The TAR listing, stating the size, name of the files, and the generation date of each file is included on the following pages. A sample of the FITS header from the first file has been printed for convenience.

The C tape is on a 4 mm tape written in the same format. The D and C numbers, along with the number of files follows:

| D# | C# | File | File Name | |
|---|---|---|---|---|
| D-101541 | C-030663 | 1 | FSC.Data | (250meg) |
| | | | FSC.Assoc | (34meg) |
| | | 2 | FSR.Data | (855meg) |
| | | | FSR.Assoc | (46meg) |

Documentation:
IRAS Faint Source Survey Explanatory Supplement Version 2. B42199-000A

Edited Form of FITS Header on D101541, File 1

```
fsc.data   777       0       0  1667067
400  5206546770   5630
SIMPLE  =                    T / Standard FITS format
BITPIX  =                    8 / Character data
NAXIS   =                    0 / No image data array present
EXTEND  =                    T / There may be standard extensions
BLOCKED =                    T / Tape may be blocked to multiples of 2880
END


XTENSION= 'TABLE   '           / Table extension
BITPIX  =                    8 / Character data
NAXIS   =                    2 / Simple 2-D matrix
NAXIS1  =                 1440 / Number of characters per record
NAXIS2  =               173044 / Number of records in the file
PCOUNT  =                    0 / No "random" parameters
GCOUNT  =                    1 / Only one group
TFIELDS =                  328 / Number of data fields per record
EXTNAME = 'FSC_DATA'           / IRAS Faint Source Catalog - main data file
AUTHOR  = 'IPAC    '           / Infrared Processing and Analysis Center
REFERENC= 'Version 2.0'        / Catalog reference
DATE    = '19/05/92'           / Date file was generated (dd/mm/yy)

COMMENT This FITS header is NOT a complete scientific document for the subject
COMMENT catalog.  It serves only as a minimal description of the general
COMMENT format and structure of the data file.


COMMENT A copy of "Explanatory Supplement to the Faint Source Survey",
COMMENT Version 2, should be used to answer questions about the data
COMMENT in the FSC.
COMMENT Names which refer to each of the four IRAS bands of 12, 25, 60 and
COMMENT 100 microns are suffixed with the numerals 12, 25, 60 and 100.
COMMENT For example FNU_12 is the flux density at 12 microns.

TTYPE1  = 'NAME    '           / Source name
TBCOL1  =                    1 / Start column
TFORM1  = 'A12     '           / Fortran format

TTYPE2  = 'FCAT    '           / Final catalog flag
TBCOL2  =                   13 / Start column
TFORM2  = 'A1      '           / Fortran format

TTYPE3  = 'RAH     '           / Hours RA, equinox B1950.0, epoch 1983.5
TBCOL3  =                   14 / Start column
TFORM3  = 'I2      '           / Fortran format
TUNIT3  = 'HR      '           / Units are hours of time

TTYPE4  = 'RAM     '           / Minutes RA, equinox B1950.0, epoch 1983.5
TBCOL4  =                   16 / Start column
TFORM4  = 'I2      '           / Fortran format
TUNIT4  = 'MIN     '           / Units are minutes of time

TTYPE5  = 'RAS     '           / Seconds RA, equinox B1950.0, epoch 1983.5
TBCOL5  =                   18 / Start column
TFORM5  = 'F3.1     '          / Fortran format
TUNIT5  = 'SEC     '           / Units are seconds of time

TTYPE6  = 'DECSIGN '           / Sign of DEC, equinox B1950.0, epoch 1983.5
TBCOL6  =                   21 / Start column
TFORM6  = 'A1      '           / Fortran format

TTYPE7  = 'DECD    '           / Degrees DEC, equinox B1950.0, epoch 1983.5
```

```
TBCOL7  =                   22 / Start column
TFORM7  = 'I2      '           / Fortran format
TUNIT7  = 'DEG     '           / Units are degrees

TTYPE8  = 'DECM    '           / Minutes DEC, equinox B1950.0, epoch 1983.5
TBCOL8  =                   24 / Start column
TFORM8  = 'I2      '           / Fortran format
TUNIT8  = 'ARCMIN  '           / Units are minutes of arc

TTYPE9  = 'DECS    '           / Seconds DEC, equinox B1950.0, epoch 1983.5
TBCOL9  =                   26 / Start column
TFORM9  = 'I2      '           / Fortran format
TUNIT9  = 'ARCSEC  '           / Units are seconds of arc

TTYPE10 = 'RAH_2000 '          / Hours RA, equinox J2000.0, epoch 1983.5
TBCOL10 =                   28 / Start column
TFORM10 = 'I2      '           / Fortran format
TUNIT10 = 'HR      '           / Units are hours of time

TTYPE11 = 'RAM_2000 '          / Minutes RA, equinox J2000.0, epoch 1983.5
TBCOL11 =                   30 / Start column
TFORM11 = 'I2      '           / Fortran format
TUNIT11 = 'MIN     '           / Units are minutes of time

TTYPE12 = 'RAS_2000 '          / Seconds RA, equinox J2000.0, epoch 1983.5
TBCOL12 =                   32 / Start column
TFORM12 = 'F3.1    '           / Fortran format
TUNIT12 = 'SEC     '           / Units are seconds of time

TTYPE13 = 'DECSIGN_2000'       / Sign of DEC, equinox J2000.0, epoch 1983.5
TBCOL13 =                   35 / Start column
TFORM13 = 'A1      '           / Fortran format
```

Tar List and Commands Used To Obtain List

```
$ mount/for/blocksize=10240/density=1600/record=512 -
   $1$mua80: fsc_long_form

$ tar tf $1$mua80:

   777 249327360 May 20 22:08:56 1992 fsc.data
   777 33995520  May 20 22:02:39 1992 fsc.assoc


$ tar tf $1$mua80:
tar: EOF hit on tarfile.


$ tar tf $1$mua80:

  755 854807040 May 22 18:21:34 1992 fsr.data
  755 45912960  May 22 18:24:25 1992 fsr.assoc
```

```
TTYPE9  = 'A_RA    '            / Association Right Ascension, 1950.0
TBCOL9  =                    53 / Start column
TFORM9  = 'F9.5    '            / Fortran format
TUNIT9  = 'DEGREES '            / Units are degrees

TTYPE10 = 'A_DEC   '            / Association Declination, 1950.0
TBCOL10 =                    62 / Start column
TFORM10 = 'F9.5    '            / Fortran format
TUNIT10 = 'DEGREES '            / Units are degrees

TTYPE11 = 'IDTYPE  '            / Type of associated object (bit-encoded)
TBCOL11 =                    71 / Start column
TFORM11 = 'I2      '            / Fortran format

TTYPE12 = 'WINDOW  '            / Catalog-dependent association window
TBCOL12 =                    73 / Start column
TFORM12 = 'I3      '            / Fortran format
TUNIT12 = 'ARCSEC  '            / Units are seconds of arc

TTYPE13 = 'RADIUS  '            / Radius vector from IRAS source to association
TBCOL13 =                    76 / Start column
TFORM13 = 'F4.1    '            / Fortran format
TUNIT13 = 'ARCSEC  '            / Units are seconds of arc

TTYPE14 = 'POS     '            / Position angle from IRAS source to association
TBCOL14 =                    80 / Start column
TFORM14 = 'F4.1    '            / Fortran format
TUNIT14 = 'DEG     '            / Units are degrees, measured East of North

TTYPE15 = 'DSTMAJOR'            / Distance from IRAS source to association
                                / along major axis of IRAS uncertainty ellipse
TBCOL15 =                    84 / Start column
TFORM15 = 'F4.1    '            / Fortran format
TUNIT15 = 'ARCSEC  '            / Units are seconds of arc

TTYPE16 = 'DSTMINOR'            / Distance from IRAS source to association
                                / along minor axis of IRAS uncertainty ellipse
TBCOL16 =                    88 / Start column
TFORM16 = 'F4.1    '            / Fortran format
TUNIT16 = 'ARCSEC  '            / Units are seconds of arc

TTYPE17 = 'FIELD1  '            / Object field #1, catalog dependant
TBCOL17 =                    92 / Start column
TFORM17 = 'I4      '            / Fortran format
COMMENT FIELD1 through FIELD3 contain the value -999 when there is no
COMMENT information for that field for a given catalog. Values of 9999
COMMENT indicate the field has saturated. For some catalogs FIELD3
COMMENT contains 0 when there is no information instead of -999. Read
COMMENT the supplement (referenced above) to learn which catalogs put a
COMMENT value in each of the fields.

TTYPE18 = 'FIELD2  '            / Object field #2, catalog dependant
TBCOL18 =                    96 / Start column
TFORM18 = 'I4      '            / Fortran format

TTYPE19 = 'FIELD3  '            / Object field #3, catalog dependant
TBCOL19 =                   100 / Start column
TFORM19 = 'I4      '            / Fortran format

TTYPE20 = 'FNUPSC_12'           / Non-color corrected flux density
                                / of PSC association at 12 mu
TBCOL20 =                   104 / Start column
TFORM20 = 'I5      '            / Fortran format
```

| NAME | KEYFSS | IDRECNO | NID | IDSEQNO | CATNO | SOURCE | TYPE | A_RA | A_DEC | IDTYPE | WINDOW | RADIUS | POS | DSTMAJOR | DSTMINOR | FIELD1 | FIELD2 | FIELD3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A12 | I7 | I7 | I2 | I2 | I2 | A15 | A5 | F9.5 | F9.5 | I2 | I3 | F4.1 | F4.1 | F4.1 | F4.1 | I4 | I4 | I4 |
| | | | | | | | | DEGREES | DEGREES | | ARCSEC | ARCSEC | DEG | ARCSEC | ARCSEC | | | |
| Z00000+6549 | 707214 | 1054630 | 6 | 1 | 13 | 10937 | G0 | 0.00611 | 65.82069 | 1 | 0 | 4.5 | 67.9 | 3.7 | 2.6 | 60 | -999 | 0 |
| Z00000+6549 | 707214 | 1054630 | 6 | 2 | 13 | 10938 | A2 | 0.01566 | 65.82181 | 1 | 0 | 19.1 | 72.6 | 14.8 | 12.1 | 75 | -999 | 0 |
| Z00000+6549 | 707214 | 1054630 | 6 | 3 | 15 | 9094 | G8III | 0.00636 | 65.82082 | 1 | 0 | 5 | 64.8 | 4.3 | 2.6 | 59 | 109 | 91 |
| Z00000+6549 | 707214 | 1054630 | 6 | 4 | 41 | 00000+6549 | | 0.00333 | 65.81694 | 9 | 0 | 11.8 | 179.5 | 9.8 | 6.6 | 3 | 1759 | 390 |
| Z00000+6549 | 707214 | 1054630 | 6 | 5 | 41 | 00000+6549 | | 0.01125 | 65.82471 | 9 | 0 | 20 | 36.1 | 20 | 1 | 1 | 1982 | -999 |
| Z00000+6549 | 707214 | 1054630 | 6 | 6 | 42 | 00000+6549 | | 0.0078 | 65.82083 | 9 | 0 | 7 | 71.8 | 5.5 | 4.4 | 3 | 1902 | 445 |
| Z00000+5517 | 670357 | 1036192 | 2 | 1 | 2 | DO 44001 | | 359.98828 | 55.36172 | 1 | 180 | 234.8 | 351.4 | 172.3 | 159.5 | 1 | 102 | 0 |
| Z00000+5517 | 670357 | 1036192 | 2 | 2 | 13 | 21023 | K0 | 0.00421 | 55.29425 | 1 | 0 | 11.1 | 193 | 10.3 | 4 | 84 | 87 | 0 |
| Z00000+1618 | 469718 | 949922 | 3 | 1 | 10 | M+03-01-015 | | 0.025 | 16.34999 | 2 | 180 | 138.1 | 20.2 | 98.4 | 96.9 | -999 | 30 | 30 |
| Z00000+1618 | 469718 | 949922 | 3 | 2 | 10 | M+03-01-017 | | 0.05 | 16.29999 | 2 | 180 | 143.1 | 110.6 | 99.7 | 102.7 | -999 | 8 | 24 |
| Z00000+1618 | 469718 | 949922 | 3 | 3 | 12 | ZG 000+16 | | 0.025 | 16.29999 | 2 | 90 | 69.3 | 136.6 | 21.6 | 65.9 | 157 | -999 | 0 |
| Z00000+1037 | 439737 | 937522 | 1 | 1 | 13 | 91674 | K2 | 0.0304 | 10.62847 | 1 | 0 | 41.9 | 72.2 | 41.6 | 5 | 88 | -999 | 0 |
| Z00000+6821 | 721514 | 1061020 | 3 | 1 | 2 | DO 44009 | | 0.0625 | 68.39507 | 1 | 180 | 166.3 | 17.7 | 165.7 | 14.2 | 1 | 106 | 0 |
| Z00000+6821 | 721514 | 1061020 | 3 | 2 | 23 | LDN 1273 | | 0 | 68.24998 | 5 | 600 | 365.3 | 185.1 | 348.5 | 109.5 | -999 | -999 | 1800 |
| Z00000+6821 | 721514 | 1061020 | 3 | 3 | 23 | MRSL 118+06/1 | | 0.075 | 68.21666 | 5 | 600 | 488.5 | 172.1 | 420.8 | 248.1 | -999 | -999 | 6600 |
| Z00001+6417 | 707075 | 1054510 | 4 | 1 | 22 | S170 | | 359.7749 | 64.33333 | 4 | 600 | 429.6 | 291.5 | 76 | 422.8 | 1200 | -44 | 7 |
| Z00001+6417 | 707075 | 1054510 | 4 | 2 | 23 | MRSL 117+02/1 | | 359.77466 | 64.34999 | 4 | 600 | 455.1 | 298.5 | 25 | 454.4 | -999 | -999 | 1200 |
| Z00001+6417 | 707075 | 1054510 | 4 | 3 | 23 | DG 192 | | 359.79956 | 64.28333 | 4 | 480 | 362.7 | 266.4 | 209.5 | 296 | -999 | -999 | 960 |
| Z00001+6417 | 707075 | 1054510 | 4 | 4 | 42 | 00001+6417 | | 0.0281 | 64.28944 | 12 | 0 | 5.2 | 252.2 | 4 | 3.4 | 15 | 837 | 1301 |
| Z00001+0827 | 439607 | 937489 | 3 | 1 | 10 | M+01-01-013 | | 0.025 | 8.45833 | 2 | 180 | 40.1 | 243.7 | 40.1 | 1.3 | -999 | 6 | 36 |
| Z00001+0827 | 439607 | 937489 | 3 | 2 | 12 | ZG 000+08 | | 0.025 | 8.45 | 2 | 90 | 59.8 | 217 | 52.5 | 28.6 | 157 | -999 | 0 |
| Z00001+0827 | 439607 | 937489 | 3 | 3 | 42 | 00001+0827 | | 0.02525 | 8.45901 | 10 | 0 | 38.3 | 246.4 | 38.3 | 0.6 | 12 | 701 | 1190 |
| Z00001+5713 | 670573 | 1036329 | 1 | 1 | 2 | DO 44006 | | 0.03804 | 57.19507 | 1 | 180 | 116.6 | 177.5 | 91.6 | 72.2 | 1 | 114 | 0 |
| Z00001+6509 | 707158 | 1054578 | 1 | 1 | 42 | 00001+6509 | | 0.03722 | 65.15892 | 8 | 0 | 0.7 | 48.8 | 0.6 | 0.2 | 3 | 1341 | 452 |
| Z00001+6650 | 707289 | 1054697 | 8 | 1 | 22 | S171 | | 0.525 | 66.86665 | 4 | 600 | 691.4 | 83.9 | 434.5 | 537.9 | 9999 | 778 | 0 |
| Z00001+6650 | 707289 | 1054697 | 8 | 2 | 23 | LDN 1272 | | 0 | 67 | 4 | 600 | 553 | 354.3 | 432.4 | 344.6 | -999 | -999 | 9999 |
| Z00001+6650 | 707289 | 1054697 | 8 | 3 | 23 | MRSL 118+04/1 | | 0.5 | 66.88333 | 4 | 600 | 665.1 | 78.5 | 465.2 | 475.3 | -999 | -999 | 9999 |
| Z00001+6650 | 707289 | 1054697 | 8 | 4 | 23 | CED 214B | | 0.51667 | 66.88333 | 4 | 600 | 688.3 | 78.9 | 478.2 | 495 | -999 | -999 | 1500 |
| Z00001+6650 | 707289 | 1054697 | 8 | 5 | 23 | DG 001 | | 0.525 | 66.88333 | 4 | 600 | 699.8 | 79.1 | 484.6 | 504.9 | -999 | -999 | 3900 |
| Z00001+6650 | 707289 | 1054697 | 8 | 6 | 23 | CED 214A | | 359.96216 | 66.88333 | 4 | 480 | 169.5 | 320.2 | 50.6 | 161.8 | -999 | -999 | 960 |
| Z00001+6650 | 707289 | 1054697 | 8 | 7 | 41 | 00001+6650 | | 0.04042 | 66.8461 | 12 | 0 | 4.4 | 149.7 | 2 | 3.9 | 3 | 406 | 820 |
| Z00001+6650 | 707289 | 1054697 | 8 | 8 | 42 | 00001+6650 | | 0.02998 | 66.8447 | 12 | 0 | 15.4 | 234.9 | 14.2 | 5.8 | 3 | 587 | 1146 |
| Z00001+8146 | 743094 | 1068932 | 1 | 1 | 42 | 00002+8146 | | 0.06118 | 81.76793 | 8 | 0 | 10.7 | 102.2 | 0.7 | 10.7 | 4 | 571 | -999 |
| Z00001+6531 | 707193 | 1054609 | 1 | 1 | 42 | 00002+6532 | | 0.0539 | 65.53477 | 8 | 0 | 21.9 | 41.3 | 21.7 | 3.1 | 1 | 287 | -999 |
| F00001-0353 | 349090 | 901986 | 2 | 1 | 10 | M-01-01-024 | | 0.025 | -3.95833 | 2 | 180 | 230.9 | 197.9 | 152.2 | 173.7 | -999 | 36 | 60 |
| F00001-0353 | 349090 | 901986 | 2 | 2 | 10 | M-01-01-025 | | 0.05 | -3.86667 | 2 | 180 | 111.9 | 9.6 | 60.8 | 93.9 | -999 | 12 | 36 |
| Z00002+6706 | 707324 | 1054729 | 4 | 1 | 23 | LDN 1272 | | 0 | 67 | 4 | 600 | 413.5 | 190.5 | 386.7 | 146.4 | -999 | -999 | 9999 |
| Z00002+6706 | 707324 | 1054729 | 4 | 2 | 23 | OCL 0286 | | 0 | 67.09999 | 4 | 300 | 88.4 | 238.2 | 78.8 | 40 | -999 | -999 | 600 |
| Z00002+6706 | 707324 | 1054729 | 4 | 3 | 41 | 00001+6706 | | 0.025 | 67.10832 | 12 | 0 | 43.4 | 247.5 | 35 | 25.6 | 2 | 2055 | -999 |
| Z00002+6706 | 707324 | 1054729 | 4 | 4 | 42 | 00000+6706 | | 0.02441 | 67.10338 | 12 | 0 | 53.4 | 229.9 | 50.6 | 17.1 | 7 | 535 | 4324 |
| Z00002+6646 | 707282 | 1054691 | 4 | 1 | 23 | CED 214A | | 359.96216 | 66.88333 | 4 | 480 | 383.9 | 340.1 | 231.7 | 306.1 | -999 | -999 | 960 |
| Z00002+6646 | 707282 | 1054691 | 4 | 2 | 41 | 00001+6645 | | 0.02625 | 66.76221 | 12 | 0 | 85.1 | 208.1 | 84.8 | 7.3 | 3 | 722 | 1329 |
| Z00002+6646 | 707282 | 1054691 | 4 | 3 | 41 | 00002+6647 | | 0.06167 | 66.79443 | 12 | 0 | 42.2 | 14 | 39.9 | 13.7 | 4 | 9999 | -999 |
| Z00002+6646 | 707282 | 1054691 | 4 | 4 | 42 | 00002+6647 | | 0.05308 | 66.78459 | 12 | 0 | 5.8 | 340.2 | 3.5 | 4.6 | 15 | 775 | 1308 |
| Z00002+2758 | 553118 | 984063 | 1 | 1 | 13 | 73712 | F8 | 0.06861 | 27.97363 | 1 | 0 | 9.6 | 79.1 | 9.2 | 2.6 | 81 | 79 | 0 |
| Z00002+5435A | 435911 | 961118 | 2 | 1 | 41 | 00003+5436 | | 0.08417 | 54.60248 | 8 | 0 | 41 | 63.4 | 36.3 | 18.9 | 8 | 2963 | -999 |
| Z00002+5435A | 435911 | 961118 | 2 | 2 | 42 | 00002+5436 | | 0.07372 | 54.60022 | 8 | 0 | 18 | 55.5 | 17 | 6 | 8 | 2508 | -999 |
| Z00002+5435 | 670277 | 1036141 | 2 | 1 | 41 | 00003+5436 | | 0.08417 | 54.60248 | 8 | 0 | 35.5 | 74.6 | 27.7 | 22.2 | 8 | 2963 | -999 |
| Z00002+5435 | 670277 | 1036141 | 2 | 2 | 42 | 00002+5436 | | 0.07372 | 54.60022 | 8 | 0 | 12.5 | 84.2 | 8.3 | 9.3 | 8 | 2508 | -999 |
| Z00002+4713 | 626991 | 1016177 | 1 | 1 | 2 | DO 44007 | | 0.03869 | 47.21172 | 1 | 180 | 94.4 | 246.2 | 86.7 | 37.3 | 1 | 112 | 0 |

| FNUPSC_12 | FNUPSC_25 | FNUPSC_60 | FNUPSC_100 | FNUERR_12 | FNUERR_25 | FNUERR_60 | FNUERR_100 | RECNO | ASPARE |
|---|---|---|---|---|---|---|---|---|---|
| I5 | I5 | I5 | I5 | I3 | I3 | I3 | I3 | I6 | A3 |
| MJANSKY | MJANSKY | MJANSKY | MJANSKY | | | | | | |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 6 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 6 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 6 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 6 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 6 |
| 1902 | 445 | 7942 | 25832 | 4 | 7 | 0 | 0 | | 6 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 10 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 10 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 16 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 16 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 16 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 28 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 32 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 32 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 32 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 36 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 36 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 36 |
| 837 | 1301 | 17211 | 32767 | 24 | 34 | 16 | 17 | | 36 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 40 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 40 |
| 250 | 282 | 701 | 1190 | 0 | 0 | 12 | 10 | | 40 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 41 |
| 1341 | 452 | 1907 | 22904 | 6 | 8 | 0 | 0 | | 44 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 46 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 46 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 46 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 46 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 46 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 46 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 46 |
| 587 | 1146 | 15662 | 32767 | 10 | 10 | 0 | 0 | | 46 |
| 420 | 250 | 571 | 1421 | 0 | 0 | 8 | 0 | | 48 |
| 287 | 250 | 2563 | 21883 | 9 | 0 | 0 | 0 | | 51 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 52 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 52 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 60 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 60 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 60 |
| 535 | 4324 | 13288 | 32767 | 13 | 16 | 11 | 0 | | 60 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 61 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 61 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 61 |
| 775 | 1308 | 12987 | 32767 | 7 | 9 | 10 | 21 | | 61 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 72 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 74 |
| 250 | 752 | 400 | 2508 | 0 | 0 | 0 | 13 | | 74 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 75 |
| 250 | 752 | 400 | 2508 | 0 | 0 | 0 | 13 | | 75 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | | 82 |

```
                                        FSR_assoc_h1
XTENSION= 'TABLE   '           / Table extension
BITPIX  =                    8 / Character data
NAXIS   =                    2 / Simple 2-D matrix
NAXIS1  =                  144 / Number of characters per record
NAXIS2  =               318691 / Number of records in the file
PCOUNT  =                    0 / No "random" parameters
GCOUNT  =                    1 / Only one group
TFIELDS =                   29 / Number of data fields per record
EXTNAME = 'FSR_ASSOC'          / IRAS Faint Source Rejects - associations table
AUTHOR  = 'IPAC    '           / Infrared Processing and Analysis Center
REFERENC= 'Version 1.0'        / Catalog reference
DATE    = '21/05/92'           / Date file was generated (dd/mm/yy)

COMMENT This FITS header is NOT a complete scientific document for the subject
COMMENT file. It serves only as a minimal description of the general format
COMMENT and structure of the data file.  A copy of "Faint Source Survey
COMMENT Explanatory Supplement", Version 2, should be used to answer
COMMENT questions about the data in the IRAS Faint Source Rejects.

COMMENT Source Catalog Reference: IRAS Faint Source Rejects, Version 1.0,
COMMENT IPAC, 1992 May.

COMMENT This table contains only the point source association fields for each
COMMENT source in the IRAS FSR.  The observational data for each source are
COMMENT in table FSR_DATA. Each association is tagged with the IRAS source name
COMMENT with which it is associated, as well as the pointer of the source
COMMENT within table FSR_DATA where the observational data can be found.
COMMENT Field names are identical with the field names given in
COMMENT the IRAS Faint Source Survey Explanatory Supplement.

TTYPE1  = 'NAME    '           / Name of source in FSR
TBCOL1  =                    1 / Start column
TFORM1  = 'A12     '           / Fortran format

TTYPE2  = 'KEYFSS  '           / Pointer of source in FSR
TBCOL2  =                   13 / Start column
TFORM2  = 'I7      '           / Fortran format

TTYPE3  = 'IDRECNO '           / Pointer of this group of associations
TBCOL3  =                   20 / Start column
TFORM3  = 'I7      '           / Fortran format

TTYPE4  = 'NID     '           / Total number of positional associations
TBCOL4  =                   27 / Start column
TFORM4  = 'I2      '           / Fortran format

TTYPE5  = 'IDSEQNO '           / Sequential number of this association
TBCOL5  =                   29 / Start column
TFORM5  = 'I2      '           / Fortran format

TTYPE6  = 'CATNO   '           / Catalog number
TBCOL6  =                   31 / Start column
TFORM6  = 'I2      '           / Fortran format

TTYPE7  = 'SOURCE  '           / Source identification
TBCOL7  =                   33 / Start column
TFORM7  = 'A15     '           / Fortran format

TTYPE8  = 'TYPE    '           / Source type or spectral class
TBCOL8  =                   48 / Start column
TFORM8  = 'A5      '           / Fortran format
TNULL8  = '        '           / Null value
```

```
TUNIT20 = 'MJANSKY '            / Units are milliJanskys
TNULL20 = '        '            / Null value
COMMENT FNUPSC (fields 20, 21, 22, 23) is saturated at >= 32 Jy.

TTYPE21 = 'FNUPSC_25  '         / Non-color corrected flux density
                                / of PSC association at 25 mu
TBCOL21 =                   109 / Start column
TFORM21 = 'I5      '            / Fortran format
TUNIT21 = 'MJANSKY '            / Units are milliJanskys
TNULL21 = '        '            / Null value

TTYPE22 = 'FNUPSC_60  '         / Non-color corrected flux density
                                / of PSC association at 60 mu
TBCOL22 =                   114 / Start column
TFORM22 = 'I5      '            / Fortran format
TUNIT22 = 'MJANSKY '            / Units are milliJanskys
TNULL22 = '        '            / Null value

TTYPE23 = 'FNUPSC_100 '         / Non-color corrected flux density
                                / of PSC association at 100 mu
TBCOL23 =                   119 / Start column
TFORM23 = 'I5      '            / Fortran format
TUNIT23 = 'MJANSKY '            / Units are milliJanskys
TNULL23 = '        '            / Null value

TTYPE24 = 'FNUERR_12'           / Relative flux density uncertainty
                                / of PSC association at 12 mu
TBCOL24 =                   124 / Start column
TFORM24 = 'I3      '            / Fortran format
TNULL24 = '        '            / Null value

TTYPE25 = 'FNUERR_25'           / Relative flux density uncertainty
                                / of PSC association at 25 mu
TBCOL25 =                   127 / Start column
TFORM25 = 'I3      '            / Fortran format
TNULL25 = '        '            / Null value

TTYPE26 = 'FNUERR_60'           / Relative flux density uncertainty
                                / of PSC association at 60 mu
TBCOL26 =                   130 / Start column
TFORM26 = 'I3      '            / Fortran format
TNULL26 = '        '            / Null value

TTYPE27 = 'FNUERR_100'          / Relative flux density uncertainty
                                / of PSC association at 100 mu
TBCOL27 =                   133 / Start column
TFORM27 = 'I3      '            / Fortran format
TNULL27 = '        '            / Null value

TTYPE28 = 'RECNO'               / Sequential number of FSC record
TBCOL28 =                   136 / Start column
TFORM28 = 'I6      '            / Fortran format

TTYPE29 = 'ASPARE'              / Spare space for expansion
TBCOL29 =                   142 / Start column
TFORM29 = 'A3      '            / Fortran format
END
```

```
Z00000+2314 00000000+2314140002340+233056   .000077 23.237289108.675625-37.99938
1 526191 3737 1251 641        9   7.5482E-029.8025E-021.9251E-011.5041E+00112126
6246263273    50  0.0000E+000.0000E+003.9066E+000.0000E+00                     7.
1370E+00          0 4 017 0 0 0 0 2 0 3 0 0 0 0 0 9 4 3 5 3 0 0 3 0 06.1195E-02
8.0815E-020.0000E+001.5041E+001.0602E-02-.2197E-011.9810E-015.6108E-012.5255E-02
3.3226E-023.5866E-029.2432E-021.000E+001.000E+001.028E+001.000E+001180        6
3.3226E-023.5866E-029.2432E-021.000E+001.000E+001.028E+001.000E+001180        6
   370.00 793.00 641 456 492 442 568 109 107 205 391          10               0
              24              15             880                     7.170E+00
                        1.023E+00                        8.33
   1.96E+00                          8.788E+00                              1.175E
-01                        3.398E-01                    839      3            836
                1.113                    1.610                    1.395
      34        1      99  3112111  0  0 55  0  1   0   0     -1    0
         0.00                  0.0      11097140

41111117911801245    0100  0
       00000 535  34 641
```

```
Z00000+1005 00000005+1005200002344+102202   .002134 10.088814103.756193-50.67620
4 439708 4439  760 653  7         1.1647E-017.7338E-021.7729E-015.7862E-01211127
927927825813      3.6930E+000.0000E+000.0000E+000.0000E+005.9620E+00
                   0 1 0 8 0 0 0 0 1 0 0 0 0 0 0 0 4 3 2 0 0 0 0 0 0 00.0000E+00
6.1455E-021.3598E-012.6526E-011.1837E-018.4291E-031.6144E-02-.1600E+003.5705E-02
2.6062E-024.5931E-026.6415E-029.738E-011.000E+001.000E+001.000E+00 967 14
   814.30 792.50 653 466 438 498 599 108 107 203 403   0              20
      25              24             680            7.040E+00
        9.432E-01                                7.00                  0.00E+00
                  7.954E+00                                  1.281E-01
 7.954E+00                        1.281E-01
           3.558E-01                          836            2    755
      .794                    1.542                    1.016                    84
             1      99      1211111 33  0  0  01   0   0   -1      0          0.0
0                    0.0                  0

1 967                0     0
       00000 457  73 653
```

```
Z00000+2835 00000006+2835370002346+285219   .002437 28.593567110.199052-32.78880
0 553160 3923 1078 635        7   1.0110E-011.6598E-011.7828E-017.2471E-01112126
4270232268    75  0.0000E+000.0000E+004.4910E+000.0000E+00                     5.
6234E+00          0 3 013 0 0 0 0 2 0 2 0 0 0 0 0 4 5 5 2 1 0 0 1 0 09.3775E-02
1.6598E-010.0000E+007.2471E-012.9033E-027.0414E-021.8352E-012.8133E-013.3754E-02
5.3400E-023.5705E-021.1090E-011.000E+001.000E+001.028E+001.000E+001246        8
   455.50 792.50 635 485 552 499 590 105 108 199 399          20             -20
              28              20             930                     8.510E+00
                        8.857E-01                        7.50
   5.30E-01                          9.166E+00                              1.135E
-01                        3.340E-01                    747      1            747
                .810                    1.590                    1.184
      82        1      99  3112111  0  0 51  0  1   0   0     -1    0
         0.00                  0.0      0
  0.00                  0.0      0

212461308            00    0
       00000 530  82 635
```

```
XTENSION= 'TABLE   '           / Table extension
BITPIX  =                    8 / Character data
NAXIS   =                    2 / Simple 2-D matrix
NAXIS1  =                 1440 / Number of characters per record
NAXIS2  =               593516 / Number of records in the file
PCOUNT  =                    0 / No "random" parameters
GCOUNT  =                    1 / Only one group
TFIELDS =                  328 / Number of data fields per record
EXTNAME = 'FSR_DATA'           / IRAS Faint Source Rejects - main data file
AUTHOR  = 'IPAC    '           / Infrared Processing and Analysis Center
REFERENC= 'Version 1.0'        / Catalog reference
DATE    = '21/05/92'           / Date file was generated (dd/mm/yy)

COMMENT This FITS header is NOT a complete scientific document for the subject
COMMENT file.  It serves only as a minimal description of the general
COMMENT format and structure of the data file.

COMMENT A copy of "Explanatory Supplement to the Faint Source Survey",
COMMENT Version 2, should be used to answer questions about the data
COMMENT in the FSR.

COMMENT Names which refer to each of the four IRAS bands of 12, 25, 60 and
COMMENT 100 microns are suffixed with the numerals 12, 25, 60 and 100.
COMMENT For example FNU_12 is the flux density at 12 microns.

TTYPE1  = 'NAME    '           / Source name
TBCOL1  =                    1 / Start column
TFORM1  = 'A12     '           / Fortran format

TTYPE2  = 'FCAT    '           / Final catalog flag
TBCOL2  =                   13 / Start column
TFORM2  = 'A1      '           / Fortran format

TTYPE3  = 'RAH     '           / Hours RA, equinox B1950.0, epoch 1983.5
TBCOL3  =                   14 / Start column
TFORM3  = 'I2      '           / Fortran format
TUNIT3  = 'HR      '           / Units are hours of time
TTYPE4  = 'RAM     '           / Minutes RA, equinox B1950.0, epoch 1983.5
TBCOL4  =                   16 / Start column
TFORM4  = 'I2      '           / Fortran format
TUNIT4  = 'MIN     '           / Units are minutes of time

TTYPE5  = 'RAS     '           / Seconds RA, equinox B1950.0, epoch 1983.5
TBCOL5  =                   18 / Start column
TFORM5  = 'F3.1     '          / Fortran format
TUNIT5  = 'SEC     '           / Units are seconds of time

TTYPE6  = 'DECSIGN '           / Sign of DEC, equinox B1950.0, epoch 1983.5
TBCOL6  =                   21 / Start column
TFORM6  = 'A1      '           / Fortran format

TTYPE7  = 'DECD    '           / Degrees DEC, equinox B1950.0, epoch 1983.5
TBCOL7  =                   22 / Start column
TFORM7  = 'I2      '           / Fortran format
TUNIT7  = 'DEG     '           / Units are degrees

TTYPE8  = 'DECM    '           / Minutes DEC, equinox B1950.0, epoch 1983.5
TBCOL8  =                   24 / Start column
TFORM8  = 'I2      '           / Fortran format
TUNIT8  = 'ARCMIN  '           / Units are minutes of arc

TTYPE9  = 'DECS    '           / Seconds DEC, equinox B1950.0, epoch 1983.5
TBCOL9  =                   26 / Start column
```

```
TFORM22 = 'F5.2    '            / Fortran format
TUNIT22 = 'ARCSEC  '            / Units are seconds of arc

TTYPE23 = 'UNCMINOR'            / Uncertainty ellipse minor axis
TBCOL23 =                    94 / Start column
TFORM23 = 'F5.2    '            / Fortran format
TUNIT23 = 'ARCSEC  '            / Units are seconds of arc

TTYPE24 = 'POSANG  '            / Uncertainty ellipse position angle,
                                / equinox B1950.0, epoch 1983.5
TBCOL24 =                    99 / Start column
TFORM24 = 'F4.1    '            / Fortran format
TUNIT24 = 'DEG     '            / Units are degrees East of North
COMMENT POSANG (field 24) is measured in degrees East of North between the
COMMENT major axis of the ellipse and the local equatorial meridian.

TTYPE25 = 'NOBS_12 '            / Number of times observed at 12 mu
TBCOL25 =                   103 / Start column
TFORM25 = 'I3      '            / Fortran format
TNULL25 = '        '            / Null value
COMMENT NOBS is NULL when the corresponding band has no detection
COMMENT (SNR = 1).

TTYPE26 = 'NOBS_25 '            / Number of times observed at 25 mu
TBCOL26 =                   106 / Start column
TFORM26 = 'I3      '            / Fortran format
TNULL26 = '        '            / Null value

TTYPE27 = 'NOBS_60 '            / Number of times observed at 60 mu
TBCOL27 =                   109 / Start column
TFORM27 = 'I3      '            / Fortran format
TNULL27 = '        '            / Null value

TTYPE28 = 'NOBS_100'            / Number of times observed at 100 mu
TBCOL28 =                   112 / Start column
TFORM28 = 'I3      '            / Fortran format
TNULL28 = '        '            / Null value

TTYPE29 = 'FNU_12  '            / Non-color corrected flux density at 12 mu
TBCOL29 =                   115 / Start column
TFORM29 = 'E10.4   '            / Fortran format
TUNIT29 = 'JANSKY  '            / Units are Janskys
TNULL29 = '        '            / Null value
COMMENT FNU is only NULL in the rare instance when there is insufficient
COMMENT information available to make a good estimate of the upper limit.

snip, snip...............................

TTYPE325= 'MRGMAPN '            / Merge map number
TBCOL325=                  1293 / Start column
TFORM325= 'I4      '            / Fortran format

TTYPE326= 'MRGSEQN '            / Sequential bandmerge number
TBCOL326=                  1297 / Start column
TFORM326= 'I4      '            / Fortran format

TTYPE327= 'POSANG2000'          / Uncertainty ellipse position angle,
                                / equinox J2000.0, epoch 1983.5
TBCOL327=                  1301 / Start column
TFORM327= 'F4.1    '            / Fortran format
TUNIT327= 'DEG     '            / Units are degrees East of North
COMMENT POSANG2000 (field 237) is measured in degrees East of North between
COMMENT the major axis of the ellipse and the local equatorial meridian.
```

```
TTYPE328= 'SPARE   '            / Spare space for expansion
TBCOL328=                  1305 / Start column
TFORM328= 'A136    '            / Fortran format

END
```