734

IRAS
IR Telescope
Nearby Galaxy High Resolution

83-004A-01t

Table of Contents

1. Introduction

2. Errata/Change Log

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

4. Catalog Materials

    a. Associated Documents

    b. Core Catalog Materials

---

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

Nearby Galaxy High Resolution Image Atlas

83-004A-01t ASIR-00048

This data set consists of one, 8 mm tape. The FITS files are written to tape using TAR on a SUN/SPARC workstation operating under UNIX with X-windows. 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 within each of the 30 TAR files 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#	Files
D-101560	C-031021	30 TAR Files
		32 Data files within each TAR file

THE ASTRONOMICAL JOURNAL VOLUME 105, NUMBER 1 JANUARY 1993

AN ATLAS OF HIGH-RESOLUTION *IRAS* MAPS OF NEARBY GALAXIES

WALTER RICE[1,2]
National Optical Astronomy Observatories, Tucson, Arizona 85726
Received 14 May 1992; revised 3 September 1992

ABSTRACT

An atlas of far-infrared *IRAS* maps with near 1 arcmin angular resolution of 30 optically large galaxies is presented. The high-resolution *IRAS* maps were produced with the Maximum Correlation Method (MCM) image construction and enhancement technique developed at IPAC. The MCM technique, which recovers the spatial information contained in the overlapping detector data samples of the *IRAS* all-sky survey scans, is outlined and tests to verify the structural reliability and photometric integrity of the high-resolution maps are presented. The infrared structure revealed in individual galaxies is discussed. The atlas complements the *IRAS Nearby Galaxy High-Resolution Image Atlas*, the high-resolution galaxy images encoded in FITS format, which is provided to the astronomical community as an IPAC product.

1. INTRODUCTION

With the relatively coarse angular resolution of the full *IRAS* beam ($\sim 1.5' \times 5'$ FWHM at 60 μm) detailed spatial studies of the infrared properties of external galaxies detected by *IRAS* have been limited to Local Group members, viz., the Magellanic Clouds (Schwering & Israel 1989; Schwering 1989), M31 (Walterbos & Schwering 1987), M33 (Deul 1989; Rice *et al.* 1990), and NGC 6822 (Gallagher *et al.* 1991). But these few studies have clearly demonstrated the value of maps constructed from *IRAS* data for unraveling the mid- and far-infrared properties of normal galaxies. The linear resolution of the *IRAS* maps permitted direct comparisons of the variation of the infrared emission and colors with the spatial distributions of the interstellar radiation field and the phases of the interstellar medium within these nearby galaxies on a scale of ~ 1 kpc. The results of these comparisons are vital since they provide the templates for interpreting the thousands of integrated infrared measurements of normal galaxies obtained by *IRAS* in terms of the global star formation processes operating within the galaxies.

Since it is important to increase both the number and variety of candidate galaxies for detailed spatial studies in the far-infrared, and to provide even more detailed maps of the few galaxies already studied, we have produced *IRAS* maps with near 1′ angular resolution of the nearby galaxies most likely to show appreciable structure in this beam. The maps obtained for M101, shown in Fig. 1 [Plate 2], dramatically illustrate the enhanced value of these high-resolution *IRAS* maps for far-infrared spatial structure studies. In this atlas we present the high-resolution *IRAS* maps of 30 optically large nearby galaxies. These high-resolution images, encoded in FITS format, are made available to the community as a product of the Infrared Processing and Analysis Center (IPAC).

The high-resolution maps were produced at IPAC with the Maximum Correlation Method (MCM) image construction and enhancement technique developed at IPAC by Aumann *et al.* (1990). The MCM technique is designed to recover the spatial information contained in the overlapping detector data samples of the *IRAS* all-sky survey scans. The major features of the technique are outlined in Sec. 2. In Sec. 2 we also report the results of tests to verify the structural reliability and photometric integrity of the MCM high-resolution maps. The 30 galaxies selected for processing are the most infrared extended galaxies (the Magellanic Clouds excluded) reported in the *IRAS Large Galaxy Catalog* (*LGC*) (Rice *et al.* 1988). These galaxies are listed in Sec. 3. The high-resolution maps, displayed as contour plots, are presented in Sec. 4 along with comments on the infrared structure seen in individual galaxies.

2. IPAC HIGH-RESOLUTION PROCESSING

A full description of the Maximum Correlation Method image construction technique is given in Aumann *et al.* (1990) and Fowler & Melnyk (1989a). The convergence and noise properties of the MCM maps are discussed in Fowler & Melnyk (1989a). Here, we outline the major features of the technique and report the results of preliminary tests to verify the reliability and photomtery of the images constructed for a subsample of the atlas galaxies.

2.1 The Maximum Correlation Method

Traditional image restoration methods in which a single point spread function (PSF) is used to enhance a blurry image (e.g., see Bates & McDonnell 1986) have had limited success with *IRAS* data. This is because the *IRAS* focal plane detector array and sky coverage scheme—a linear array of staggered, overlapping, rectangular detectors with nonuniform responses, and nonuniform, overlapping sky coverage (*IRAS Explanatory Supplement* 1988; Aumann *et al.* 1990)—result in nonisoplanatic images

[1]Visiting Astronomer, Kitt Peak National Observatory, National Optical Astronomy Observatories. NOAO is operated by the Association of Universities for Research in Astronomy, INC. (AURA) under cooperative agreement with the National Science Foundation.
[2]Infrared Processing and Analysis Center. IPAC is funded by NASA as part of the *IRAS* extended misssion program under contract to JPL

depends on the map position). Instead of attempting to enhance a blurry image constructed from these data, the MCM technique combines the image construction and enhancement steps and uses the full spatial information content of the overlapping detector data samples. The *IRAS* focal plane detector array was designed primarily as a survey instrument for detecting and confirming point sources. The rectangular mask of the nominal wavelength band detector was much larger than the PSF of the optical subsystem, by a factor of 5 and more along the $\sim 5'$ cross-scan dimension of the detector masks. In the MCM technique, the sampled overlapping detector data, used in the survey to confirm the detection and refine the position of point sources, are used to refine the intensity distribution of detected extended sources. By comparison, previous *IRAS* surface brightness maps have been constructed by smoothing and coadding the detector fluxes over the map pixels covered by the detector masks.

The MCM processing begins by constructing a grid with pixels (15″) smaller than the angular size of the *IRAS* detectors. The grid pixels are initially set to a (arbitrary) very small positive value. The technique assigns a "footprint" to each detector data sample. This footprint consists of the digitized detector spatial response function, the detector sky position and orientation, and the flux measured by the detector. The *IRAS* data taking process of a targeted sky region is simulated by projecting onto the grid the ensemble detector footprint response functions that covered the sky region. A first estimate of the flux of each map pixel is taken as the weighted average of the products of the pixel value and the overlapping detector response function samples that cover the pixel. For each detector data sample the integrated flux of all the pixels covered by the detector footprint is calculated and compared to observed flux of the detector. Correction factors are computed based on the differences between the calculated footprint fluxes and the observed detector fluxes. The correction factors are used to weight the contribution of the detector data to a new estimated image, producing an image with a flux distribution more consistent with the observed scene. By recursively redistributing the pixel fluxes in the estimated images constructed in subsequent iterations of the MCM algorithm, independent neighboring pixels are decoupled, and the image is sharpened. (The criteria used to select the MCM iteration maps for the atlas are discussed in Sec. *2.3.3.*) The technique name arises from the constraint that the decoupling of neighboring pixels, which are initially strongly correlated by the constant valued footprint flux distributions, must remain consistent with the observed data (i.e., it constructs images with the maximum pixel correlation permitted by the observed overlapping data).

The application of the MCM technique requires that the input data be "cleaned" of artifacts and "flat fielded" to remove extended foreground/background emission not related to the source. The technique to preprocess *IRAS* data is described by Fowler & Melnyk (1989b).

While the actual resolution attained in a MCM iteration map of a specific sky region depends on several factors (including the detector coverage density, the range of de-

TABLE 1. The MCM *IRAS* beam.

MCM iteration	FWHM Cross-scan × In-scan (arcsec) Wavelength 12 μm	25 μm	60 μm	100 μm
01	256 × 64	270 × 67	301 × 121	403 × 282
05	79 × 34	72 × 36	123 × 63	182 × 134
10	51 × 28	48 × 28	86 × 50	131 × 103
20	37 × 23	35 × 23	62 × 41	98 × 80

Notes to TABLE 1

The mean dimensions of 13 bright *IRAS* stellar point sources are reported. uncertainties in the means are less than 8%.

The LGC beam is ~ 300″ cross-scan and ~ 45″, 45″, 90″, and 180″, at 12, 25, 60, 100 μm, respectively, along the in-scan direction.

tector scanning angles over the field, and the source sig to noise) the dimensions of representative MCM bea were obtained by processing a sample of 13 stars bright each of the four *IRAS* wavelength bands. Table 1 lists mean angular resolution (FWHM) of these *IRAS* po sources measured in various MCM iteration maps. I comparison, an estimate of the beam size in the full bea *LGC* maps is given in the table notes. Contour plots a surface maps of the 60 μm beam in a MCM full bea (iteration 1) map and high-resolution (iteration 20) m are displayed in Fig. 2.

2.2 Additional Products and Services

The *IPAC User's Guide* (1989) (and the referenc therein) describes the various ancillary products and se vices available with IPAC high-resolution processin These include maps of the detector coverage density, th reduced photometric noise, and the correction factor var ance.

Maps for estimating the attained resolution of a pro cessed field at each of the *IRAS* wavelength bands and a various MCM iterations are also available. The MCM pro cessor produces these maps by simulating the scanning o the *IRAS* focal plane detector array over a field of con structed point sources at the sky position of the targetec source. The point sources are placed at the center of the map and at the centers of the four quadrants which subdi- vide the map in order to indicate the variation with posi- tion of the MCM beam over the field covered. The resolu- tion map images of the atlas galaxy fields are provided in the image product along with the atlas galaxy images (see Sec. 5)

The simulation feature of MCM processor which was used to construct the resolution maps can also be used to degrade the resolution of any higher resolution input scene to that which would have been observed using the *IRAS* detectors. In particular, the infrared spatial color proper- ties of the atlas galaxies can be examined by intercompar- ing the wavelength band galaxy images degraded by the simulator to a common resolution. Other results obtained using this useful tool are discussed below.

2.3 Verification of MCM Results

The verification of an image resolution enhancement technique consists of testing for structural reliability and

were not aligned along the galaxy axes; their far-infrared disks appear "warped" since the restored flatten disks follow the optical disks while the brighter pointlike inner regions of the galaxies are orientated along the detector scanning angles.

The survey coverage level for NGC 3109 was relatively low and it was not the target of an AO. Special processing is required to produce "cleaner" MCM maps of this galaxy.

M81 (NGC 3031). The high-resolution far-infrared maps show a bright nucleus and two star-forming regions to the north and south of the nucleus. Similar structure is seen in the radio map. The outer most spiral arms are faintly outlined in the 60 μm map.

IC 2574. The bright 60 μm source and a radio source are coincident with a knot of bright optical sources (probably a cluster of H II regions) in the northern region of the galaxy. The MCM maps of NGC 4656 and NGC 4725 also show relatively bright far-infrared emission coincident with optical emission knots in the galaxies.

NGC 4631. The low surface brightness level structure extending to the south of the galaxy disk in the 60 and 100 μm high-resolution maps and to the north in the 60 μm map is probably caused by detector hysteresis. The dashed contour plotted in each map is at 0.5 MJy sr^{-1}. Unlike the maps of NGC 253, in which the effects of detector hysteresis and reflection are obvious in both the full beam and high-resolution images, the defects in the NGC 4631 map are more subtle and could be mistakenly interpreted as emission associated with the galaxy or with background sources. However, the bright inner region of the galaxy and the slightly asymmetric distribution of the galaxy outer contours in the full beam 60 μm maps hint to a hysteresis problem. This is confirmed by inspection of the far-infrared plots of the galaxy presented in the *LGC*. The *LGC* images were produced from coadded AO data in which the detector scans were in a raster pattern, as opposed to the single direction scans of the survey data. The outer contours in the *LGC* plots are distorted to the north and south of the galaxy. (Curiously, the radio map of NGC 4631 shows extended emission to the north of the galaxy disk.)

M51 (NGC 5194/5). Figure 3 compares the far-infrared and optical structure of the galaxies and in Sec. 2 the MCM maps are compared to other high-resolution maps. The 60 and 100 μm sources and the radio source to the southwest of M51 is probably a background source although nothing is seen in the optical photograph.

M83 (NGC 5236). The 100 μm image is affected by hysteresis and the emission structure extending to the southwest of the galaxy along the survey scanning direction is probably spurious. The mid-infrared and 60 μm maps show similar structure. The nucleus stands out in each map and two sources to the northeast and the source to the south of the nucleus in the 12 and 25 μm maps are outlined in the 60 μm map. Two (presumedly) background radio sources on the eastern boundary of the galaxy (near 1334.7−2935 and 1334.5−2931) have infrared counterparts in the 60 and 100 μm maps.

M101 (NGC 5457). This galaxy like M33 is a prime candidate for four wavelength band spatial studies using the MCM high-resolution maps. In particular, the enhanced structure of the 100 μm high-resolution map provides an opportunity to study the variation of infrared colors within the galaxy. (Color studies require images with a common resolution. A technique to produce these for the atlas images is discussed in Sec. 2.) The bright H II regions in the galaxy which stand out in both the 60 μm high-resolution map and the 20 cm radio continuum map have been identified by Aumann *et al.* (1990).

NGC 6744. The 60 μm high-resolution map reveals far-infrared structure not seen in the full beam map. The results at 100 μm are less impressive but the general optical light outline of the galaxy is recovered in the high-resolution map. The 60 μm sources in the southern half of the galaxy are coincident with optical emission structure in the spiral arms of the galaxy.

NGC 6822. The 60 μm and optical light structure of NGC 6822 are compared in Fig. 3. Galactic "cirrus" is the likely source of the 100 μm emission to the south and southwest of the galaxy (Gallagher *et al.* 1991).

NGC 6946. The flat-fielding of this galaxy field was poor because of the bright diffuse Galactic emission in the area. Several bright data artifacts are seen the far-infrared high-resolution maps. However, the 60 μm map shows structure coincident with a bright spiral arm to the northeast of the galaxy nucleus.

The high-resolution maps of NGC 55, NGC 253, and NGC 4631 demonstrate the types of spurious structure produced by MCM processing. Based on these maps and on the structural reliability tests reported in Sec. 2, the author strongly recommends a cautious interpretation of the low level structure seen in many of the atlas maps. In particular, the user must be wary of the low level structure without optical light counterparts within the galaxies and that which extends beyond the optical boundary of the galaxies. When available, AO maps with different scanning angles should be examined to evaluate the reality of this type structure.

5. SUMMARY

The Maximum Correlation Method (MCM) image construction and resolution enhancement technique has been used to produce high-resolution *IRAS* maps of 30 optically large nearby galaxies. The near 1′ beam of the high-resolution maps will permit more detailed spatial studies of the far-infrared properties of the most extended external galaxies detected by *IRAS*.

Qualitative comparisons of the MCM 60 μm high-resolution images of the three test galaxies M33, M51, and NGC 6822 to optical light images and far-infrared high-resolution images of these galaxies obtained from various sources show good agreement. However, the low surface brightness level structure seen in some of the atlas galaxy maps is spurious. The spurious structure is caused by residual artifacts in the map data and by detector hysteresis and reflection associated with the bright sources.

The basic photometry of the MCM maps was tested by comparing the total flux density

sources and extended sources obtained from the MCM maps to the values reported in other *IRAS* products. These sets of measurements agree to within 10% with an uncertainty of ~20%. Although an indirect test to verify the high-resolution map surface brightness distribution showed good results, a thorough test of this issue requires *IRAS* independent truth table images.

The MCM images of the atlas galaxies, encoded in FITS format, are made available to the community as the IPAC product: The *IRAS Nearby Galaxy High-Resolution Image Atlas*. The product consists of the 12, 25, 60, and 100 μm full beam and high-resolution images of the 30 atlas galaxies and resolution map images of each galaxy fields (see Sec. 2). For details on how to obtain the image pr please contact the IPAC Librarian.

I am grateful to a number of people who assisted m the production of this work. D. Engler and R. Bec IPAC helped in the processing of the MCM images Young and S. Kleinmann made valuable suggestions verification techniques. The atlas contour maps and fig were produced with the assistance of N. Sharp and Davis of NOAO. The detailed comments of the refe were invaluable for enhancing this paper. This resea was supported under the ADP program by NASA C tract No. NAS7-918.

REFERENCES

Altenhoff, W. J., Downes, D., Pauls, T., & Schraml, J. 1979, ApJS, 35, 23
Aumann, H. H., Fowler, J. W., & Melnyk, M. 1990, AJ, 99, 1674
Aumann, H. H., Fowler, J. W., & Melnyk, M. 1991, private communication
Bates, R. H. T., & McDonnell, M. J. 1986, Image Restoration and Reconstruction (Clarendon Press, Oxford)
Beichman, C. A., Boulanger, Rice, W., & Persson Lonsdale, C. J. 1986, in Star Formation in Galaxies, edited by C. J. Lonsdale Persson (JPL, Pasadena), p. 297
Bontekoe, Tj. R., Kester, D. J. M., Price, S. D., de Jonge, A. R. W., & Wesselius, P. R. 1991, A&A, 248, 328
Condon, J. J. 1987, ApJS, 65, 485
Deul, E. R. 1989, A&A, 218, 78
de Vaucouleurs, G., de Vaucouleurs, A., & Corwin, Jr., H. G., 1976, Second Reference Catalogue of Bright Galaxies (University of Texas Press, Austin)
Fowler, J. W., & Melnyk, M. 1989a, IPAC Software Design Specification–Yoric (JPL, Pasadena)
Fowler, J. W., & Melnyk, M. 1989b, IPAC Software Design Specification–Laundr (JPL, Pasadena)
Gallagher, J. S. 1990,
Gallagher, J. S., Hunter, D. A., Gillett, F. C., & Rice, W. L. 1991, ApJ, 371, 142
IPAC User's Guide, Edition 4. 1989, prepared by L. Fullmer, I. Khan, G. Laughlin, D. Levine, and R. Benson (JPL, Pasadena)
IRAS Catalogs and Atlases: Explanatory Supplement 1988, edited by C. A. Beichman, G Neugebauer, H. J. Habing, P. E. Clegg, and T Chester (GPO, Washington, DC)
IRAS-DAX Chopped Photometric Channel, Explanatory Supplem 1986, prepared by P. R. Wesselius, D. A. Beintema, A. R. W. de Jo T. A. Jurriens, D. J. M. Jester, J. E. van Weerden, J. de Vries, and Perault (Laboratory for Space Research, Groningen)
IRAS Point Source Catalog, Version 2 1988, Joint IRAS Science W ing Group (GPO, Washington, DC)
Lucy, L. B. 1974, AJ, 79, 745
Rice, W., Boulanger, F., Viallefond, F., Soifer, B. T., & Freedman, W 1990, ApJ, 358, 418
Rice, W., Lonsdale, C. J., Soifer, B. T., Neugebauer, G., Kopan, E. Lloyd, L. A., deJong, T., & Habing, H. J. 1988, ApJS, 68, 91
Richardson, W. H. 1972, J. Opt. Soc. Am., 62, 55
Sandage, A., & Bedke, J. 1988, Atlas of Galaxies Useful for Measu the Cosmological Distance Scale (GPO, Washington, DC)
Smith, J. 1982, AJ, 261, 463
Schwering, P. B. W. 1989, A&AS, 79, 105
Schwering, P. B. W., & Israel, F. P. 1989, A&AS, 79, 79
Viallefond, F., Goss, W. M., van dur Hulst, J. M., & Crane, P. C. 1 A&AS, 64, 237
Walterbos, R. A. M., & Schwering, P. B. W. 1987, A&A, 180, 27
Young, E. T., Neugebauer, G., Kopan, E. L., Benson, R. D., Conrov P., Rice, W., & Gregorich, D. T. 1985, A User's Guide to the Il Pointed Observation Products, IPAC preprint PRE-008N

```
FILE:  1

   755      0 May 21 19:05:05 1992 ./
   644 123840 May 21 19:04:54 1992 ./im1_n55_01
   644 123840 May 21 19:04:54 1992 ./im1_n55_05
   644 123840 May 21 19:04:55 1992 ./im1_n55_10
   644 123840 May 21 19:04:55 1992 ./im1_n55_20
   644 123840 May 21 19:04:55 1992 ./im2_n55_01
   644 123840 May 21 19:04:56 1992 ./im2_n55_05
   644 123840 May 21 19:04:56 1992 ./im2_n55_10
   644 123840 May 21 19:04:57 1992 ./im2_n55_20
   644 123840 May 21 19:04:57 1992 ./im3_n55_01
   644 123840 May 21 19:04:58 1992 ./im3_n55_05
   644 123840 May 21 19:04:58 1992 ./im3_n55_10
   644 123840 May 21 19:04:58 1992 ./im3_n55_20
   644 123840 May 21 19:04:59 1992 ./im4_n55_01
   644 123840 May 21 19:04:59 1992 ./im4_n55_05
   644 123840 May 21 19:04:59 1992 ./im4_n55_10
   644 123840 May 21 19:05:00 1992 ./im4_n55_20
   644 123840 May 21 19:05:00 1992 ./rs1_n55_01
   644 123840 May 21 19:05:00 1992 ./rs1_n55_05
   644 123840 May 21 19:05:00 1992 ./rs1_n55_10
   644 123840 May 21 19:05:01 1992 ./rs1_n55_20
   644 123840 May 21 19:05:01 1992 ./rs2_n55_01
   644 123840 May 21 19:05:02 1992 ./rs2_n55_05
   644 123840 May 21 19:05:02 1992 ./rs2_n55_10
   644 123840 May 21 19:05:02 1992 ./rs2_n55_20
   644 123840 May 21 19:05:03 1992 ./rs3_n55_01
   644 123840 May 21 19:05:03 1992 ./rs3_n55_05
   644 123840 May 21 19:05:04 1992 ./rs3_n55_10
   644 123840 May 21 19:05:04 1992 ./rs3_n55_20
   644 123840 May 21 19:05:04 1992 ./rs4_n55_01
   644 123840 May 21 19:05:05 1992 ./rs4_n55_05
   644 123840 May 21 19:05:05 1992 ./rs4_n55_10
   644 123840 May 21 19:05:05 1992 ./rs4_n55_20
tar: EOF hit on tarfile.

FILE:  2

   755      0 May 21 19:06:39 1992 ./
   644 469440 May 21 19:06:10 1992 ./im1_m31_01
   644 469440 May 21 19:06:10 1992 ./im1_m31_05
   644 469440 May 21 19:06:11 1992 ./im1_m31_10
   644 469440 May 21 19:06:12 1992 ./im1_m31_20
   644 469440 May 21 19:06:13 1992 ./im2_m31_01
   644 469440 May 21 19:06:14 1992 ./im2_m31_05
   644 469440 May 21 19:06:15 1992 ./im2_m31_10
   644 469440 May 21 19:06:16 1992 ./im2_m31_20
   644 469440 May 21 19:06:16 1992 ./im3_m31_01
   644 469440 May 21 19:06:17 1992 ./im3_m31_05
   644 469440 May 21 19:06:18 1992 ./im3_m31_10
   644 469440 May 21 19:06:19 1992 ./im3_m31_20
   644 469440 May 21 19:06:20 1992 ./im4_m31_01
   644 469440 May 21 19:06:21 1992 ./im4_m31_05
   644 469440 May 21 19:06:22 1992 ./im4_m31_10
   644 469440 May 21 19:06:23 1992 ./im4_m31_20
   644 469440 May 21 19:06:24 1992 ./rs1_m31_01
   644 469440 May 21 19:06:25 1992 ./rs1_m31_05
   644 469440 May 21 19:06:26 1992 ./rs1_m31_10
   644 469440 May 21 19:06:26 1992 ./rs1_m31_20
   644 469440 May 21 19:06:28 1992 ./rs2_m31_01
   644 469440 May 21 19:06:29 1992 ./rs2_m31_05
   644 469440 May 21 19:06:31 1992 ./rs2_m31_10
   644 469440 May 21 19:06:32 1992 ./rs2_m31_20
   644 469440 May 21 19:06:33 1992 ./rs3_m31_01
```

```
    644 469440 May 21 19:06:34 1992 ./rs3_m31_05
    644 469440 May 21 19:06:35 1992 ./rs3_m31_10
    644 469440 May 21 19:06:36 1992 ./rs3_m31_20
    644 469440 May 21 19:06:37 1992 ./rs4_m31_01
    644 469440 May 21 19:06:38 1992 ./rs4_m31_05
    644 469440 May 21 19:06:39 1992 ./rs4_m31_10
    644 469440 May 21 19:06:40 1992 ./rs4_m31_20
tar: EOF hit on tarfile.

FILE:  3

    755      0 May 21 19:08:09 1992 ./
    644 123840 May 21 19:07:58 1992 ./im1_n247_01
    644 123840 May 21 19:07:58 1992 ./im1_n247_05
    644 123840 May 21 19:07:58 1992 ./im1_n247_10
    644 123840 May 21 19:07:59 1992 ./im1_n247_20
    644 123840 May 21 19:07:59 1992 ./im2_n247_01
    644 123840 May 21 19:07:59 1992 ./im2_n247_05
    644 123840 May 21 19:08:00 1992 ./im2_n247_10
    644 123840 May 21 19:08:00 1992 ./im2_n247_20
    644 123840 May 21 19:08:00 1992 ./im3_n247_01
    644 123840 May 21 19:08:01 1992 ./im3_n247_05
    644 123840 May 21 19:08:01 1992 ./im3_n247_10
    644 123840 May 21 19:08:02 1992 ./im3_n247_20
    644 123840 May 21 19:08:02 1992 ./im4_n247_01
    644 123840 May 21 19:08:02 1992 ./im4_n247_05
    644 123840 May 21 19:08:03 1992 ./im4_n247_10
    644 123840 May 21 19:08:03 1992 ./im4_n247_20
    644 123840 May 21 19:08:04 1992 ./rs1_n247_01
    644 123840 May 21 19:08:05 1992 ./rs1_n247_05
    644 123840 May 21 19:08:05 1992 ./rs1_n247_10
    644 123840 May 21 19:08:05 1992 ./rs1_n247_20
    644 123840 May 21 19:08:06 1992 ./rs2_n247_01
    644 123840 May 21 19:08:06 1992 ./rs2_n247_05
    644 123840 May 21 19:08:06 1992 ./rs2_n247_10
    644 123840 May 21 19:08:07 1992 ./rs2_n247_20
    644 123840 May 21 19:08:07 1992 ./rs3_n247_01
    644 123840 May 21 19:08:08 1992 ./rs3_n247_05
    644 123840 May 21 19:08:08 1992 ./rs3_n247_10
    644 123840 May 21 19:08:08 1992 ./rs3_n247_20
    644 123840 May 21 19:08:09 1992 ./rs4_n247_01
    644 123840 May 21 19:08:09 1992 ./rs4_n247_05
    644 123840 May 21 19:08:09 1992 ./rs4_n247_10
    644 123840 May 21 19:08:10 1992 ./rs4_n247_20
tar: EOF hit on tarfile.

FILE:  4

    755      0 May 21 19:08:53 1992 ./
    644 123840 May 21 19:08:43 1992 ./im1_n253_01
    644 123840 May 21 19:08:43 1992 ./im1_n253_05
    644 123840 May 21 19:08:43 1992 ./im1_n253_10
    644 123840 May 21 19:08:43 1992 ./im1_n253_20
    644 123840 May 21 19:08:44 1992 ./im2_n253_01
    644 123840 May 21 19:08:44 1992 ./im2_n253_05
    644 123840 May 21 19:08:45 1992 ./im2_n253_10
    644 123840 May 21 19:08:45 1992 ./im2_n253_20
    644 123840 May 21 19:08:45 1992 ./im3_n253_01
    644 123840 May 21 19:08:46 1992 ./im3_n253_05
    644 123840 May 21 19:08:46 1992 ./im3_n253_10
    644 123840 May 21 19:08:46 1992 ./im3_n253_20
    644 123840 May 21 19:08:47 1992 ./im4_n253_01
    644 123840 May 21 19:08:47 1992 ./im4_n253_05
    644 123840 May 21 19:08:47 1992 ./im4_n253_10
    644 123840 May 21 19:08:48 1992 ./im4_n253_20
    644 123840 May 21 19:08:48 1992 ./rs1_n253_01
```

```
644 123840 May 21 19:08:48 1992 ./rs1_n253_05
644 123840 May 21 19:08:49 1992 ./rs1_n253_10
644 123840 May 21 19:08:49 1992 ./rs1_n253_20
644 123840 May 21 19:08:49 1992 ./rs2_n253_01
644 123840 May 21 19:08:50 1992 ./rs2_n253_05
644 123840 May 21 19:08:50 1992 ./rs2_n253_10
644 123840 May 21 19:08:50 1992 ./rs2_n253_20
644 123840 May 21 19:08:51 1992 ./rs3_n253_01
644 123840 May 21 19:08:51 1992 ./rs3_n253_05
644 123840 May 21 19:08:51 1992 ./rs3_n253_10
644 123840 May 21 19:08:52 1992 ./rs3_n253_20
644 123840 May 21 19:08:52 1992 ./rs4_n253_01
644 123840 May 21 19:08:52 1992 ./rs4_n253_05
644 123840 May 21 19:08:53 1992 ./rs4_n253_10
644 123840 May 21 19:08:53 1992 ./rs4_n253_20
tar: EOF hit on tarfile.

FILE:  5

755      0 May 21 19:09:34 1992 ./
644 123840 May 21 19:09:24 1992 ./im1_n300_01
644 123840 May 21 19:09:24 1992 ./im1_n300_05
644 123840 May 21 19:09:25 1992 ./im1_n300_10
644 123840 May 21 19:09:25 1992 ./im1_n300_20
644 123840 May 21 19:09:25 1992 ./im2_n300_01
644 123840 May 21 19:09:26 1992 ./im2_n300_05
644 123840 May 21 19:09:26 1992 ./im2_n300_10
644 123840 May 21 19:09:26 1992 ./im2_n300_20
644 123840 May 21 19:09:27 1992 ./im3_n300_01
644 123840 May 21 19:09:27 1992 ./im3_n300_05
644 123840 May 21 19:09:27 1992 ./im3_n300_10
644 123840 May 21 19:09:28 1992 ./im3_n300_20
644 123840 May 21 19:09:28 1992 ./im4_n300_01
644 123840 May 21 19:09:28 1992 ./im4_n300_05
644 123840 May 21 19:09:29 1992 ./im4_n300_10
644 123840 May 21 19:09:29 1992 ./im4_n300_20
644 123840 May 21 19:09:29 1992 ./rs1_n300_01
644 123840 May 21 19:09:29 1992 ./rs1_n300_05
644 123840 May 21 19:09:30 1992 ./rs1_n300_10
644 123840 May 21 19:09:30 1992 ./rs1_n300_20
644 123840 May 21 19:09:31 1992 ./rs2_n300_01
644 123840 May 21 19:09:31 1992 ./rs2_n300_05
644 123840 May 21 19:09:31 1992 ./rs2_n300_10
644 123840 May 21 19:09:32 1992 ./rs2_n300_20
644 123840 May 21 19:09:32 1992 ./rs3_n300_01
644 123840 May 21 19:09:33 1992 ./rs3_n300_05
644 123840 May 21 19:09:33 1992 ./rs3_n300_10
644 123840 May 21 19:09:33 1992 ./rs3_n300_20
644 123840 May 21 19:09:34 1992 ./rs4_n300_01
644 123840 May 21 19:09:34 1992 ./rs4_n300_05
644 123840 May 21 19:09:34 1992 ./rs4_n300_10
644 123840 May 21 19:09:35 1992 ./rs4_n300_20
tar: EOF hit on tarfile.

FILE:  6

755      0 May 21 19:10:33 1992 ./
644 469440 May 21 19:10:06 1992 ./im1_m33_01
644 469440 May 21 19:10:07 1992 ./im1_m33_05
644 469440 May 21 19:10:08 1992 ./im1_m33_10
644 469440 May 21 19:10:09 1992 ./im1_m33_20
644 469440 May 21 19:10:10 1992 ./im2_m33_01
644 469440 May 21 19:10:11 1992 ./im2_m33_05
644 469440 May 21 19:10:12 1992 ./im2_m33_10
644 469440 May 21 19:10:13 1992 ./im2_m33_20
644 469440 May 21 19:10:13 1992 ./im3_m33_01
```

```
644 469440 May 21 19:10:14 1992 ./im3_m33_05
644 469440 May 21 19:10:15 1992 ./im3_m33_10
644 469440 May 21 19:10:16 1992 ./im3_m33_20
644 469440 May 21 19:10:17 1992 ./im4_m33_01
644 469440 May 21 19:10:18 1992 ./im4_m33_05
644 469440 May 21 19:10:18 1992 ./im4_m33_10
644 469440 May 21 19:10:19 1992 ./im4_m33_20
644 469440 May 21 19:10:20 1992 ./rs1_m33_01
644 469440 May 21 19:10:21 1992 ./rs1_m33_05
644 469440 May 21 19:10:22 1992 ./rs1_m33_10
644 469440 May 21 19:10:23 1992 ./rs1_m33_20
644 469440 May 21 19:10:24 1992 ./rs2_m33_01
644 469440 May 21 19:10:25 1992 ./rs2_m33_05
644 469440 May 21 19:10:25 1992 ./rs2_m33_10
644 469440 May 21 19:10:26 1992 ./rs2_m33_20
644 469440 May 21 19:10:27 1992 ./rs3_m33_01
644 469440 May 21 19:10:28 1992 ./rs3_m33_05
644 469440 May 21 19:10:29 1992 ./rs3_m33_10
644 469440 May 21 19:10:30 1992 ./rs3_m33_20
644 469440 May 21 19:10:31 1992 ./rs4_m33_01
644 469440 May 21 19:10:32 1992 ./rs4_m33_05
644 469440 May 21 19:10:33 1992 ./rs4_m33_10
644 469440 May 21 19:10:34 1992 ./rs4_m33_20
tar: EOF hit on tarfile.

FILE:  7

755      0 May 21 19:12:02 1992 ./
644 123840 May 21 19:11:51 1992 ./im1_n1313_01
644 123840 May 21 19:11:52 1992 ./im1_n1313_05
644 123840 May 21 19:11:52 1992 ./im1_n1313_10
644 123840 May 21 19:11:52 1992 ./im1_n1313_20
644 123840 May 21 19:11:53 1992 ./im2_n1313_01
644 123840 May 21 19:11:53 1992 ./im2_n1313_05
644 123840 May 21 19:11:53 1992 ./im2_n1313_10
644 123840 May 21 19:11:54 1992 ./im2_n1313_20
644 123840 May 21 19:11:54 1992 ./im3_n1313_01
644 123840 May 21 19:11:54 1992 ./im3_n1313_05
644 123840 May 21 19:11:55 1992 ./im3_n1313_10
644 123840 May 21 19:11:55 1992 ./im3_n1313_20
644 123840 May 21 19:11:55 1992 ./im4_n1313_01
644 123840 May 21 19:11:56 1992 ./im4_n1313_05
644 123840 May 21 19:11:56 1992 ./im4_n1313_10
644 123840 May 21 19:11:56 1992 ./im4_n1313_20
644 123840 May 21 19:11:57 1992 ./rs1_n1313_01
644 123840 May 21 19:11:57 1992 ./rs1_n1313_05
644 123840 May 21 19:11:58 1992 ./rs1_n1313_10
644 123840 May 21 19:11:58 1992 ./rs1_n1313_20
644 123840 May 21 19:11:58 1992 ./rs2_n1313_01
644 123840 May 21 19:11:59 1992 ./rs2_n1313_05
644 123840 May 21 19:11:59 1992 ./rs2_n1313_10
644 123840 May 21 19:11:59 1992 ./rs2_n1313_20
644 123840 May 21 19:12:00 1992 ./rs3_n1313_01
644 123840 May 21 19:12:00 1992 ./rs3_n1313_05
644 123840 May 21 19:12:00 1992 ./rs3_n1313_10
644 123840 May 21 19:12:01 1992 ./rs3_n1313_20
644 123840 May 21 19:12:01 1992 ./rs4_n1313_01
644 123840 May 21 19:12:01 1992 ./rs4_n1313_05
644 123840 May 21 19:12:02 1992 ./rs4_n1313_10
644 123840 May 21 19:12:02 1992 ./rs4_n1313_20
tar: EOF hit on tarfile.

FILE:  8

755      0 May 21 19:12:44 1992 ./
644 123840 May 21 19:12:33 1992 ./im1_i342_01
```

```
644 123840 May 21 19:12:33 1992 ./im1_i342_05
644 123840 May 21 19:12:34 1992 ./im1_i342_10
644 123840 May 21 19:12:34 1992 ./im1_i342_20
644 123840 May 21 19:12:34 1992 ./im2_i342_01
644 123840 May 21 19:12:35 1992 ./im2_i342_05
644 123840 May 21 19:12:35 1992 ./im2_i342_10
644 123840 May 21 19:12:35 1992 ./im2_i342_20
644 123840 May 21 19:12:36 1992 ./im3_i342_01
644 123840 May 21 19:12:36 1992 ./im3_i342_05
644 123840 May 21 19:12:36 1992 ./im3_i342_10
644 123840 May 21 19:12:37 1992 ./im3_i342_20
644 239040 May 21 19:12:37 1992 ./im4_i342_01
644 239040 May 21 19:12:38 1992 ./im4_i342_05
644 239040 May 21 19:12:38 1992 ./im4_i342_10
644 239040 May 21 19:12:39 1992 ./im4_i342_20
644 123840 May 21 19:12:39 1992 ./rs1_i342_01
644 123840 May 21 19:12:39 1992 ./rs1_i342_05
644 123840 May 21 19:12:40 1992 ./rs1_i342_10
644 123840 May 21 19:12:40 1992 ./rs1_i342_20
644 123840 May 21 19:12:41 1992 ./rs2_i342_01
644 123840 May 21 19:12:41 1992 ./rs2_i342_05
644 123840 May 21 19:12:41 1992 ./rs2_i342_10
644 123840 May 21 19:12:42 1992 ./rs2_i342_20
644 123840 May 21 19:12:42 1992 ./rs3_i342_01
644 123840 May 21 19:12:42 1992 ./rs3_i342_05
644 123840 May 21 19:12:43 1992 ./rs3_i342_10
644 123840 May 21 19:12:43 1992 ./rs3_i342_20
644 123840 May 21 19:12:43 1992 ./rs4_i342_01
644 123840 May 21 19:12:44 1992 ./rs4_i342_05
644 123840 May 21 19:12:44 1992 ./rs4_i342_10
644 123840 May 21 19:12:44 1992 ./rs4_i342_20
tar: EOF hit on tarfile.

FILE:  9

755      0 May 21 19:13:28 1992 ./
644 123840 May 21 19:13:17 1992 ./im1_n1448_01
644 123840 May 21 19:13:18 1992 ./im1_n1448_05
644 123840 May 21 19:13:18 1992 ./im1_n1448_10
644 123840 May 21 19:13:18 1992 ./im1_n1448_20
644 123840 May 21 19:13:19 1992 ./im2_n1448_01
644 123840 May 21 19:13:19 1992 ./im2_n1448_05
644 123840 May 21 19:13:19 1992 ./im2_n1448_10
644 123840 May 21 19:13:20 1992 ./im2_n1448_20
644 123840 May 21 19:13:20 1992 ./im3_n1448_01
644 123840 May 21 19:13:21 1992 ./im3_n1448_05
644 123840 May 21 19:13:21 1992 ./im3_n1448_10
644 123840 May 21 19:13:21 1992 ./im3_n1448_20
644 123840 May 21 19:13:22 1992 ./im4_n1448_01
644 123840 May 21 19:13:22 1992 ./im4_n1448_05
644 123840 May 21 19:13:22 1992 ./im4_n1448_10
644 123840 May 21 19:13:22 1992 ./im4_n1448_20
644 123840 May 21 19:13:23 1992 ./rs1_n1448_01
644 123840 May 21 19:13:23 1992 ./rs1_n1448_05
644 123840 May 21 19:13:24 1992 ./rs1_n1448_10
644 123840 May 21 19:13:24 1992 ./rs1_n1448_20
644 123840 May 21 19:13:24 1992 ./rs2_n1448_01
644 123840 May 21 19:13:25 1992 ./rs2_n1448_05
644 123840 May 21 19:13:25 1992 ./rs2_n1448_10
644 123840 May 21 19:13:25 1992 ./rs2_n1448_20
644 123840 May 21 19:13:26 1992 ./rs3_n1448_01
644 123840 May 21 19:13:26 1992 ./rs3_n1448_05
644 123840 May 21 19:13:26 1992 ./rs3_n1448_10
644 123840 May 21 19:13:27 1992 ./rs3_n1448_20
644 123840 May 21 19:13:27 1992 ./rs4_n1448_01
644 123840 May 21 19:13:27 1992 ./rs4_n1448_05
```

```
   644 123840 May 21 19:13:28 1992 ./rs4_n1448_10
   644 123840 May 21 19:13:28 1992 ./rs4_n1448_20
tar: EOF hit on tarfile.

FILE:  10

   755      0 May 21 19:14:10 1992 ./
   644 123840 May 21 19:13:59 1992 ./im1_n2403_01
   644 123840 May 21 19:13:59 1992 ./im1_n2403_05
   644 123840 May 21 19:14:00 1992 ./im1_n2403_10
   644 123840 May 21 19:14:00 1992 ./im1_n2403_20
   644 123840 May 21 19:14:00 1992 ./im2_n2403_01
   644 123840 May 21 19:14:01 1992 ./im2_n2403_05
   644 123840 May 21 19:14:01 1992 ./im2_n2403_10
   644 123840 May 21 19:14:01 1992 ./im2_n2403_20
   644 123840 May 21 19:14:02 1992 ./im3_n2403_01
   644 123840 May 21 19:14:02 1992 ./im3_n2403_05
   644 123840 May 21 19:14:03 1992 ./im3_n2403_10
   644 123840 May 21 19:14:03 1992 ./im3_n2403_20
   644 123840 May 21 19:14:03 1992 ./im4_n2403_01
   644 123840 May 21 19:14:03 1992 ./im4_n2403_05
   644 123840 May 21 19:14:04 1992 ./im4_n2403_10
   644 123840 May 21 19:14:04 1992 ./im4_n2403_20
   644 123840 May 21 19:14:05 1992 ./rs1_n2403_01
   644 123840 May 21 19:14:05 1992 ./rs1_n2403_05
   644 123840 May 21 19:14:05 1992 ./rs1_n2403_10
   644 123840 May 21 19:14:06 1992 ./rs1_n2403_20
   644 123840 May 21 19:14:06 1992 ./rs2_n2403_01
   644 123840 May 21 19:14:07 1992 ./rs2_n2403_05
   644 123840 May 21 19:14:07 1992 ./rs2_n2403_10
   644 123840 May 21 19:14:07 1992 ./rs2_n2403_20
   644 123840 May 21 19:14:08 1992 ./rs3_n2403_01
   644 123840 May 21 19:14:08 1992 ./rs3_n2403_05
   644 123840 May 21 19:14:08 1992 ./rs3_n2403_10
   644 123840 May 21 19:14:09 1992 ./rs3_n2403_20
   644 123840 May 21 19:14:09 1992 ./rs4_n2403_01
   644 123840 May 21 19:14:10 1992 ./rs4_n2403_05
   644 123840 May 21 19:14:10 1992 ./rs4_n2403_10
   644 123840 May 21 19:14:10 1992 ./rs4_n2403_20
tar: EOF hit on tarfile.

FILE:  11

   755      0 May 21 19:15:09 1992 ./
   644 469440 May 21 19:14:42 1992 ./im1_m81_01
   644 469440 May 21 19:14:43 1992 ./im1_m81_05
   644 469440 May 21 19:14:44 1992 ./im1_m81_10
   644 469440 May 21 19:14:44 1992 ./im1_m81_20
   644 469440 May 21 19:14:45 1992 ./im2_m81_01
   644 469440 May 21 19:14:46 1992 ./im2_m81_05
   644 469440 May 21 19:14:47 1992 ./im2_m81_10
   644 469440 May 21 19:14:48 1992 ./im2_m81_20
   644 469440 May 21 19:14:49 1992 ./im3_m81_01
   644 469440 May 21 19:14:50 1992 ./im3_m81_05
   644 469440 May 21 19:14:50 1992 ./im3_m81_10
   644 469440 May 21 19:14:51 1992 ./im3_m81_20
   644 469440 May 21 19:14:53 1992 ./im4_m81_01
   644 469440 May 21 19:14:54 1992 ./im4_m81_05
   644 469440 May 21 19:14:54 1992 ./im4_m81_10
   644 469440 May 21 19:14:55 1992 ./im4_m81_20
   644 469440 May 21 19:14:56 1992 ./rs1_m81_01
   644 469440 May 21 19:14:57 1992 ./rs1_m81_05
   644 469440 May 21 19:14:58 1992 ./rs1_m81_10
   644 469440 May 21 19:14:59 1992 ./rs1_m81_20
   644 469440 May 21 19:15:00 1992 ./rs2_m81_01
   644 469440 May 21 19:15:01 1992 ./rs2_m81_05
```

```
   644 469440 May 21 19:15:02 1992 ./rs2_m81_10
   644 469440 May 21 19:15:02 1992 ./rs2_m81_20
   644 469440 May 21 19:15:03 1992 ./rs3_m81_01
   644 469440 May 21 19:15:04 1992 ./rs3_m81_05
   644 469440 May 21 19:15:05 1992 ./rs3_m81_10
   644 469440 May 21 19:15:06 1992 ./rs3_m81_20
   644 469440 May 21 19:15:07 1992 ./rs4_m81_01
   644 469440 May 21 19:15:08 1992 ./rs4_m81_05
   644 469440 May 21 19:15:09 1992 ./rs4_m81_10
   644 469440 May 21 19:15:10 1992 ./rs4_m81_20
tar: EOF hit on tarfile.

FILE:  12

   755      0 May 21 19:16:38 1992 ./
   644 123840 May 21 19:16:28 1992 ./im1_n3109_01
   644 123840 May 21 19:16:28 1992 ./im1_n3109_05
   644 123840 May 21 19:16:28 1992 ./im1_n3109_10
   644 123840 May 21 19:16:28 1992 ./im1_n3109_20
   644 123840 May 21 19:16:29 1992 ./im2_n3109_01
   644 123840 May 21 19:16:29 1992 ./im2_n3109_05
   644 123840 May 21 19:16:29 1992 ./im2_n3109_10
   644 123840 May 21 19:16:30 1992 ./im2_n3109_20
   644 123840 May 21 19:16:30 1992 ./im3_n3109_01
   644 123840 May 21 19:16:30 1992 ./im3_n3109_05
   644 123840 May 21 19:16:31 1992 ./im3_n3109_10
   644 123840 May 21 19:16:31 1992 ./im3_n3109_20
   644 123840 May 21 19:16:31 1992 ./im4_n3109_01
   644 123840 May 21 19:16:32 1992 ./im4_n3109_05
   644 123840 May 21 19:16:32 1992 ./im4_n3109_10
   644 123840 May 21 19:16:32 1992 ./im4_n3109_20
   644 123840 May 21 19:16:33 1992 ./rs1_n3109_01
   644 123840 May 21 19:16:33 1992 ./rs1_n3109_05
   644 123840 May 21 19:16:33 1992 ./rs1_n3109_10
   644 123840 May 21 19:16:34 1992 ./rs1_n3109_20
   644 123840 May 21 19:16:34 1992 ./rs2_n3109_01
   644 123840 May 21 19:16:34 1992 ./rs2_n3109_05
   644 123840 May 21 19:16:35 1992 ./rs2_n3109_10
   644 123840 May 21 19:16:35 1992 ./rs2_n3109_20
   644 123840 May 21 19:16:36 1992 ./rs3_n3109_01
   644 123840 May 21 19:16:36 1992 ./rs3_n3109_05
   644 123840 May 21 19:16:36 1992 ./rs3_n3109_10
   644 123840 May 21 19:16:37 1992 ./rs3_n3109_20
   644 123840 May 21 19:16:37 1992 ./rs4_n3109_01
   644 123840 May 21 19:16:37 1992 ./rs4_n3109_05
   644 123840 May 21 19:16:38 1992 ./rs4_n3109_10
   644 123840 May 21 19:16:38 1992 ./rs4_n3109_20
tar: EOF hit on tarfile.

FILE:  13

   755      0 May 21 19:17:20 1992 ./
   644 123840 May 21 19:17:09 1992 ./im1_i2574_01
   644 123840 May 21 19:17:09 1992 ./im1_i2574_05
   644 123840 May 21 19:17:10 1992 ./im1_i2574_10
   644 123840 May 21 19:17:10 1992 ./im1_i2574_20
   644 123840 May 21 19:17:10 1992 ./im2_i2574_01
   644 123840 May 21 19:17:11 1992 ./im2_i2574_05
   644 123840 May 21 19:17:11 1992 ./im2_i2574_10
   644 123840 May 21 19:17:11 1992 ./im2_i2574_20
   644 123840 May 21 19:17:12 1992 ./im3_i2574_01
   644 123840 May 21 19:17:12 1992 ./im3_i2574_05
   644 123840 May 21 19:17:12 1992 ./im3_i2574_10
   644 123840 May 21 19:17:13 1992 ./im3_i2574_20
   644 123840 May 21 19:17:13 1992 ./im4_i2574_01
   644 123840 May 21 19:17:13 1992 ./im4_i2574_05
```

```
   644 123840 May 21 19:17:14 1992 ./im4_i2574_10
   644 123840 May 21 19:17:14 1992 ./im4_i2574_20
   644 123840 May 21 19:17:14 1992 ./rs1_i2574_01
   644 123840 May 21 19:17:15 1992 ./rs1_i2574_05
   644 123840 May 21 19:17:15 1992 ./rs1_i2574_10
   644 123840 May 21 19:17:15 1992 ./rs1_i2574_20
   644 123840 May 21 19:17:16 1992 ./rs2_i2574_01
   644 123840 May 21 19:17:16 1992 ./rs2_i2574_05
   644 123840 May 21 19:17:17 1992 ./rs2_i2574_10
   644 123840 May 21 19:17:17 1992 ./rs2_i2574_20
   644 123840 May 21 19:17:17 1992 ./rs3_i2574_01
   644 123840 May 21 19:17:18 1992 ./rs3_i2574_05
   644 123840 May 21 19:17:18 1992 ./rs3_i2574_10
   644 123840 May 21 19:17:18 1992 ./rs3_i2574_20
   644 123840 May 21 19:17:19 1992 ./rs4_i2574_01
   644 123840 May 21 19:17:19 1992 ./rs4_i2574_05
   644 123840 May 21 19:17:20 1992 ./rs4_i2574_10
   644 123840 May 21 19:17:20 1992 ./rs4_i2574_20
tar: EOF hit on tarfile.

FILE:  14

   755      0 May 21 19:18:03 1992 ./
   644 123840 May 21 19:17:51 1992 ./im1_n3628_01
   644 123840 May 21 19:17:51 1992 ./im1_n3628_05
   644 123840 May 21 19:17:51 1992 ./im1_n3628_10
   644 123840 May 21 19:17:52 1992 ./im1_n3628_20
   644 123840 May 21 19:17:52 1992 ./im2_n3628_01
   644 123840 May 21 19:17:53 1992 ./im2_n3628_05
   644 123840 May 21 19:17:53 1992 ./im2_n3628_10
   644 123840 May 21 19:17:53 1992 ./im2_n3628_20
   644 123840 May 21 19:17:54 1992 ./im3_n3628_01
   644 123840 May 21 19:17:54 1992 ./im3_n3628_05
   644 123840 May 21 19:17:54 1992 ./im3_n3628_10
   644 123840 May 21 19:17:55 1992 ./im3_n3628_20
   644 123840 May 21 19:17:55 1992 ./im4_n3628_01
   644 123840 May 21 19:17:55 1992 ./im4_n3628_05
   644 123840 May 21 19:17:56 1992 ./im4_n3628_10
   644 123840 May 21 19:17:56 1992 ./im4_n3628_20
   644 123840 May 21 19:17:56 1992 ./rs1_n3628_01
   644 123840 May 21 19:17:57 1992 ./rs1_n3628_05
   644 123840 May 21 19:17:57 1992 ./rs1_n3628_10
   644 123840 May 21 19:17:57 1992 ./rs1_n3628_20
   644 123840 May 21 19:17:58 1992 ./rs2_n3628_01
   644 123840 May 21 19:17:58 1992 ./rs2_n3628_05
   644 123840 May 21 19:17:59 1992 ./rs2_n3628_10
   644 123840 May 21 19:18:00 1992 ./rs2_n3628_20
   644 123840 May 21 19:18:01 1992 ./rs3_n3628_01
   644 123840 May 21 19:18:01 1992 ./rs3_n3628_05
   644 123840 May 21 19:18:02 1992 ./rs3_n3628_10
   644 123840 May 21 19:18:02 1992 ./rs3_n3628_20
   644 123840 May 21 19:18:02 1992 ./rs4_n3628_01
   644 123840 May 21 19:18:03 1992 ./rs4_n3628_05
   644 123840 May 21 19:18:03 1992 ./rs4_n3628_10
   644 123840 May 21 19:18:03 1992 ./rs4_n3628_20
tar: EOF hit on tarfile.

FILE:  15

   755      0 May 21 19:18:47 1992 ./
   644 123840 May 21 19:18:36 1992 ./im1_n4236_01
   644 123840 May 21 19:18:36 1992 ./im1_n4236_05
   644 123840 May 21 19:18:37 1992 ./im1_n4236_10
   644 123840 May 21 19:18:37 1992 ./im1_n4236_20
   644 123840 May 21 19:18:37 1992 ./im2_n4236_01
   644 123840 May 21 19:18:38 1992 ./im2_n4236_05
```

```
   644 123840 May 21 19:18:38 1992 ./im2_n4236_10
   644 123840 May 21 19:18:38 1992 ./im2_n4236_20
   644 123840 May 21 19:18:39 1992 ./im3_n4236_01
   644 123840 May 21 19:18:39 1992 ./im3_n4236_05
   644 123840 May 21 19:18:39 1992 ./im3_n4236_10
   644 123840 May 21 19:18:40 1992 ./im3_n4236_20
   644 123840 May 21 19:18:40 1992 ./im4_n4236_01
   644 123840 May 21 19:18:40 1992 ./im4_n4236_05
   644 123840 May 21 19:18:41 1992 ./im4_n4236_10
   644 123840 May 21 19:18:41 1992 ./im4_n4236_20
   644 123840 May 21 19:18:41 1992 ./rs1_n4236_01
   644 123840 May 21 19:18:42 1992 ./rs1_n4236_05
   644 123840 May 21 19:18:42 1992 ./rs1_n4236_10
   644 123840 May 21 19:18:42 1992 ./rs1_n4236_20
   644 123840 May 21 19:18:43 1992 ./rs2_n4236_01
   644 123840 May 21 19:18:43 1992 ./rs2_n4236_05
   644 123840 May 21 19:18:44 1992 ./rs2_n4236_10
   644 123840 May 21 19:18:44 1992 ./rs2_n4236_20
   644 123840 May 21 19:18:44 1992 ./rs3_n4236_01
   644 123840 May 21 19:18:45 1992 ./rs3_n4236_05
   644 123840 May 21 19:18:45 1992 ./rs3_n4236_10
   644 123840 May 21 19:18:45 1992 ./rs3_n4236_20
   644 123840 May 21 19:18:46 1992 ./rs4_n4236_01
   644 123840 May 21 19:18:46 1992 ./rs4_n4236_05
   644 123840 May 21 19:18:46 1992 ./rs4_n4236_10
   644 123840 May 21 19:18:47 1992 ./rs4_n4236_20
tar: EOF hit on tarfile.

FILE:  16

   755      0 May 21 19:19:29 1992 ./
   644 123840 May 21 19:19:19 1992 ./im1_n4244_01
   644 123840 May 21 19:19:19 1992 ./im1_n4244_05
   644 123840 May 21 19:19:20 1992 ./im1_n4244_10
   644 123840 May 21 19:19:20 1992 ./im1_n4244_20
   644 123840 May 21 19:19:20 1992 ./im2_n4244_01
   644 123840 May 21 19:19:21 1992 ./im2_n4244_05
   644 123840 May 21 19:19:21 1992 ./im2_n4244_10
   644 123840 May 21 19:19:21 1992 ./im2_n4244_20
   644 123840 May 21 19:19:22 1992 ./im3_n4244_01
   644 123840 May 21 19:19:22 1992 ./im3_n4244_05
   644 123840 May 21 19:19:22 1992 ./im3_n4244_10
   644 123840 May 21 19:19:22 1992 ./im3_n4244_20
   644 123840 May 21 19:19:23 1992 ./im4_n4244_01
   644 123840 May 21 19:19:23 1992 ./im4_n4244_05
   644 123840 May 21 19:19:23 1992 ./im4_n4244_10
   644 123840 May 21 19:19:24 1992 ./im4_n4244_20
   644 123840 May 21 19:19:24 1992 ./rs1_n4244_01
   644 123840 May 21 19:19:25 1992 ./rs1_n4244_05
   644 123840 May 21 19:19:25 1992 ./rs1_n4244_10
   644 123840 May 21 19:19:25 1992 ./rs1_n4244_20
   644 123840 May 21 19:19:26 1992 ./rs2_n4244_01
   644 123840 May 21 19:19:26 1992 ./rs2_n4244_05
   644 123840 May 21 19:19:26 1992 ./rs2_n4244_10
   644 123840 May 21 19:19:27 1992 ./rs2_n4244_20
   644 123840 May 21 19:19:27 1992 ./rs3_n4244_01
   644 123840 May 21 19:19:28 1992 ./rs3_n4244_05
   644 123840 May 21 19:19:28 1992 ./rs3_n4244_10
   644 123840 May 21 19:19:28 1992 ./rs3_n4244_20
   644 123840 May 21 19:19:29 1992 ./rs4_n4244_01
   644 123840 May 21 19:19:29 1992 ./rs4_n4244_05
   644 123840 May 21 19:19:29 1992 ./rs4_n4244_10
   644 123840 May 21 19:19:30 1992 ./rs4_n4244_20
tar: EOF hit on tarfile.

FILE:  17
```

```
755      0 May 21 19:20:11 1992 ./
644 123840 May 21 19:20:01 1992 ./im1_n4258_01
644 123840 May 21 19:20:01 1992 ./im1_n4258_05
644 123840 May 21 19:20:01 1992 ./im1_n4258_10
644 123840 May 21 19:20:01 1992 ./im1_n4258_20
644 123840 May 21 19:20:02 1992 ./im2_n4258_01
644 123840 May 21 19:20:02 1992 ./im2_n4258_05
644 123840 May 21 19:20:02 1992 ./im2_n4258_10
644 123840 May 21 19:20:03 1992 ./im2_n4258_20
644 123840 May 21 19:20:03 1992 ./im3_n4258_01
644 123840 May 21 19:20:03 1992 ./im3_n4258_05
644 123840 May 21 19:20:04 1992 ./im3_n4258_10
644 123840 May 21 19:20:04 1992 ./im3_n4258_20
644 123840 May 21 19:20:04 1992 ./im4_n4258_01
644 123840 May 21 19:20:04 1992 ./im4_n4258_05
644 123840 May 21 19:20:05 1992 ./im4_n4258_10
644 123840 May 21 19:20:05 1992 ./im4_n4258_20
644 123840 May 21 19:20:05 1992 ./rs1_n4258_01
644 123840 May 21 19:20:06 1992 ./rs1_n4258_05
644 123840 May 21 19:20:07 1992 ./rs1_n4258_10
644 123840 May 21 19:20:07 1992 ./rs1_n4258_20
644 123840 May 21 19:20:08 1992 ./rs2_n4258_01
644 123840 May 21 19:20:08 1992 ./rs2_n4258_05
644 123840 May 21 19:20:08 1992 ./rs2_n4258_10
644 123840 May 21 19:20:09 1992 ./rs2_n4258_20
644 123840 May 21 19:20:09 1992 ./rs3_n4258_01
644 123840 May 21 19:20:09 1992 ./rs3_n4258_05
644 123840 May 21 19:20:10 1992 ./rs3_n4258_10
644 123840 May 21 19:20:10 1992 ./rs3_n4258_20
644 123840 May 21 19:20:11 1992 ./rs4_n4258_01
644 123840 May 21 19:20:11 1992 ./rs4_n4258_05
644 123840 May 21 19:20:11 1992 ./rs4_n4258_10
644 123840 May 21 19:20:12 1992 ./rs4_n4258_20
tar: EOF hit on tarfile.

FILE:  18

755      0 May 21 19:20:53 1992 ./
644 123840 May 21 19:20:43 1992 ./im1_n4395_01
644 123840 May 21 19:20:43 1992 ./im1_n4395_05
644 123840 May 21 19:20:43 1992 ./im1_n4395_10
644 123840 May 21 19:20:44 1992 ./im1_n4395_20
644 123840 May 21 19:20:44 1992 ./im2_n4395_01
644 123840 May 21 19:20:44 1992 ./im2_n4395_05
644 123840 May 21 19:20:45 1992 ./im2_n4395_10
644 123840 May 21 19:20:45 1992 ./im2_n4395_20
644 123840 May 21 19:20:45 1992 ./im3_n4395_01
644 123840 May 21 19:20:46 1992 ./im3_n4395_05
644 123840 May 21 19:20:46 1992 ./im3_n4395_10
644 123840 May 21 19:20:46 1992 ./im3_n4395_20
644 123840 May 21 19:20:47 1992 ./im4_n4395_01
644 123840 May 21 19:20:47 1992 ./im4_n4395_05
644 123840 May 21 19:20:47 1992 ./im4_n4395_10
644 123840 May 21 19:20:48 1992 ./im4_n4395_20
644 123840 May 21 19:20:48 1992 ./rs1_n4395_01
644 123840 May 21 19:20:48 1992 ./rs1_n4395_05
644 123840 May 21 19:20:49 1992 ./rs1_n4395_10
644 123840 May 21 19:20:49 1992 ./rs1_n4395_20
644 123840 May 21 19:20:49 1992 ./rs2_n4395_01
644 123840 May 21 19:20:50 1992 ./rs2_n4395_05
644 123840 May 21 19:20:50 1992 ./rs2_n4395_10
644 123840 May 21 19:20:50 1992 ./rs2_n4395_20
644 123840 May 21 19:20:51 1992 ./rs3_n4395_01
644 123840 May 21 19:20:51 1992 ./rs3_n4395_05
644 123840 May 21 19:20:52 1992 ./rs3_n4395_10
```

```
644 123840 May 21 19:20:52 1992 ./rs3_n4395_20
644 123840 May 21 19:20:52 1992 ./rs4_n4395_01
644 123840 May 21 19:20:53 1992 ./rs4_n4395_05
644 123840 May 21 19:20:53 1992 ./rs4_n4395_10
644 123840 May 21 19:20:53 1992 ./rs4_n4395_20
tar: EOF hit on tarfile.
```

FILE: 19

```
755      0 May 21 19:21:35 1992 ./
644 123840 May 21 19:21:24 1992 ./im1_n4565_01
644 123840 May 21 19:21:25 1992 ./im1_n4565_05
644 123840 May 21 19:21:25 1992 ./im1_n4565_10
644 123840 May 21 19:21:25 1992 ./im1_n4565_20
644 123840 May 21 19:21:26 1992 ./im2_n4565_01
644 123840 May 21 19:21:26 1992 ./im2_n4565_05
644 123840 May 21 19:21:26 1992 ./im2_n4565_10
644 123840 May 21 19:21:27 1992 ./im2_n4565_20
644 123840 May 21 19:21:27 1992 ./im3_n4565_01
644 123840 May 21 19:21:27 1992 ./im3_n4565_05
644 123840 May 21 19:21:28 1992 ./im3_n4565_10
644 123840 May 21 19:21:28 1992 ./im3_n4565_20
644 123840 May 21 19:21:28 1992 ./im4_n4565_01
644 123840 May 21 19:21:29 1992 ./im4_n4565_05
644 123840 May 21 19:21:29 1992 ./im4_n4565_10
644 123840 May 21 19:21:29 1992 ./im4_n4565_20
644 123840 May 21 19:21:30 1992 ./rs1_n4565_01
644 123840 May 21 19:21:30 1992 ./rs1_n4565_05
644 123840 May 21 19:21:30 1992 ./rs1_n4565_10
644 123840 May 21 19:21:31 1992 ./rs1_n4565_20
644 123840 May 21 19:21:31 1992 ./rs2_n4565_01
644 123840 May 21 19:21:32 1992 ./rs2_n4565_05
644 123840 May 21 19:21:32 1992 ./rs2_n4565_10
644 123840 May 21 19:21:32 1992 ./rs2_n4565_20
644 123840 May 21 19:21:33 1992 ./rs3_n4565_01
644 123840 May 21 19:21:33 1992 ./rs3_n4565_05
644 123840 May 21 19:21:34 1992 ./rs3_n4565_10
644 123840 May 21 19:21:34 1992 ./rs3_n4565_20
644 123840 May 21 19:21:34 1992 ./rs4_n4565_01
644 123840 May 21 19:21:35 1992 ./rs4_n4565_05
644 123840 May 21 19:21:35 1992 ./rs4_n4565_10
644 123840 May 21 19:21:35 1992 ./rs4_n4565_20
tar: EOF hit on tarfile.
```

FILE: 20

```
755      0 May 21 19:22:18 1992 ./
644 123840 May 21 19:22:06 1992 ./im1_n4631_01
644 123840 May 21 19:22:07 1992 ./im1_n4631_05
644 123840 May 21 19:22:07 1992 ./im1_n4631_10
644 123840 May 21 19:22:07 1992 ./im1_n4631_20
644 123840 May 21 19:22:08 1992 ./im2_n4631_01
644 123840 May 21 19:22:08 1992 ./im2_n4631_05
644 123840 May 21 19:22:08 1992 ./im2_n4631_10
644 123840 May 21 19:22:09 1992 ./im2_n4631_20
644 123840 May 21 19:22:09 1992 ./im3_n4631_01
644 123840 May 21 19:22:09 1992 ./im3_n4631_05
644 123840 May 21 19:22:10 1992 ./im3_n4631_10
644 123840 May 21 19:22:10 1992 ./im3_n4631_20
644 123840 May 21 19:22:10 1992 ./im4_n4631_01
644 123840 May 21 19:22:11 1992 ./im4_n4631_05
644 123840 May 21 19:22:11 1992 ./im4_n4631_10
644 123840 May 21 19:22:12 1992 ./im4_n4631_20
644 123840 May 21 19:22:13 1992 ./rs1_n4631_01
644 123840 May 21 19:22:13 1992 ./rs1_n4631_05
644 123840 May 21 19:22:14 1992 ./rs1_n4631_10
```

```
   644 123840 May 21 19:22:14 1992 ./rs1_n4631_20
   644 123840 May 21 19:22:14 1992 ./rs2_n4631_01
   644 123840 May 21 19:22:15 1992 ./rs2_n4631_05
   644 123840 May 21 19:22:15 1992 ./rs2_n4631_10
   644 123840 May 21 19:22:15 1992 ./rs2_n4631_20
   644 123840 May 21 19:22:16 1992 ./rs3_n4631_01
   644 123840 May 21 19:22:16 1992 ./rs3_n4631_05
   644 123840 May 21 19:22:17 1992 ./rs3_n4631_10
   644 123840 May 21 19:22:17 1992 ./rs3_n4631_20
   644 123840 May 21 19:22:17 1992 ./rs4_n4631_01
   644 123840 May 21 19:22:18 1992 ./rs4_n4631_05
   644 123840 May 21 19:22:18 1992 ./rs4_n4631_10
   644 123840 May 21 19:22:18 1992 ./rs4_n4631_20
tar: EOF hit on tarfile.

FILE:  21

   755      0 May 21 19:23:02 1992 ./
   644 123840 May 21 19:22:51 1992 ./im1_n4656_01
   644 123840 May 21 19:22:52 1992 ./im1_n4656_05
   644 123840 May 21 19:22:52 1992 ./im1_n4656_10
   644 123840 May 21 19:22:52 1992 ./im1_n4656_20
   644 123840 May 21 19:22:53 1992 ./im2_n4656_01
   644 123840 May 21 19:22:53 1992 ./im2_n4656_05
   644 123840 May 21 19:22:53 1992 ./im2_n4656_10
   644 123840 May 21 19:22:54 1992 ./im2_n4656_20
   644 123840 May 21 19:22:54 1992 ./im3_n4656_01
   644 123840 May 21 19:22:55 1992 ./im3_n4656_05
   644 123840 May 21 19:22:55 1992 ./im3_n4656_10
   644 123840 May 21 19:22:55 1992 ./im3_n4656_20
   644 123840 May 21 19:22:55 1992 ./im4_n4656_01
   644 123840 May 21 19:22:56 1992 ./im4_n4656_05
   644 123840 May 21 19:22:56 1992 ./im4_n4656_10
   644 123840 May 21 19:22:56 1992 ./im4_n4656_20
   644 123840 May 21 19:22:57 1992 ./rs1_n4656_01
   644 123840 May 21 19:22:57 1992 ./rs1_n4656_05
   644 123840 May 21 19:22:57 1992 ./rs1_n4656_10
   644 123840 May 21 19:22:58 1992 ./rs1_n4656_20
   644 123840 May 21 19:22:58 1992 ./rs2_n4656_01
   644 123840 May 21 19:22:59 1992 ./rs2_n4656_05
   644 123840 May 21 19:22:59 1992 ./rs2_n4656_10
   644 123840 May 21 19:22:59 1992 ./rs2_n4656_20
   644 123840 May 21 19:23:00 1992 ./rs3_n4656_01
   644 123840 May 21 19:23:00 1992 ./rs3_n4656_05
   644 123840 May 21 19:23:01 1992 ./rs3_n4656_10
   644 123840 May 21 19:23:01 1992 ./rs3_n4656_20
   644 123840 May 21 19:23:01 1992 ./rs4_n4656_01
   644 123840 May 21 19:23:02 1992 ./rs4_n4656_05
   644 123840 May 21 19:23:02 1992 ./rs4_n4656_10
   644 123840 May 21 19:23:02 1992 ./rs4_n4656_20
tar: EOF hit on tarfile.

FILE:  22

   755      0 May 21 19:23:44 1992 ./
   644 123840 May 21 19:23:33 1992 ./im1_n4725_01
   644 123840 May 21 19:23:34 1992 ./im1_n4725_05
   644 123840 May 21 19:23:34 1992 ./im1_n4725_10
   644 123840 May 21 19:23:34 1992 ./im1_n4725_20
   644 123840 May 21 19:23:35 1992 ./im2_n4725_01
   644 123840 May 21 19:23:35 1992 ./im2_n4725_05
   644 123840 May 21 19:23:35 1992 ./im2_n4725_10
   644 123840 May 21 19:23:36 1992 ./im2_n4725_20
   644 123840 May 21 19:23:36 1992 ./im3_n4725_01
   644 123840 May 21 19:23:36 1992 ./im3_n4725_05
   644 123840 May 21 19:23:37 1992 ./im3_n4725_10
```

```
   644 123840 May 21 19:23:37 1992 ./im3_n4725_20
   644 123840 May 21 19:23:37 1992 ./im4_n4725_01
   644 123840 May 21 19:23:37 1992 ./im4_n4725_05
   644 123840 May 21 19:23:38 1992 ./im4_n4725_10
   644 123840 May 21 19:23:38 1992 ./im4_n4725_20
   644 123840 May 21 19:23:39 1992 ./rs1_n4725_01
   644 123840 May 21 19:23:39 1992 ./rs1_n4725_05
   644 123840 May 21 19:23:39 1992 ./rs1_n4725_10
   644 123840 May 21 19:23:40 1992 ./rs1_n4725_20
   644 123840 May 21 19:23:40 1992 ./rs2_n4725_01
   644 123840 May 21 19:23:41 1992 ./rs2_n4725_05
   644 123840 May 21 19:23:41 1992 ./rs2_n4725_10
   644 123840 May 21 19:23:41 1992 ./rs2_n4725_20
   644 123840 May 21 19:23:42 1992 ./rs3_n4725_01
   644 123840 May 21 19:23:42 1992 ./rs3_n4725_05
   644 123840 May 21 19:23:43 1992 ./rs3_n4725_10
   644 123840 May 21 19:23:43 1992 ./rs3_n4725_20
   644 123840 May 21 19:23:43 1992 ./rs4_n4725_01
   644 123840 May 21 19:23:44 1992 ./rs4_n4725_05
   644 123840 May 21 19:23:44 1992 ./rs4_n4725_10
   644 123840 May 21 19:23:44 1992 ./rs4_n4725_20
tar: EOF hit on tarfile.

FILE:  23

   755      0 May 21 19:24:26 1992 ./
   644 123840 May 21 19:24:15 1992 ./im1_n4945_01
   644 123840 May 21 19:24:16 1992 ./im1_n4945_05
   644 123840 May 21 19:24:16 1992 ./im1_n4945_10
   644 123840 May 21 19:24:16 1992 ./im1_n4945_20
   644 123840 May 21 19:24:17 1992 ./im2_n4945_01
   644 123840 May 21 19:24:17 1992 ./im2_n4945_05
   644 123840 May 21 19:24:17 1992 ./im2_n4945_10
   644 123840 May 21 19:24:18 1992 ./im2_n4945_20
   644 123840 May 21 19:24:19 1992 ./im3_n4945_01
   644 123840 May 21 19:24:19 1992 ./im3_n4945_05
   644 123840 May 21 19:24:19 1992 ./im3_n4945_10
   644 123840 May 21 19:24:19 1992 ./im3_n4945_20
   644 123840 May 21 19:24:20 1992 ./im4_n4945_01
   644 123840 May 21 19:24:20 1992 ./im4_n4945_05
   644 123840 May 21 19:24:20 1992 ./im4_n4945_10
   644 123840 May 21 19:24:21 1992 ./im4_n4945_20
   644 123840 May 21 19:24:21 1992 ./rs1_n4945_01
   644 123840 May 21 19:24:21 1992 ./rs1_n4945_05
   644 123840 May 21 19:24:22 1992 ./rs1_n4945_10
   644 123840 May 21 19:24:22 1992 ./rs1_n4945_20
   644 123840 May 21 19:24:22 1992 ./rs2_n4945_01
   644 123840 May 21 19:24:23 1992 ./rs2_n4945_05
   644 123840 May 21 19:24:23 1992 ./rs2_n4945_10
   644 123840 May 21 19:24:24 1992 ./rs2_n4945_20
   644 123840 May 21 19:24:24 1992 ./rs3_n4945_01
   644 123840 May 21 19:24:24 1992 ./rs3_n4945_05
   644 123840 May 21 19:24:25 1992 ./rs3_n4945_10
   644 123840 May 21 19:24:25 1992 ./rs3_n4945_20
   644 123840 May 21 19:24:26 1992 ./rs4_n4945_01
   644 123840 May 21 19:24:26 1992 ./rs4_n4945_05
   644 123840 May 21 19:24:26 1992 ./rs4_n4945_10
   644 123840 May 21 19:24:27 1992 ./rs4_n4945_20
tar: EOF hit on tarfile.

FILE:  24

   755      0 May 21 19:25:11 1992 ./
   644 123840 May 21 19:25:00 1992 ./im1_n5055_01
   644 123840 May 21 19:25:00 1992 ./im1_n5055_05
   644 123840 May 21 19:25:01 1992 ./im1_n5055_10
```

```
644 123840 May 21 19:25:01 1992 ./im1_n5055_20
644 123840 May 21 19:25:01 1992 ./im2_n5055_01
644 123840 May 21 19:25:02 1992 ./im2_n5055_05
644 123840 May 21 19:25:02 1992 ./im2_n5055_10
644 123840 May 21 19:25:02 1992 ./im2_n5055_20
644 123840 May 21 19:25:03 1992 ./im3_n5055_01
644 123840 May 21 19:25:03 1992 ./im3_n5055_05
644 123840 May 21 19:25:03 1992 ./im3_n5055_10
644 123840 May 21 19:25:04 1992 ./im3_n5055_20
644 123840 May 21 19:25:04 1992 ./im4_n5055_01
644 123840 May 21 19:25:04 1992 ./im4_n5055_05
644 123840 May 21 19:25:04 1992 ./im4_n5055_10
644 123840 May 21 19:25:05 1992 ./im4_n5055_20
644 123840 May 21 19:25:05 1992 ./rs1_n5055_01
644 123840 May 21 19:25:05 1992 ./rs1_n5055_05
644 123840 May 21 19:25:06 1992 ./rs1_n5055_10
644 123840 May 21 19:25:06 1992 ./rs1_n5055_20
644 123840 May 21 19:25:07 1992 ./rs2_n5055_01
644 123840 May 21 19:25:07 1992 ./rs2_n5055_05
644 123840 May 21 19:25:07 1992 ./rs2_n5055_10
644 123840 May 21 19:25:08 1992 ./rs2_n5055_20
644 123840 May 21 19:25:08 1992 ./rs3_n5055_01
644 123840 May 21 19:25:09 1992 ./rs3_n5055_05
644 123840 May 21 19:25:09 1992 ./rs3_n5055_10
644 123840 May 21 19:25:09 1992 ./rs3_n5055_20
644 123840 May 21 19:25:10 1992 ./rs4_n5055_01
644 123840 May 21 19:25:10 1992 ./rs4_n5055_05
644 123840 May 21 19:25:10 1992 ./rs4_n5055_10
644 123840 May 21 19:25:11 1992 ./rs4_n5055_20
tar: EOF hit on tarfile.

FILE:  25

755      0 May 21 19:25:57 1992 ./
644 123840 May 21 19:25:46 1992 ./im1_m51_01
644 123840 May 21 19:25:46 1992 ./im1_m51_05
644 123840 May 21 19:25:47 1992 ./im1_m51_10
644 123840 May 21 19:25:47 1992 ./im1_m51_20
644 123840 May 21 19:25:47 1992 ./im2_m51_01
644 123840 May 21 19:25:48 1992 ./im2_m51_05
644 123840 May 21 19:25:48 1992 ./im2_m51_10
644 123840 May 21 19:25:48 1992 ./im2_m51_20
644 123840 May 21 19:25:49 1992 ./im3_m51_01
644 123840 May 21 19:25:49 1992 ./im3_m51_05
644 123840 May 21 19:25:49 1992 ./im3_m51_10
644 123840 May 21 19:25:50 1992 ./im3_m51_20
644 123840 May 21 19:25:50 1992 ./im4_m51_01
644 123840 May 21 19:25:50 1992 ./im4_m51_05
644 123840 May 21 19:25:51 1992 ./im4_m51_10
644 123840 May 21 19:25:51 1992 ./im4_m51_20
644 123840 May 21 19:25:52 1992 ./rs1_m51_01
644 123840 May 21 19:25:52 1992 ./rs1_m51_05
644 123840 May 21 19:25:53 1992 ./rs1_m51_10
644 123840 May 21 19:25:53 1992 ./rs1_m51_20
644 123840 May 21 19:25:54 1992 ./rs2_m51_01
644 123840 May 21 19:25:54 1992 ./rs2_m51_05
644 123840 May 21 19:25:54 1992 ./rs2_m51_10
644 123840 May 21 19:25:54 1992 ./rs2_m51_20
644 123840 May 21 19:25:55 1992 ./rs3_m51_01
644 123840 May 21 19:25:55 1992 ./rs3_m51_05
644 123840 May 21 19:25:55 1992 ./rs3_m51_10
644 123840 May 21 19:25:56 1992 ./rs3_m51_20
644 123840 May 21 19:25:56 1992 ./rs4_m51_01
644 123840 May 21 19:25:56 1992 ./rs4_m51_05
644 123840 May 21 19:25:57 1992 ./rs4_m51_10
644 123840 May 21 19:25:57 1992 ./rs4_m51_20
```

```
tar: EOF hit on tarfile.

FILE:  26

   755      0 May 21 19:26:42 1992 ./
   644 123840 May 21 19:26:32 1992 ./im1_m83_01
   644 123840 May 21 19:26:32 1992 ./im1_m83_05
   644 123840 May 21 19:26:32 1992 ./im1_m83_10
   644 123840 May 21 19:26:32 1992 ./im1_m83_20
   644 123840 May 21 19:26:33 1992 ./im2_m83_01
   644 123840 May 21 19:26:33 1992 ./im2_m83_05
   644 123840 May 21 19:26:33 1992 ./im2_m83_10
   644 123840 May 21 19:26:34 1992 ./im2_m83_20
   644 123840 May 21 19:26:34 1992 ./im3_m83_01
   644 123840 May 21 19:26:34 1992 ./im3_m83_05
   644 123840 May 21 19:26:35 1992 ./im3_m83_10
   644 123840 May 21 19:26:35 1992 ./im3_m83_20
   644 123840 May 21 19:26:35 1992 ./im4_m83_01
   644 123840 May 21 19:26:36 1992 ./im4_m83_05
   644 123840 May 21 19:26:36 1992 ./im4_m83_10
   644 123840 May 21 19:26:36 1992 ./im4_m83_20
   644 123840 May 21 19:26:37 1992 ./rs1_m83_01
   644 123840 May 21 19:26:37 1992 ./rs1_m83_05
   644 123840 May 21 19:26:37 1992 ./rs1_m83_10
   644 123840 May 21 19:26:38 1992 ./rs1_m83_20
   644 123840 May 21 19:26:38 1992 ./rs2_m83_01
   644 123840 May 21 19:26:39 1992 ./rs2_m83_05
   644 123840 May 21 19:26:39 1992 ./rs2_m83_10
   644 123840 May 21 19:26:39 1992 ./rs2_m83_20
   644 123840 May 21 19:26:40 1992 ./rs3_m83_01
   644 123840 May 21 19:26:40 1992 ./rs3_m83_05
   644 123840 May 21 19:26:40 1992 ./rs3_m83_10
   644 123840 May 21 19:26:41 1992 ./rs3_m83_20
   644 123840 May 21 19:26:41 1992 ./rs4_m83_01
   644 123840 May 21 19:26:41 1992 ./rs4_m83_05
   644 123840 May 21 19:26:42 1992 ./rs4_m83_10
   644 123840 May 21 19:26:42 1992 ./rs4_m83_20
tar: EOF hit on tarfile.

FILE:  27

   755      0 May 21 19:27:27 1992 ./
   644 123840 May 21 19:27:15 1992 ./im1_m101_01
   644 123840 May 21 19:27:15 1992 ./im1_m101_05
   644 123840 May 21 19:27:16 1992 ./im1_m101_10
   644 123840 May 21 19:27:16 1992 ./im1_m101_20
   644 123840 May 21 19:27:16 1992 ./im2_m101_01
   644 123840 May 21 19:27:17 1992 ./im2_m101_05
   644 123840 May 21 19:27:17 1992 ./im2_m101_10
   644 123840 May 21 19:27:17 1992 ./im2_m101_20
   644 123840 May 21 19:27:18 1992 ./im3_m101_01
   644 123840 May 21 19:27:18 1992 ./im3_m101_05
   644 123840 May 21 19:27:18 1992 ./im3_m101_10
   644 123840 May 21 19:27:19 1992 ./im3_m101_20
   644 123840 May 21 19:27:19 1992 ./im4_m101_01
   644 123840 May 21 19:27:19 1992 ./im4_m101_05
   644 123840 May 21 19:27:20 1992 ./im4_m101_10
   644 123840 May 21 19:27:20 1992 ./im4_m101_20
   644 123840 May 21 19:27:20 1992 ./rs1_m101_01
   644 123840 May 21 19:27:21 1992 ./rs1_m101_05
   644 123840 May 21 19:27:21 1992 ./rs1_m101_10
   644 123840 May 21 19:27:21 1992 ./rs1_m101_20
   644 123840 May 21 19:27:22 1992 ./rs2_m101_01
   644 123840 May 21 19:27:22 1992 ./rs2_m101_05
   644 123840 May 21 19:27:23 1992 ./rs2_m101_10
   644 123840 May 21 19:27:23 1992 ./rs2_m101_20
```

```
644 123840 May 21 19:27:23 1992 ./rs3_m101_01
644 123840 May 21 19:27:24 1992 ./rs3_m101_05
644 123840 May 21 19:27:24 1992 ./rs3_m101_10
644 123840 May 21 19:27:24 1992 ./rs3_m101_20
644 123840 May 21 19:27:25 1992 ./rs4_m101_01
644 123840 May 21 19:27:26 1992 ./rs4_m101_05
644 123840 May 21 19:27:27 1992 ./rs4_m101_10
644 123840 May 21 19:27:28 1992 ./rs4_m101_20
tar: EOF hit on tarfile.

FILE:  28

755      0 May 21 19:28:11 1992 ./
644 123840 May 21 19:28:01 1992 ./im1_n6744_01
644 123840 May 21 19:28:01 1992 ./im1_n6744_05
644 123840 May 21 19:28:01 1992 ./im1_n6744_10
644 123840 May 21 19:28:02 1992 ./im1_n6744_20
644 123840 May 21 19:28:02 1992 ./im2_n6744_01
644 123840 May 21 19:28:02 1992 ./im2_n6744_05
644 123840 May 21 19:28:02 1992 ./im2_n6744_10
644 123840 May 21 19:28:03 1992 ./im2_n6744_20
644 123840 May 21 19:28:03 1992 ./im3_n6744_01
644 123840 May 21 19:28:04 1992 ./im3_n6744_05
644 123840 May 21 19:28:04 1992 ./im3_n6744_10
644 123840 May 21 19:28:04 1992 ./im3_n6744_20
644 123840 May 21 19:28:05 1992 ./im4_n6744_01
644 123840 May 21 19:28:05 1992 ./im4_n6744_05
644 123840 May 21 19:28:05 1992 ./im4_n6744_10
644 123840 May 21 19:28:06 1992 ./im4_n6744_20
644 123840 May 21 19:28:06 1992 ./rs1_n6744_01
644 123840 May 21 19:28:06 1992 ./rs1_n6744_05
644 123840 May 21 19:28:07 1992 ./rs1_n6744_10
644 123840 May 21 19:28:07 1992 ./rs1_n6744_20
644 123840 May 21 19:28:08 1992 ./rs2_n6744_01
644 123840 May 21 19:28:08 1992 ./rs2_n6744_05
644 123840 May 21 19:28:08 1992 ./rs2_n6744_10
644 123840 May 21 19:28:09 1992 ./rs2_n6744_20
644 123840 May 21 19:28:09 1992 ./rs3_n6744_01
644 123840 May 21 19:28:09 1992 ./rs3_n6744_05
644 123840 May 21 19:28:10 1992 ./rs3_n6744_10
644 123840 May 21 19:28:10 1992 ./rs3_n6744_20
644 123840 May 21 19:28:11 1992 ./rs4_n6744_01
644 123840 May 21 19:28:11 1992 ./rs4_n6744_05
644 123840 May 21 19:28:11 1992 ./rs4_n6744_10
644 123840 May 21 19:28:12 1992 ./rs4_n6744_20
tar: EOF hit on tarfile.

FILE:  29

755      0 May 21 19:28:53 1992 ./
644 123840 May 21 19:28:43 1992 ./im1_n6822_01
644 123840 May 21 19:28:43 1992 ./im1_n6822_05
644 123840 May 21 19:28:43 1992 ./im1_n6822_10
644 123840 May 21 19:28:44 1992 ./im1_n6822_20
644 123840 May 21 19:28:44 1992 ./im2_n6822_01
644 123840 May 21 19:28:44 1992 ./im2_n6822_05
644 123840 May 21 19:28:45 1992 ./im2_n6822_10
644 123840 May 21 19:28:45 1992 ./im2_n6822_20
644 123840 May 21 19:28:45 1992 ./im3_n6822_01
644 123840 May 21 19:28:46 1992 ./im3_n6822_05
644 123840 May 21 19:28:46 1992 ./im3_n6822_10
644 123840 May 21 19:28:46 1992 ./im3_n6822_20
644 123840 May 21 19:28:46 1992 ./im4_n6822_01
644 123840 May 21 19:28:47 1992 ./im4_n6822_05
644 123840 May 21 19:28:47 1992 ./im4_n6822_10
644 123840 May 21 19:28:48 1992 ./im4_n6822_20
```

```
   644 123840 May 21 19:28:48 1992 ./rs1_n6822_01
   644 123840 May 21 19:28:48 1992 ./rs1_n6822_05
   644 123840 May 21 19:28:49 1992 ./rs1_n6822_10
   644 123840 May 21 19:28:49 1992 ./rs1_n6822_20
   644 123840 May 21 19:28:49 1992 ./rs2_n6822_01
   644 123840 May 21 19:28:50 1992 ./rs2_n6822_05
   644 123840 May 21 19:28:50 1992 ./rs2_n6822_10
   644 123840 May 21 19:28:50 1992 ./rs2_n6822_20
   644 123840 May 21 19:28:51 1992 ./rs3_n6822_01
   644 123840 May 21 19:28:51 1992 ./rs3_n6822_05
   644 123840 May 21 19:28:52 1992 ./rs3_n6822_10
   644 123840 May 21 19:28:52 1992 ./rs3_n6822_20
   644 123840 May 21 19:28:52 1992 ./rs4_n6822_01
   644 123840 May 21 19:28:53 1992 ./rs4_n6822_05
   644 123840 May 21 19:28:53 1992 ./rs4_n6822_10
   644 123840 May 21 19:28:54 1992 ./rs4_n6822_20
tar: EOF hit on tarfile.

FILE:  30

   755      0 May 21 19:29:38 1992 ./
   644 123840 May 21 19:29:25 1992 ./im1_n6946_01
   644 123840 May 21 19:29:25 1992 ./im1_n6946_05
   644 123840 May 21 19:29:25 1992 ./im1_n6946_10
   644 123840 May 21 19:29:26 1992 ./im1_n6946_20
   644 123840 May 21 19:29:26 1992 ./im2_n6946_01
   644 123840 May 21 19:29:26 1992 ./im2_n6946_05
   644 123840 May 21 19:29:27 1992 ./im2_n6946_10
   644 123840 May 21 19:29:27 1992 ./im2_n6946_20
   644 123840 May 21 19:29:27 1992 ./im3_n6946_01
   644 123840 May 21 19:29:28 1992 ./im3_n6946_05
   644 123840 May 21 19:29:28 1992 ./im3_n6946_10
   644 123840 May 21 19:29:28 1992 ./im3_n6946_20
   644 239040 May 21 19:29:29 1992 ./im4_n6946_01
   644 239040 May 21 19:29:29 1992 ./im4_n6946_05
   644 239040 May 21 19:29:30 1992 ./im4_n6946_10
   644 239040 May 21 19:29:30 1992 ./im4_n6946_20
   644 123840 May 21 19:29:31 1992 ./rs1_n6946_01
   644 123840 May 21 19:29:31 1992 ./rs1_n6946_05
   644 123840 May 21 19:29:31 1992 ./rs1_n6946_10
   644 123840 May 21 19:29:32 1992 ./rs1_n6946_20
   644 123840 May 21 19:29:32 1992 ./rs2_n6946_01
   644 123840 May 21 19:29:33 1992 ./rs2_n6946_05
   644 123840 May 21 19:29:34 1992 ./rs2_n6946_10
   644 123840 May 21 19:29:35 1992 ./rs2_n6946_20
   644 123840 May 21 19:29:35 1992 ./rs3_n6946_01
   644 123840 May 21 19:29:36 1992 ./rs3_n6946_05
   644 123840 May 21 19:29:36 1992 ./rs3_n6946_10
   644 123840 May 21 19:29:37 1992 ./rs3_n6946_20
   644 123840 May 21 19:29:37 1992 ./rs4_n6946_01
   644 123840 May 21 19:29:37 1992 ./rs4_n6946_05
   644 123840 May 21 19:29:38 1992 ./rs4_n6946_10
   644 123840 May 21 19:29:38 1992 ./rs4_n6946_20
tar: EOF hit on tarfile.
```

FITS Header for File **im1_n55_01**, on Tape **DD-101560**

Created using IDL

```
SIMPLE  =                    T  /  FITS STANDARD
BITPIX  =                   16  /  FITS BITS/PIXEL
NAXIS   =                    3  /  NUMBER OF AXES
NAXIS1  =                  241  /
NAXIS2  =                  241  /
NAXIS3  =                    1  /
BSCALE  =              1.00000 //  REAL = TAPE*BSCALE + BZERO
BZERO   =             0.000000 //
OBJECT  = 'N55     '  /
ORIGIN  = 'KPNO-IRAF'  /
DATE    = '24-09-91'  /
IRAFNAME= 'IM401.imh'  /  NAME OF IRAF IMAGE FILE
IRAF-MAX=          1.250097E0  /  DATA MAX
IRAF-MIN=        5.140240E-2  /  DATA MIN
IRAF-B/P=                 32  /  DATA BITS/PIXEL
IRAFTYPE= 'FLOATING'  /
BLOCKED =                    T  / BLOCKING FACTOR IS ALTERABLE
BUNIT   = 'MJY/SR '             / INTENSITY UNITS
CRVAL1  =              3.10000  / RA AT ORIGIN(DEGREES)
CRPIX1  =                 121.  / Z-AXIS ORIGIN (CELL) = (NZ/2)+1
CTYPE1  = 'RA---SIN'            / DECREASES IN VALUE AS SAMPLE INDEX
COMMENT                           INCREASES  (ORTHOGRAPHIC PROJECTION)
CDELT1  =        -4.166667E-03  / Z-GRID CELL WIDTH (DEGREES)
CROTA1  =                  0.0  / TWIST ANGLE UNDEFINED FOR Z-AXIS
CRVAL2  =            -39.46667  / DEC AT ORIGIN (DEGREES)
CRPIX2  =                 121.  / Y-AXIS ORIGIN (CELL)= (NY/2)+1
CTYPE2  = 'DEC--SIN'            / INCREASES IN VALUE AS LINE INDEX
COMMENT                           INCREASES  (ORTHOGRAPHIC PROJECTION)
CDELT2  =         4.166667E-03  / Y-GRID CELL WIDTH (DEGREES)
CROTA2  =                  0.0  / ROTATES +NAXIS2 INTO +DEC AXIS (ANGLE
COMMENT                           MEASURED POSITIVE CCW FROM +NAXIS2 TO
COMMENT                           +DEC)  (DEGREES)
CRVAL3  =              1.2E-05  / WAVELENGTH IN METERS
CRPIX3  =                   1.
CTYPE3  = 'LAMBDA  '
CDELT3  =                   0.
CROTA3  =                   0.
DATAMAX =         1.250097E+00  / MJY/SR  (TRUE VALUE)
DATAMIN =         5.140240E-02  / MJY/SR  (TRUE VALUE)
SIGMA   =         2.276087E-01  / MEDIAN DETECTOR NOISE  IN MJY/SR
EPOCH   =                1950.  / EME50
LNDRDAT = '10/19/90   '         / DATE RAW DATA WAS LAUNDRED (MM/DD/YY)
ITERNO  =                    1  / NUMBER OF ITERATIONS COMPLETED
BIAS    =                  0.0  / MEDIAN PIXEL FLUX SUBTRACTED IN MJY/SR
VERSION = '1.0A 900925'         / VERSION OF YORIC
DESTRIPE=                    1  / OFFSET REMOVAL METHOD USED
COMMENT     DESTRIPE STATUS WORD IS TAKEN FROM FIRST INPUT OBSERVATION
            FILE ONLY
COMMENT     (SEE YORIC SDS AND NEXT HEADER LINE)
DESDIFF =                    T  / FLAG TO INDICATE THAT DESTRIPE VALUE
COMMENT     WAS THE SAME IN ALL INPUT OBSERVATION FILE HEADERS
HISTORY '10/19/90'              / DATE THIS OBJECT PROCESSED (MM/DD/YY)
END
```

SAMPLE OF COMMANDS TO VIEW DATA AND DATA OUTPUT USING IDL

```
IDL> print,min(data),max(data)

    5.142009e-02       1.25008


IDL> print,data(1:400)

0.171099      0.166069      0.157527      0.147229      0.136785      0.128463
0.126249      0.131280      0.144394      0.163417      0.182147      0.187982
0.186007      0.178178      0.164313      0.147577      0.133493      0.132103
0.144394      0.154875      0.155552      0.159174      0.173715      0.184123
0.184397      0.174685      0.160747      0.149516      0.139145      0.126030
0.115805      0.114561      0.115842      0.121677      0.133292      0.139437
0.142291      0.144266      0.149150      0.151052      0.144193      0.131042
0.127237      0.144760      0.192079      0.250666      0.301498      0.304516
0.274555      0.238594      0.230235      0.244630      0.237844      0.215328
0.196634      0.189043      0.183574      0.177575      0.170496      0.161698
0.151619      0.142437      0.134865      0.127640      0.120140      0.113848
0.114452      0.123561      0.141157      0.153979      0.157015      0.150760
0.143004      0.145400      0.145327      0.135285      0.123670      0.118238
0.118311      0.126286      0.148016      0.170862      0.186007      0.196451
0.203676      0.201280      0.188403      0.163563      0.134865      0.126213
0.124676      0.126743      0.131499      0.142657      0.165996      0.199524
0.229485      0.238777      0.229156      0.211066      0.182147      0.146040
0.108946 9.661764e-02       0.101428      0.109732      0.126670      0.152735
0.173752      0.187690      0.195189      0.202304      0.200128      0.176294
0.138011      0.121494      0.125170      0.138505      0.166179      0.207536
0.237094      0.228516      0.213169      0.197658      0.181215      0.165393
0.155332      0.151656      0.153522      0.166143      0.179221      0.187873
```

D-101560 IN TAR FORMAT

File 1, record #1, contains the first FITS HEADER.

HEX DUMP OF hi_res

FILE 1 RECORD 2 10240 BYTES

(0)	A8B3A6C6	A6C0A81A	A812A64F	A670A6CE	A5F1A559	A04597BE	93039359	973F9BBE	9F59A11E	A21CA468
(40)	A85FAB59	ABDAAA22	A855A724	A4C09F51	98359297	929796C8	9E78A6F1	AB03AB99	AB80ABDA	AA6CA691
(80)	A25F9DCA	9B8F9D34	9F95A099	A09F9F9B	9EA79E43	9D349B28	981E94BC	91D28FB6	8E248D51	8DE78F7E
(120)	90848FBA	8D438B4F	897C88A1	889B8906	8AA18DB2	90209180	92129151	8F3F8CB6	8BF18F68	96829DD6
(160)	A2CEA595	A6FBA493	9DD89645	917C8E53	8DC09060	94269697	98459955	9A039B60	9CFB9D97	9E289F66
(200)	A0D6A1C0	A195A1E3	A2CAA3CC	A46AA291	A039A022	A0ADA074	9F6E9DC0	9BDE9AA7	9A129A12	9B9D9E68
(240)	A026A020	9EAD9CCE	9AFF9939	98C49991	9BD4A0C2	A3ABA457	A561A686	A605A322	9E689A8B	9757950C
(280)	94399443	95849705	97AF9718	96769659	95F593C0	90648F5E	912294C0	99269CE9	9E379CC0	9BF79B1E
(320)	99F198C2	971C957C	945793F3	94CC96A1	97F9989B	994D99BA	991097AD	974998CA	9A829C93	9FC4A1CE
(360)	A220A153	A0309F14	A0B3A370	A564A682	A774A780	A751A724	A649A543	A522A676	A824A988	AC09B393
(400)	9F019B0E	952C8E66	8BFD91CC	989F9DE7	A26AA634	A801A79B	A7A9A778	A5EBA3EF	A224A0A1	9FA99F80
(440)	9F45A04F	A309A528	A1ED9866	90F3906A	90F19137	91439151	942499F1	9F1CA272	A436A62E	A73BA659
(480)	A503A44B	A27C9FA7	9E809FB3	A0F3A1BA	A228A1E9	A1309F4F	9BDC9C60	9EC4A0CC	A362A553	A63DA824
(520)	AB84AE47	AEBCAD30	ABBCA9C8	A707A328	9D3F96D6	923993D2	9C3FA64F	AC74ADA9	AB97A8A1	A69FA372
(560)	9DB197CA	94059291	96579BA7	9D3D9F4B	A137A109	9DF799AF	95D29305	90A78EC8	8DA98DB2	8EFF9084
(600)	90FF9089	8FB28D39	8A3588EF	88CE899B	8ACC8BA1	8CDF8E2A	8DC48C49	8A978BAB	9070972C	9DABA35F
(640)	A868AA8F	AA5BA770	A1459974	91FD8DCE	8D8F8FA9	936A976A	9AA59CA3	9EC4A191	A3F3A3D0	A18D9FD0
(680)	A037A0E5	9FB69D84	9D709F12	A143A31E	A31AA2FD	A2CAA16E	9E889B9B	99D49A10	9B439D16	9EDAA010
(720)	A0829F2C	9CF39B82	9A359939	99849B0A	9E6AA0F9	A18FA3C4	A649A6C4	A4C2A15B	9F869FC4	9DA3987E
(760)	94C094A9	95DF96E7	989F9B53	9B0798BE	973795B8	93CC9299	9412978F	9A289D2C	A145A1EB	9E269B49
(800)	991E96EF	95A395FD	96BC96B4	963B96FB	98A19962	999F989F	96E79530	93D094EB	97EF9BB8	9F9BA14B
(840)	A06A9F9F	9F269E91	9DD09D60	9E95A007	A0F9A2E5	A545A605	A4E3A2A7	A0CC9F47	9F64A1DC	A67AB13F
(880)	C8E296A9	8E6C8837	86918DFF	99A7A1DE	A764AA82	AA3DA870	A82CA7BC	A664A399	A07E9FA3	9FDE9F18
(920)	9EF5A1B1	A8B5B12E	B238AA1C	9F3295BA	913F9126	91C09205	91269057	92FD97E3	9D28A155	A297A38A
(960)	A4C0A345	9E8699DC	97F39941	9BFD9D60	9C209B9B	9DBCA1B5	A753A99F	A8C2A851	A8A7A9F9	AC43ADBC
(1000)	AE6EAE26	AE8CAEF3	AD30AA1E	A67CA305	A0889CC8	96DA91A9	93E99C64	A5CAAA9D	A97AA3BA	9E2E9A93
(1040)	989B9670	93C8932A	94E197B1	9B1E9F8A	A214A0E9	9D789905	94D49162	8F248E18	8E418F39	9049909D
(1080)	90108F10	8E228D1C	8B37899D	89B68A87	8ABC8A53	8A0A89D4	89D687CC	88EB8F82	98019ED4	A47EA9D6
(8920)	9F37A0DA	A29FA3A5	A23B9F16	9C5B99E5	96B193BC	9208932C	98E19FF1	A5A9A9B5	AB66A8C8	A4A1A1FB
(8960)	9FD69C60	985192E1	8FF98EDD	90A99893	A580AF4B	B3DEB707	B94BBA6A	BB61BB8E	BA92BA43	BC38BF57
(9000)	C163C161	BF6EBF2E	BD65B957	B778B9A3	BCE0BDA3	BA88B39D	AA59A57C	A764AA28	AA82A926	A4EB9EC4
(9040)	99CE9749	953D9462	946C94A9	951A963B	98CC9A95	99B696AD	93AF90F5	8BCC86C8	853387E3	C361C545
(9080)	C5B9C26B	BDCABCB3	BFEAC41E	C376BCF3	B4CCAD30	A77EA4E3	9FCC9B5B	9B749D8F	9E0E9DBE	9CA59B93
(9120)	992094DD	8E808E59	94AF9A37	9D209C80	98B89459	91AF9012	8EA78D68	8D708DE9	8E538E35	8F9B949B
(9160)	9AEF9F78	A1A5A241	A1C2A13F	A0CAA1A7	A436A82A	ACF9B1E0	B63AB7E9	B738B84D	BA20B3B5	A6E99C16
(9200)	97E196AF	96899791	99999AFF	9B769BA1	9B769B88	9BB69B62	993095EB	92848FBE	92D09B1E	A6D2B15F
(9240)	B695B736	B62CB522	B312AD1A	A653A05B	9B3097D0	959B970C	9C99A195	A2309F8A	9B6A93EB	8B99887E
(9280)	87AB879B	87FF886A	89A18C08	8E9D9195	94519559	96629CB6	A6E9B19D	B75DB76E	B5E2B47E	B0AFAD55
(9320)	ABA7A9E0	A86AA9A9	ABC0AC09	A93FA47E	9FA59C2E	980C93A5	90CC8ED0	8E108EFB	91D89424	93D4923F
(9360)	91879226	93C095D6	980E9B66	9ED8A15F	A486A6F7	A6A3A41C	A095A01A	A0399E12	9BAD9C37	9E5BA009

FILE 1 RECORD 3 10240 BYTES

(0)	8FC8889D	88CE8A8B	8CC88F6A	92A195F1	99129C18	9F229EF1	9B1E976C	96D8999B	9DB8A216	A651AB18
(40)	AE20AF61	AEE7ABEF	A68CA1BA	9E2E9A59	9568917E	8F7E8EA9	8F6690DA	9197917E	90CC9101	923793A9
(80)	94FB96FD	991C9AC0	9D4FA09D	A16A9E2C	9AD49970	9A939E51	A1ABA439	A7D0AC07	AD01A970	A45DA1ED

(120)	A28DA130	9E379B7E	992896CE	94EB93C4	92849055	8F459045	917E9268	933395C0	99689D6A	9F9B9D4B
(160)	97709216	8F978F1C	90B292FD	97CEA2F3	AFADB663	B7D6B3AD	AD57A836	A620A8C0	B128B945	BC69B9E6
(200)	B641B35D	B3BBB507	B5E2B5E9	B5DAB922	BC72BD0D	BB80B80F	B5A5B1E9	AA8A9F0E	964393BA	93769343
(240)	932A953D	9A82A286	AAF7AF84	AF4DAE0F	AC18A7E2	A0D49B28	97EF9668	963796EF	99889F8F	A655AA9D
(280)	AB01D8AB	D6A1D126	CABFC418	BFFBBC9B	B847B328	AF07AB07	A643A1AF	9EEF9DE5	9DBE9E1A	9E2E9E30
(320)	9E999EF3	9FC4A11A	9F6899B6	955595E1	9A039D3D	9CC49CE1	A016A3FF	A3579EBA	97DA9128	8D898DBA
(360)	8DE18D5C	8F8B946A	9A789FE9	A3B8A5B5	A5A9A41C	A27E9FE7	9CC29AF9	99C0991C	99769B9D	9EC8A1EB
(400)	A2DCA3D0	A4BAA42C	A18F9ED8	9CB19ACE	99379810	96BE9624	96C497A9	974F966E	966A9818	9A649B18
(440)	9C019E55	A091A051	9D459A5B	996C9A7A	9BF39DB1	9F6AA1C0	A453A6F3	A8E7AA4D	AA76A8E2	A7F3A378
(480)	9AA1921A	8D6C8D76	8F209091	93019682	9A559D0E	9DFD9D1C	9A669616	92128ED6	90A596F1	9DCAA409
(520)	AA93AEFB	AD91A7AF	A1309C97	99D09618	92F3916C	8FF58EBA	8F1690A9	919B90A3	8F878F0C	8F1E90CA
(560)	9459988B	9BF19E6A	9FD8A005	9EC29B82	972A968D	9A189F8F	A447A793	AA88ADB1	B107B305	AF14A807
(600)	A2269E1C	9B849935	968093ED	922291AD	92FD953D	95D293D6	9235920C	92379187	90A19282	9520946A
(640)	923990DF	9001917C	942A99E7	A39DAE9D	B6E2BCC0	BB57B2DE	A955A5E3	A6D6A9ED	ABFDAF78	B18EB20B
(680)	B28AB59D	B84DB749	B5E0B4C2	B416B3AF	B4E0B6A7	B64FB10B	AC12A743	A03B989D	94129174	8F768F22
(720)	93599B53	A3FBABA9	B00DB157	B155AF9F	ACD2A8A5	A3A19E66	9A4398F1	9A769C01	9F3DA36E	A7BEA9F3
(760)	A7FBA476	D419D0AB	CAB7C455	BE61B7C4	B1A9AE03	AC18AA9D	A7FBA445	A0A19DCE	9C209BF7	9D559E1A
(800)	9DB89DC6	9EFFA0D8	A1709EEF	9B3F9843	960E976E	9C72A27E	A882AB9D	AB43A824	A3249C14	94979024
(840)	8F208E5E	8C338BBE	90ED98A5	9EEDA212	A262A0F9	9E599AEF	97F39570	949795AF	98519B37	9D609ED8
(9920)	AC18ADC4	A75BA4F5	A464A3D2	A35FA25B	A04F9DF1	9C749C82	9E49A0A3	A29FA376	A326A2E5	A445AA2C
(9960)	B38AB865	B576ABF5	A08A99C6	982896D8	956E9516	966E981C	998D9AD2	9BF99BC0	9B399A28	982695D0
(10000)	92998DCC	892C86B4	866A89BC	8D7C8CC6	8A878AF5	8B998DBC	9260977C	9AB19C55	9D669E66	9ECC9CBE
(10040)	9AA79AF1	9E01A172	A2AFA17E	9ECA9C30	9A7098F3	98E198C0	96A593FF	92C89220	91A591E7	92A99422
(10080)	97629BC0	9F55A31E	A753A9D4	AB10AB74	AADAAAFB	AFEFB49D	B261B072	AFDCAD3D	A91EA43F	9FC29C64
(10120)	997E96CC	96249747	99709B07	9B7699ED	95A98F9F	8B2C8833	86D286BE	878788F3	8A0A8B08	8D088FAB
(10160)	90A78F06	8CA38C8F	8F0E9260	97849B68	9DA79EEF	9FE3A36A	AB68B3DC	BB4FC118	C257C188	C1CEBF1A
(10200)	B8C0B1D6	AC0BA58F	9F0C9812	933393C6	992CA04B	A5C6AA55	AEC8AF91	AB3DA58F	9E7C996C	9707983F

FILE 30 RECORD 2 10240 BYTES

(0)	80EB80DF	80CE80D2	80E780FB	80FF80F7	80F180E3	80D280CC	80C880CC	80CC80CA	80BE80AC	80A18099
(40)	80938085	80788078	808D80A7	80BE80D7	80DF80F3	810C8118	8122811A	810880F3	80C480B4	80B280BA
(80)	80D080E3	811A8141	8145812F	80FD80E5	80F18116	812D8122	811A812D	812F8122	81168114	811C8116
(120)	810E80FD	810E8112	811480FD	80F18122	815A8195	81AC818D	815A812F	811C8118	811E8124	8128813B
(160)	814F815C	81668162	81628155	8145813F	8137811A	80FD80E3	80D980D2	80CE80C8	80BC80AC	80998087
(200)	8081807C	809180B0	80CA80D7	80D280D2	80D280D2	80CA80BE	80BC80BA	80B480AE	80BA80E7	811E8141
(240)	8137811C	80F380CA	80AC8091	807E807E	807E8093	80A780A9	80A780A5	80B480D9	80F18106	810A80F3
(280)	80E380D9	80D280C8	80BC80BE	80BA80C6	80C080BC	80B880BC	80C280B8	80B080A7	80A580BC	80E38104
(320)	81108116	81208131	812480FD	80CA80A5	80A180A5	80A980B2	80AE8099	80838070	80668076	809980B0
(360)	80CE80E5	80C480A7	80978095	80A580B4	80BE80C8	80D780DF	80E580F9	80FB80EF	80DF80E3	8102811A
(400)	80E580DF	80D080D4	80D480E1	80F58106	8122815C	819381C2	81E781FB	81F381D7	81C081AC	8189816C
(440)	81588141	8141814F	8153816A	818581B8	81BE81A5	818D814D	8122810A	80FF811A	81498162	814B8120
(480)	810680F5	80E180D0	80D480DF	80EB80E9	80E580E7	80E580DF	80D480D7	80D780C8	80BC80AC	809D809D
(520)	8099808F	80838081	8087809D	80B880CC	80DD80F1	81028104	81088108	80FB80EF	80D080B6	80A980A7
(560)	80B080BA	80D980EF	8106810A	80E780D2	80D980F7	81128118	8110810E	8116811E	81228112	8112810E
(600)	810480F5	811C812F	81228108	80F18112	813B8164	8183817C	8164814D	813B8131	812D811C	811C812F
(640)	81498155	816C8178	816A814D	81398133	81398137	812D810E	80EB80D9	80DD80E7	80E980D9	80C080A9
(680)	809B808D	809380A9	80BE80CE	80D080C6	80C480CA	80D280CC	80D080D0	80C280B2	80B680CE	8108813D
(720)	81498139	811680E5	80B88097	80858087	80878087	809B80BA	80C480BA	80B680B6	80C280D9	80E380E7
(760)	80F380F5	80EF80E7	80D780D0	80C480CE	80CE80C0	80BE80B8	80BA80B8	80B480AE	80B080B6	80C480DD
(800)	80EF8104	81208137	81418131	810680D9	80B08099	809980A7	80B880BE	80A98087	806A8060	80628072
(840)	809180C2	80D780CC	80B28097	80958099	80AE80CA	80D480DD	80E780F7	80F780F1	80E980E9	8106811C
(880)	812280E1	80CC80CE	80D480DD	80DF80E3	80FF8137	817E81C6	81F98204	81EF81CC	81B481A3	819F8193
(920)	81748164	815A815C	81628178	818781A5	81B281A7	81938155	8124810A	80F180FD	8133815A	81668149
(960)	811E810A	80FB80E5	80DD80D7	80D780D2	80C880CA	80D480DD	80E980E7	80E580D9	80CC80B6	809D8093
(1000)	80938095	808F808B	808D80A3	80C480D2	80DF80EB	8102810C	810A8102	80F580E9	80D280B8	80AC80A5
(1040)	80A580B4	80C280D0	80D980D0	80BA80A5	80A380BE	80E380F9	80FB80FB	81028106	8118811A	8112810A
(1080)	80F580E1	80FB8126	81358120	80ED80F1	81288153	817A8172	815A814F	8147814D	81498139	812D811E

(1120)	81338151	816A8180	817A8174	814F812D	81208128	81288126	81188104	80ED80ED	80F980F5	80E580CC
(1160)	80B880AC	80A380AE	80B880C4	80CE80CA	80C480C4	80C480C6	80CE80D7	80D480CA	80BC80BC	80E98126
(1200)	8143813D	812A80FF	80D480AC	808F808B	80918093	809980B2	80D480E5	80D480C0	80B880B8	80BE80CA
(1240)	80D480E3	81048112	80FB80E7	80E180DF	80DF80CE	80CA80BC	80BE80B6	80A780A5	80A980B0	80C080CE
(1280)	80D080DF	80FB811A	81398139	811E8102	80DB80C2	80AE80A3	80B680C0	80B880A7	808D8070	8064805C
(1320)	80668091	80C280CC	80C880A5	808D808B	809580B0	80C680E1	80E980F1	80FB80F3	80E980ED	810A8120
(1360)	8124811E	80CA80C6	80CA80D0	80DD80E7	80F1810A	815581B6	81F7820E	820481D4	81A98195	81918187
(1400)	817A816C	816A816C	816E817C	819F81C6	81CC81AE	8191815C	81208102	80E780EB	8116813B	8158814D
(1440)	8122810C	810680FD	80F580E5	80D980CE	80BE80B4	80B680C4	80DD80E9	80F180EF	80DB80C8	80B48099
(1480)	808D808B	808D808D	809380A1	80C680E7	80F780F1	80F580FF	81108110	810880F7	80E380C8	80B480A7
(1520)	80A380B0	80C480CE	80CE80BE	80A58087	807A808D	80A980C6	80DB80E9	80E980E5	80FD8114	8112810A
(1560)	80F380D0	80CE80F9	8118811E	80F380DD	8116813F	81708187	8166814D	8141813F	814D8151	81458133
(1600)	8137813F	81518176	818D8180	816A8147	8131811C	81148114	81128112	81148110	810680FD	80F380E1
(1640)	80D280C4	80BA80B4	80B880BC	80C280C0	80C280C8	80C680C4	80C880CC	80D080D0	80C480BE	80C880FD
(1680)	81338141	812D8108	80E180C0	809F8097	8099809B	80A180AC	80C680E9	80FB80F1	80DF80C8	80B880B6
(1720)	80BA80C4	80E78118	812D811E	810880F3	80FF80F5	80DD80CC	80C280B8	80A9809F	809B809B	80AC80C0
(1760)	80CE80D2	80D980F1	81128120	81188102	80E180D7	80CE80C8	80D280D9	80D080BC	809D808D	80878074
(1800)	8068807C	80A780C2	80C880AC	8083807A	807A808F	80B080CC	80DD80F3	80FD80EF	80E980EF	8102811E
(1840)	812A8122	811A80C4	80C480C6	80D280DF	80ED8104	8131817C	81D0820E	820C81DB	81B8819B	8185817C
(1880)	816C815E	81668168	81708185	81A781CE	81F381F3	81C68172	812480FB	80DB80D4	80F78131	814F814D
(1920)	81288102	80F580FB	810280FD	80E980D4	80C680BE	80C080BC	80C080D4	80E380ED	80E980DD	80C880AE
(1960)	8099808B	80858087	808B8091	80B880E7	8104810C	80F780E5	80ED80FF	810A810A	80FF80E9	80CE80BC
(2000)	80AE80B2	80C480CE	80D480C2	80A78087	80728078	808780A1	80BA80CC	80D480D0	80D780E9	80F98104
(2040)	80F180C8	80B680D4	80E780F7	80ED80C6	80F18131	81728197	81748160	814B8133	813D813F	813B813F
(2080)	813D8143	814F8160	81768183	817C8158	813D812A	8120810C	80FD80F9	81028116	81228116	80F780E3
(2120)	80DD80D4	80D280C6	80BE80B8	80BA80BA	80BC80BE	80C680CA	80CC80D0	80CA80C6	80BE80B6	80B280CE
(2160)	810A8131	81398114	80E980C2	80A7809D	809D809D	80A380B0	80BA80D2	80E980F7	81028102	80EB80CE
(2200)	80C280B8	80C480FF	8133813B	813B812D	8128811A	810A80FD	80DD80C6	80B480A1	80998091	809380A3
(2240)	80B880CA	80E180F5	80F780FD	80F980E9	80D480C8	80C480CE	80E580FF	810280EB	80C080A3	80998097
(2280)	80978095	80AE80CA	80C880B6	8085806E	80688074	809180A9	80C680E3	80EF80F1	80F180EB	80F78118
(2320)	81228120	81228114	80C680C4	80CA80D7	80E580FB	81208162	81A581DF	81EF81DB	81BC819D	81958187
(2360)	81648153	815C8158	8168817E	819B81BC	81E9820C	81FD81BE	815580FD	80D280C6	80DD811E	81498155
(2400)	813F810E	80EF80E7	80F180FD	80F180E1	80D080C8	80D280DB	80D280CE	80CA80D7	80DF80D9	80D780C8
(2440)	80B2809B	808F8087	80838083	809D80D0	80FB8116	810C80E7	80CA80C6	80DB80F7	80FF80FF	80EF80DB
(2480)	80C880C8	80D080D4	80D780CC	80B28091	80788074	8081808F	809980A7	80C080C4	80BC80BE	80CC80DF
(2520)	80E580CA	80AE80BA	80D480DD	80CE80AE	80C4810E	815A81AE	81978168	8147812F	812F8133	81268126
(2560)	812A813D	814F8160	8174817A	816C815A	8141812A	8120811E	811280FB	80E580F5	8110811E	810C80EB
(2600)	80D280D4	80DF80DF	80D080C4	80BC80BC	80BE80C4	80C680C6	80C680CE	80CE80C6	80BC80B2	80AC80AC
(2640)	80CE80FF	812A811E	80F980D2	80AE8099	80998099	809980A7	80BA80C8	80DB80E5	80EB80FB	81108106
(2680)	80ED80D0	80CA80E7	8110812A	813D813D	814B815E	81458128	81148102	80DD80B6	80A58097	80918095
(2720)	809B80B0	80D48106	811C8112	80ED80C8	80B480A5	80AC80B8	80CE80F9	8118811A	80FD80D0	80B880B6
(2760)	80B680B8	80D080EF	80E780D0	8095806A	80668064	80768091	80A380BE	80D980E3	80DF80E5	80FD810E
(2800)	81188122	8124811E	811680C8	80CE80D9	80E180F1	81148155	819581C4	81D281B6	819F8199	819B8195
(2840)	817C8162	81558151	815C8170	819181A9	81B481D4	81F581E3	81918124	80D780B8	80C680FD	813D815C
(2880)	814F811C	80F980E7	80E980F1	80EB80D7	80CE80D0	80E580F5	80F180ED	80DD80CA	80C880C6	80CA80CC
(2920)	80C280B8	80A9809F	80938085	808980B0	80E1810E	811680F9	80CC80A9	80A180B6	80D480F1	80F380EB
(2960)	80E380E3	80EB80EB	80E380D2	80B8809D	80858078	807E8089	808D808B	809580A3	80B080B2	80A980B6
(3000)	80C880BE	80AE80AE	80C680D2	80D280AE	80A180E1	8124818B	81B28187	814F8122	811C8128	81188112
(3040)	8110811C	8137815A	8174817C	8178815E	81358122	811C8118	811C8118	810680EF	80EB8108	811480F9
(3080)	80DB80CE	80D980E5	80E780D9	80CC80C6	80C680D2	80D480D4	80CC80C4	80C480C0	80BE80B6	80B080A7
(3120)	80B280D0	80F5810C	80FF80E3	80BE80A9	809D8097	80918095	80A980BE	80D280E5	80E380ED	80FD810A
(3160)	810C80FB	80EB80F3	810C811A	811C8124	81418164	81748164	8147812A	811480F3	80C680A5	80998099
(3200)	8097809F	80BE80F3	8128813D	811C80DD	80A38087	80898093	80AE80DB	81028118	811E8102	80EB80DD
(3240)	80D980D9	80DD8102	81128102	80C6807C	80688060	806A807E	808980A1	80BA80C2	80C880D2	80E380F9
(3280)	811A8120	8120812A	81288112	80C680DF	80E980F1	8108813F	818581BA	81CC81A9	81878174	817A8195
(3320)	818F8174	816E8160	814F8164	817E8195	819B819F	81A581A3	8193814B	80EB80B6	80B480E3	81288158
(3360)	81628133	810480EF	80EF80F7	80F580D9	80C680C4	80E5810E	811A8110	80FB80DF	80CE80C2	80B880BC
(3400)	80C280C0	80BC80BA	80B880A7	809980A3	80C080ED	81108106	80DB80AE	808F808D	80A180C0	80D980E3
(3440)	80E380E9	80FD8108	80FB80E5	80BE80A3	808D8081	8085808B	808B8081	8074807A	8089809B	80A380A9
(3480)	80B480B2	80A980A3	80AE80C4	80CE80C0	80A380C8	8102814F	818F8189	816A8131	8116811A	8114810C

(3520)	80FD80FD	8118813B	815A8178	8183816E	81458128	8110810C	811A811E	81128106	80F780F5	81028104
(3560)	80EF80D4	80D480DD	80E180DF	80DB80D9	80D280D4	80DF80E3	80E380D4	80CA80B6	80AC80B2	80B680B2
(3600)	80AE80B8	80D780F1	80EF80E3	80D280BA	80AE80A5	809D8093	809B80B2	80BE80CC	80DB80E1	80F18106
(3640)	810E8104	80F7810C	811E811C	811E8118	811C8139	81668166	814B813F	81378120	80F380C8	80A5809D
(3680)	809F80A3	80BA80E7	81208141	813380FF	80BC8091	807A8076	808980B0	80DF8102	81108108	810280FF
(3720)	80FF8106	80F38106	811C811C	810480B4	8081806E	80688072	807C808D	809D80A9	80B480B6	80C880E5
(3760)	80F9810A	811C8124	81288122	810480D2	80E180FB	81148137	817081A5	81C481AC	81858166	81628174
(3800)	81788174	81808170	81608160	8160817C	818D8185	817A8168	8153812D	80EF80BE	80B280D2	811A814B
(3840)	81628155	812480FF	80F98102	810680EF	80D780C6	80D98106	812A8139	81338108	80E180D0	80BE80B6
(3880)	80B480B8	80C680C8	80CA80C6	80BE80BE	80C680DB	80F980FD	80E580C0	8097808B	809380A3	80BA80C8
(3920)	80D080E1	80F9810E	810E80FD	80D980B0	80918081	8087808F	8093808B	8076806A	80688072	80858095
(3960)	80AC80B6	80AE809F	809D80A5	80B680C2	80AC80B4	80EB812D	8168816C	815E813D	81208126	811A810A
(4000)	80FB80F5	80FF811C	813B8158	816E8176	8164813B	81228116	8110811A	811C810E	80F980F1	80FF8104
(4040)	80F580E1	80DB80DF	80D980D2	80CA80D2	80DF80DF	80E380DF	80E780E9	80E180CA	80AE80A1	80A780B4
(4080)	80B680B2	80BC80D9	80E980E1	80D480C2	80BC80B4	80AC80A1	809D80A9	80BE80C6	80C680C0	80D480F3
(4120)	81088112	810880FD	8118812F	812F8120	8120812A	81338135	812A8120	81168120	811A80E7	80B4809B
(4160)	809980A1	80BA80E1	81188141	8141810E	80C88099	8083807C	8078808B	80BA80E3	80F380F5	80F380F7
(4200)	8106811C	8118811C	812D812A	812480ED	80AE8091	807A807A	807C807C	80898095	809B80A1	80B880CC
(4240)	80DD80F5	81048108	8116811A	810480F1	80DD80F7	81148147	8187819D	81AE819D	817C8162	815E8168
(4280)	8168815C	81688174	81708166	81538153	8160816A	816E8151	812F810E	80DF80B8	80AE80C8	810E8147
(4320)	8168815E	8131811E	81188114	81168104	80E980D7	80DB80F3	8112812D	8147813D	811C80F7	80CE80BC
(4360)	80B680B0	80BC80CE	80DD80D7	80CC80D2	80E580F1	810280FF	80E780C8	80A78097	809B80A3	80AE80B8
(4400)	80BC80C8	80E38106	81128108	80EF80CE	80B0808D	80818089	80978097	8087807A	80708066	80688070
(4440)	808D80A7	80B080AC	80A3809D	80A380AE	80B080AC	80C280F9	81418158	81438131	8120812D	812D8122
(4480)	810E80F3	80F58110	81248139	81538164	81608149	81398126	811E812F	81268116	810480EB	80ED80FB
(4520)	80FB80ED	80E180DF	80DF80D0	80BC80B6	80CC80DF	80EB80E7	80E180E9	80E980DF	80C280A7	809D80A7
(4560)	80AE80B0	80B080C4	80E180E7	80DF80D2	80C680BE	80B280A9	80A380A5	80BE80D0	80D780C8	80B680C0
(4600)	80DF8106	810E810E	81148120	8120812F	813D813B	813B812D	80FF80E1	80E380FB	810E80F9	80D780B2
(4640)	80958097	80B080D4	8106813B	81478120	80DB809B	807E807A	807C8083	80A580D0	80E380DF	80D480DD
(4680)	80EF80FF	81148122	81418149	8147812A	80EB80BA	8099808D	80898083	80878083	8089808F	809D80B2
(4720)	80CC80DD	80E980F5	80FF80FF	80F380EF	80E980EB	81168149	818581B4	81BE8197	816A8153	8151815E
(4760)	8168815A	8158815C	815E8166	815C8141	8139813D	813D8139	81288104	80DB80BC	80B680C4	80F3813F
(4800)	81668166	8147812D	811E812D	81378126	810680E9	80DF80F3	8106810A	811A812D	812D8124	810680DF
(4840)	80C480B2	80B480C6	80DF80E9	80E180D7	80E78104	8118811E	80FF80D7	80B08097	809F80B0	80B080B4
(4880)	80B480B8	80CC80E7	80FD8102	80F180DB	80CC80B4	8099808D	808F8097	80958087	80818078	8072806A
(4920)	80728089	809980A7	80AC80AC	80A980A7	80A980A9	80A980C4	80FB8126	81358122	810A8116	812F8135
(4960)	8124810A	80FD810C	811A8128	81378147	814D8145	81338122	812F813B	81478141	812080F1	80E180E9
(5000)	80F180F1	80E980E9	80E780DD	80C880AC	80AC80C6	80E180EB	80EB80EF	80ED80E3	80CC80B0	80A180A3
(5040)	80AE80AE	80A780AE	80D080EB	80ED80E1	80D780CE	80C080AE	80A1809D	80AC80D0	80E780E5	80D280C0
(5080)	80BE80D0	80F1810E	811A8124	8128811C	81288149	815E8147	811480E9	80C680C2	80ED80FF	80F380E1
(5120)	80C280A9	80A980CA	80F5812D	813D812A	80F380AC	80838072	8076807E	809580C4	80E180DF	80C480BA
(5160)	80C880E1	80F580F5	8122814D	81558153	81288102	80D780A9	80A18097	808F808B	808B8083	80838091
(5200)	80A580C0	80DB80E5	80E980ED	80DF80D4	80DF80E9	81088131	817C81B2	81B2819F	81788149	813B8147
(5240)	81588155	81588160	814D814B	81498139	8135812A	811A8114	810680F3	80E180C4	80BE80CA	80E18122
(5280)	814D8162	814B812D	81288133	813B813F	8133811C	80FB80F9	81048106	810280FD	80FD810E	81148104
(5320)	80F380DF	80C480BC	80CC80E1	80E780E7	80ED80FF	8118812D	812080FB	80D080A3	809780A9	80B880C0
(5360)	80B880B6	80C480D2	80E580EB	80DF80D0	80C880C4	80B880A9	80A780AE	809F808F	808D8087	80818081
(5400)	807E8087	8089808F	809980AC	80B480B6	80B480A9	80A980B4	80CC80EB	8114811C	81088102	810A811A
(5440)	8124811C	81088112	8128812A	812A8131	81358131	81248114	8118812A	81588166	814F8128	80F180DD
(5480)	80E380E9	80E580EB	80EF80ED	80DF80BE	80A780AE	80C480DB	80E780EF	80F980F5	80DD80B8	80A1809D
(5520)	80AE80B6	80B080A3	80B680D9	80EF80F1	80E780D9	80CE80BE	80AC8097	809580B8	80DB80ED	80F380DF
(5560)	80CA80CA	80D980EB	8106811E	81318124	81288137	8147815A	8143810C	80DD80CC	80DB80E9	80F78104
(5600)	80F580DF	80CA80D2	80F18124	813B8128	80FB80C2	8095807A	8076807A	808980B0	80D780E7	80D480AE
(5640)	80AE80C4	80DB80DB	80EF811E	81318145	813D8122	810E80EB	80D980BE	80AE80A3	80958091	808B807C
(5680)	807E8097	80BA80D4	80E380E3	80CA80BA	80CC80DB	80E5811C	8147817E	819D8193	816E814F	8143813D
(5720)	8139813D	81458158	8151814D	813B8120	811A811C	811A810E	80F780E3	80CC80BC	80BE80CA	80D9810A
(5760)	81378149	81398120	811A8122	81398149	813F8139	812D8126	811C8106	80F980ED	80E780E3	80F380F9
(5800)	80FB80FF	80FB80F5	80E780D7	80D780DF	80EB8106	8122812A	812A8110	80F180CC	80B280A9	80B280BE
(5840)	80C680C6	80CA80D0	80D980DB	80CC80BC	80B280B2	80B280B2	80BC80C8	80CC80BC	809F808D	8089808D
(5880)	808F8099	809B808F	808B8093	809F80B2	80BA80B4	80B480B6	80C880DD	80F58110	8116811C	810E80FD