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Planetary Image Conversion Task

Final Report

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16. Abstract The Planetary Image Conversion Task group processed 12,500 magnetic tapes containing raw imaging data from JPL planetary missions and produced an image data base in consistent format on 1200 fully packed 6250-bpi tapes. The output tapes will remain at JPL. A copy of the entire tape set was delivered to US Geological Survey, Flagstaff, Ariz. A secondary task converted computer datalogs, which had been stored in project specific MARK IV File Management System data types and structures, to flat-file, text format that is processable on any modern computer system. The conversion processing took place at JPL's Image processing Laboratory on an IBM 370-158 with existing software modified slightly to meet the needs of the conversion task. More than 99% of the oririnal digital image data was successfully recovered by the conversion task. However, processing data tapes recorded before 1975 was destructive. This discovery is of critical importance to facilities responsible for maintaining digital archives since normal periodic random sampling techniques would be unlikely to detect this phenomenon, and entire data sets could be wiped out in the act of generating seemingly positive sampling results. Recommended follow-on activities are also included.

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ABSTRACT

The Planetary Image Conversion Task group has processed 12,500 magnetic tapes containing raw imaging data from JPL planetary missions and produced an image data base in consistent format on 1200 fully packed 6250-bpi tapes. The output tapes will remain at JPL. A copy of the entire tape set has been produced and delivered to the U.S. Geological Survey (USGS), Flagstaff, Arizona. A secondary task converted computer catalogs (which had been stored in project specific MARK IV File Management System data types and structures) to flat-file, text format that is processable on any modern computer system.

The conversion processing took place at JPL's Image Processing Laboratory (IPL) on an IBM 370-158 with existing software modified slightly to meet the needs of the conversion task. The 12,500 input tapes were processed as a serial string of conversion jobs running an average of two shifts per day, five days a week for 12 months. Over 10,000 separate batch jobs were required and nearly 5000 hours of elapsed processing time (500 hours of CPU time). Approximately 4 person-years of labor were required, excluding computer operations support. The total conversion cost for this task equals $40 per input tape, or $5 per megabyte of data processed. Due to the nature of this task (fairly uniform, well-documented inputs, and minimal software development costs), these estimates should be considered as very optimistic in budgeting other restoration efforts.

More than 99 percent of the original digital image data was successfully recovered by the conversion task. However, processing data tapes recorded before 1975 was destructive. This discovery is of critical importance to facilities responsible for maintaining digital archives since normal periodic random sampling techniques would be unlikely to detect this phenomenon, and entire data sets could be wiped out in the act of generating seemingly positive sampling results.

It is recommended that immediate follow-on activities be initiated to: (1) develop a single, machine-independent utility program which will read images from any archive tape and perform simple fill-in of missing pixels and lines; (2) convert the Mariner 4, 6, and 7 image data and the Mariner 9 Master Data Records to high density format; (3) produce a vault copy of the Mariner 9 and 10 image archive tapes; and (4) document processed image data sets and calibration data files currently in storage.

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ACRONYMS AND ABBREVIATIONS

ASCII	American Standard Code for Information Interchange
BPI	Bits or bytes per inch
CODMAC	Committee on Data Management and Computation
CPU	Central Processing Unit
EBCDIC	Extended Binary Coded Decimal Interchange Code
EDR	Experiment Data Record
EI	NASA Headquarters Code for Information Systems
EL	NASA Headquarters Code for Planetary Science
EOF	End-of-File
ERT	Earth Received Time
FPSO	Flight Project Support Office
FY	Fiscal year
GMT	Greenwich Mean Time
IBM	International Business Machines Corporation
IPL	Image Processing Laboratory
JCL	Job Control Language
K	Kilo (1000 or 1024 in computer usage)
LSF	Library Support File
M	Mega (1,000,000 or 1,048,576 in computer usage)
MARKIV	IBM-based file management system
MCCC	Mission Control and Computing Center
MDR	Master Data Record
MIPL	Multimission Image Processing Laboratory
MM	Mariner 9 (Mars orbiter)
MM71	Mariner 9 (Mars orbiter)

ACRONYMS AND ABBREVIATIONS (Continued)

MTIS	Mission and Test Imaging System
MVM	Mariner 10 (Venus/Mercury flyby)
MVM73	Mariner 10 (Venus/Mercury flyby)
NSSDC	National Space Science Data Center
PDS	Planetary Data System
PI	Principal Investigator
PPDS	Pilot Planetary Data System
PWS	Plasma Wave Subsystem
RDR	Reduced Data Record
RPIF	Regional Planetary Image Facility
RTOP	Research and Technology Objectives and Plans
SEDR	Supplementary Experiment Data Record
SFDU	Standard Format Data Unit
TDR	Viking Lander Team Data Record
TRK	Tracks (magnetic tape)
USGS	United States Geological Survey
UTC	Universal Corrected Time
VAX	Digital Equipment Corporation supermini computer
VGR	Voyager
VICAR	Video Image Communication and Retrieval
VL	Viking Lander
VO	Viking Orbiter
VSFEDR	VICAR Standard Format Experiment Data Record

I. INTRODUCTION

The goal of the Planetary Image Conversion Task Group was to rerecord JPL's digital archive of planetary images onto high-density magnetic tapes in consistent output format. This is probably the largest digital data restoration task carried out by NASA to date. This report describes the planning and execution of the task and provides a user's guide to the converted image archive. Because this task is recognized to be a precursor of other data restoration tasks, this report attempts to present what was learned by the conversion task staff to aid in planning and budgeting future activities, including deviations from initial processing plans and schedules.

The main section of this document includes a background and rationale for the task. It also gives an overview of the image data sets and historical storage and access procedures and describes how the conversion and data recovery processing were performed. Finally, a summary of the task results is provided, with recommendations for the disposition of tapes processed by the task and for additional work necessary to provide access to the new archive.

The appendixes contain descriptions of the new archive data set (VICAR Standard Format Experiment Data Records (Appendix A)); brief descriptions of imaging instruments, data records, and catalogs as reference material to archive tape users (Appendix B); conversion processing details including software descriptions and mission-by-mission processing notes (Appendix C); a summary of unrecovered data (Appendix D); and a complete index of image identifiers and archive tape and file numbers for all missions processed (Appendix E).

II. TASK BACKGROUND

Several major events led to the establishment of a conversion task group. A National Academy of Sciences report (Ref. 1) on space science data management awakened new interest in the fate of planetary data archives. The establishment of the Multimission Image Processing Laboratory (MIPL) moved JPL's image processing activities to a different host computer architecture (VAX systems rather than IBM mainframes) and complicated the processing of data and computer catalogs from the earlier missions. Finally, high-level attention was given to the data storage problem at JPL, caused by the overflow of the Federal Records Center, which housed the bulk of stored planetary data sets.

For more than a decade, the major stumbling block in the analysis of imaging data had been the 2- to 8-week delay between the submission of a user request for and receipt of specific data. While many factors contributed to this situation, the size of the archive (requiring storage remote from JPL) and diversity of EDR formats (requiring preliminary processing to produce an analyzable data set) were recognized as major problems. In this environment, proposals for restoration of the image data sets were developed and submitted first to the Information Systems office as an FY83 RTOP and later as a proposal to NASA code EL through JPL's Flight Project Support Office (FPSO). Ultimately, task management was funded by the Planetary Pilot, with task execution funded through FPSO.

III. IMAGE DATA DESCRIPTION

The image data set represents the most useful planetary data archive because the images are readily interpretable to support stand-alone geological and atmospheric analysis activities. They are also often required for the interpretation of measurements from other instrument types. The raw imaging data is the largest instrument data set produced by planetary missions to date. The 145,000 planetary images returned by the Mariner, Viking, and Voyager missions equate to more than 100 billion bytes of digital data and some 450 million individual telemetry records (mostly Viking Orbiter). Since the mid-70s, projects have grouped imaging telemetry records into more organized image files, greatly simplifying the task of indexing data sets and locating specific images.

Raw digital images are stored in the form of Experiment Data Records (EDRs) on standard 30.48-cm (12-in.) reels of magnetic tape. Unlike digital data records for other experiments, the imaging EDRs are not delivered to the experiment team, but rather to the Image Processing Laboratory at JPL, where they are available for specialized second-order processing to support detailed science analysis. Copies of EDRs are also routinely provided to the USGS in Flagstaff and imaging team investigators at other institutions. In general, EDR data consist of unprocessed (raw) instrument data in mission-dependent formats. For the Mariner missions, the EDR simply represents a subset of imaging and engineering records from the telemetry Master Data Record (MDR). For the Viking Orbiter mission, substantial processing was required to reconstruct each image owing to the unique manner in which data were transmitted to Earth (described in Appendix B). For the Viking Lander data set, the EDRs were produced at the IPL and are stored on tape in VICAR format. Imaging data tapes taken from the Mariner 4, 6, and 7 missions consist of processed VICAR format images produced by IPL.

Numerous enhanced "second-order" image files exist for all missions. These files are not considered formal data records but represent an enormous investment in computer processing. In addition, files required for certain types of image processing (i.e., radiometric calibration files) have been produced and maintained by IPL analysts but are not formally documented. These data sets were not addressed by this task.

The responsibility for maintaining this archive and providing access to the digital data has not been clearly defined. While the National Space Science Data Center (NSSDC) receives reduced data sets in digital form from other space science instruments for dispersal to the scientific community, it has never had the resources to receive or maintain the digital images. JPL's Image Processing Laboratory and Regional Planetary Image Facility (RPIF) have informally maintained image catalogs and provided user access to digital images on a no-charge, level-of-effort basis. The tapes are stored in boxes, in a climate controlled environment, at the Federal Records Center at Laguna Niguel, California. To access an individual tape, the entire box must be recalled. This procedure takes from 2 to 8 weeks.

The accepted industry practices for long-term magnetic tape maintenance (such as periodic cleaning and rewinding) never have been performed on any of

JPL's data archives. Periodic sampling (every several years) and occasional processing of images from earlier missions to support user requests have generally been successful. This approach to testing tends to disguise a problem that was uncovered during the execution of this task, namely, the older tapes are readable once with very few errors, but this initial processing tends to damage the tapes and makes them unreadable for later processing.

IV. CONVERSION AND DATA RECOVERY PROCESSING

The conversion effort as actually performed differs from the original proposals. The initial plan called for the development of new software to process the EDRs and produce data sets that would be compatible with NASA standard data formats (SFDUs), which were then being developed. These data sets would carry a consistent set of secondary and tertiary labels specifically designed for imaging experiments. The processing software would also interact with a data management system to build an archive data catalog as the processing was performed. The IPL IBM 370/158 would be used to perform the processing based on resource availability and a charging scheme which reduced costs for tape mounts and I/O, the major resources required for the task. Two 6250-bpi tape drives would be leased and installed on the IPL computer system to allow two processing jobs to run simultaneously for increased throughput.

Due to the limited funding available for the conversion effort, several changes to the original plans were made. It became apparent that the development of new software to process the EDRs was unrealistic. Instead, existing logging programs were modified to produce mission-dependent, but consistent, output image files. Plans to have the processing software interact with a data management system to document processing results were revised. Thus, the software would output processing summaries to "journal" files, which would then be processed using the MARK IV file management system to produce summary catalogs.

During planning it was noted that the first MIPL VAX would be available at about the same time that processing began. This computer would have four tri-density (800, 1600, and 6250) bpi drives, but would be largely unused other than during the prime shift. It was decided to lease only a single 6250-bpi tape drive for the IBM and use that system to process the Mariner images (which required 7-track drives that are only available on that machine) and attempt to process as much of the Viking and Voyager data sets as possible on the MIPL system during the off-hours. In fact, due to numerous difficulties in the development of the MIPL tape input/output software, working conversion programs were never produced, and the MIPL computers were used only for the duplication of archive tapes for delivery to Flagstaff. This procedure caused the conversion processing to be stretched out over a longer period of time than originally planned (12 months versus 6 months). A secondary cause of delay in processing was due to the emergence of a large Galileo-related task which required substantial IBM computer utilization and reduced the resources available to the conversion task.

A duplicate copy of the archive was produced for delivery to USGS, Flagstaff. The duplicate copy provides a verification of the readability of

all tapes produced, physical dispersal of the archive in the event of a large-scale disaster, and a backup source if an archive tape is damaged during future processing. There is now some sentiment for production of another copy so that one data set can be stored in a vault as an archive, while the other two sets are used as working copies at JPL and Flagstaff.

A substantial deviation from planned processing was the inability to successfully process multiple jobs at the same time. It was found that channel contention problems reduced throughput to a level where two jobs running simultaneously ran twice as slow as one job at a time, thus not increasing throughput at all while complicating job submittal and execution procedures and increasing the chances for operator error. System modifications to reduce channel contention improved operations somewhat, but the ultimate processing flow consisted of a serial string of conversion jobs running two shifts per day (swing and midnight), 5 days a week. Single shifts on weekends were often used, staffed by conversion task personnel or operators working overtime. A flowchart summarizing the conversion processing effort is shown in Figure 1. Appendix C describes the procedures for conversion processing, provides processing notes for each mission data set, and describes the software used for the conversion and cataloging tasks.

The conversion task required substantial computer and workforce resources. Table 1 provides monthly summaries of computer utilization, including the number of batch jobs executed ("Nbr/Jobs"), Terminal Sessions ("Term Sess") to set up the batch job command files, elapsed (wall clock) and CPU time in hours on the IBM 370/158, and the total computer charges for these resources. Table 2 identifies total costs for major resource categories. The material in Table 3, Workforce Utilization, breaks down the efforts of the conversion staff by category of effort. Appendix C presents notes related to the processing of each data set.

Errors in processing had a number of potential causes, with a variety of possible actions required for recovery. The conversion task experienced hardware errors and operator errors which had nothing to do with the quality of data being processed (although this was not always obvious). Temporary input/output errors on tapes could be resolved by reprocessing. Permanent input/output errors or physically damaged tapes required processing of an alternate data source for recovery. Alternate sources included copies of equivalent EDRs from other facilities (for the most part USGS, Flagstaff) and master data records from which new EDRs could be regenerated and processed by the conversion software. A great deal of support was provided by USGS, including shipment of many hundreds of EDR tapes to JPL to support the recovery effort.

It was not possible to exhaustively document all errors encountered in the conversion processing. A subset of tapes processed has been analyzed to produce the information in Table 4, which shows the file location of physical errors on about 7000 input tapes. For the Viking Orbiter tapes, the average reel contains 10 files (70% full) and for Voyager, 24 files (90% full). In general, the errors reported in Table 4 cause the loss of a single EDR line record. For the most part, only a single error was found on any tape, but 17 Viking Orbiter EDRs and 9 Voyager EDRs did have multiple errors.

Figure 1. Image Data Conversion Processing Flow

Table 1. Conversion Processing Statistics

	1983							1984					
	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Nbr/Jobs	461	619	542	1308	1126	1065	760	672	718	865	542	1172	600
Term Sess	250	151	137	217	171	132	94	89	102	145	79	144	191
Elapsed	196	368	303	457	430	549	526	411	277	469	294	367	186
CPU Hours	18	40	28	47	41	56	60	50	34	72	38	36	16
Charges, $K	5	13	9	16	14	18	19	16	11	23	12	11	5

Table 2. Resource Requirements

Resource	Amount
Total elapsed time	4833 hours
Total CPU time	536 hours
Total computer charges	172,000 dollars
Total tapes required	2500 reels
Total tape cost	50,000 dollars
Total labor months	48 work months
Total budget	459,000 dollars

Errors categorized by tape age are as follows (in groups representing about 1000 tapes each):

Year written	1976	1977	1978	1979
Errors	50	48	48	24

It is significant that most errors were encountered in the first several hundred feet of tape, which could possibly be related to edge damage from handling or from winding tensions. The reliability figures look very good for tapes from all missions. An attempt to correlate tape errors with specific vendors was inconclusive.

In order to regenerate Viking EDRs, the MTIS processing system had to be de-mothballed and brought to a working state. This activity was not overly successful due to a long delay in making the system operational and numerous

Table 3. Workforce Utilization

JPL Supervisor	% of time	Task Manager	% of time
Accountability	10	Task Supervision	20
Budget	10	Accountability	20
		Task Support	35
		Coordination	15
		VAX Software Testing	10

Task Analyst	% of time	Task Technician	% of time
Job setup	20	Tape logistics/labelling	75
Record keeping	30	Organize/store printout	15
Output checking	30	Record keeping	5
Problem solving	15	Job setup	5
Tape logistics	5		

Table 4. File Location of EDR Tape Errors

	File Number																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15-18	19	20	21	22	23	24
VO	48	26	29	15	13	12	12	7	4	4	1	0	0	2	na	na	na	na	na	na	na
VG	21	6	5	4	8	10	2	2	2	5	0	1	2	0	3	4	0	0	2	2	5

hardware problems caused by the age and condition of the equipment. Ultimately, only images that were totally unrecoverable by any other means were regenerated on the MTIS system. Efforts to regenerate degraded images produced results that were also degraded. At best only a handful of lines could be successfully recovered at the expense of hours of processing time. In retrospect, it was concluded that data salvage activities that rely on the use of ancient or highly specialized hardware systems should be avoided.

V. RESULTS AND RECOMMENDATIONS

This section provides an evaluation of the task as performed, liens in terms of unprocessed or unrecovered data, and recommendations regarding the

disposition of EDR and MDR tapes processed by the conversion task group. Suggestions for future work are presented, including the development of uniform archive tape processing software, production of a backup or vault copy of the archive tapes, and salvage/conversion of image calibration data as well as processed image data from earlier missions.

A. Unprocessed or Unrecovered Data

A summary of unrecoverable images from all missions is provided in Appendix D. The formats of imaging tapes from the earliest Mariner missions (4, 6, and 7) representing about 220 images could not be determined within the resources of the conversion task. These tapes have been identified and collected but not yet processed for fear of destroying their data contents. All information collected on these tapes is provided in Appendix B. A follow-on effort is needed to complete this research activity and convert the data to high-density tape.

Based on our attempts to recover certain Viking Orbiter images, it was realized that the processing of MDR tapes using the MTIS system may require a number of years with no certainty of success. In this case the MDR tapes will be retained in the event that a user might find it absolutely essential to recover missing lines and pixels.

Due to the limited availability of resources at institutions that might provide copies of missing Voyager data (particularly the University of Wisconsin and Imperial College, London), it is expected that such copies will continue to be received at JPL over a period of several years. Continued funding will be required to add these data to the archive. This support should be explicitly identified as a Planetary Data System salvage/support task.

Digital data sets from non-JPL missions (including Pioneers 10 and 11 and Pioneer Venus Orbiter) should be identified and added to the archive collection at some point in the future.

B. Disposition of EDRs and MDRs

Disposition of the 12,000 input EDR tapes after the data conversion activity was not addressed in the initial plans for the task. It was assumed that some of them could be reused to support other projects or distributed to other centers which require imaging data for continuing analysis support. Up to this point requests for two sets of data have been received. Washington University in St. Louis has requested the Viking Orbiter Survey mission EDRs (1000 tapes on a long-term loan basis), and the University of Wisconsin has requested certain Mariner 9 RDR tapes even though this data set could not be processed due to I/O errors. It is known that the EDRs from Mariners 9 and 10 are of little use either for rereading or rerecording due to degradation from aging. Unless requested by some NASA facility, they should probably be destroyed. The Viking and Voyager tapes could be effectively reused in non-critical applications; however, these data sets are too useful in supporting ongoing science analyses at other institutions to be erased. It is recommended that they be transferred to institutions willing to accept and utilize them for image analysis.

The Master Data Records (MDRs) from all JPL missions except Viking Orbiter contain both the imaging telemetry records and the non-imaging science and engineering data. A proposal for the restoration of these data sets has been tentatively approved and will be carried out during 1985 and 1986. The Viking Orbiter mission produced a science/engineering MDR as well as an imaging MDR data set. The imaging MDR consists of about 12,000 tapes that can probably be considered obsolete, now that the image conversion task is complete. Due to the peculiar format of the imaging data, only a specialized processing system such as the MTIS can be used to reconstruct the images. Once MTIS is gone, these tapes can be reused for other applications.

Any decisions regarding the fate of these data sets should be made with the concurrence of JPL and NASA management, including planetary discipline chiefs at NASA Headquarters, as well as approval by the major imaging investigators. Since the Voyager mission is still active, decisions regarding its tapes should be approved by project management.

C. Uniform Processing Software

This task was concerned with saving the planetary image data sets and did not address their ultimate use by the JPL/MIPL user community or by outside scientists. It would be helpful if MIPL could be commissioned to develop a portable image reader program in FORTRAN for use within the MIPL and for distribution to users of archive tapes. This code would allow conversion of the EBCDIC VICAR labels to any of several commonly used header label formats (ASCII VICAR, VICAR2, etc.), and the interpretation or removal of engineering parameters appended to each image line as well as the header record information stored at the tail of each VSFEDR image file for the Viking and Voyager missions. The ability to perform cosmetic processing on the raw image data (missing line and pixel fill-in operations) should also be provided.

D. Archive Backup Copy

Due to the destructive effect of processing Mariner 9 and Mariner 10 EDR tapes, the only existing copies of these data sets are the two VSFEDR copies. Since both of these sets are considered to be working copies, it is imperative that a vault copy of these tapes be produced, which will not be used except to produce new working copies of archive tapes. The Viking and Voyager archive tapes are backed up by readable sets of EDRs at JPL and Flagstaff. It has been proposed that these tapes be backed up in a gradual manner through the production of an archive tape copy whenever images from an archive tape are requested by users. Consideration should be given to a system where requestors of digital images are required to submit two blank tapes for each request, one to write their images on, and one to produce an archive tape backup.

E. Processed Data Files

More than 10,000 tapes of IPL-processed images from missions dating back to Mariner 9 are stored at the Federal Records Center. For Voyager and Viking, many of these processed data sets are far more valuable than the raw

EDRs. A recovery effort similar in magnitude to this task needs to be initiated. However, it is not likely that these tape data sets will be subject to degradation in the next several years. They will become more difficult to identify and document as the IPL analysts who produced them leave JPL.

F. Calibration Data Sets

Several efforts have been proposed to locate and recover the calibration data files needed to radiometrically correct images from past missions. This activity should have a high priority because the data sets from Mariners 9 and 10 are in danger of becoming unreadable.

G. Hindsight

The task would have benefitted from having at least one additional full time person to support documentation of processing, tracking down errors, assuring the validity of all processed data and summaries, and producing a more comprehensive final catalog.

Without accurate catalogs of existing or expected data, it was difficult to determine when all possible data was recovered. Thus, extra research, sometimes fruitless, was required. Obtaining data from other institutions proved to be very time consuming. Funds to support at least the out-of-pocket expenses involved in data acquisition from other institutions should have been budgeted. Regenerating missing data was an order of magnitude more time consuming than normal processing operations. Where hardware had to be retrieved from storage (MTIS system), it was found that documentation and operational procedures had been lost and re-assembly/testing took many months of trial and error effort. This was with a system that had been mothballed with some expectation of being used in the future.

The handling of large numbers of tapes requires careful planning of timing and tape logistics, as well as a large storage area for preliminary sorting and a staging area in close proximity to the computer system to support actual processing. If adequate space is not available, it is at the expense of extra packing/unpacking and more complex operational procedures.

APPENDIX A

ARCHIVE TAPE (VSFEDR) FORMAT DESCRIPTION

1. ARCHIVE TAPE FORMAT

The converted images are stored in a "uniform" output format, called VICAR standard format experiment data record (VSFEDR). The VICAR (Video Image Communication and Retrieval) format was developed within JPL's Image Processing Laboratory and has been used for almost two decades to allow simplified access to and processing of digital images. It also provides the capability to store supplementary information (image identification, location, and characteristics) as well as processing information (audit trail) in conjunction with the digital image itself.

The basic archive tape (VSFEDR) format is as follows:

(1) VICAR standard header label.
(2) Mission-dependent VICAR labels.
(3) Digital image lines.
(4) Engineering data appended to each line.
(5) Mission-dependent EDR header record (Viking and Voyager only).

The efficient utilization of magnetic tape for data storage requires "blocking" of logical records into physical records to reduce the overhead required for interrecord gaps. In producing the archive tapes a blocksize approaching 32K bytes was used, which corresponds to the largest generally used I/O buffer area on modern computer systems. Because of the variable format of Viking Lander images, records were not blocked. Reference Table A-1 for VSFEDR tape physical characteristics by mission. Figures A-1 through A-5 illustrate the archive tape format for each mission.

Table A-1. Archive Image (VSFEDR) Formats

Mission	Logical Record Length	Physical Record Length	Physical Records in File	Lines per Image	Pixels per Line	Engineering Bytes
Voyager	1,280	32,000	33	800	800	480
Viking Orbiter	1,600	32,000	53	1056	1204	396
Viking Lander	9,000*	9,000*	*	512	*	n/a
Mariner 10	968	31,944	22	700	832	136
Mariner 9	968	31,944	22	700	832	136

* Variable, minimum record length = 360, maximum = 9000.

Figure A-1. Voyager Image File Format

Figure A-2. Viking Orbiter Image File Format

Figure A-3. Viking Lander Image File Format

Figure A-4. Mariner 10 Image File Format

Figure A-5. Mariner 9 Image File Format

The VICAR format image is produced from a project EDR or MDR by executing a "logging" program. The logging programs were developed separately for each mission to handle the particular idiosyncrasies of project data record formats. Basic logging program functions are to construct a VICAR label set for the output file, read the project EDR and strip out just the image pixel data, write out the VICAR image file, and report on the success of these activities to the user. In producing the VICAR format image certain header data and engineering telemetry parameters carried by the EDR are eliminated. This was not considered acceptable for the development of the VSFEDR archive so the logging programs had to be modified to retain all EDR data. This was done by moving all engineering header data associated with an image line to the tail of the image data within a single logical line record. Project header records were stored in a buffer and inserted in the VSF output file after the last line record. Thus, all engineering parameters are retained, but may be conveniently ignored by the user when the image file is read.

2. VICAR LABEL FORMAT

VICAR labels are stored in character string format, appearing as 72 byte records, normally grouped into 360 character blocks, each containing 5 or less label records. The first record, a VICAR header record, defines the image data format and size. A variable number of application dependent label records follow, terminated by a label record containing a character "L" in byte 72. Like the imaging EDR formats, the VICAR label records used by IPL vary from mission to mission. In general the image id comes first, followed by engineering parameters defining the camera state and a subset of SEDR parameters including the image footprint latitude and longitudes, and other useful interpretive parameters (picture size, range to target, lighting and viewing conditions).

The VICAR standard system label precedes each set of mission specific labels. The format adopted in 1977 is as follows:

(all characters represented in EBCDIC format)

Byte 1 to 2	-	Characters "77" or blank
Byte 17 to 24	-	Number of lines in image or blank.
Byte 25 to 32	-	Number of samples in image or blank.
Byte 33 to 36	-	Number of lines in image.
Byte 37 to 40	-	Number of samples per line.
Byte 41 to 42	-	Pixel code - "L" or "I" for binary integer.
Byte 43 to 44	-	Bytes per sample (1).
Byte 71	-	Label identification (not always present).
Byte 72	-	Character "C" indicating more labels follow, or "L" to indicate the last label.

Formats for additional VICAR labels are shown below. Note that the number of lines for Viking Orbiter and Voyager images includes an extra line which is actually the MTIS EDR header label, appended after the last actual image line in a file. The number of samples includes any engineering telemetry bytes appended at the end of the actual pixel values for the line. Most users can ignore these extra lines and samples in processing archive image files.

Viking Orbiter, Mariner 10, and Mariner 9 labels are always identical. Viking Lander labels may vary due to the list of missing lines at the end of the label set. A great number of images do not have SEDR values in the positions allocated for them in the VICAR label format. Even when values appear, they can not be guaranteed to contain valid data values. For accurate SEDR data the mission specific SEDR or picture catalog should be used.

3. ARCHIVE FILE CONTENTS BY MISSION

This section describes the labels and engineering parameters included in the archive tape format for each mission data set. The VICAR header labels for each mission are presented first, followed by a description of the engineering parameters contained in EDR image file header records, and those associated with each image line.

a. Voyager File Format

Each Voyager image file consists of 33 blocks containing 32,000 bytes per block. Each block is composed of 25 logical records of 1280 bytes each. The first three logical records of the first block contain 3 sets of VICAR label information. The labels are followed by 800 logical records (one per image line) containing pixel data and engineering data. A 1280-byte MTIS EDR header record follows the last line record of the image. The data contents of the labels, engineering data, and header record are provided below. Definitions for the parameters in the header records were taken from JPL document 618-792 (Ref. A-1).

1) Voyager VICAR Labels

```
77                    0801    1280 8011280 L 1                                  SC
VGR-1   FDS 15187.04   PICNO 1659J1-041   SCET 79.024 10:12:35                  C
NA CAMERA  EXP 00240.0 MSEC  FILT 2( BLUE )  LO GAIN  SCAN RATE  1:1            C
ERT 79.024 22:04:05   1/ 1 FULL    RES   VIDICON TEMP  -81.00 DEG C            C
IN/100520/21 OUT/******/**                 DSS #**   BIT SNR    9.617          C

OFFE5 A/45000BD7 B/6101 C/397F D/007F0000 ETLM/001800CB00GA00A50012Q            C
NA OPCAL 00(*****.* MSEC) PIXAVG 248/1 OPERATIONAL MODE 2(NAONLY)               C
CAM ECAL CYCLE BEAM  RESET OPEN  CLOSE FLOOD AEXPM  FIL G1 SHUT MODE            C
NA   NO   READ  YES   NO    NO    NO    NO    NO    2 P  * NORMAL              C
WA   NO   PREP  NO    YES   NO    NO    NO    NO    2 P  7 NORMAL              C

INCIDENCE ANGLE  97.6     EMISSION ANGLE  90.2     PHASE ANGLE 104.2            C
NORTH AZIMUTH ANGLE  45.1     KM/LINE     2.06      KM/SAMP     2.06           C
ALT   220406 KM SL.RANGE        0 KM VFOV    1594 KM HFOV    1396 KM           C
LAT   11(UL)  27(UR)  33(LL)  52(LR)  30(C)  14(SUB S/C)   0(SUBSOL)            C
LONG 202(UL) 247(UR) 195(LL) 186(LR) 196(C) 294(SUB S/C) 189(SUBSOL)            L
```

2) Voyager Line Header Data

The Voyager MTIS EDR line header contains 220 bytes of data. It consists of a 116-byte MTIS header block, 76-byte source data summary, and 28-byte status/engineering block. Byte locations are given relative to the start of the header block, which would actually be byte 801 of the VSFEDR line record.

Byte			Contents
MTIS Header Block:			
1	-	2	Record id (8 bits), unused (8 bits).
3	-	4	Physical sequence number on tape.
5	-	6	Logical sequence number on tape.
7	-	8	ERT year of century (7 bits), day of year (9 bits).
9	-	10	ERT minute of day (11 bits).
11	-	12	ERT milliseconds of minute.
13	-	18	Unused.
19	-	20	FDS mod 16 count.
21	-	22	FDS mod 60 count.
23	-	24	FDS line count.
25	-	36	Unused.
37	-	68	MTIS physical recording words 1 to 16 (16 bits each).
69	-	70	GCF sync code (MSB).
71			GCF sync code (LSB).
72			Source code.
73			Destination code.
74			Block format code.
75	-	76	GDD (3 bits), UDT code (7 bits), DDT code (6 bits).
77	-	78	"0", Spacecraft number (7 bits), time (MSB).
79	-	80	Time (LSB).
81	-	82	Unused (2 bits), day of year (12 bits), block serial number MSB (2 bits).
83			LSB of block serial number.
84			Millisecond clock.
85			Serial number.
86			GCF configuration status.
87	-	88	Unused (13 bits), esc (2 bits), unused (1 bit).
89	-	116	Unused.
Source Data Summary Block:			
117	-	118	Line number.
119	-	120	Format id.
121	-	122	Bit signal-to-noise ratio.
123	-	124	Unused.
125	-	126	Symbol synchronizer signal-to-noise ratio.
127	-	128	Unused.
129	-	130	AGC.
131	-	132	Unused.

133	-	134	Number of sync code errors.
135	-	136	Number of FDS count errors.
137	-	138	Unused.
139	-	140	Allowed number of sync code errors.
141	-	142	Allowed number of FDS count errors.
143	-	144	Number of minor frames.
145	-	146	Number of full minor frames.
147	-	148	Number of partial minor frames.
149	-	150	Number of mission minor frames.

The following ten 16-bit words contain the sync status in bits 1 and 2:

151	-	170	Number of frame id errors MF #1 through MF #10.
171	-	190	Number of bits retained MF #1 through MF #10.
191			Input source.
192			Input type.

Status/Engineering Block:

193	-	212	Imaging science subsystem status/engineering word MF #1 through MF #10.
213	-	216	Unused.
217	-	218	First valid pixel id.
219	-	220	Last valid pixel id.

3) Voyager MTIS EDR Header Block

This block occurs after the last VSFEDR line record in each image file. It is composed of a 116-byte MTIS header block, 76-byte source data summary, 56-byte status/engineering summary, and 1024-byte source data histogram.

Byte			Contents
MTIS Header Block:			
1			Record id.
2			File number.
3	-	4	Physical sequence number on tape.
5	-	6	Logical sequence number on tape.
7	-	8	ERT year of century (7 bits), day of year (9 bits).
9	-	10	ERT minute of day (11 bits).
11	-	12	ERT milliseconds of minute.
13	-	14	ERT year of century (7 bits), day of year (9 bits).
15	-	16	ERT minute of day (11 bits).
17	-	18	ERT milliseconds of minute.
19	-	20	FDS mod 16 count.
21	-	22	FDS mod 60 count.
23	-	24	FDS line count.
25	-	26	FDS mod 16 count.

27	-	28	FDS mod 60 count.
29	-	30	FDS line count.
31	-	32	SCET year of century (7 bits), day of year (9 bits).
33	-	34	SCET minutes of day.
35	-	36	SCET milliseconds of minute.
37	-	68	MTIS physical recording words 1 to 16 (16 bits each).

GCF Parameters for First Line Record:

69	-	70	GCF sync code (MSB).
71			GCF sync code (LSB).
72			Source code.
73			Destination code.
74			Block format code.
75	-	76	GDD (3 bits), UDT code (7 bits), DDT code (6 bits).
77	-	78	"0", Spacecraft number (7 bits), time (MSB).
79	-	80	Time (LSB).
81	-	82	Unused (2 bits), day of year (12 bits), block serial number MSB (2 bits).
83			LSB of block serial number.
84			Millisecond clock.
85			Serial number.
86			GCF configuration status.
87	-	88	Unused (13 bits), esc (2 bits), unused (1 bit).

GCF Parameters for Last Line Record:

89	-	90	GCF sync code (MSB).
91			GCF sync code (LSB).
92			Source code.
93			Destination code.
94			Block format code.
95	-	96	GDD (3 bits), UDT code (7 bits), DDT code (6 bits).
97	-	98	"0", Spacecraft number (7 bits), time (MSB).
99	-	100	Time (LSB).
101	-	102	Unused (2 bits), day of year (12 bits), block serial number MSB (2 bits).
103			LSB of block serial number.
104			Millisecond clock.
105			Serial number.
106			GCF configuration status.
107	-	108	Unused (13 bits), esc (2 bits), unused (1 bit).
109	-	116	Unused.

Source Data Summary Block:

117	-	118	Unused.
119	-	120	Format id.
121	-	122	Bit signal-to-noise ratio minimum.
123	-	124	Bit signal-to-noise ratio maximum.
125	-	126	Symbol synchronizer signal-to-noise ratio minimum.
127	-	128	Symbol synchronizer signal-to-noise ratio maximum.
129	-	130	AGC minimum.

131	-	132	AGC maximum.
133	-	134	Number of sync code errors.
135	-	136	Number of FDS count errors.
137	-	138	Sync parameters.
139	-	140	Allowed number of sync code errors.
141	-	142	Allowed number of FDS count errors.
143	-	144	Number of lines.
145	-	146	Number of full lines.
147	-	148	Number of partial lines.
149	-	150	Number of unreadable records.
151	-	152	Number of logical sequence breaks.
153	-	160	Sort parameter 1 thru 4 (16 bits each).
161	-	162	Number of minor frames from IDR.
163	-	164	Number of minor frames from WBDL.
165	-	166	Number of minor frames from SDR.
167	-	168	Number of missing minor frames.
169	-	170	Unused.
171	-	180	Picno (picture count, target, spacecraft, day).
181	-	190	Unused.
191			Input source.
192			Input type.

Status/Engineering Data:

193	-	194	Shuttered picture indicator.
195	-	196	Slow scan status.
197	-	198	Exposure time, filter, elec cal.
199	-	200	Picture count.
201	-	220	Parameter A through D values, 3 16-bit values each, representing a present value, word indicator and word pointer.
221	-	230	Ten 8-bit analog samples with the 8 MSB of each word representing the narrow-angle camera sample and the 8 LSB representing the wide-angle camera.
231	-	232	Pixel average, command status.
233	-	242	ISS engineering measurements.
243	-	248	Unused.

Source Data Histogram:

249	-	252	Number of pixels with value 0 (32 bits).
253			Number of pixels with value 1 ... 254.
1269	-	1272	Number of pixels with value 255 (32 bits).
1273	-	1274	Unused.
1275	-	1276	FDS mod 16 count.
1277	-	1278	FDS mod 64 count.

b. Viking Orbiter File Format

Each Viking Orbiter image file consists of 53 blocks containing 32,000 bytes per block. Each block is composed of 20 logical records of 1600 bytes each. The first two logical records of the first block contain 2 sets of VICAR label information. The labels are followed by 1056 logical records

(one per image line) containing pixel data and engineering data. A 1200-byte MTIS EDR header record follows the last line record of the image. The data contents of the labels, engineering data, and header record are provided below. Definitions for the engineering parameters in the header records are taken from JPL document 620-319 (Ref. A-2).

1) Viking Orbiter VICAR Labels

```
77                                  10571600 L 1                                C
V075 1A   PICNO= 209A11                                                         C
                              FILTER 4 (CLEAR) EXP    13 MSEC  FGD 111          C
FSC  29993423          OET-GMT  77 018 05 13 37      TPER +00 28 39            C
RNG=  6491 KM  HFOV=   94 KM  VFOV=  89 KM    SCL=   79  M/PXL                 C

SMEAR=  0.4 PXLS          SMRDIR= 128 DEG FROM UP       HRA 234 DG            C
NOR AZ 196 DG SUN AZ   87 DG S/C AZ 286 DG  INA 58 DG  EMA 18 DG              C
PHA  75 DG  SUNS LS= 188.0 DG   EDR=        /02  MAX-D=                       C
LAT   C= +21.40  UL= +22.36   UR= +20.84  LL= +21.96   LR= +20.42              C
LONG  C=  5.73   UL=   5.22   UR=   4.70  LL=   6.79   LR=   6.25              L
```

2) Viking Orbiter Line Header Parameters

The Viking Orbiter EDR line record header contains 396 bytes of data. It is composed of a 32-byte MTIS header, 56-byte source data summary, seven 32-byte SDR header records (one per track), and seven 12-byte V1280 flyback blocks. Locations are given relative to the start of the header block which is actually at byte 1205 of the line record.

Byte			Contents
MTIS Header Block:			
1	-	1	Record id.
2			Unused
3	-	4	Recording sequence number on EDR tape.
5	-	6	Logical sequence number on EDR file.
7			Year of century of start of data.
8			Day of year of start of data.
9	-	10	Minutes of day of start of data (10 bits).
11	-	12	Milliseconds of minute of start of data.
13			Year of century of end of data.
14			Day of year of end of data.
15	-	16	Minutes of day of end of data (10 bits).
17	-	18	Milliseconds of minute of start of data.
19	-	22	FDS time of start of data.
23	-	26	FDS time of end of data.
27	-	32	EDR tape id (ASCII).

Source Data Summary Block:

33			Unused.
34			File number on EDR tape.
35			Fill in type.
36			Track presence mask.
37	-	38	Average pixel value.
39	-	40	Unused.
41	-	42	Data Receipt Site Mask.
43	-	44	Minimum signal-to-noise ratio (SNR).
45	-	46	Maximum signal-to-noise ratio (SNR).
47	-	48	Unused.
49	-	50	Minimum average gain control (AGC).
51	-	52	Maximum average gain control (AGC).
53	-	54	Unused.
55	-	56	Total number of segments.
57	-	58	Number of fully synched segments.
59	-	60	Number of partially synched segments.
61	-	62	Number of segments with data quality ind = 0.
63	-	64	Number of segments with data quality ind = 1.
65	-	66	Number of segments with data quality ind = 2.
67	-	68	Number of segments with data quality ind = 3.
69	-	70	Number of segments with data quality ind = 4.
71	-	72	Number of corrected FDS counts.
73	-	74	Number of pseudonoise code (pn) errors.
75	-	88	Unused.

SDR Data Blocks. The following data block repeats for each of the seven sets of line segments used to generate the image. Data locations are shown for the first segment. Locations for succeeding segments are at loc + ((segment-1) * 32).

89	-	90	Data quality indicator (3 bits), rate code (3 bits), revision number (10 bits).
91	-	92	MSB of average gain control (? bits), bit sync flag (1 bit), be (1 bit), unused (? bits).
93	-	94	LSB of average gain control (4 bits), signal-to-noise ratio (12 bits).
95	-	96	Lock count (number of continuously locked telem frames).
97	-	98	MSB of FDS count (? bits).
99	-	100	LSB of FDS count (? bits).
101	-	102	TD PF (? bits), track number (? bits), line number (? bits).
103	-	104	DSS station id (8 bits), milliseconds of minute (8 bits).
105	-	106	GCF UTD (? bits), day of year (? bits).
107	-	108	SC(1) (1 bit), DSIF lock status (? bits), MSB of seconds of minute (? bits).
109	-	110	GCF DDT (8 bits), LSB of seconds of minute (? bits).
111	-	112	SC(2) (? bits), DSIF configuration code (? bits).
113	-	114	Sync error (? bits), data bit count (? bits).
115	-	116	DP (1 bit), unused (1 bit), HEW index (? bits), housekeeping engineering word (? bits).

117	-	118	DP (1 bit), unused (1 bit), SEW index (? bits), science engineering word (? bits).
119	-	120	Unused.

V1280 Flyback Block. This block repeats 7 times, one for each set of line segments used to construct the line. The location of data values in segments 2 - 7 is loc + ((track -1) * 12).

313	-	314	Unused (2 bits), MSB of sync word (14 bits).
315	-	316	LSB of sync word (14 bits), MSB of track id (1 bit).
317	-	318	LSB of track id (2 bits), engineering data (5 bits), MSB of picture id (9 bits).
319	-	320	LSB of picture id (10 bits), MSB of line id (6 bits).
321	-	322	LSB of line id (5 bits), FDS flag (1 bit), HRD (1 bit), embedded science data (5 bits), unused (4 bits).
323	-	324	Unused.

3) Viking Orbiter EDR Header Record Format

This block occurs after the last VSFEDR line record in each image file. It is composed of a 32-byte MTIS header block, 80-byte source data summary, 48-byte status/engineering summry, and 1024-byte source data histogram.

Byte			Contents
MTIS Header Block:			
1	-	1	Record id.
2			Unused.
3	-	4	Recording sequence number on EDR tape.
5	-	6	Logical sequence number on EDR file.
7			Year of century of start of data.
8			Day of year of start of data.
9	-	10	Minutes of day of start of data (10 bits).
11	-	12	Milliseconds of minute of start of data.
13			Year of century of end of data.
14			Day of year of end of data.
15	-	16	Minutes of day of end of data (10 bits).
17	-	18	Milliseconds of minute of start of data.
19	-	22	FDS time of start of data.
23	-	26	FDS time of end of data.
27	-	32	EDR tape id (ASCII).
Source Data Summary Block:			
33			Unused.
34			File number on EDR tape.
35			Fill-in type.
36			Track presence mask.

37	-	38	Average pixel value.
38	-	40	Unused.
41	-	42	Data Receipt Site Mask.
43	-	44	Minimum signal-to-noise ratio (SNR).
45	-	46	Maximum signal-to-noise ratio (SNR).
47	-	48	Unused.
49	-	50	Minimum average gain control (AGC).
51	-	52	Maximum average gain control (AGC).
53	-	54	Unused.
55	-	56	Total number of segments.
57	-	58	Number of fully synched segments.
59	-	60	Number of partially synched segments.
61	-	62	Number of segments with data quality ind = 0.
63	-	64	Number of segments with data quality ind = 1.
65	-	66	Number of segments with data quality ind = 2.
67	-	68	Number of segments with data quality ind = 3.
69	-	70	Number of segments with data quality ind = 4.
71	-	72	Number of corrected FDS counts.
73	-	74	Number of pseudonoise code (pn) errors.
75	-	76	Number of adjusted pn errors.
77	-	78	Number of unreadable source data records.
79	-	80	Number of source data logical sequence breaks.
81	-	82	Number of source data breaks.
83	-	84	Unused.
85	-	86	Number of lines.
87	-	88	Number of full lines.
89	-	90	Number of partial lines.
91	-	92	First line number.
93	-	94	Last line number.
95	-	96	Unused.
97	-	102	Picno - orbit, spacecraft, sequence in orbit (ASCII).
103	-	104	Viking reconstruction processing run number.
105	-	110	EDF disk label.
111	-	112	Unused.

Telemetry Engineering Summary Block. Each value in this block consists of two bytes (16 bits). Bit one of each word represents a data presence flag (0 = absent, 1 = present). Bit 2 is unused. Bits 3, 4, and 5 contain the data quality indicator associated with the measurement (0 = bad, 4 = good). Bit 6 is unused. The value(s) represented by the remaining bits are described below.

113	-	114	Transmitted code word. C (1 bit), gain code (1 bit), light flood (1 bit), filter (2 bits), exposure (5 bits).
115	-	116	Binary '101' (3 bits), filter number (3 bits), camera serial number (4 bits).
117	-	118	Received code word. C (1 bit), gain code (1 bit), light flood (1 bit), filter (2 bits), exposure (5 bits).
119	-	120	Unused.
121	-	122	+50 volts dc.
123	-	124	+15 volts dc.
125	-	126	+12 volts dc.
127	-	128	+5 volts dc.
129	-	130	-15 volts dc.

131	-	132	-23 volts dc.
133	-	134	Average video.
135	-	136	Power converter input 1.
137	-	138	Cathode current 1.
139	-	140	Cathode current 2.
141	-	142	Filament 1.
143	-	144	Frame sweep 1.
145	-	146	Line sweep 1.
147	-	148	Grid 3 voltage.
149	-	150	Focus 1.
151	-	152	Digital ladder.
153	-	160	Unused.

Source Data Histogram. This source data histogram contains a series of 256, 4-byte (32-bit), values giving the count of occurrences of each pixel value within the image. The first entry represents the number of pixels with value 0, followed by the number of pixels with value 1, etc., up to 255.

161	-	164	Number of pixels with value 0.
165	-	168	Number of pixels with value 1.
169	-	1196	Values 2 through 254.
1197	-	1200	Number of pixels with value 255.

c. Viking Lander File Format

Each Viking Lander image file consists of 515 or more blocks (depending on the number of label records) containing a variable number of bytes per block. The number of bytes per block is equal to the number of scan lines taken by the camera or 360, whichever is larger. The data contents of the labels are shown below.

1) <u>Viking Lander VICAR Labels</u>

```
                          1   1 512 382 I 1                                  C
VIKING LANDER 1     CAMERA 2                CE LABEL 11J191/172              C
DIODE  BB4          STEP SIZE 0.04          CHANNEL/MODE   5/2               C
AZIMUTH 20/215.0    ELEVATION -10(-20.22/   0.22)                           C
OFFSET  1  GAIN 2   SCAN RATE 16K           DCS ACTIVE                       C

DATA RATE 12324      PSA TEMP   12C(37)     DATA PATH REC/UH                AC
LINES TOTAL  382     RESCAN BEGIN   376     RESCAN TOTAL    7                C
SUN AZ/EL 140.1/68.3 ANTI-SOLAR AZ/EL 258/-65                                C
LLD/T 172/17:24:39   DATA LINK RAWEDR       EVENT D/GMT 013/06.33.56         C
AVE DN VALUE 107.30  STAND DEV  29.06        RANGE  20 TO 240                AC

MISSING LINES    0   GAPS    0              PERCENT MISSING  0.00           AC
SOURCE TAPE/FILE DMI051/ 9                  VICAR TAPE/FILE DN0098/13        C
SEGMENT AZ/EL/STEP SIZE 200.000/  0.220/0.04000000                           C
STRETCH - TEXTAD - TEXTAD                                                   HL
```

2) Viking Lander Missing Lines Labels

```
MISSING LINE GAPS  (FIRST-LAST)     1438-1438                                C
```

3) Viking Lander Calibration Labels

```
UN07UN07UN07UN07 IR1 IR1 IR1 IR1 RED RED RED RED BB3 BB3 BB3 BB3              AC
 BB4 BB4 BB4 BB4 IR3 IR3 IR3 IR3 BLU BLU BLU BLUSURVSURVSURVSURV              AC
UN06UN06UN06UN06 IR2 IR2 IR2 IR2 GRN GRN GRN GRNUN12UN12UN12UN12              AC
 SUN SUN SUN SUN BB1 BB1 BB1 BB1 BB2 BB2 BB2 BB2                               AL
```

d. Mariner 10 File Format

Each Mariner 10 image file consists of 22 blocks containing 31,944 bytes per block. Each block is composed of 33 logical records of 968 bytes each. The first logical record of the first block contains a single set of VICAR label information. The labels are followed by 700 logical records (one per image line) containing pixel data and engineering data. The data contents of the labels and engineering data are provided below.

1) Mariner 10 VICAR Labels

```
77                                  700 968 L 1                              SC
MVM73    FDS=0057910    IM-1         ERT  YR=74 DAY=036 GMT=18/21/02          C
CAMERA=B        FILTER=6(UV)         NOMINAL EXPOSURE=   45.7 MSEC            L
```

2) Mariner 10 Line Header Data

The Mariner 10 header block consists of a byte header block and a byte subheader block. Definitions for these engineering values are taken from JPL document 615-43 (Ref. A-3). Locations of parameters are given relative to the beginning of the header data, which is actually at byte 833 in the VSFEDR line record.

Bit			Contents
Header Block:			
1	-	18	Record id.
19	-	36	Record sequence number on tape.
37	-	54	Record id sequence number.
55	-	64	GMT start time milliseconds.
65	-	73	GMT start time day.
74	-	90	GMT start time seconds.
91	-	100	GMT stop time milliseconds.
101	-	109	GMT stop time day.
110	-	126	GMT stop time seconds.
127	-	144	Unused.

145	-	160	Unused.
161	-	180	FDS count (increments once per lines)
176	-	180	Das subtime (line count between das time increments).
181	-	188	Unused.
189	-	198	FDS minor frame count (cycles 1 to 700 for every FDS count increment (image)).
199	-	216	Unused.
217	-	220	Rate code of transmitted data.
221	-	234	Number of data bits in this record.
235	-	252	Number of consecutive in-sync frames.
253	-	360	Unused.

Subheader Block. The following subheader data are formatted in 18-bit words beginning with a data flag bit (0=available, 1=not available) followed by 17 bits representing the data item value right justified in the field.

361	-	576	Unused.
577	-	594	IM-1 unused; IM-3 pixel edit option flag (1 bit).
595	-	612	TV status data (16 bits).
613	-	630	TV exposure data (14 bits).
631	-	648	Filter position data (4 bits).
649	-	666	CC-5-8 coded command (13 bits).
667	-	684	CC-5-9 coded command (13 bits).
685	-	702	CC-5-10 coded command (13 bits).
703	-	720	CC-5-11 coded command (13 bits).
721	-	738	TV housekeeping word 1 (10 bits).
739	-	756	TV housekeeping word 2 (10 bits).
757	-	774	TV housekeeping word 3 (10 bits).
775	-	792	TV housekeeping word 4 (10 bits).
793	-	810	TV housekeeping word 5 (10 bits).
811	-	828	TV housekeeping word 6 (10 bits).
829	-	846	TV housekeeping word 7 (10 bits).
847	-	864	TV housekeeping word 8 (10 bits).
865	-	882	TV housekeeping word 9 (10 bits).
883	-	900	TV housekeeping word 10 (10 bits).
901	-	1088	Fill.

e. Mariner 9 File Format

Each Mariner 9 image file consists of 22 blocks containing 31,944 bytes per block. Each block is composed of 33 logical records of 968 bytes each. The first logical record of the first block contains a single set of VICAR label information. The labels are followed by 700 logical records (one per image line) containing pixel data and engineering data. The data contents of the labels and engineering data are provided below.

1) Mariner 9 VICAR Labels

```
77                                  700 968 L 1                                  SC
MARINER 9   115A31/32   YR 72 DAY  10 GMT 225324 DAS TIME 05708398               C
PICTURE NUMBER  03495   EXP TIME  192 MSEC       FILTER POS 8                   C
ALT  2200 KM            APPROX WIDTH 1418 KM     APPROX HT  766 KM              C
VIEW ZENITH ANGLE 59.0  SOLAR ZENITH ANGLE 77.3  PHASE ANGLE 78.0               C
```

```
LONGITUDE-CENTER 116.7  CORNERS ***** 107.2 126.2 110.0                C
LATITUDE--CENTER  40.2  CORNERS *****  43.8  37.5  31.1                L
```

2) Mariner 9 Line Header Data

The VSFEDR header data appended to each Mariner 9 imaging line is a copy of the R7938 telemetry header and subheader data for each line of pixel values. Values for these fields are taken from JPL document 610-124 (Ref. A-4). Bit locations are given relative to the start of the header which is actually at byte 833 or bit 6657. The header consists of 20 18-bit words and the subheader is 30 18-bit words (total 50 x 18 bits = 900 bits or 113 data bytes plus 23 fill bytes) as follows:

Bit			Contents
Header Block:			
1	-	3	Spacecraft serial number.
4	-	6	Octal 3.
7	-	18	Data stream identifier.
19	-	36	Record sequence number.
37	-	54	Record id sequence number.
55	-	64	GMT start time milliseconds.
65	-	73	GMT start time day.
74	-	90	GMT start time seconds.
91	-	100	GMT stop time milliseconds.
101	-	109	GMT stop time day.
110	-	126	GMT stop time seconds.
127	-	144	Unused.
145	-	150	Unused.
151	-	175	Das time (increments once per 20 lines)
176	-	180	Das subtime (line count between das time increments).
181	-	270	Unused.
271	-	271	Decommutation mode (0=frame, 1=PN).
272	-	285	Unused.
286	-	288	PN errors allowed.
289	-	290	PN sequence status (1=no leading or trailing, 2=no leading, good trailing, 3=good leading no trailing, 4=good leading and good trailing).
291	-	303	Number of data bits in record.
304	-	306	Number of bit errors found in leading PN.
307	-	314	Half word in data block containing first element.
315	-	324	Current line count.
325	-	327	Unused.
328	-	332	Number of bits per pixel.
333	-	342	Number of pixels per line.
343	-	347	Unused.
348	-	350	Number of pixels per word.
351	-	360	Number of lines per picture.

Subheader Block. The following subheader data are formatted in 18-bit words beginning with a data flag bit (1=available, 0=not available), followed by 17 bits representing the data item value right justified in the field.

361	-	378	Picture count (6 bits).
379	-	396	Line count (10 bits).
397	-	414	Camera id (1 bit).
415	-	432	Exposure interval (4 bits).
433	-	450	Filter position (4 bits).
451	-	468	Z-008 TV beam current status (1 bit).
469	-	486	Z-015 TV calibrate status (1 bit).
487	-	504	Z-016 TV pixel average (4 bits).
505	-	522	Z-049 A shutter mode status (1 bit).
523	-	540	Z-050 filter mode status (1 bit).
541	-	558	Z-058 B shutter mode status (1 bit).
559	-	576	Z-068 shutter enable status (1 bit).
577	-	594	Z-514 DAS sequence (5 bits).
595	-	612	Z-515 A cathode current (10 bits).
613	-	630	Z-517 A grid 2 voltage (10 bits).
631	-	648	Z-517 event ladder (10 bits).
649	-	666	Z-518 A-B focus current (10 bits).
667	-	684	Z-519 plus 4 volts (10 bits).
685	-	702	Z-525 B cathode current (10 bits).
703	-	720	Z-526 B grid 2 voltage (10 bits).
721	-	738	Z-527 P/S input current (10 bits).
739	-	756	Z-528 B optics temperature (10 bits).
757	-	774	Z-529 average video (10 bits).
775	-	900	Unused.
901	-	1088	Fill.

APPENDIX B

PLANETARY MISSIONS AND DATA SETS

This appendix provides an overview of the various planetary missions, with descriptions of the imaging instruments and data products produced by each mission.

1. VOYAGER

The Voyager mission has returned over 60,000 television images of Jupiter, Saturn, their satellites, and their rings. More data are expected during the next decade as the Voyager 2 spacecraft flies past Uranus and Neptune before leaving the solar system.

The Voyager spacecraft were equipped with two mechanically shuttered cameras, each fitted with vidicon sensors and color filter wheels. Specifications for the Voyager cameras are given in Table B-1.

Most of the photographic products generated from the digital data were produced by the Mission and Test Imaging System (MTIS). A comprehensive description of the computer programs used to process the Voyager data is given in the MCCC/MTIS Voyager Program Description Document, JPL 618-792 (Ref. A-1). A final version of the Experiment Data Record (EDR) containing a minimum number of missing or defective pixels was generated for each Voyager image. The Voyager EDRs are recorded on 9-track tapes at a density of 1600 bpi. Each image comprises one file on the EDR tape, with as many as 24 files on a tape. One end-of-file marker (EOF) separates images. There are two EOFs after the last image on a tape. Each image file consists of a single header record of 1280 eight-bit bytes, followed by 800 line records consisting of 1040 bytes each. Each line record includes an MTIS header block, a source data summary, status/engineering data followed by 800 bytes of pixel data.

The major Voyager data catalogs include the Voyager picture catalog set and the Voyager SEDR catalogs. The Voyager picture catalogs contain a subset of SEDR parameters for each image as well as identification of digital image data sets and film products. There is a single major picture data file for Voyager 1 and 2 images of each planet system, and a number of sub-catalogs containing other parameters. There are three SEDR master catalogs, one for each spacecraft for Jupiter and a single tape for Saturn. These catalogs are available as stack tapes of the original delivered SEDRs or in files where all parameters have been converted to EBCDIC or ASCII character strings. Catalog file and tape identifiers are listed in Table B-2.

Copies of these catalogs in digital format can be obtained from the MIPL librarian, 818-354-4244, FTS 792-4244. Copies of printed catalogs on microfilm are available from the National Space Science Data Center (NSSDC).

Table B-1. Characteristics of Planetary Camera Systems

Mission	Focal Length (mm)	Field of View (degrees)	Field of View (Pixels (P) X Lines (L))	Bits per Pixel
Voyager				
Wide angle	200	3.0 X 3.0	800P X 800L	8
Narrow angle	1500	0.4 X 0.4	800P X 800L	8
Viking Orbiter				
Both cameras	475	1.69 X 1.54	1204P X 1056L	7
Viking Lander				
Both cameras	53.7	0.04 X 20	512P X Var.	6
Mariner 10				
Narrow angle(2)	1500	0.48 X 0.37	832P X 700L	8
Wide angle optics	62	14 X 11	832P X 700L	
Mariner 9				
Narrow angle	500	1.41 X 1.06	832P X 700L	9
Wide angle	52	13.5 X 10.5	832P X 700L	9
Mariners 6 and 7				
Narrow angle	508	1.4 X 1.1	945P X 704L	8
Wide angle	52	14 X 11	945P X 704L	8
Mariner 4				
	305	1.1 X 1.1	200P X 200L	6

2. VIKING ORBITER

In the 3-year period from June 1976 to October 1979, two Viking Orbiter spacecraft returned more than 50,000 images of the Martian surface and satellites to Earth. Although the Voyager missions have returned a greater number of images, the larger image format of the Viking cameras makes this the largest planetary data set in existence. Descriptive material on this data set is dispersed through many scientific papers, formal reports, and informal memoranda. There is no single organized catalog of data such as those that exist for Mariner 9 or for the Viking Landers.

Table B-2. Planetary Image Catalog Files

Mission and Target Body	Picture Catalogs	SEDR Catalogs
Voyager 1 Jupiter	J1PIC1	J1SDR1
Voyager 2 Jupiter	J2PIC1	J2SDR2
Voyager 1 Saturn	SPIC1	S1SDR1
Voyager 2 Saturn	SPIC1	S2SDR2
Viking Orbiter	VOPIC1	VOSED1, 2 and 3
Viking Lander	VLPIC1	VLSDR1 and 2
Mariner 10	MVMPC1	
Mariner 9	M9PIC1	SDRM71
Mariners 6&7	PICM69	
Special Catalogs		
Viking Lander Team Data Record		VLTDR
Viking Orbiter Mosaic Catalog		VOMOS1
Voyager Tape Catalog		VGRCAT
Viking Tape Catalog		VIKCAT

The Viking Orbiter imaging experiment used two identical telescopic cameras, each equipped with large format vidicon sensors and provided with a movable color filter wheel located near the focal plane. The camera characteristics are described in Table B-1. Images were initially recorded on 7-track magnetic tape recorders on the spacecraft. The data were played back to Earth one track at a time by operating the tape recorder alternately in the forward and reverse directions. Each raw data frame retrieved from the tracking station thus contains every seventh pixel arranged in either increasing or decreasing order. Image data reconstructed from these raw data frames by the MTIS form the Experiment Data Record (EDR).

The majority of Viking images were acquired as strips of contiguous and slightly overlapping images, which are most useful when assembled into mosaics. In many cases multiple strips can be assembled to form still larger mosaics, which provide a synoptic view of a regional surface and can support detailed geologic mapping.

Viking Orbiter EDRs are recorded on 9-track tape at densities of either 800 or 1600 bpi (800 was used only during the first few weeks of the mission). A maximum of 14 images are contained on one tape recorded at 1600 bpi. Images are separated by single EOFs with two EOFs following the last image on a tape. Each image file consists of an EDR header record of 1200 bytes, an SEDR record of 2000 bytes and 1056 line records, each 1600 bytes long. Records are not blocked. Pixel values are stored as 8-bit integers with a range from 0 to 255. The values represented on the EDR tape are actually two times the value received in the telemetry stream. Because of the nature of the recording and

playback system, strings of missing bits appear as vertical bars at 7-pixel intervals. Missing pixels are set to zero on the EDR tapes.

Viking Orbiter catalogs include the picture catalog, a collection of SEDR and image data product information, a set of four SEDR stack tapes, and a mosaic catalog documenting the large set of digital and hand mosaics produced by JPL during and after the mission. Table B-2 identifies tapes containing the Viking catalogs.

3. VIKING LANDER

The Viking Lander imaging data set was acquired by the two Viking Lander spacecraft on the surface of Mars. Viking Lander 1 began operation on July 10, 1976 and continued to return data until early 1983, when communications were lost. Viking Lander 2 began operation on September 3, 1976 and concluded transmission in February 1980. The camera systems utilized by the Landers are summarized in Table B-1.

A comprehensive description of this data set is provided in a three-document picture catalog. The first document, "Viking Lander Imaging Investigation: Picture Catalog of Primary Mission Experiment Data Record" (Ref. B-1) describes data from the primary mission covering the period from landing through the solar conjunction period in December 1976 when data transmission ended. The second document, "Viking Lander Imaging Investigation During Extended and Continuation Missions," in two volumes (Ref. B-2), describes the Lander 1 and 2 missions through February 1979. The final document, "Conclusion of Viking Lander Imaging Investigation" (Ref. B-3), describes the last several years of imaging activities.

The introductory material in each of the three documents includes a description of the Viking Lander cameras, their calibration, and the coordination of the Viking Lander cameras and their image data. The Viking Landers were designed to directly transmit data to Earth at low data rates as well as to relay data via the Orbiters at much higher data rates. Those documents describe the implications of these data modes for the types of data recovered from the Landers as well as the extraction of image data from the telemetry to produce the EDR data set.

The Viking Lander EDRs are recorded at 1600 bpi on 9-track tapes. A variable number of images are contained on each tape with each image separated by a single EOF and two EOFs following the last image on the tape. Image files are written in standard VICAR format with a variable number of label records followed by 512 line records. The logical record length of each label or line record is equal to the number of vertical lines in the image (variable from image to image), or 360 bytes, whichever is larger. All label information is represented in EBCDIC (Extended Binary Coded Decimal Interchange Code) format. Each pixel is stored as an 8-bit binary value ranging from 0 to 255, which represents the actual 6-bit data value from the instrument times 4.

There is also another Viking Lander digital data set called the Team Data Record (TDR). This record consists of sets of specially enhanced images

and includes mosaic data sets, color images, and other special products. Image data is stored on 9-track tapes in VICAR format recorded at 1600 bpi.

4. MARINER 10

The Mariner 10 mission was the first multiplanet mission carried out by a single spacecraft. In one flyby of Venus followed by three flybys of Mercury, Mariner 10 returned more than 12,000 images to Earth. Images of the airless body Mercury were of interest to planetary geologists, while the images of cloud-shrouded Venus were of meteorological significance.

The Mariner 10 spacecraft was equipped with two vidicon framing cameras, whose characteristics are detailed in Table B-1. The narrow-angle camera was used to image Venus and Mercury from long range and to obtain the highest resolution pictures near closest approach to the two planets. EDR and radiometrically decalibrated data exist for Mercury.

The "Atlas of Mercury" (Ref. B-4) covers the Mercury portion of the Mariner 10 mission. The Atlas includes an outline of the mission, a description of the cameras, photomosaics, maps and a set of references to the scientific photomosaic, and maps and a set of references to the scientific results. The Mercury observations of the Mariner 10 data set remain unique in that there have been no subsequent spacecraft observations of Mercury. The Venus images have recently been supplemented by the imaging type observations obtained by the Pioneer Venus Orbiter cloud photopolarimeter.

5. MARINER 9

Mariner 9 was launched on May 30, 1971. Between the time of Mars orbit insertion on November 14, 1971 and October 22, 1972, the spacecraft conducted an intensive orbital reconnaissance of the planet. The first complete geological map of Mars and the discovery of a host of hitherto unsuspected landmarks were among the spectacular results. A comprehensive description of the Mariner 9 mission and its imaging data set is provided in "Mariner Mars 1971 TV Picture Catalog," Vols. 1 and 2 (Refs. B-5 and B-6).

Mariner 9 was equipped with wide-angle and narrow-angle telescope cameras, small format selenium-sulphide vidicon sensors, and mechanical shutters. The wide-angle camera had a color filter wheel which functioned for only part of the mission. Characteristics of the cameras are given in Table B-1.

A set of Mariner 9 RDR (Reduced Data Record) images was also produced. The planetary image conversion task attempted to copy the RDR data set to high-density tape, but so many read errors were encountered that processing had to be abandoned. Substantial concern had been expressed by imaging scientists about the validity of the RDR data set, so its loss is not as tragic as it might have been.

6. MARINERS 6 AND 7

Mariner 6 and 7 spacecraft acquired 200 images of Mars at a variety of resolutions in the summer of 1969. These data are described in the "Scientific Findings from Mariner 6 and 7 Pictures, Final Report" (Ref. B-7) and "Mariner Mars 1969: A Preliminary Report" (Ref. B-8). The image tapes located by the conversion task have been computer-enhanced and actually represent a Reduced Data Record rather than an EDR. The wide-angle camera had a rotary shutter with four colored filters in the sequence red, green, blue, green, etc. The narrow-angle camera used a minus-blue haze filter. Mariner 6 and 7 images consist of 704 lines of 945 pixels. Three versions of each image were transmitted, composite analog video, digital video (every 7th pixel - 8 bits, 2 MSB truncated); and ETE (every 28th pixel). Table E-6 identifies all known Mariner 6 and 7 image tapes. All tapes are 7-track, but no other format documentation has yet been located.

7. MARINER 4

The Mariner 4 (Mars) mission acquired 22 images of Mars in 1965. By present standards the images are of very poor quality. A detailed description of the images is provided in "Mariner Mars 1964 Project: Television Experiment" (Ref. B-9) and "The Mars 1964-1965 Apparition" (Ref. B-10). Mariner 4 images contain 200 lines, each consisting of 200 six-bit pixels. The Mariner 4 digital tapes located at JPL include Master Data Records (K-xxx), MDR reacquisition tapes (MDL-xxx), TV picture tapes (KC-xxxx), and final flight pictures (RBLM-xx). Format documentation has only been found for the final flight pictures. They are stored on two identical sets of tapes: RBLM19 through RBLM22 and RBLM 23 through RBLM 26. Tape formats are described as being binary, high-density, with a physical record size of 256 bytes per block. There are 19 images contained on each tape with a single end-of-file mark after the last picture. RBLM 19 contains the true intensities of the flight pictures in regular format. Each picture consists of 16 x 172 blocks. To obtain one block from the tape, use the following FORTRAN statements:

```
DIMENSION P(16,172)
READ (L)P
```

where L is an integer constant specifying a logical unit where the tape is mounted. P(1,1) of the first block of each picture corresponds to the picture element at line 7 and column 29, and P(16,172) of the first block corresponds to the picture element at line 22, column 200. RBLM 21 contains the true intensities of the sharpened images in regular format and has the same recording characteristic as RBLM 19. Tape RBLM 20 contains the true intensities of flight pictures in rectified format. Each picture consists of twelve 16 x 193 blocks. To read an image the following FORTRAN statements can be used:

```
DIMENSION P(16,193)
READ (L) P
```

P(1,1) of the first block of each picture corresponds to the picture element at line 0 and column 11, and P(16,193) of the first block corresponds to the picture element at line 15 and column 203. RBLM 22 contains the true

intensities of the sharpened flight pictures in rectified format with the same structure as RBLM 20.

Other undocumented Mariner 4 Tape ids are listed below.

K-13,19,25,28,44,49-50,68,70,74,87,92,114-117,123-126,128,133
K-142-142,149,162-164,167-169,173

MDL-1,MDL3-5,MDL4-5,MDL-5,6-5,MDL-7,9-5

XA-001-040,042-063
X-039,053,128,137,179,199,201,202,206,208

8. OTHER PLANETARY MISSIONS

The Pioneer 10 and 11 missions carried photopolarimeters which produced image data of the Jupiter and Saturn (Pioneer 11 only) systems. The Pioneer Venus Orbiter radar has also produced an image data set which should be incorporated into the image archive.

APPENDIX C

CONVERSION PROCESSING NOTES

This appendix provides details of the conversion activities, including a description of the setup and execution of the various processing components, a history log documenting the processing of each data set, and a brief description of the software used to produce and verify the image archive tapes.

1. PROCESSING COMPONENTS

This section provides a brief description of the major components of the image conversion task.

a. Software Modification

Modification to existing IPL image logging programs was required to produce machine-readable summary outputs documenting the status of each processing job, and to produce the VSFEDR format rather than the nominal VICAR output data set. This required only minimal rewriting of code and was performed by IPL programmers. Each logging program required about two man-weeks to modify.

b. Locating Source Data

Tapes for each mission were identified based on their tape id numbering sequences. In order to try to capture all existing data, all image tape sequences were recalled and processed, not just those known to contain valid mission data. All imaging tape sequences were recalled from the Federal Records Center and hung on tape racks in Building 231-B1. A staging area with a storage capacity of 1000 tapes was established near the IPL computer facility.

c. Processing Procedure Development

The following steps were taken to develop the processing procedure:

(1) Solicited and received approval of modified VICAR format from representatives of the imaging science community.

(2) Performed test runs of modified software to:

(a) See how much disk space each image would take.

(b) See how long each EDR would take to log to disk.

(c) Verify that the process worked properly.

(d) Assure that the printed listings provided required summary information (image identifier, VICAR label format, input tape, and file number).

(3) Performed tests to write EDR disk files out to 6250 tape to verify length of tape required for each image.

d. Blank Tape Acquisition

JPL's Information Processing Facility maintains open requisitions with several vendors to procure tapes in lots of 500 with lead times of approximately one week. The open requisitions facilitated the procurement process while keeping the paperwork to a minimum: no procurement requisition, request for quotes, or procurement vendor selection. These tapes are routinely tested for quality when received by IPC, another major benefit.

e. Record Keeping

An organized record-keeping method was developed to:

(1) Determine what was really good data to be archived and tracked.

(2) Log pertinent information for each image as processing was performed.

(3) Maintain printed listings in the order they were run for easy access (these listings were frequently used for later reference).

f. Data Processing

Job setup included the following steps:

(1) Determined the optimum order for processing EDRs.

(2) Performed an inventory to compare existing documentation with actual tapes found in storage.

(3) Created command files on the IBM computer containing correct VICAR and JCL statements to run VICAR programs created for the mission.

(4) Inserted correct input tape and output disk names to perform the required processing.

g. Output Check

Every single image that was processed by each job was checked and recorded on a processing log sheet:

(1) Jobs that terminated abnormally were identified. Failed runs were given top priority and re-run as quickly as possible, to attempt

to keep track of the data in the order that the jobs were run and to immediately identify hardware or system problems.

(2) Each output tape was scanned after it was written to double check the blocking and file count.

(3) About 20 percent of the output tapes had polaroids taken of random images to verify that the expected image was in the proper file and in the right size and format.

(4) Each output tape had a VICAR program called "VCOPY" run on it to insert the VICAR labels into a library support file.

h. Library Support File

This file was created by either the logging software or VCOPY and contained all image labels as well as tape and file number of the output image.

i. Index of VSFEDR Images

In addition to the LSF files produced by the processing and tape copy software, a separate index of picture id versus archive tape/file number was created by keypunching the processing log sheets for each mission. This task was performed at IPC and the resulting data edited and reformatted into a complete archive tape index using the MARK IV file management system on the IPL computer.

2. MISSION SPECIFIC PROCESSING NOTES

This section provides a brief description of the processing of each mission data set.

a. Voyager

Primary processing of the 60,255 Voyager images took approximately 3 months (January 16 - April 15, 1984): Logged EDRs to high-density tape; scanned output tapes to verify physical characteristics; recorded each image into logging records; made VICAR label entries in LSF; unexpected PWS data files on imaging EDRs needed special handling and slowed processing.

At completion of primary processing, about 300 images were either missing or unreadable and had to be retrieved by other means (June 18, 1984 - continuing): Wrote to USGS, Flagstaff, to get their copies, however they had only 2 images that we needed; wrote to Dr. Garry Hunt, London, to get their copies, however they had no one to do the work and it appeared that their data was in the wrong format; wrote to Univ. of Wisconsin, but got no response; put needed Voyager EDRs on the list of images to regenerate; as soon as they are regenerated, they will be logged as the rest of EDRs were (see procedure above).

b. Viking Orbiter

Primary processing of the 49,649 Viking Orbiter images took about 5-1/2 months (August 1, 1983 - January 18, 1984): Logged EDRs to high-density tape; scanned output tapes to verify physical format; recorded every image into logging records; made VICAR label entries in LSF.

At completion of primary processing, 562 images were found to contain errors or were completely missing and had to be retrieved by other means (April 1 - September 30, 1984): Requested 354 EDR tapes from USGS, Flagstaff; logged each image to high-density tape (see procedure above); about 208 images were not on the tapes received from Flagstaff; MTIS facility became operational in September 1984, however attempts to regenerate degraded images were unsuccessful. Decided to process only images that were completely missing, resulting in the regeneration of 132 images that took 2 months of processing on the MTIS computer. Fifty of these images were logged to archive tape format prior to the shutdown of the IBM computer. The remaining 82 images are stored in EDR format on VOR tapes.

c. Viking Lander

Unlike other image data sets, VL EDRs were not relogged, and the engineering telemetry parameters which were associated with the imaging records are not embedded in the archive tape format.

Primary processing of all 4731 Viking Lander images took approximately 1 month (January 23 - February 26, 1984): Computed size of each image for each job run to find out how many images would fit on each archive tape. This computation was necessary because each image was a different size. Copied each EDR image directly to high-density tape. During the write operation, the appropriate VICAR label entry was made into the LSF on disk; scanned output tapes to verify physical characteristics. Blank lines at the end of some images were discovered that resulted from a bug in the original EDR production software; recorded all images written to high-density tape into logging record books.

At completion of primary processing, 62 images (118 files) had to be rewritten due to an error in VICAR label parameters. No Viking Lander images had to be regenerated or obtained from another source.

d. Mariner 10

Primary processing of 12,817 Mariner 10 images took approximately 3 months (August 22 - November 20, 1983): Logged EDRs to disk; checked and verified all images logged to disk; recorded every single image into logging records; wrote disk version out to high-density tape, and at the same time wrote each VICAR label into separate history file on disk. A large number (7000) of small format images (IM-3 format) were encountered that had never been documented in project image catalogs and, therefore, required special handling.

At completion of primary processing, 136 images were unreadable or missing and had to be retrieved from other means (October 31 - November 13, 1983 and May 28 - June 11, 1984): Recalled MDR tapes that were used to create EDRs from storage; copied MDRs so as to not further degrade the data in processing; processed them in the same manner as the Mariner 10 EDR images were processed (see entire procedure above); only 80 of the 136 images were recovered; wrote to the University of Wisconsin for remaining images not recovered from MDRs; six months later, received only a portion of what we still needed and some that we already had, all in 9/1600 bpi; processed them in the same manner as the Mariner 10 EDR images were processed (see above), after copying them to 7-track 556 bpi (as required by the logging program).

e. Mariner 9

Primary processing of all 7767 images took approximately 2 months (May 25 - July 31, 1983): Logged EDRs to disk, checked and verified all images logged to disk, recorded every single image into logging records; wrote disk version out to high-density tape, and at the same time wrote each VICAR label into separate history file on disk; scanned all output tapes to verify physical characteristics; recorded all images written to high-density tape into logging record books.

At completion of primary processing, 62 images were unreadable and had to be retrieved from other means (September 5-11, 1983): Recalled MDR tapes that were used to create EDRs from storage; copied MDRs so as to not further degrade the data in processing; processed them in the same manner as the Mariner 9 EDR images were processed.

3. PROCESSING SOFTWARE

a. Logging Programs

These programs produce a VICAR format image from EDR format tape. Each mission required a separate program:

Voyager	VGRLOG
Viking Orbiter	VOLOG
Mariner 10	LOGMAR10
Mariner 9	LOGMAR9

These programs are documented in VICAR software user guides. VGRLOG and VOLOG have been converted for use on the MIPL VAX computers; however, they were not modified to output the special archive tape formats. Viking Lander EDRs were not relogged from the telemetry data tapes, and much of the engineering telemetry data associated is only available by processing the MDR tapes.

b. Library Support File

Mariner 9 and 10 logging programs automatically made entry in the Library Support File. Program CCOPY was used to write VICAR label to LSF for Voyager, Viking Orbiter, and Viking Lander.

c. VSFEDR Tape Verification

Program VCOPY lists VICAR labels on VSFEDR. Program TAPE2 scans a VSFEDR tape to verify:

(1) Number of files.

(2) Number of records/file.

(3) Number of bytes/record.

d. Library Support File Maintenance

A MARK IV program, SDLRUN, copies the LSF from disk to tape. Program TAPE2 creates backup of the tape and is used to scan the LSF tape and backup tape. A VICAR program, VLSFLOG, empties/initializes the disk data set in order to be ready for more input.

APPENDIX D

UNRECOVERED DATA

This appendix documents images which were not recovered during the conversion task. Attempted recovery efforts are described in Appendix C, Conversion Processing Notes. It is possible that some of the images identified in this appendix do not constitute valid imaging data, and that tapes identified in some listings may never have been written; however, the identifiers are included for completeness.

Users of archive tapes should first process the highest numbered archive tape available with the desired image on it, and, if errors are encountered, consult this listing to verify that the error was identified during the conversion effort.

Voyager images will continue to be recovered as part of the ongoing Planetary Data System recovery effort. Documentation of this work will be available through a central PDS on-line catalog.

1. VOYAGER SUSPECT OR UNRECOVERED DATA

Table D-1 identifies Voyager images and EDR tapes which were not located or successfully processed during the recovery effort. Attempts to retrieve these images from other facilities are ongoing.

2. VIKING ORBITER TAPE ERRORS AND UNRECOVERED DATA

Table D-2 identifies processing errors associated with Viking Orbiter images. Many of these images were successfully recovered from duplicate EDR tapes processed during the recovery task. This table is included for reference regarding types of errors encountered, and users should first check the archive tape catalog to determine if an image shown in this list was later successfully recovered. Errors are identified as follows for each image:

Physical errors (associated with tape I/O problems):

DC - Data check. Usually indicates physical error on EDR.

EC - Equipment check. Hardware problem with tape drive, usually recoverable by reprocessing tape.

RE - Read error. Physical error on tape.

Errors in initial production of EDR:

ML - Missing lines(s). Expected line number not found on EDR.

BR - Bad record. Unidentified record in input data.

LOS - Line out of sequence. Other than expected line number encountered on input tape.

MEOF - Missing end-of-file between image files. Caused by controller hardware problems at MTIS.

LO - Line overwritten. Duplicate line number encountered within a file.

RR - Rejected record.

MP - Missing picture identifier (picno).

3. MARINER 9 UNRECOVERED DATA

The following list identifies Mariner 9 images which could not be recovered from any source.

Picno	Das Time	
062A12	3822465	
062A15	3822675	
192B19	8478864	
214A13	9268884	
214A14	9268954	
245A??	10386679	
??????	10563334	(Possibly on MME028/178)

4. MARINER 10 UNRECOVERED DATA

The following list identifies Mariner 10 images which could not be recovered from data sets available to the conversion effort at JPL. It is possible that duplicated data sets at other institutions may be available to allow future recovery of these images, or that processed versions of these images are available.

Day	FDS Count	Day	FDS Count
307	1927-29	039	62530
036	57770-72	039	62538
036	57806-07	039	62737
037	58995	039	62979
037	59004	039	64267
037	59117-21	040	65041-45(2)
037	59128-31	040	65787-97(2)
037	59514	041	66956,65
038	61028-36(2)	043	72253,57
038	61178,80	075	527868-84
038	61478-84(2)	075	527935-37
038	61628	075	527964-89
038	62378	075	528929-54

Day	FDS Count	Day	FDS Count
075	528970-80	089	1114
076	529103-10	091	5122
076	529870-80	091	6034,36
082	15128-36	261	160441,43
087	25576-79	261	160489
088	26624-25	261	160566-69
088	26845-48	262	162667-69
089	332	264	166475-76,78
089	615-16	264	166843-46
089	734-37	264	166884-90
		265	168831-38

Mariner 10 EDR tapes which could not be located or processed are listed below. It is not certain that all of these tapes were in fact ever produced.

ETVS152, 153, 154, 165, 198, 216, 251, 260, 283, 285, 286, 288
ETVS307, 333, 334, 335, 336, 337, 338, 339, 348, 349, 368, 373
ETVS399, 425, 433, 455, 487, 504

Table D-3 identifies images processed by the conversion task that did not correspond to existing catalogs in terms of date of acquisition versus FDS count. It is possible that good images which are improperly identified are contained on these archive tapes.

Table D-1

VOYAGER SUSPECT DATA

FDSCOUNT	TAPE/FILE	FDSCOUNT	TAPE/FILE	FDSCOUNT	TAPE/FILE
14767.43	MAMETV100100/16	33139.48	MAMETV110720/06	44208.40	MBMETV215280/01
14770.10	MAMETV100100/19	33185.37	MAMETV110820/01		
14770.16	MAMETV100100/22	33893.55	MAMETV111550/01		
14772.41	MAMETV100100/24	34081.25	MAMETV111740/02		
14926.29	MAMETV100210/05	34212.31	MAMETV111870/01		
14971.09	MAMETV100240/06	34387.54	MAMETV112050/05		
15417.52	MAMETV101000/06	34392.36	MAMETV112070/04		
15426.54	MAMETV101120/04	34481.50	MAMETV112310/03		
15426.56	MAMETV101120/05	34636.15	MAMETV112750/01		
15426.58	MAMETV101120/06	Unknown	MAMETV113200/01		
15470.06	MAMETV101650/05	34837.18	MAMETV113500/02		
15712.28	MAMETV102500/10	34970.44	MAMETV113870/06		
15809.08	MAMETV102750/24	35114.59	MAMETV114270/01		
15873.39	MAMETV102900/24	35301.20	MAMETV114740/04		
15978.06	MAMETV103160/01	35333.57	MAMETV114750/03		
15995.10	MAMETV103190/10	34906.08	MAMETV115050/23		
16199.55	MAMETV104050/01	35709.42	MAMETV117110/16		
16246.11	MAMETV104460/01	35709.46	MAMETV117110/17		
16306.41	MAMETV104830/05	35709.49	MAMETV117110/18		
16324.47	MAMETV105010/01	35709.53	MAMETV117110/19		
16369.42	MAMETV105370/06	35709.56	MAMETV117110/20		
16370.09	MAMETV105380/02	35710.00	MAMETV117110/21		
16526.11	MAMETV106180/03	35710.03	MAMETV117110/22		
16389.38	MAMETV107520/01	35710.07	MAMETV117110/23		
16389.40	MAMETV107520/02	35710.10	MAMETV117110/24		
16426.08	MAMETV107770/01	35779.53	MAMETV117440/01		
16138.27	MAMETV108170/15	41676.43	MBMETV210300/06		
15433.02	MAMETV108450/02	41700.40	MBMETV210320/07		
15433.24	MAMETV108450/03	41766.53	MBMETV210380/19		
19378.53	MBMETV200650/06	42159.05	MBMETV210700/23		
19440.46	MBMETV201070/03	42159.17	MBMETV210710/01		
19753.42	MBMETV201430/17	42951.28	MBMETV211420/09		
19755.51	MBMETV201430/19	42951.30	MBMETV211420/10		
19909.52	MBMETV201760/24	43036.18	MBMETV211510/01		
19912.27	MBMETV201770/19	43067.58	MBMETV211540/05		
Unknown	MBMETV202280/01	43205.41	MBMETV211670/01		
20175.19	MBMETV202420/06	43603.50	MBMETV212830/12		
20383.25	MBMETV203330/01	43976.30	MBMETV213940/08		
20493.00	MBMETV203940/24	43626.38	MBMETV214270/01		
20629.08	MBMETV204920/04	43645.22	MBMETV214380/07		
20629.42	MBMETV204930/06	43664.00	MBMETV214500/05		
20074.28	MBMETV205360/09	43695.28	MBMETV214530/05		
20668.57	MBMETV205520/01	43785.37	MBMETV214560/01		
20530.01	MBMETV205780/05	43910.13	MBMETV214720/09		
20631.05	MBMETV205810/06	43910.16	MBMETV214720/10		
20631.08	MBMETV205810/08	43999.19	MBMETV214790/22		
20479.28	MBMETV205970/05	44179.43	MBMETV215170/13		
18411.43	MBMETV206110/01	44186.23	MBMETV215200/08		
19453.10	MBMETV206270/02	44186.53	MBMETV215200/13		
32926.21	MAMETV110370/02	44207.48	MBMETV215270/10		

Table D-2

VIKING ORBITER SUSPECT IMAGES

ORIGINAL PAGE IS OF POOR QUALITY

PICNO	PROBLEM	PICNO	PROBLEM	PICNO	PROBLEM	PICNO	PROBLEM	PICNO	PROBLEM
293C06	ML	010A62	DC and BR	061A25	MP	203A12	ML	363A61	ML
CG0006/1	MP	010A36	ML	059A24	DC and RE	203A38	LO and ML	363A65	ML
CG0012/?	MP	010A67	ML	062A33	DC	204A13	LO and ML	363A85	ML
CG0010/3	ML	012A36	DC	062A34	DC	205A19	LO and ML	369A27	ML
CG0016/*	DC	013A01	DC	063A51	ML	206A15	LO and ML	369A28	ML
CG0017/*	BT	013A02	DC	063A57	LO	207A18	LO and ML	369A30	ML
CG0033/1	DC	013A03	DC	064A50	DC	208A26	LO and ML	369A44	DC
CG0038/3	DC	012A67	DC and RE	065A01	BR and ML	210A22	LO and ML	376A27	ML
CG0061/1	MP	013A44	ML and BR	065A09	DC and ML	210A35	LO and ML	376A28	ML
CG0054/1	DC	014A29	ML	066A12	DC	210A36	LO and ML	393A25	BR and MEOF
CG0063/8	ML	014A36	DC	066A24	DC	210A38	LO and ML	396A40	DC and LO
CG0065/6	ML	014A57	ML	071A28	DC	210A35	LO and ML	401A27	LOS and LO
CG0065/10	ML	020A09	DC	074A27	DC and ML	210A37	LO	401A28	LO and ML
CG0065/11	ML	020A10	DC	079A50	DC and ML	210A12	ML	401A30	ML
CG0073/4	ML	020A82	RR and ML	079A91	LO and DC	210A52	LO and ML	401A32	ML
CG0073/5	ML	022A90	DC and ML	091A01	MP	210A70	LO and ML	409A30	ML
CG0075/1	ML	027A68	DC and RE	083A52	DC	212A02	LO and ML	406A39	MP
CG0087/1	LO	027A70	DC and RE	084A26	DC	216A15	LO and ML	411A27	ML
CG0102/1	ML	027A71	DC and RE	084A36	MP	224A89	LO and ML	411A32	ML
CG0104/2	ML	027A13	DC and RE and ML	085A13	DC	224A57	LOS and ML	414A20	ML and LO
CG0106/1	ML	027A17	DC and RE	085A46	DC	229A44	ML	416A94	ML and LO
CG0107/1	ML	027A07	ML	086A14	DC	229A45	ML	416A81	DC and ML
CG0077	BT	027A35	ML	086A13	DC	229A48	LOS and ML	416A82	DC and ML
CG0078	BT	032A48	ML	087A42	DC and ML	235A03	OL and ML	417A05	ML
CG0079	BT	034A16	DC and ML	087A52	DC	244A51	RR and MLe	419A36	ML
CG0080/1	ML	034A99	DC and ML	088A02	DC	244A52	RR and MLe	421A24	ML
CG0081/1	ML	034A17	DC and ML	088A12	DC	244A54	ML	421A57	ML
CG0075/1	MP	034A45	DC	088A13	DC	246A02	OL and ML	422A35	ML
CG1069/3	DC	034A46	DC	094A02	ML	252A60	OL and ML	422A06	ML
CG1006/1	ML	040A19	DC and ML	097A15	MP	252A66	BR and LOS	423A03	ML
CG1007/1	ML	040A25	BR and ML	094A41	ML	255A31	ML	423A04	ML
CG1008/1	ML	041A69	MP	101A26	MP	257A56	ML	423A05	ML
CG1010/1	ML	041A90	MP	095A05	DC	272A06	ML	423A06	ML
CG1014/1	BR	044A11	MP	?	MP and BR	272A11	ML	423A07	ML
CG1015/1	DC and ML	044A18	DC	105A42	LO	289A05	LO	428A17	ML
CG1017/1	BR	046A41	DC	105A43	LO and ML	289A28	ML	428A56	ML
003A33	ML	046A17	DC	103A23	DC	307A01	ML	428A60	ML
003A41	DC	046A12	DC	103A43	DC	307A41	ML	431A43	LOS
004A83	DC	048A11	DC	126A02	LO	307A76	ML	431A44	LOS
004A86	DC	050A25	DC	126A26	LO and ML	307A77	ML	430A40	EC
004A20	DC	051A61	MP	135A20	ML	329A61	ML	431A22	ML
004A16	DC	052A31	MP	136A03	ML	329A02	ML	432A13	ML and BR
004A56	ML	053A45	MP	118A35	DC	330A32	LO	432A14	ML and BR
004A71	ML	055A05	DC	118A45	DC	330A34	LO	432A16	DC
006A82	DC	055A09	ML and BR	175A15	ML	332A18	LO and ML	433A03	DC
006A45	DC	055A44	ML and BR	175A21	ML	336A03	ML	432A33	LOS and ML
006A52	DC	056A01	MP	175A33	ML	352A12	ML	439A55	LOS and ML
006A54	DC	?	LO and BR	175A46	ML	352A19	ML	439A58	LOS and ML
008A39	DC	060A06	MP	177A12	ML	357A69	ML and LO	439A66	ML
008A55	ML	060A08	MP	184A02	ML	360A27	ML	441A29	DC

VIKING ORBITER UNRECOVERED DATA

PIONO	PROBLEM	PIONO	PROBLEM	PIONO	PROBLEM	PIONO	PROBLEM	PIONO	PROBLEM
444A01	ML	615A21	DC	926A02	ML	460S25	LOS and ML	048B47	DC
453A13	DC	618A43	DC	926A11	ML	465S04	DC	066B78	ML
457A18	ML	620A12	DC	927A04	ML	445S19	LOS	069B02	ML
457A22	ML	632A29	DC	927A07	ML	472S16	BR and ML	070B42	?
457A40	ML	632A53	DC	929A04	ML	473S03	DC	050B44	DC
458A03	ML	637A59	DC	960A31	ML	473S15	DC	052B01	DC
458A06	ML	639A97	DC	963A08	ML	455S16	LOS and ML	070B02	LOS
458A09	ML	651A39	DC	973A10	ML	217009	LOS and ML	072B04	LOS
463A03	ML	651A60	DC and ML	974A07	ML	218001	LOS	056B85	DC
463A02	DC	651A77	DC and ML	124S04	ML	218008	LOS	056B64	DC
463A56	LOS and EC	651A78	DC and ML	126S12	ML	218072	LOS	057B21	DC
464A17	ML	659A25	ML	131S03	ML	219034	DC	058B29	BR
464A24	ML	663A76	LOS	140S16	ML	219057	DC	058B52	BR
467A44	DC	669A04	DC	141S07	ML	004893	BR and ML	058B61	LOS
467A52	ML	671A27	DC and ML	141S08	ML	008B30	BR and ML	059B08	LOS and ML
467A15	DC	675A15	DC	744A89	ML	007B89	BR and ML	059B16	LOS and ML
474A46	ML	675A93	DC	892A36	ML	009B29	BR and ML	059B34	LOS and ML
474A47	ML	679A18	DC	145S01	MP	009B46	BR and ML	059B71	LOS and ML
474A26	ML	681A69	DC	979A04	ML	010B25	BR and ML	060B45	LOS
486A40	ML	684A03	LOS	154S12	DC	010B47	LOS	060B21	LOS
486A44	ML	684A70	ML	159S01	ML	010B48	LOS	060B01	LOS and ML
486A45	ML	687A15	DC and ML	170S06	LOS and ML	010B55	DC	060B09	LOS and ML
486A50	ML	687A79	LOS and ML	186S11	DC	010B66	LOS	061B08	LOS and ML
491A21	ML	690A32	ML	193S24	LOS and ML	010B81	LOS	061B57	DC
491A22	ML	696A34	ML	203S27	LOS and ML	010B87	LOS	062B15	DC
500A21	DC	700A18	ML	252S19	DC	010B95	LOS	073B43	DC
500A30	DC	701A15	DC	253S20	EC	020B27	DC	075B57	LOS
506A48	ML	3126/1	BR***	256S21	DC	020B12	DC	075B33	MP
516A05	ML	713A02	DC	272S27	BR and ML	021B42	DC and ML	076B61	LO and ML
524A36	ML	714A57	DC	201S01	MP	022B17	LOS and DC	076B42	LO and ML
524A63	ML	733A01	DC	323S33	DC	021B59	BR and ML	078B47	BR
529A01	ML	734A01	DC	330S08	DC and ML	034B02	DC	081B44	LOS
532A15	ML	742A59	ML	347S52	MP	034B22	LOS	082B03	LOS
532A36	ML	744A71	ML	347S72	MP	034B44	BR	083B32	LO and ML
535A29	LOS	753A53	DC	349S48	ML and EC	034B11	BR	084B02	LO and ML
535A85	ML	780A36	DC	352S04	ML	?	DC	084B40	LOS
565A22	DC and ML	793A02	DC	353S01	BRs and ML	035B44	LOS	120B47	LO and ML
565A37	DC	811A41	LOS and ML	375S62	DC	035B48	LOS	120B76	LOS
569A35	DC	814A28	ML	377S85	ML and DC	039B74	MP's	119B04	LO and ML
572A27	ML	846A31	ML	400S07	MP	038B59	BR and ML	125B03	LOS
573A30	LOS and ML	851A08	ML	404S34	ML	039B16	BR and ML	126B47	DC
574A23	DC	907A62	DC	417S42	ML and DC	039B20	BR and ML	127B45	LOS
574A36	ML	907A12	ML	421S18	ML	040B12	BR and ML	127B55	LOS
574A41	DC	907A52	ML	426S22	LO	040B44	LO	131B12	LO and ML
580A24	DC	907A56	DC and ML	428S36	BR and ML	041B22	LO and ML	131B52	LO and ML
595A17	DC	908A51	DC	430S12	ML	041B42	LO and ML	131B92	DC
599A45	DC	910A03	DC	437S25	?	042B20	LO	137B24	LOS
605A31	DC	913A68	ML	444S03	DC	043B14	LOS	138B48	LO and ML
608A35	DC	913A11	LO	447S28	DC	049B10	LOS	138B13	DC
612A10	DC and ML	922A60	ML	455S21	MP and ML	062B41	MP and ML	138B20	BR

ORIGINAL PAGE IS
OF POOR QUALITY

VIKING ORBITER UNRECOVERED DATA

PICNO	PROBLEM	PICNO	PROBLEM	PICNO	PROBLEM
141B38	LO and ML	370B60	BR	452B03	DC
139B45	LO and ML	371B03	LO	466B64	ML
143B09	LO and ML	371B08	LOS	466B95	DC
143B30	LO and ML	374B24	LOS	472B84	LOS
146B02	LO and ML	375B08	LO	479B87	DC
146B32	LO and ML	378B03	LOS	482B21	DC and ML
149B12	LOS	378B18	LOS	491B44	DC
157B06	DC	378B58	LO	510B14	ML
157B22	LO and ML	380B01	LOS	514B57	DC
159B06	DC and ML	380B31	LOS	518B28	ML
163B36	LO and ML	383B41	LOS	519B03	BR
165B23	DC	385B71	LOS	521B69	DC
168B80	DC	Missin	LOS	527B03	DC
174B02	LOS and ML	386B18	LOS	527B69	ML
178B01	LOS	386B32	EC	549B21	ML
182B22	LO and ML	388B16	LOS	551B54	DC
191B02	LOS	390B41	LOS	560B85	DC
225B71	LOS	390B44	LOS	567B24	DC
225B64	LOS	390B67	LOS	567B41	DC
242B01	LOS	391B07	LOS	567B55	DC
246B24	DC	392B02	LOS	572B01	LOS
251B26	LOS	77B83	LO	575B74	EC
254B90	DC	403B32	LOS	576B14	EC
262B72	LOS	403B35	LOS	580B02	DC
275B20	DC	402B63	LOS	580B27	DC
279B44	LOS	403B32	LOS	584B89	DC
283B25	LOS	402B01	LOS	669B65	DC
287B24	LOS	402B33	LOS	395B03	DC
287B73	LOS	406B15	LOS	544Z32	ML
297B16	LOS	406B27	?	401B15	ML
297B29	LOS	409B14	BR	437B15	ML
300B72	DC	410B04	LOS	551Z05	?
302B24	LOS	410B07	LO	437B19	BH
304B58	LOS	410B27	LOS	439B11	EC
306B04	LOS	410B35	LOS	439B72	ML
313B19	LOS	411B86	LOS	439B73	ML
319B60	LOS	411B15	LOS and ML	439B74	ML
325B50	EC	415B18	LO		
327B08	DC	416B09	DC		
332B41	LOS	419B07	DC		
342B29	LOS	421B03	LO and BR		
342B15	DC	423B73	MP and LOS		
348B02	LOS	428B71	MP		
350B17	LOS	428B80	DC		
350B25	LOS	428B87	DC		
356B46	LOS	442B01	MP		
359B09	BR	445B01	EC		
359B23	LOS	451B38	LO		
363B16	LOS	458B46	MP		
366B25	BR	459B23	LOS		

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Table D-3

MARINER VENUS/MERCURY SUSPECT DATA

FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID
04205-05	002	13/116-116	64567-67	040	08/084-084	48574-75	088	31/178-179						
04205-05	002	13/176-126	64569-69	040	08/085-085	48574-75	088	42/083-084						
05122-22	002	13/148-148	64571-71	040	08/086-086	51311-12	088	11/210-211						
05379-79	002	13/226-226	64573-73	040	08/087-087	59012-12	088	11/021-021						
23256-56	002	50/169-169	64575-75	040	08/088-088	77924-24	088	40/205-205						
26364-64	002	11/082-082	67423-23	040	09/210-210	98357-57	088	40/163-163						
26484-84	002	11/120-120	213692-92	040	09/146-146	00042-59	089	44/165-182						
19142-42	004	17/009-009	213692-92	040	29/220-220	00043-47	089	52/143-147						
23256-56	004	50/170-170	328537-37	040	09/204-204									
26138-38	004	11/041-041	66073-73	041	48/216-216									
56278-78	020	05/078-078	66090-90	041	49/004-004									
154580-80	020	05/076-076	199162-62	041	48/185-185									
01013-21	023	05/102-110	04688-88	042	12/167-167									
27271-71	023	05/147-147	71187-87	042	12/106-106									
27271-71	024	05/179-179	72225-25	042	12/120-120									
27271-71	024	39/096-096	86602-02	042	12/161-161									
30676-76	024	05/173-173	102994-94	042	12/170-170									
30688-88	024	39/093-093	201256-56	042	12/127-127									
31081-82	024	39/094-095	68173-73	043	14/202-202									
41586-86	036	22/049-049	68173-73	043	21/153-153									
58788-88	036	51/016-016	68173-73	043	21/202-202									
58968-68	036	01/102-102	70207-07	043	14/188-188									
61991-91	036	01/053-053	73241-41	043	14/149-149									
582572-72	036	22/004-004	73260-60	043	14/168-168									
57805-14	037	35/193-202	73260-60	043	21/132-132									
57809-15	037	46/149-156	73260-60	043	21/181-181									
57812-19	037	22/007-014	80508-08	043	14/186-186									
57814-15	037	21/177-178	80508-08	043	57/010-010									
57816-24	037	52/153-161	104981-81	043	14/145-145									
57825-40	037	35/177-192	333395-95	043	26/197-197									
60663-63	037	37/086-086	596547-47	043	14/214-214									
124124-24	037	37/058-058	596547-47	043	21/164-164									
189812-12	037	37/195-195	596547-47	043	21/213-213									
190928-28	037	02/145-145	596567-67	043	21/175-175									
00338-41	038	39/059-062	596567-67	043	21/221-221									
57805-05	038	39/063-063	41635-35	082	16/060-060									
57808-39	038	50/023-054	23490-90	084	17/042-042									
57840-40	038	05/188-188	53193-93	084	17/045-045									
57840-40	038	06/009-009	224086-86	084	17/059-059									
122948-48	038	18/110-110	789444-44	084	17/057-057									
62410-10	039	06/106-106	19428-28	086	18/173-173									
64577-99	039	20/077-099	19434-34	086	18/180-180									
57840-40	040	09/023-023	61640-40	086	18/167-167									
57840-40	040	29/190-190	531176-76	086	18/178-178									
63601-01	040	09/017-017	25691-99	087	17/150-158									
63601-01	040	10/195-195	25700-15	087	17/159-174									
63603-03	040	08/095-095	26617-17	087	17/142-142									
63603-03	040	10/127-127	00363-63	088	40/213-213									
63603-03	040	51/059-059	03456-56	088	40/225-225									
64565-65	040	08/083-083	48571-71	088	42/082-082									

APPENDIX E

ARCHIVE TAPE INDEXES

This appendix presents a set of reports correlating picture identifier with archive (VSFEDR) tape and file number for all missions. The Mariner 9 and Viking Lander indexes contain one line for each image, whereas all other mission listings have been compressed, so that sequences of regularly incrementing picture identifiers and archive tape/file numbers are represented on one line. Picture identifiers and their sequencing are described below for each mission as well as any peculiarities in the sequencing of images and tape ids for that mission.

TABLE E-1

VOYAGER ARCHIVE INDEX

The Voyager FDS count is used to identify images. Images for both Voyager spacecraft and both planetary encounters are ordered by FDS count. The listing gives the first and last FDS counts for a sequence in the format xxxxx.yy-zz, where xxxxx is the Mod 60 counter (which increments every 48 minutes), and yy and zz are the starting and ending Mod 16 counts (which increments every 48 seconds) for the first and last image in the interval. The tape id and file numbers for the images are represented as ttt/uu-vv, where ttt is the reel number of the VGE tape (VGEttt), and uu and vv are the beginning and ending file locations of the images.

Voyager images are not necessarily taken in sequences of monotonically incrementing FDS counts. Sequences where the FDS count increments by 2, 4, 6, and 8 counts between images are common. These sequences are condensed as shown below:

14651.04-10 223/040-043

This entry indicates that image 14651.04 is on tape VGE223, file 040, image 14651.06 is on VGE223/041, 14651.08 is on VGE223/042, and 14651.10 is on VGE223/043. The FDS count increment for a group of images is computed as last count minus first count divided by last file minus first file (in the example 10 - 4 / 43 - 40 = 2. This grouping was required to reduce the size of the listing to manageable proportions (from 240 pages to 80 pages).

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FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID
04097.08-11	117/097-098	14698.13-19	223/115-118	14807.23-29	225/008-011	14933.56-58	226/042-043	15038.08-14	227/068-071
04097.15-18	117/099-100	14700.42-48	223/119-122	14809.52-58	225/012-015	14934.00-02	226/044-045	15040.37-43	227/072-075
05829.40-44	124/030-031	14703.11-17	223/123-126	14812.21-27	225/016-019	14936.25-31	226/046-049	15040.43-43	343/025-025
07633.56-57	111/107-108	14705.40-46	223/127-130	14814.50-56	225/020-023	14938.54-58	226/050-052	15043.06-06	343/026-026
07969.28-31	127/079-080	14708.09-15	223/131-134	14817.19-25	225/024-027	14939.00-00	226/053-053	15043.06-12	227/076-079
12350.40-40	303/035-035	14710.28-28	223/135-135	14819.48-54	225/028-031	14941.23-29	226/054-057	15043.06-12	343/027-030
12350.48-50	303/036-037	14710.38-44	223/136-139	14822.17-23	225/032-035	14943.54-58	226/058-060	15045.35-41	227/080-083
12350.57-57	303/038-038	14713.07-13	223/140-143	14824.46-52	225/036-039	14946.21-27	226/061-064	15048.04-10	227/084-087
12440.01-03	147/076-077	14715.34-36	223/144-144	14827.15-21	225/040-043	14948.50-56	226/065-068	15050.33-39	227/088-091
13054.47-47	156/112-112	14715.36-40	224/001-003	14829.44-50	225/044-047	14951.19-25	226/069-072	15053.02-08	227/092-095
13054.47-47	156/511-511	14718.03-09	224/004-007	14832.13-19	225/048-051	14953.46-52	226/073-076	15053.02-08	343/031-034
13054.47-49	156/113-114	14720.32-38	224/008-011	14834.40-46	225/052-055	14956.15-21	226/077-080	15055.31-33	343/035-036
13054.49-49	156/115-115	14723.01-07	224/012-015	14837.09-15	225/056-059	14958.44-50	226/081-084	15055.31-37	227/096-099
13054.49-51	156/116-117	14725.30-36	224/016-019	14839.38-44	225/060-063	14961.13-19	226/085-088	15058.00-06	227/100-103
13054.51-51	156/118-118	14727.59-59	224/020-020	14842.07-13	225/064-067	14963.35-35	226/089-089	15060.29-35	227/104-107
13054.51-51	156/119-119	14728.01-05	224/021-023	14844.36-42	225/068-071	14963.42-48	226/090-093	15062.58-58	227/108-108
13109.67-67	159/095-095	14730.28-34	224/024-027	14847.05-11	225/072-075	14966.11-17	226/094-097	15063.00-04	227/109-111
13352.05-11	164/117-118	14732.57-59	224/028-029	14849.34-40	225/076-079	14968.40-46	226/098-101	15065.27-33	230/001-002
13352.16-16	164/119-119	14733.01-03	224/030-031	14852.03-09	225/080-083	14971.09-15	226/102-105	15067.56-56	230/003-003
14604.13-13	223/001-001	14735.26-32	224/032-035	14854.32-38	225/084-087	14973.38-44	226/106-109	15072.52-58	230/004-007
14614.30-30	223/002-002	14737.55-59	224/036-038	14857.01-07	225/088-091	14976.07-13	226/110-113	15075.21-27	230/008-011
14623.21-57	223/003-021	14738.01-01	224/039-039	14859.30-36	225/092-095	14978.36-42	226/114-117	15077.50-56	230/012-015
14624.16-16	223/022-022	14740.24-30	224/040-043	14861.59-59	225/096-096	14981.05-11	226/118-121	15080.19-25	230/016-019
14641.08-14	223/023-026	14742.53-59	224/044-047	14862.01-05	225/097-099	14983.34-40	226/122-125	15082.48-54	230/020-023
14643.30-30	223/027-027	14745.15-15	224/048-048	14864.28-34	225/100-103	14986.03-09	226/126-129	15085.17-23	230/024-027
14643.37-43	223/028-031	14745.22-28	224/049-052	14866.57-59	225/104-105	14988.32-38	226/130-133	15087.46-52	230/028-031
14646.06-12	223/032-035	14747.51-57	224/053-056	14867.01-03	225/106-107	14991.01-07	226/134-137	15090.15-21	230/032-035
14648.35-41	223/036-039	14750.20-26	224/057-060	14869.26-32	225/108-111	14993.28-34	226/138-141	15092.44-50	230/036-039
14651.04-10	223/040-043	14752.42-42	224/061-061	14871.55-59	225/112-114	14995.57-59	226/142-143	15095.13-19	230/040-043
14653.33-39	223/044-047	14752.49-55	224/062-065	14872.01-01	225/115-115	14996.01-03	226/144-144	15097.42-48	230/044-047
14656.02-08	223/048-051	14755.16-22	224/066-069	14874.22-28	225/116-119	14996.03-03	227/001-001	15100.11-17	230/048-051
14658.31-37	223/052-055	14757.45-51	224/070-073	14876.51-57	225/120-123	14998.26-32	227/002-005	15102.40-46	230/052-055
14661.00-06	223/056-059	14760.14-20	224/074-077	14894.14-20	225/124-127	15000.55-59	227/006-008	15105.09-15	230/056-059
14663.29-35	223/060-063	14762.43-49	224/078-081	14896.43-49	225/128-131	15001.01-01	227/009-009	15107.38-44	230/060-063
14665.58-58	223/064-064	14765.05-05	224/082-082	14899.12-18	225/132-135	15003.24-30	227/010-013	15110.07-13	230/064-067
14666.00-04	223/065-067	14765.12-18	224/083-086	14901.41-47	225/136-139	15005.53-59	227/014-017	15112.34-40	230/068-071
14668.27-33	223/068-071	14767.41-47	224/087-090	14904.10-16	225/140-143	15008.22-28	227/018-021	15115.03-09	230/072-075
14670.56-58	223/072-073	14770.10-16	224/091-094	14906.39-45	225/144-147	15010.51-57	227/022-025	15117.32-38	230/076-079
14671.00-02	223/074-075	14772.39-45	224/095-098	14909.08-14	226/001-004	15013.20-26	227/026-029	15117.36-36	343/037-037
14673.25-31	223/076-079	14775.08-14	224/099-102	14911.37-43	226/005-008	15013.37-37	227/030-030	15120.01-07	230/080-083
14675.52-58	223/080-083	14777.37-43	224/103-106	14914.04-10	226/009-012	15013.49-55	227/031-034	15122.30-36	230/084-087
14678.21-27	223/084-087	14780.06-12	224/107-110	14916.33-39	226/013-016	15018.18-24	227/035-038	15124.59-59	230/088-088
14680.50-56	223/088-091	14782.35-41	224/111-114	14919.02-08	226/017-020	15020.47-53	227/039-042	15125.01-05	230/089-091
14683.19-25	223/092-095	14784.56-56	224/115-115	14921.31-37	226/021-024	15023.09-09	227/043-043	15127.28-34	230/092-095
14685.48-52	223/096-097	14785.04-10	224/116-119	14924.00-06	226/025-028	15023.16-20	227/044-046	15129.57-59	230/096-097
14685.54-54	223/098-098	14787.33-39	224/120-123	14926.29-35	226/029-032	15025.45-51	227/048-051	15139.55-57	230/098-099
14688.17-23	223/099-102	14790.02-04	224/124-125	14928.58-58	226/033-033	15028.14-20	227/052-055	15147.20-26	230/100-103
14690.46-52	223/103-106	14802.27-31	225/001-003	14929.00-04	226/034-036	15030.43-49	227/056-059	15149.49-55	230/104-107
14693.15-21	223/107-110	14804.54-58	225/004-006	14931.27-33	226/037-040	15033.10-16	227/060-063	15152.16-22	230/108-111
14695.44-50	223/111-114	14805.00-00	225/007-007	14933.49-49	226/041-041	15035.39-45	227/064-067	15154.45-51	230/112-115

FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID
15157.14-20	Z30/116-119	15259.01-05	Z31/137-139	15377.28-36	Z32/121-125	15404.18-58	Z36/001-021	15433.00-58	241/091-120
15159.43-49	Z30/120-123	15261.28-34	Z31/140-143	15377.36-36	Z32/098-098	15405.00-58	Z36/022-051	15433.24-24	343/097-097
15162.12-18	Z30/124-127	15263.57-59	Z31/144-144	15377.36-36	343/043-043	15406.00-16	Z36/052-060	15434.00-46	241/121-143
15164.41-47	Z30/128-131	15263.59-59	Z32/001-001	15377.36-58	Z32/126-137	15406.18-18	343/067-067	15434.46-58	242/001-007
15167.10-16	Z30/132-135	15264.01-03	Z32/002-003	15377.42-50	Z32/114-118	15406.20-26	Z36/061-062	15435.00-58	242/008-037
15169.39-45	Z30/136-139	15264.14-14	Z32/004-004	15378.10-40	Z32/138-153	15406.22-24	Z36/064-065	15436.00-58	242/038-067
15169.45-45	343/038-038	15266.26-32	Z32/005-008	15378.42-43	338/040-041	15406.28-28	Z36/063-063	15437.00-58	242/068-097
15169.58-58	Z27/047-047	15268.55-59	Z32/009-011	15379.00-06	Z33/001-004	15406.30-46	Z36/066-074	15438.00-58	242/098-127
15172.08-14	Z30/140-143	15269.01-01	Z32/012-012	15379.16-58	Z33/005-026	15406.36-36	343/068-068	15439.00-34	242/128-144
15174.37-39	Z30/144-144	15271.22-26	Z32/013-015	15380.00-58	Z33/027-056	15407.28-28	Z36/095-095	15439.34-58	243/001-013
15174.39-43	Z31/001-003	15273.53-57	Z32/016-018	15381.00-58	Z33/057-086	15407.30-58	Z36/075-089	15440.00-58	243/014-043
15177.06-12	Z31/004-007	15274.08-08	Z32/019-019	15382.00-58	Z33/087-116	15408.00-08	Z36/090-094	15441.00-58	243/044-073
15179.35-41	Z31/008-011	15276.22-26	Z32/020-022	15383.00-56	Z33/117-144	15408.10-58	Z36/096-120	15442.00-58	243/074-103
15182.04-10	Z31/012-015	15278.49-55	Z32/023-026	15383.56-58	Z34/001-002	15409.00-30	Z36/121-136	15443.00-50	243/104-129
15184.33-39	Z31/016-019	15281.18-24	Z32/027-030	15384.00-58	Z34/003-032	15409.34-58	Z36/137-149	15443.52-52	343/098-098
15187.02-08	Z31/020-023	15283.47-53	Z32/031-034	15385.00-58	Z34/033-062	15410.00-02	Z37/001-002	15443.54-58	243/130-132
15189.31-37	Z31/024-027	15286.16-22	Z32/035-038	15386.00-02	Z34/063-064	15410.32-58	Z37/003-016	15444.00-24	243/133-144
15191.58-58	Z31/028-028	15288.45-51	Z32/039-042	15386.04-52	Z27/112-136	15411.00-58	Z37/017-046	15444.24-58	244/001-018
15192.00-04	Z31/029-031	15293.43-49	Z32/048-051	15387.02-02	343/044-044	15412.00-16	Z37/047-055	15445.00-58	244/019-048
15194.27-33	Z31/032-035	15294.00-00	Z32/052-052	15387.54-58	Z28/001-003	15412.20-58	Z37/056-075	15445.28-28	343/099-099
15196.56-58	Z31/036-037	15296.12-16	Z32/053-054	15388.00-00	Z28/004-004	15413.00-58	Z37/076-105	15446.00-58	244/049-078
15197.00-02	Z31/038-039	15296.18-18	Z32/055-055	15388.02-34	Z27/137-153	15414.00-58	Z37/106-135	15447.00-58	244/079-108
15199.25-31	Z31/040-043	15298.41-47	Z32/056-059	15388.02-36	343/045-062	15415.00-18	Z37/136-144	15448.00-58	244/109-138
15201.54-58	Z31/044-046	15301.10-16	Z32/060-063	15388.38-58	Z28/005-015	15415.18-58	Z38/001-021	15449.00-12	244/139-144
15202.00-00	Z31/047-047	15303.39-45	Z32/064-067	15389.00-58	Z28/016-045	15416.00-58	Z38/022-051	15449.12-58	245/001-024
15204.23-29	Z31/048-051	15306.08-14	Z32/068-071	15390.00-58	Z28/046-075	15417.00-58	Z38/052-081	15450.00-58	245/025-054
15206.52-58	Z31/052-055	15308.37-43	Z32/072-075	15391.00-58	Z28/076-105	15418.00-58	Z38/082-111	15451.00-58	245/055-084
15209.21-27	Z31/056-059	15311.04-10	Z32/076-079	15392.00-58	Z28/106-135	15418.42-42	343/081-081	15452.00-58	245/085-114
15211.50-56	Z31/060-063	15313.33-39	Z32/080-083	15393.00-18	Z28/136-144	15419.00-58	Z38/112-141	15453.00-58	245/115-144
15214.19-25	Z31/064-067	15316.02-08	Z32/084-087	15393.18-58	Z29/001-021	15420.00-06	Z38/142-144	15454.00-58	246/001-030
15216.48-54	Z31/068-071	15318.31-37	Z32/088-091	15394.00-58	Z29/022-051	15420.06-44	Z39/001-020	15455.00-58	246/031-060
15219.14-22	Z32/043-047	15321.00-06	Z32/092-095	15395.00-58	Z29/052-081	15422.08-58	Z39/061-086	15456.00-58	246/061-090
15219.17-23	Z31/072-075	15325.58-58	Z32/099-099	15395.58-58	343/063-063	15423.00-58	Z39/087-116	15457.00-58	246/091-120
15221.46-52	Z31/076-079	15326.00-04	Z32/100-101	15396.00-02	343/064-065	15424.00-58	Z39/117-146	15458.00-44	246/121-143
15224.15-21	Z31/080-083	15328.29-33	Z34/065-067	15396.00-58	Z29/082-111	15424.58-58	343/082-082	15458.20-24	343/100-101
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15863.46-49	267/018-021	15896.01-05	268/047-051	15928.47-50	269/120-123	15970.28-31	271/008-011	16002.48-54	272/041-044
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15866.20-24	344/090-092	15903.29-32	268/090-093	15935.34-36	269/142-142	15975.26-29	271/036-039	16007.01-03	340/082-083
15866.20-26	267/036-039	15903.34-40	268/094-097	15935.36-44	270/001-005	15975.28-29	234/092-093	16007.30-40	272/059-064
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16012.39-42	272/093-096	16039.34-42	251/046-050	16049.42-43	274/071-072	16059.44-46	275/074-076	16069.44-46	276/054-056
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16032.23-27	273/034-036	16044.14-36	340/095-106	16054.20-38	274/133-142	16062.33-34	276/003-004	16074.29-30	276/123-124
16032.28-29	273/037-038	16044.27-45	273/131-140	16054.39-40	274/143-144	16062.36-38	276/005-007	16074.29-30	344/138-139
16032.31-32	273/039-040	16044.46-47	273/141-142	16054.42-44	275/001-003	16062.40-42	276/008-010	16074.32-34	276/125-127
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16037.24-26	273/086-088	16047.28-29	274/047-048	16057.31-33	275/052-054	16067.39-41	276/033-035	16075.38-38	453/088-088

VOYAGER ARCHIVE TAPE CATALOG

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16154.00-02	280/081-082	16161.52-54	281/041-043	16172.16-18	282/020-022	16179.28-30	282/119-121	16188.45-47	283/105-107
16154.05-07	280/083-084	16161.56-58	281/044-046	16172.43-59	339/032-040	16179.32-34	282/122-124	16188.49-51	283/108-110
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16157.47-49	280/134-136	16166.28-30	281/098-100	16175.49-51	282/047-049	16183.21-25	283/045-047	16191.50-52	284/025-027
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16160.28-30	281/014-016	16171.20-22	281/140-142	16178.04-06	282/092-094	16186.30-32	283/084-086	16192.51-53	284/070-072
16160.32-34	281/017-019	16171.24-26	281/143-144	16178.32-34	282/095-097	16186.48-52	335/023-024	16192.55-57	284/073-075

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16194.07-09	284/092-094	16201.04-06	285/048-050	16206.12-14	286/042-044	16209.29-31	287/042-044	16216.19-29	339/094-099
16194.11-13	284/095-097	16201.08-10	285/051-053	16206.16-18	286/045-047	16209.33-35	287/045-047	16216.33-35	288/024-026
16194.33-43	335/027-032	16201.12-14	285/054-056	16206.20-22	286/048-050	16209.37-39	287/048-050	16216.37-39	288/027-029
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16197.32-32	338/057-057	16201.20-22	285/060-062	16206.28-30	286/054-056	16209.45-47	287/054-056	16216.45-47	288/033-035
16198.15-19	335/033-034	16201.24-26	285/063-065	16206.32-34	286/057-059	16209.50-52	287/057-059	16216.49-51	288/036-038
16198.25-27	335/035-036	16201.28-30	285/066-068	16206.36-38	286/060-062	16209.54-56	287/060-062	16216.53-55	288/039-041
16198.31-37	335/037-038	16201.32-34	285/069-071	16206.40-42	286/063-065	16209.58-59	287/063-064	16216.57-59	288/042-044
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16200.14-16	285/015-017	16204.47-48	286/001-002	16208.27-29	286/141-143	16214.03-03	287/124-124	16220.19-21	288/097-099
16200.18-20	285/018-020	16204.50-52	286/003-005	16208.31-32	286/144-144	16214.24-29	287/125-130	16220.23-25	288/100-102
16200.22-24	285/021-023	16204.54-56	286/006-008	16208.32-33	287/001-002	16214.34-39	287/131-136	16220.27-29	288/103-105
16200.27-27	285/024-024	16204.58-59	286/009-010	16208.36-38	287/003-005	16214.41-43	287/137-139	16220.31-33	288/106-108
16200.28-29	268/140-141	16205.00-03	286/011-012	16208.40-42	287/006-008	16214.45-47	287/140-142	16220.35-37	288/109-111
16200.31-33	268/142-144	16205.04-05	286/013-014	16208.44-46	287/009-011	16214.49-51	287/143-144	16220.39-41	288/112-114
16200.32-33	285/025-026	16205.07-09	286/015-017	16208.48-50	287/012-014	16214.51-53	288/001-002	16220.43-45	288/115-117

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16220.52-54	288/121-123	16226.18-20	289/080-082	16231.21-23	290/087-089	16250.06-17	292/007-018	16261.58-59	293/021-022
16220.56-58	288/124-126	16226.22-24	289/083-085	16231.25-27	290/090-092	16251.19-21	292/019-021	16262.00-02	293/023-024
16221.02-04	288/127-128	16226.26-28	289/086-088	16231.29-31	290/093-095	16251.23-25	292/022-024	16262.03-04	293/025-026
16221.05-06	288/129-130	16226.30-32	289/089-091	16231.33-35	290/096-098	16251.27-29	292/025-027	16262.06-08	293/027-029
16221.08-10	288/131-133	16226.34-36	289/092-094	16231.37-39	290/099-101	16251.31-33	292/028-030	16262.10-12	293/030-032
16221.12-14	288/134-136	16226.38-40	289/095-097	16231.41-43	290/102-104	16251.35-37	292/031-033	16262.14-16	293/033-035
16221.16-18	288/137-139	16226.43-45	289/098-100	16231.45-47	290/105-107	16251.39-41	292/034-036	16262.18-20	293/036-038
16221.20-22	288/140-142	16226.47-49	289/101-103	16231.49-51	290/108-110	16251.43-45	292/037-039	16262.22-24	293/039-041
16221.24-26	288/143-145	16226.51-53	289/104-106	16231.53-55	290/111-113	16251.47-49	292/040-042	16262.26-28	293/042-044
16222.12-14	288/146-148	16226.55-57	289/107-109	16231.57-59	290/114-116	16251.57-57	335/054-054	16262.30-32	293/045-047
16222.16-18	288/149-151	16226.59-59	289/110-110	16232.01-02	290/117-118	16252.02-03	335/055-056	16262.34-36	293/048-050
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16222.22-24	454/003-004	16227.03-05	289/113-115	16232.05-07	290/119-121	16252.16-19	335/059-060	16262.42-44	293/054-056
16222.25-26	454/005-006	16227.07-09	289/116-118	16232.09-11	290/122-124	16252.23-29	335/061-062	16262.46-48	293/057-059
16222.28-30	454/007-009	16227.11-13	289/119-121	16232.13-15	290/125-127	16252.32-36	335/063-064	16262.50-52	293/060-062
16222.32-34	454/010-012	16227.15-17	289/122-124	16232.17-19	290/128-130	16252.42-44	335/065-066	16262.54-56	293/063-065
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16222.40-41	454/016-017	16229.01-01	335/052-052	16236.49-51	290/131-133	16253.01-07	339/120-123	16263.00-02	293/068-069
16222.42-44	289/001-002	16229.09-11	289/125-127	16236.53-55	290/134-136	16253.29-31	292/043-045	16263.03-04	293/070-071
16222.45-46	289/003-004	16229.13-15	289/128-130	16236.57-59	290/137-139	16253.33-35	292/046-048	16263.06-08	293/072-074
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16222.53-55	289/008-010	16229.21-23	289/134-136	16237.05-07	290/143-144	16253.41-43	292/051-053	16263.14-16	293/078-080
16222.57-59	289/011-013	16229.25-25	345/109-109	16237.07-09	291/001-002	16254.08-19	292/054-065	16263.18-20	293/081-083
16223.01-03	289/014-016	16229.26-27	290/001-002	16237.10-11	291/003-004	16255.01-13	292/066-072	16263.22-24	293/084-086
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16223.17-19	289/026-028	16229.41-43	290/012-014	16240.44-46	291/045-046	16257.11-33	292/087-098	16264.30-31	335/068-069
16223.21-23	289/029-031	16229.45-47	290/015-017	16240.44-58	291/047-054	16258.11-22	292/099-110	16264.35-47	340/001-007
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16223.30-32	289/035-037	16230.01-03	290/027-029	16241.44-55	291/059-070	16259.37-39	292/114-116	16264.50-51	293/095-096
16223.34-36	289/038-040	16230.05-07	290/030-032	16242.53-57	291/071-073	16259.41-43	292/117-119	16264.53-55	293/097-099
16223.38-40	289/041-043	16230.09-11	290/033-035	16242.57-57	345/111-111	16259.45-47	292/120-122	16264.57-59	293/100-102
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16225.05-07	335/050-051	16230.29-31	290/048-050	16243.23-25	345/112-113	16260.03-04	292/133-134	16265.17-19	293/115-117
16225.29-31	289/044-046	16230.33-35	290/051-053	16243.28-32	291/083-085	16260.06-08	292/135-137	16265.21-23	293/118-120
16225.33-35	289/047-049	16230.37-39	290/054-056	16245.14-24	339/112-117	16260.10-12	292/138-140	16265.25-27	293/121-123
16225.37-39	289/050-052	16230.41-43	290/057-059	16245.33-33	335/053-053	16260.14-16	292/141-143	16265.30-32	293/124-126
16225.41-43	289/053-055	16230.45-47	290/060-062	16246.00-10	291/086-096	16260.18-19	292/144-144	16265.34-36	293/127-129
16225.45-47	289/056-058	16230.49-51	290/063-065	16246.53-59	291/121-124	16260.19-20	293/001-002	16265.38-40	293/130-132
16225.49-51	289/059-061	16230.53-55	290/066-068	16247.01-15	291/125-132	16260.23-25	293/003-005	16265.42-44	293/133-135
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16225.57-59	289/065-067	16231.01-03	290/072-074	16248.00-00	345/114-114	16260.31-33	293/009-011	16265.50-52	293/139-141
16226.01-03	289/068-070	16231.05-07	290/075-077	16248.00-04	291/139-143	16260.33-33	345/115-115	16265.54-56	293/142-144
16226.06-08	289/071-073	16231.09-11	290/078-080	16248.05-09	291/097-101	16260.35-37	293/012-014	16265.58-59	294/001-002
16226.10-12	289/074-076	16231.13-15	290/081-083	16249.03-25	291/102-113	16260.39-41	293/015-017	16266.00-02	294/003-004

VOYAGER ARCHIVE TAPE CATALOG

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16266.14-24	338/060-065	16273.15-16	294/130-131	16283.35-35	295/042-042	16290.53-55	295/136-138	16298.26-26	296/127-127
16267.22-24	294/010-012	16273.16-22	345/120-121	16283.45-45	295/043-043	16290.57-59	295/139-141	16298.36-42	296/128-129
16267.26-28	294/013-015	16273.18-22	294/132-133	16283.55-57	295/044-045	16291.05-07	296/001-003	16298.52-52	296/130-130
16267.30-32	294/016-018	16273.23-25	294/134-135	16284.07-09	295/046-047	16291.09-11	296/004-006	16299.02-02	296/131-131
16267.34-36	294/019-021	16273.29-29	345/122-122	16284.33-43	338/111-116	16291.13-15	296/007-009	16299.12-16	296/132-134
16267.38-40	294/022-024	16273.29-30	294/136-137	16284.51-51	338/117-117	16291.17-19	296/010-012	16299.17-18	296/135-136
16267.42-44	294/025-027	16273.32-36	294/138-139	16284.58-59	295/048-049	16291.21-23	296/013-015	16299.20-22	296/137-139
16267.46-48	294/028-030	16273.36-40	345/123-124	16285.00-00	295/050-050	16291.25-27	296/016-018	16299.24-29	296/140-144
16267.50-52	294/031-033	16273.37-39	294/140-141	16285.21-21	295/051-051	16291.29-31	296/019-021	16299.29-29	297/001-001
16267.54-56	294/034-036	16273.48-50	340/008-009	16285.31-35	295/052-054	16291.33-53	346/112-122	16299.40-50	340/025-030
16267.58-59	294/037-038	16273.54-55	340/010-011	16285.36-37	295/055-056	16291.33-59	335/085-098	16299.59-59	338/124-124
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16268.04-05	294/041-042	16274.01-02	340/013-014	16285.43-45	295/060-062	16292.41-43	296/022-024	16300.18-20	335/127-128
16268.07-09	294/043-045	16274.04-04	340/015-015	16285.47-47	295/063-063	16292.45-47	296/025-027	16300.21-21	335/129-129
16268.11-13	294/046-048	16274.43-53	338/099-104	16285.57-57	295/064-064	16292.49-51	296/028-030	16300.26-28	297/002-003
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16272.47-47	345/116-116	16280.36-38	295/023-025	16289.05-07	295/124-126	16297.48-50	296/100-102	16305.45-48	343/069-070
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16273.01-02	294/124-125	16281.17-17	295/029-029	16289.40-42	340/022-024	16298.08-10	296/115-117	16306.39-41	297/097-099
16273.01-05	345/118-119	16281.19-21	295/035-037	16290.01-03	295/142-144	16298.13-15	296/118-120	16307.08-09	297/100-101

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16307.15-55	297/105-125	16320.51-59	299/134-138	16333.57-59	301/056-057	16341.20-22	302/038-040	16348.27-29	302/131-133
16308.03-13	341/031-036	16321.01-13	299/139-144	16334.01-04	301/058-059	16341.24-26	302/041-043	16348.31-33	302/134-136
16308.24-34	340/031-036	16321.13-19	300/001-004	16334.06-08	301/060-061	16341.28-30	302/044-046	16348.35-37	302/137-139
16308.41-43	297/126-128	16321.22-46	300/005-017	16334.11-15	301/062-064	16341.33-35	302/047-049	16348.41-43	302/140-142
16308.45-47	297/129-131	16321.49-50	300/018-019	16334.18-22	301/065-067	16341.37-39	302/050-052	16348.45-47	302/143-144
16308.49-51	297/132-134	16321.55-57	341/037-039	16334.39-45	340/037-040	16341.41-43	302/053-055	16348.47-49	303/001-002
16308.53-55	297/135-137	16321.59-59	341/040-040	16334.48-58	334/037-042	16341.45-47	302/056-058	16348.50-51	303/003-004
16308.57-59	297/138-140	16322.00-01	341/041-042	16335.07-07	301/068-068	16341.49-51	302/059-061	16348.54-56	303/005-007
16309.01-03	297/141-143	16322.03-05	341/043-045	16335.15-17	301/069-070	16341.53-55	302/062-064	16348.58-59	303/008-009
16309.05-07	297/144-146	16322.14-16	335/130-132	16335.21-21	301/071-071	16341.57-59	302/065-067	16349.00-02	303/010-011
16309.09-10	297/147-147	16322.18-20	335/133-135	16335.29-31	301/072-073	16342.01-03	302/068-070	16349.03-04	303/012-013
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16320.01-17	299/110-118	16333.34-37	301/051-052	16341.12-14	302/032-034	16348.19-21	302/125-127	16353.50-52	303/107-109

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VOYAGER ARCHIVE TAPE CATALOG

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19099.04-08	354/118-120	19200.49-53	355/092-094	19322.25-31	356/093-096	19367.05-59	358/009-027	19386.50-59	450/001-004
19101.33-37	354/121-123	19203.18-22	355/095-097	19322.34-43	356/097-100	19368.02-59	358/028-047	19387.02-59	360/097-116
19104.01-05	354/124-126	19205.47-51	355/098-100	19324.37-52	356/101-106	19369.02-59	358/048-067	19388.02-02	450/005-005
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19111.28-32	354/133-135	19215.42-46	355/110-112	19327.12-22	356/115-120	19373.02-50	358/128-144	19390.02-35	454/037-048
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19141.20-20	448/028-028	19252.56-58	356/011-012	19342.21-27	357/037-040	19379.02-32	448/135-144	19404.02-59	362/124-143
19143.45-49	355/027-029	19253.00-00	356/013-013	19344.34-44	357/041-046	19379.02-59	359/105-124	19404.41-41	450/006-006
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19148.35-35	444/039-039	19257.54-58	356/017-019	19344.50-56	357/051-054	19380.02-59	359/125-144	19405.05-59	363/001-019

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19409.44-44	450/014-014	19436.00-02	366/061-062	19483.06-09	367/080-083	19517.55-57	368/074-075	19570.01-03	369/097-098
19410.02-59	363/098-117	19438.15-21	366/063-066	19483.11-15	367/084-086	19520.08-14	366/124-127	19572.24-28	369/099-101
19411.02-59	363/118-137	19438.26-28	366/067-068	19485.24-28	367/087-089	19520.08-14	368/076-079	19573.14-14	438/045-045
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19412.17-38	364/001-008	19440.44-48	366/074-076	19485.40-40	367/094-094	19520.20-22	450/080-082	19577.22-30	369/105-109
19412.39-41	450/015-016	19440.52-54	366/077-078	19487.53-59	450/062-065	19520.24-24	450/083-083	19579.51-55	369/110-112
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19664.12-20	370/110-114	19741.02-05	399/057-058	19773.22-28	373/001-004	19807.57-59	374/041-042	19840.29-35	375/082-085
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19676.36-44	370/128-132	19743.23-25	371/126-127	19775.53-53	450/092-092	19808.13-19	399/064-067	19843.00-04	375/097-099
19679.05-13	370/133-137	19743.31-34	371/128-129	19776.00-06	373/019-020	19810.26-30	450/097-099	19845.11-21	375/100-105
19681.34-42	370/138-142	19743.36-42	371/130-133	19776.09-21	373/021-027	19810.26-36	374/049-054	19845.22-25	375/106-109
19684.03-07	370/143-144	19743.45-48	371/134-135	19776.22-25	373/028-031	19810.37-40	374/055-058	19845.27-33	375/110-113
19684.07-11	371/001-003	19743.54-54	371/136-136	19776.27-33	373/032-035	19810.42-48	374/059-062	19847.11-11	444/043-043
19686.32-40	371/004-008	19745.51-54	371/137-138	19780.40-50	373/036-041	19812.55-59	374/063-065	19847.40-46	375/114-117
19689.01-07	371/009-012	19746.00-03	371/139-140	19780.51-54	373/042-045	19813.01-05	374/066-068	19848.26-26	438/047-047
19691.30-32	371/013-014	19746.05-11	371/141-144	19780.56-58	373/046-047	19813.06-09	374/069-072	19850.09-19	375/118-123
19691.36-36	371/015-015	19746.14-23	372/001-004	19781.00-02	373/048-049	19813.11-17	374/073-076	19850.20-23	375/124-127
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19694.01-07	371/017-020	19748.35-38	372/011-014	19783.09-19	373/050-055	19815.35-38	374/083-086	19852.38-48	375/132-137
19696.28-30	371/021-022	19748.40-46	372/015-018	19783.20-23	373/056-059	19815.40-46	374/087-090	19852.49-52	375/138-141
19696.34-36	371/023-024	19750.53-57	372/019-020	19783.25-31	373/060-063	19817.53-59	374/091-094	19852.54-58	375/142-144
19698.12-12	438/046-046	19750.55-55	450/088-088	19785.38-42	373/064-065	19818.01-03	374/095-096	19853.00-00	376/001-001
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19726.20-26	371/057-058	19758.31-34	372/063-066	19793.18-19	450/093-094	19825.42-42	375/001-001	19867.41-44	376/055-058
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19738.45-45	371/120-120	19770.53-59	372/131-134	19805.21-36	374/027-032	19838.00-06	375/068-071	19880.01-05	376/107-109

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19884.44-59	376/121-126	19919.29-44	378/027-032	19947.01-09	379/068-072	19981.31-46	380/111-116	20014.06-12	382/039-042
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20045.56-56	444/045-045	20076.01-09	384/096-100	20103.35-35	385/122-122	20120.55-59	452/003-005	20148.01-07	387/091-094
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20048.57-59	383/095-096	20078.40-40	451/042-042	20105.45-55	385/127-132	20123.19-22	386/063-066	20150.42-48	387/113-116
20049.01-03	383/097-098	20078.50-50	451/043-043	20105.56-59	385/133-136	20123.19-22	452/013-016	20152.55-59	387/117-119
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20051.21-24	383/105-108	20079.39-41	384/114-115	20106.01-07	451/063-066	20123.24-30	452/017-020	20153.06-09	387/123-126
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20185.25-27	454/059-060	20227.30-33	391/019-022	20254.23-47	393/036-048	20283.56-59	395/066-067	20314.51-54	396/125-126
20185.27-33	389/022-025	20227.35-57	391/023-034	20254.48-51	393/049-052	20284.02-32	395/068-078	20314.56-58	396/127-128
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20187.51-54	389/032-035	20229.38-38	454/064-064	20255.01-15	393/057-064	20284.43-58	395/083-088	20315.06-08	396/131-132
20187.56-58	389/036-037	20229.59-59	391/048-048	20256.52-58	393/065-068	20285.01-16	395/089-094	20316.28-48	396/133-143
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20194.37-58	389/054-061	20234.48-58	391/093-098	20260.01-13	393/116-122	20289.00-00	444/065-065	20317.04-06	397/010-011
20195.01-13	389/062-066	20235.00-04	391/099-099	20261.50-58	393/123-127	20289.08-32	395/124-136	20317.07-08	397/012-013
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20195.24-57	389/071-082	20235.13-16	391/106-109	20262.15-18	393/136-139	20289.38-46	395/141-144	20317.13-14	397/016-017
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20218.01-16	390/129-134	20246.30-30	440/108-108	20275.02-20	394/116-122	20307.36-38	396/098-099	20319.48-49	397/053-054
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20220.01-09	390/027-031	20247.20-26	392/106-109	20277.07-13	394/136-139	20313.44-59	396/100-105	20321.49-51	397/068-069
20220.12-45	390/032-043	20247.29-59	392/110-120	20277.16-31	394/140-144	20314.02-05	396/106-107	20321.52-53	397/070-071
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20222.00-30	390/046-056	20249.11-47	392/122-134	20278.58-58	395/008-008	20314.11-14	396/109-110	20321.58-59	397/074-075
20222.32-38	390/057-060	20249.49-55	392/135-138	20279.01-34	395/009-020	20314.16-18	396/111-112	20322.01-03	397/076-077
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20222.56-56	454/062-062	20250.01-16	392/140-144	20279.45-57	395/025-029	20314.26-28	396/115-116	20322.07-09	397/080-081
20223.02-14	390/068-072	20250.16-31	393/001-006	20280.00-18	395/030-036	20314.26-28	454/065-066	20322.10-11	397/082-083
20223.05-05	454/063-063	20250.52-52	440/109-109	20280.51-51	435/083-083	20314.31-34	396/117-118	20322.13-15	397/084-085
20224.36-58	390/073-084	20251.40-58	393/007-013	20281.27-57	395/037-047	20314.31-34	454/067-068	20322.16-17	397/086-087

FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID
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20324.00-14	397/091-098	20332.15-17	398/070-071	20346.03-04	369/009-010	20355.05-07	400/117-119	20363.45-47	401/086-088
20324.15-16	397/099-100	20332.20-23	398/072-073	20346.06-08	369/011-013	20355.09-11	400/120-122	20363.49-51	401/089-091
20324.18-20	397/101-102	20332.25-27	398/074-075	20346.10-10	369/014-014	20357.05-07	400/123-125	20363.53-55	401/092-094
20324.21-22	397/103-104	20332.48-52	398/076-078	20346.11-12	400/001-002	20357.09-11	400/126-128	20363.57-57	401/095-095
20324.24-26	397/105-106	20332.55-59	398/079-081	20346.14-16	400/003-005	20357.13-15	400/129-131	20363.58-59	401/120-121
20324.27-28	397/107-108	20335.02-06	398/082-084	20346.18-20	400/006-008	20357.17-19	400/132-134	20364.01-03	401/122-124
20324.30-32	397/109-110	20335.09-13	398/085-087	20346.22-24	400/009-011	20357.21-23	400/135-137	20364.05-07	401/125-127
20324.33-34	397/111-112	20335.16-20	398/088-090	20346.29-31	444/073-075	20357.25-27	400/138-140	20364.09-11	401/128-130
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20329.44-45	398/041-042	20344.00-02	399/036-037	20353.00-02	400/089-090	20362.00-02	401/060-062	20371.28-28	441/002-002
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20331.50-53	398/060-061	20345.50-51	399/047-048	20354.45-47	400/102-104	20362.20-22	401/074-076	20373.58-58	402/076-076
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20332.00-03	398/064-065	20345.55-56	369/003-004	20354.53-55	400/108-110	20362.28-30	401/080-082	20374.04-08	402/077-078
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20374.42-44	402/087-089	20380.59-59	403/063-063	20389.36-40	452/050-051	20399.47-53	405/020-022	20412.28-30	405/133-135
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20374.50-52	402/093-095	20381.03-05	403/066-068	20389.42-44	452/052-053	20400.00-00	452/061-061	20412.36-38	405/139-141
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20376.04-06	402/123-125	20383.08-09	403/084-085	20391.13-15	404/047-049	20402.04-08	405/045-046	20416.34-36	406/028-030
20376.08-10	402/126-128	20383.11-13	403/086-088	20391.17-19	404/050-052	20402.11-14	405/047-048	20416.38-40	406/031-033
20376.09-09	402/120-120	20383.15-17	403/089-091	20391.21-23	404/053-055	20402.18-24	405/049-051	20416.42-44	406/034-036
20376.12-14	402/129-131	20383.19-21	403/092-094	20392.00-02	404/056-058	20402.34-40	441/030-032	20416.46-48	406/037-039
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20376.58-59	402/138-139	20384.55-57	403/100-102	20392.12-14	404/065-067	20402.57-57	445/041-041	20416.58-59	406/046-047
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20377.26-28	403/015-017	20385.27-29	403/124-126	20394.08-10	404/089-091	20408.26-28	405/073-075	20417.31-33	406/070-072
20377.30-32	403/018-020	20385.29-29	452/047-047	20394.12-14	404/092-094	20408.30-32	405/076-078	20417.35-37	406/073-075
20377.37-37	441/003-003	20387.22-22	438/055-055	20394.16-18	404/095-097	20408.34-36	405/079-081	20417.39-41	406/076-078
20378.24-25	441/004-005	20387.25-30	441/015-020	20394.20-22	404/098-100	20408.38-40	405/082-084	20417.43-45	406/079-081
20378.26-28	445/033-034	20388.33-34	441/021-022	20394.24-26	404/101-103	20408.42-44	405/085-087	20417.50-58	441/042-046
20378.28-29	422/147-148	20388.37-39	403/127-129	20394.28-30	404/104-106	20408.46-48	405/088-090	20418.00-00	441/047-047
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20378.44-46	403/021-023	20388.49-51	403/136-138	20394.33-34	452/059-060	20408.59-59	405/097-097	20420.11-13	406/085-087
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20378.52-54	403/027-029	20388.57-59	403/142-143	20395.13-15	404/113-115	20409.03-05	405/100-102	20420.19-21	406/091-093
20378.56-58	403/030-032	20388.59-59	404/001-001	20395.17-19	404/116-118	20409.07-09	405/103-105	20420.23-25	406/094-096
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20379.12-14	403/042-044	20389.05-07	404/005-007	20395.33-35	404/128-130	20409.23-25	405/115-117	20420.39-41	406/106-108
20379.16-18	403/045-047	20389.09-11	404/008-010	20395.37-39	404/131-133	20409.31-41	441/036-041	20421.25-27	406/109-111
20380.39-41	403/048-050	20389.21-21	441/023-023	20395.41-43	404/134-136	20412.08-10	405/118-120	20421.29-31	406/112-114
20380.43-45	403/051-053	20389.24-26	404/011-013	20396.48-57	404/137-140	20412.12-14	405/121-123	20421.33-35	406/115-117
20380.47-49	403/054-056	20389.28-30	404/014-016	20397.00-12	404/141-144	20412.16-18	405/124-126	20421.37-39	406/118-120

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20421.53-55	406/130-132	20434.47-49	407/124-126	20443.38-40	408/096-098	20450.42-44	452/128-130	20459.50-56	409/102-104
20421.57-59	406/133-135	20434.51-53	407/127-129	20443.42-44	408/099-101	20450.46-48	452/131-133	20460.00-06	409/105-107
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20422.44-54	445/047-052	20434.59-59	407/133-133	20443.50-52	408/105-107	20450.54-56	452/137-139	20460.13-13	422/075-075
20422.59-59	406/136-136	20435.00-01	407/134-135	20443.54-56	408/108-110	20450.58-59	452/140-141	20460.20-26	409/111-113
20423.00-01	406/137-138	20435.03-05	407/136-138	20443.58-59	408/111-112	20450.59-59	409/001-001	20460.30-36	409/114-116
20423.03-05	406/139-141	20435.07-09	407/139-141	20444.00-02	408/113-114	20451.00-02	409/002-003	20460.40-46	409/117-119
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20425.12-14	407/021-022	20438.00-01	408/017-018	20445.11-11	435/096-096	20452.00-01	409/016-017	20463.15-17	409/138-139
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20427.04-06	407/061-063	20439.28-31	408/049-050	20446.34-36	452/077-079	20454.16-20	409/048-050	20465.43-43	438/063-063
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20429.15-19	407/094-096	20440.51-53	408/070-072	20448.34-36	452/107-109	20457.11-15	409/078-080	20466.27-29	410/050-052
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20432.08-12	407/103-105	20441.00-01	408/077-078	20448.46-48	452/116-118	20457.32-36	409/087-089	20466.40-42	410/059-061
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20469.32-34	410/140-142	20477.31-33	411/101-103	20483.31-34	412/086-087	20490.28-32	413/031-032	20502.34-36	414/019-021
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20505.02-04	414/080-082	20511.32-32	415/056-056	20518.35-39	416/023-025	20537.01-31	418/020-030	20550.27-33	419/060-062
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20505.10-12	414/086-088	20511.52-52	415/059-059	20518.51-57	438/106-108	20537.48-49	418/038-039	20550.47-53	419/066-068
20505.14-16	414/089-091	20512.00-02	415/060-061	20519.00-06	438/109-111	20538.58-58	439/001-001	20550.57-57	419/069-069
20505.18-20	414/092-094	20512.12-12	415/062-062	20519.18-58	442/013-023	20539.01-11	439/002-007	20551.00-03	419/070-071
20505.22-24	414/095-097	20512.20-22	415/063-064	20520.02-02	442/024-024	20539.16-18	418/040-042	20551.07-13	419/072-074
20505.26-28	414/098-100	20512.43-45	415/065-067	20520.11-41	416/029-039	20539.20-22	418/043-045	20551.17-25	436/001-003
20505.30-32	414/101-103	20512.47-49	415/068-070	20520.49-55	416/040-042	20539.24-26	418/046-048	20551.33-33	419/075-075
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33306.09-17	016/072-076	33385.43-51	017/106-110	33452.27-35	018/126-130	33532.05-17	020/033-035	33616.35-59	021/086-090
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33693.43-49	022/116-118	33763.09-09	024/026-026	33842.35-43	025/055-059	33904.11-19	026/068-072	33991.27-35	027/094-098
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33701.25-25	023/013-013	33768.01-07	024/034-035	33850.05-05	098/066-066	33909.25-27	026/082-083	33999.36-36	098/078-078
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33704.03-05	023/023-024	33775.51-59	024/049-053	33857.51-57	025/085-086	33916.53-59	026/095-096	34006.43-55	027/129-131
33704.05-07	023/025-026	33778.25-33	024/054-058	33858.03-15	025/087-089	33917.05-17	026/097-099	34007.01-07	027/132-133
33704.07-07	023/027-027	33780.59-59	024/059-059	33860.07-11	025/095-097	33919.27-51	026/100-104	34009.17-41	027/134-138
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33711.33-57	023/038-042	33786.07-15	024/070-074	33868.15-23	025/105-109	33932.25-33	026/120-124	34011.59-59	028/001-001
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33763.01-07	024/019-022	33837.27-35	025/044-048	33901.25-25	098/069-069	33986.27-27	027/088-088	34058.11-19	028/102-106

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VOYAGER ARCHIVE TAPE CATALOG

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34068.53-59	098/089-090	34148.01-09	030/031-035	34222.27-35	031/067-071	34300.41-41	102/080-080	34380.15-15	033/104-104
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34071.01-09	029/001-005	34151.01-07	030/044-045	34227.35-41	031/077-080	34302.03-33	032/111-116	34381.00-54	033/110-119
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34414.56-56	035/104-104	34427.53-56	036/047-048	34443.17-20	037/018-019	34456.28-32	037/105-106	34471.24-28	038/032-033
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34632.48-56	045/093-095	34646.10-22	046/061-063	34658.22-25	047/013-014	34671.28-31	056/089-090	34684.32-35	048/067-068
34632.59-59	045/096-096	34646.27-27	046/064-064	34658.29-35	047/015-017	34671.35-38	056/091-092	34684.39-45	048/069-071
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34633.13-16	045/100-101	34646.49-49	046/068-068	34658.47-53	047/020-022	34671.48-52	047/099-100	34684.57-57	048/074-074
34633.20-24	045/102-103	34648.01-01	046/069-069	34658.57-57	047/023-023	34671.55-58	047/101-102	34685.00-00	048/075-075
34633.27-30	045/104-105	34648.06-06	046/070-070	34659.00-04	047/024-025	34672.03-06	047/103-104	34685.03-03	101/057-057
34633.34-38	045/106-107	34648.26-26	046/071-071	34659.07-10	047/026-027	34672.10-16	047/105-107	34686.09-37	048/076-083
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34635.54-58	045/118-119	34649.26-32	046/081-082	34660.23-43	047/034-039	34674.11-17	047/117-119	34687.19-25	048/095-097
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34706.43-43	049/118-118	34719.02-26	100/124-128	34731.02-02	051/025-025	34745.23-23	052/016-016	34756.36-42	052/121-123
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34765.10-10	081/041-041	34784.02-02	053/140-140	34794.35-39	054/070-071	34807.22-25	055/026-027	34817.09-09	055/118-118
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34774.00-03	053/062-063	34784.30-33	054/001-002	34794.53-56	054/076-077	34807.43-46	055/032-033	34817.45-48	055/121-122
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34774.14-17	053/066-067	34784.44-47	054/005-006	34795.07-10	054/080-081	34807.57-57	055/036-036	34817.59-59	055/125-125
34774.21-24	053/068-069	34784.51-54	054/007-008	34795.14-17	054/082-083	34808.00-04	055/037-038	34818.02-06	055/126-127
34774.28-31	053/070-071	34784.58-58	054/009-009	34795.17-21	054/084-085	34808.07-11	055/039-040	34818.09-13	055/128-129
34774.35-38	053/072-073	34785.01-05	054/010-011	34795.21-24	054/086-087	34808.14-14	055/041-041	34818.16-20	055/130-131
34774.42-45	053/074-075	34785.08-08	054/012-012	34795.24-24	054/088-088	34808.30-54	101/058-062	34818.23-27	055/132-133
34774.49-52	053/076-077	34785.21-25	054/013-014	34795.38-56	054/089-092	34809.00-18	101/063-066	34818.30-30	055/134-134
34775.05-09	053/078-079	34785.36-40	054/015-016	34796.02-08	054/093-094	34809.33-36	055/042-043	34818.49-57	056/001-003
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34823.21-24	056/043-044	34835.51-54	056/120-121	34843.50-53	057/059-060	34861.07-11	058/086-087	34872.15-19	059/089-090
34823.28-31	056/045-046	34835.58-58	056/122-122	34843.57-57	057/061-061	34861.14-18	058/088-089	34872.22-26	059/091-092
34823.35-38	056/047-048	34836.01-05	056/123-124	34844.00-04	057/062-063	34861.21-25	058/090-091	34872.29-33	059/093-094
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34824.02-14	081/098-101	34836.15-19	056/127-128	34844.17-37	082/001-006	34861.35-39	058/094-095	34872.50-50	101/012-012
34824.17-23	081/102-103	34836.22-22	056/129-129	34844.40-40	082/007-007	34861.42-46	058/096-097	34872.58-58	059/096-096
34824.28-28	102/097-097	34836.31-34	056/130-131	34844.48-56	082/008-010	34861.49-49	058/098-098	34873.01-05	059/097-098
34824.40-40	056/049-049	34836.38-41	056/132-133	34845.00-24	082/011-017	34861.55-55	102/098-098	34873.08-12	059/099-100
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34827.02-02	056/072-072	34838.45-48	057/026-027	34851.01-13	058/003-007	34864.35-59	058/123-131	34876.21-25	059/125-126
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34830.04-04	056/093-093	34839.29-29	081/138-138	34852.29-57	058/008-015	34866.02-59	059/017-036	34876.42-46	059/131-132
34830.09-09	101/009-009	34839.40-56	081/139-143	34853.01-01	058/016-016	34867.02-59	059/037-056	34876.49-53	059/133-134
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34879.24-27	060/027-028	34901.33-37	082/076-077	34909.55-58	061/110-111	34919.52-58	083/082-085	34933.16-20	062/022-023
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34879.38-41	060/031-032	34901.47-51	082/080-081	34911.24-30	083/002-004	34920.00-04	083/087-089	34933.34-34	062/027-027
34879.45-57	102/041-044	34901.54-57	082/082-083	34911.43-59	083/005-009	34920.08-08	083/090-090	34933.38-38	103/011-011
34880.03-23	105/044-049	34902.01-05	082/084-085	34912.03-07	083/010-011	34920.13-19	083/091-092	34933.43-46	101/082-083
34880.58-58	105/006-006	34902.08-08	082/086-086	34912.15-19	083/012-013	34920.24-24	083/093-093	34933.57-57	105/093-093
34881.37-58	105/050-057	34902.25-28	061/087-088	34912.19-59	083/014-024	34920.29-53	083/094-098	34934.01-41	105/094-103
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34885.31-49	082/066-069	34904.26-29	082/098-099	34915.57-57	083/112-112	34926.54-58	061/123-124	34937.01-01	062/047-047
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34886.02-32	102/045-050	34904.40-40	082/102-102	34916.20-20	083/116-116	34927.11-14	061/127-128	34937.32-36	106/014-015
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34887.01-55	060/037-046	34906.02-08	082/105-107	34916.38-38	083/118-118	34927.25-46	061/131-137	34938.24-27	062/048-049
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34889.01-55	060/057-066	34906.19-22	082/110-111	34916.48-48	083/120-120	34927.53-56	062/003-004	34938.38-42	062/052-053
34890.01-55	060/067-076	34906.26-30	082/112-113	34916.53-53	083/121-121	34928.00-03	062/005-006	34938.45-45	062/054-054
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34892.03-59	060/090-104	34906.40-44	082/116-117	34917.03-03	083/123-123	34928.14-17	062/009-010	34939.00-03	062/058-059
34892.37-40	048/142-143	34906.47-47	082/118-118	34917.08-08	083/124-124	34928.21-29	062/011-013	34939.07-10	062/060-061
34892.44-47	048/144-144	34906.59-59	061/096-096	34917.13-13	083/125-125	34928.32-44	062/014-017	34939.14-18	062/062-063
34893.03-59	060/105-119	34907.02-06	061/097-098	34917.13-13	083/126-126	34928.47-59	062/018-021	34939.21-21	062/064-064
34894.03-43	060/120-129	34907.09-13	061/099-100	34917.18-18	083/127-127	34929.03-23	101/016-021	34939.27-27	105/023-023
34894.43-59	061/001-005	34907.16-20	061/101-102	34917.23-23	083/128-128	34929.26-26	101/022-022	34939.54-57	104/009-010
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34897.03-59	061/036-050	34907.36-56	103/116-121	34917.46-48	083/049-050	34930.03-23	103/004-009	34940.15-18	106/020-021
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34899.03-51	061/066-078	34908.19-27	082/119-121	34917.56-58	083/057-058	34930.40-40	101/023-023	34940.34-38	101/042-043
34900.02-02	103/112-112	34908.30-33	082/122-123	34918.00-14	083/059-066	34930.44-48	105/076-077	34940.48-56	062/065-067
34900.09-12	103/113-114	34908.37-41	082/124-125	34918.24-54	083/067-072	34930.51-59	105/078-080	34941.00-16	062/068-072
34900.18-38	102/051-056	34908.44-47	082/126-127	34919.03-03	083/073-073	34931.02-06	105/081-082	34941.23-26	062/073-074
34900.43-43	102/109-109	34908.51-55	082/128-129	34919.08-08	083/074-074	34931.09-13	105/083-084	34941.33-39	106/025-027
34900.48-51	061/079-080	34909.01-09	082/130-132	34919.13-13	083/075-075	34931.16-20	105/085-086	34941.43-46	106/028-029
34900.55-58	061/081-082	34909.12-12	083/001-001	34919.18-18	083/076-076	34931.23-35	105/087-090	34941.50-58	062/075-077
34901.02-05	061/083-084	34909.25-28	101/069-070	34919.23-23	083/077-077	34931.41-57	101/076-080	34942.02-10	062/078-080
34901.09-12	061/085-086	34909.34-37	061/104-105	34919.28-34	083/078-079	34932.00-00	101/081-081	34942.21-21	104/126-126
34901.15-23	082/071-073	34909.41-44	061/106-107	34919.35-35	083/080-080	34932.04-24	101/024-029	34942.29-49	105/007-012

VOYAGER ARCHIVE TAPE CATALOG

FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID
34944.01-05	062/081-082	34964.56-59	062/112-113	34996.01-04	063/064-065	35020.34-34	064/107-107	35032.01-01	065/024-024
34944.13-33	101/044-049	34965.03-06	062/114-115	34996.10-58	063/066-078	35020.59-59	064/108-108	35032.06-06	065/025-025
34944.36-36	101/050-050	34965.15-19	083/102-103	34997.02-58	063/079-093	35021.04-04	064/109-109	35032.32-32	083/104-104
34944.40-41	062/083-084	34965.23-26	062/116-117	34998.02-58	063/094-108	35021.29-29	064/110-110	35032.36-36	065/026-026
34944.44-48	106/030-031	34965.30-33	062/118-119	34999.02-58	063/109-123	35021.34-34	064/111-111	35032.43-46	065/027-028
34944.51-54	103/012-013	34965.37-40	062/120-121	35000.02-22	063/124-128	35021.53-59	064/112-113	35032.50-53	065/029-030
34944.58-58	103/014-014	34965.44-47	062/122-123	35000.22-58	064/001-010	35022.04-04	064/114-114	35032.57-57	065/031-031
34945.02-08	103/015-016	34965.51-54	062/124-125	35001.02-58	064/011-025	35022.29-29	064/115-115	35033.00-04	065/032-033
34945.42-42	106/032-032	34965.58-58	062/126-126	35002.02-58	064/026-040	35022.34-34	064/116-116	35033.07-07	065/034-034
34946.50-56	106/033-034	34966.01-05	062/127-128	35003.02-58	064/041-055	35022.59-59	064/117-117	35033.14-54	065/035-045
34947.01-03	106/035-036	34966.08-12	062/129-130	35004.02-54	064/056-069	35023.04-04	064/118-118	35035.24-24	104/071-071
34948.16-18	103/017-018	34966.15-19	062/131-132	35004.58-58	104/093-093	35023.29-29	064/119-119	35036.23-23	065/046-046
34948.18-32	103/019-026	34966.22-26	062/133-134	35005.15-39	104/094-098	35023.34-34	064/120-120	35036.28-28	065/047-047
34948.45-45	062/085-085	34966.29-33	062/135-136	35005.46-46	104/099-099	35024.25-28	064/121-122	35036.53-53	065/048-048
34949.41-45	106/037-039	34966.36-40	062/137-138	35005.51-51	104/100-100	35024.32-35	064/123-124	35036.58-58	065/049-049
34950.05-11	104/011-014	34966.43-47	062/139-140	35007.58-58	106/085-085	35024.39-42	064/125-126	35037.23-23	065/050-050
34950.12-13	104/015-016	34966.50-54	062/141-142	35008.04-52	106/086-094	35024.46-49	064/127-128	35037.28-28	065/051-051
34950.13-17	104/017-021	34966.57-57	062/143-143	35009.20-20	101/051-051	35024.53-56	064/129-130	35037.53-53	065/052-052
34950.17-43	104/022-035	34967.01-04	062/144-144	35009.30-30	106/095-095	35025.00-03	064/131-132	35037.58-58	065/053-053
34950.43-51	104/036-040	34967.04-08	063/001-002	35009.35-35	106/096-096	35025.50-53	064/133-134	35038.23-23	065/054-054
34950.51-57	104/041-044	34967.11-15	063/003-004	35009.40-40	106/097-097	35025.57-57	064/135-135	35038.28-28	065/055-055
34951.56-56	104/079-079	34967.18-18	063/005-005	35011.02-53	106/098-115	35026.00-04	064/136-137	35038.47-53	065/056-057
34952.05-33	104/045-052	34970.44-47	063/006-007	35011.56-59	064/070-071	35026.07-11	064/138-139	35038.58-58	065/058-058
34952.36-40	104/053-054	34973.40-58	063/008-014	35012.09-18	064/072-075	35026.14-18	064/140-141	35039.23-23	065/059-059
34952.49-59	104/055-060	34974.01-16	063/015-020	35014.38-38	064/076-076	35026.21-25	064/142-143	35039.28-28	065/060-060
34953.01-07	104/061-064	34974.23-27	106/083-084	35014.43-43	064/077-077	35026.28-32	064/144-144	35039.53-53	065/061-061
34953.49-49	083/101-101	34974.29-29	106/082-082	35014.48-48	064/078-078	35026.32-35	065/001-002	35039.58-58	065/062-062
34953.50-53	101/030-031	34974.33-36	063/021-022	35014.53-53	064/079-079	35026.39-42	065/003-004	35040.23-23	065/063-063
34953.57-57	106/040-040	34974.40-43	063/023-024	35014.58-58	064/080-080	35026.59-59	104/101-101	35040.28-28	065/064-064
34954.01-25	106/041-047	34974.47-50	063/025-026	35015.03-03	064/081-081	35027.05-23	104/102-105	35040.58-58	104/108-108
34956.23-26	062/086-087	34974.54-57	063/027-028	35015.08-08	064/082-082	35027.30-30	104/106-106	35041.04-22	104/109-112
34956.35-59	106/048-054	34975.01-04	063/029-030	35015.13-13	064/083-083	35027.35-35	104/107-107	35041.29-29	104/113-113
34957.03-39	106/055-064	34975.08-11	063/031-032	35015.18-18	064/084-084	35027.49-49	065/005-005	35041.34-34	104/114-114
34957.48-56	106/065-067	34975.15-18	063/033-034	35015.23-23	064/085-085	35027.54-54	065/006-006	35041.44-44	106/116-116
34962.04-40	106/068-077	34975.22-25	063/035-036	35015.28-28	064/086-086	35028.01-01	065/007-007	35041.49-49	106/117-117
34962.52-56	106/078-079	34975.42-42	103/027-027	35015.33-33	064/087-087	35028.06-06	065/008-008	35041.54-54	106/118-118
34963.00-04	106/080-081	34975.54-54	104/070-070	35015.38-38	064/088-088	35028.31-31	065/009-009	35042.00-12	106/119-120
34963.08-24	104/065-069	34976.10-58	104/080-088	35015.43-43	064/089-089	35028.36-36	065/010-010	35042.12-54	107/001-008
34963.28-31	062/088-089	34977.07-07	104/089-089	35017.33-33	064/090-090	35029.01-01	065/011-011	35043.00-54	107/009-018
34963.35-38	062/090-091	34977.12-12	104/090-090	35017.38-44	064/091-092	35029.06-06	065/012-012	35044.00-54	107/019-028
34963.42-45	062/092-093	34977.17-17	104/091-091	35017.49-55	064/093-094	35029.31-31	065/013-013	35045.00-54	107/029-038
34963.49-52	062/094-095	34977.22-22	104/092-092	35018.00-06	064/095-096	35029.36-36	065/014-014	35045.50-50	065/065-065
34963.56-59	062/096-097	34978.51-57	063/037-038	35018.11-17	064/097-098	35030.01-01	065/015-015	35046.11-59	065/066-074
34964.03-06	062/098-099	34979.03-03	063/039-039	35018.22-28	064/099-100	35030.06-06	065/016-016	35047.05-59	065/075-084
34964.14-17	062/100-101	34979.21-21	063/040-040	35018.33-33	064/101-101	35030.25-31	065/017-018	35048.05-59	065/085-094
34964.21-24	062/102-103	34979.26-26	063/041-041	35019.29-29	064/102-102	35030.36-36	065/019-019	35049.05-59	065/095-104
34964.28-31	062/104-105	34979.31-31	063/042-042	35019.34-34	064/103-103	35031.01-01	065/020-020	35050.05-59	065/105-114
34964.35-38	062/106-107	34979.36-42	063/043-044	35019.59-59	064/104-104	35031.06-06	065/021-021	35051.05-59	065/115-124
34964.42-45	062/108-109	34994.46-58	063/045-048	35020.04-04	064/105-105	35031.31-31	065/022-022	35052.05-59	066/001-010
34964.49-52	062/110-111	34995.02-58	063/049-063	35020.29-29	064/106-106	35031.36-36	065/023-023	35053.05-59	066/011-020

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35055.05-59	066/031-040	35101.05-59	068/090-099	35138.44-48	070/100-101	35144.17-20	071/047-048	35149.49-53	072/038-039
35056.05-17	066/041-043	35102.11-59	068/100-108	35138.51-55	070/102-103	35144.24-27	071/049-050	35149.56-56	072/040-040
35056.26-26	066/044-044	35103.05-59	068/109-118	35138.58-58	070/104-104	35144.31-34	071/051-052	35150.00-03	072/041-042
35056.31-37	066/045-046	35104.05-59	068/119-128	35139.02-05	070/105-106	35144.38-41	071/053-054	35150.07-10	072/043-044
35056.42-48	066/047-048	35105.05-23	068/129-131	35139.09-12	070/107-108	35144.45-45	071/055-055	35150.14-17	072/045-046
35056.53-59	066/049-050	35105.23-59	069/001-007	35139.16-19	070/109-110	35144.52-55	071/056-057	35150.21-24	072/047-048
35057.04-10	066/051-052	35106.05-59	069/008-017	35139.23-26	070/111-112	35144.59-59	071/058-058	35150.28-31	072/049-050
35057.15-21	066/053-054	35107.05-59	069/018-027	35139.30-33	070/113-114	35145.02-06	071/059-060	35150.35-38	072/051-052
35057.26-26	066/055-055	35108.05-59	069/028-037	35139.37-40	070/115-116	35145.09-13	071/061-062	35150.42-45	072/053-054
35066.20-44	104/115-119	35109.05-59	069/038-047	35139.44-47	070/117-118	35145.16-20	071/063-064	35150.49-52	072/055-056
35066.51-51	066/056-056	35110.05-59	069/048-057	35139.51-54	070/119-120	35145.23-27	071/065-066	35150.56-59	072/057-058
35066.56-56	066/057-057	35111.05-59	069/058-067	35139.58-58	070/121-121	35145.30-34	071/067-068	35151.03-06	072/059-060
35067.55-55	103/028-028	35112.05-59	069/068-077	35140.01-05	070/122-123	35145.37-41	071/069-070	35151.10-13	072/061-062
35068.26-56	066/058-063	35113.05-59	069/078-087	35140.08-12	070/124-124	35145.44-48	071/071-072	35151.17-20	072/063-064
35069.02-56	066/064-073	35114.05-59	069/088-097	35140.12-15	071/001-002	35145.51-55	071/073-074	35151.24-27	072/065-066
35070.02-56	066/074-083	35115.05-59	069/098-107	35140.19-22	071/003-004	35145.58-58	071/075-075	35151.31-34	072/067-068
35071.02-26	066/084-088	35116.05-59	069/108-117	35140.26-29	071/005-006	35146.02-05	071/076-077	35151.38-41	072/069-070
35071.31-31	066/089-089	35117.05-59	069/118-127	35140.33-36	071/007-008	35146.09-12	071/078-079	35151.45-48	072/071-072
35071.36-36	066/090-090	35118.05-53	069/128-136	35140.40-43	071/009-010	35146.16-19	071/080-081	35151.52-55	072/073-074
35071.41-41	066/091-091	35119.48-48	069/137-137	35140.47-50	071/011-012	35146.23-26	071/082-083	35151.59-59	072/075-075
35071.50-56	066/092-093	35119.53-59	069/138-139	35140.54-57	071/013-014	35146.30-33	071/084-085	35152.02-06	072/076-077
35072.02-56	066/094-103	35120.05-35	069/140-144	35141.01-04	071/015-016	35146.37-40	071/086-087	35152.09-13	072/078-079
35073.02-56	066/104-113	35120.35-59	070/001-005	35141.08-11	071/017-018	35146.44-47	071/088-089	35152.16-20	072/080-081
35074.02-56	066/114-123	35121.05-59	070/006-015	35141.15-18	071/019-020	35146.51-54	071/090-091	35152.23-27	072/082-083
35075.02-56	066/124-133	35122.05-59	070/016-025	35141.22-25	071/021-022	35146.58-58	071/092-092	35152.30-34	072/084-085
35076.02-50	066/134-141	35123.05-59	070/026-035	35141.29-32	071/023-024	35147.01-05	071/093-094	35152.37-41	072/086-087
35076.50-56	067/001-002	35124.05-59	070/036-045	35141.36-39	071/104-105	35147.08-12	071/095-096	35152.44-48	072/088-089
35077.02-56	067/003-012	35125.05-53	070/046-054	35141.43-46	071/106-107	35147.15-19	071/097-098	35152.51-51	072/090-090
35078.02-56	067/013-022	35135.31-40	070/055-058	35141.50-53	071/108-109	35147.22-26	071/099-100	35161.59-59	083/105-105
35079.02-56	067/023-032	35135.46-49	070/059-060	35141.57-57	071/110-110	35147.29-33	071/101-102	35161.59-59	083/110-110
35080.02-56	067/033-042	35135.53-56	070/061-062	35142.00-04	071/111-112	35147.36-36	071/103-103	35162.08-17	083/106-109
35081.02-56	067/043-052	35136.00-03	070/063-064	35142.07-11	071/113-114	35147.40-43	072/001-002	35162.26-29	072/091-092
35082.02-50	067/053-061	35136.07-10	070/065-066	35142.14-18	071/115-116	35147.47-50	072/003-004	35162.33-36	072/093-094
35082.05-05	067/062-062	35136.14-17	070/067-068	35142.21-25	071/117-118	35147.54-57	072/005-006	35162.40-43	072/095-096
35083.02-56	067/063-072	35136.21-24	070/069-070	35142.28-32	071/119-120	35148.01-04	072/007-008	35162.47-50	072/097-098
35084.02-56	067/073-082	35136.28-31	070/071-072	35142.35-39	071/121-122	35148.08-11	072/009-010	35162.54-57	072/099-100
35085.02-56	067/083-092	35136.35-38	070/073-074	35142.42-46	071/123-124	35148.15-18	072/011-012	35163.01-04	072/101-102
35086.02-56	067/093-102	35136.42-45	070/075-076	35142.49-53	071/125-126	35148.22-25	072/013-014	35163.08-11	072/103-104
35087.02-56	067/103-112	35136.49-52	070/077-078	35142.56-56	071/127-127	35148.29-32	072/015-016	35163.15-18	072/105-106
35088.02-56	067/113-122	35136.56-59	070/079-080	35143.00-03	071/025-026	35148.36-39	072/017-018	35163.22-25	072/107-108
35089.38-56	068/001-004	35137.03-06	070/081-082	35143.07-10	071/027-028	35148.43-46	072/019-020	35163.29-32	072/109-110
35090.02-56	068/005-014	35137.45-48	070/083-084	35143.14-17	071/029-030	35148.50-53	072/021-022	35163.36-39	072/111-112
35091.02-56	068/015-024	35137.52-55	070/085-086	35143.21-24	071/031-032	35148.57-57	072/023-023	35163.43-46	072/113-114
35092.02-56	068/025-034	35137.59-59	070/087-087	35143.28-31	071/033-034	35149.00-04	072/024-025	35163.50-53	072/115-116
35093.02-56	068/035-044	35138.02-06	070/088-089	35143.35-38	071/035-036	35149.07-11	072/026-027	35163.57-57	072/117-117
35094.02-56	068/045-054	35138.09-13	070/090-091	35143.42-45	071/037-038	35149.14-18	072/028-029	35164.00-04	072/118-119
35095.02-44	068/055-062	35138.16-20	070/092-093	35143.49-52	071/039-040	35149.21-25	072/030-031	35164.07-11	072/120-121
35098.23-59	068/063-069	35138.23-27	070/094-095	35143.56-59	071/041-042	35149.28-32	072/032-033	35164.14-18	072/122-123
35099.05-59	068/070-079	35138.30-34	070/096-097	35144.03-06	071/043-044	35149.35-39	072/034-035	35164.21-25	072/124-125

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35164.28-32	072/126-127	35170.01-04	073/089-090	35175.44-47	074/042-043	35193.30-33	075/009-010	35199.02-06	075/104-105
35164.35-39	072/128-129	35170.08-11	073/091-092	35175.51-54	074/044-045	35193.37-40	075/011-012	35199.09-13	075/106-107
35164.42-46	072/130-131	35170.15-18	073/093-094	35175.58-58	074/046-046	35193.44-47	075/013-014	35199.16-20	075/108-109
35164.49-53	072/132-132	35170.22-25	073/095-096	35176.01-05	074/047-048	35193.51-54	075/015-016	35199.23-27	075/110-111
35164.53-56	073/001-002	35170.32-36	073/097-098	35176.08-12	074/049-050	35193.58-58	075/017-017	35199.30-34	075/112-113
35165.00-03	073/003-004	35170.39-43	073/099-100	35176.15-19	074/051-052	35194.01-05	075/018-019	35199.37-41	075/114-115
35165.07-10	073/005-006	35170.46-50	073/101-102	35176.22-26	074/053-054	35194.08-12	075/020-021	35199.44-48	075/116-117
35165.14-17	073/007-008	35170.53-57	073/103-104	35176.29-33	074/055-056	35194.15-19	075/022-023	35199.51-55	075/118-119
35165.21-24	073/009-010	35171.00-04	073/105-106	35176.36-40	074/057-058	35194.22-26	075/024-025	35199.58-58	075/120-120
35165.28-31	073/011-012	35171.07-11	073/107-108	35176.43-47	074/059-060	35194.29-33	075/026-027	35200.02-05	075/121-122
35165.35-38	073/013-014	35171.14-18	073/109-110	35176.50-54	074/061-062	35194.36-40	075/028-029	35200.09-12	075/123-124
35165.42-45	073/015-016	35171.21-25	073/111-112	35176.57-57	074/063-063	35194.43-47	075/030-031	35200.16-19	075/125-126
35165.49-52	073/017-018	35171.28-32	073/113-114	35177.01-04	074/064-065	35194.50-54	075/032-033	35200.23-26	075/127-128
35165.56-59	073/019-020	35171.35-39	073/115-116	35177.08-11	074/066-067	35194.57-57	075/034-034	35200.30-33	075/129-130
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35355.17-20	080/063-064	35360.49-53	084/026-027	35381.23-26	084/140-141	35386.59-59	085/092-092	35392.28-31	086/054-055
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35355.31-34	080/067-068	35361.00-03	084/029-030	35381.37-40	084/144-144	35387.09-13	085/095-096	35392.42-45	086/058-059
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35355.52-55	080/073-074	35361.21-24	084/035-036	35381.54-58	085/005-006	35387.30-34	085/101-102	35394.20-23	086/072-073
35355.59-59	080/075-075	35361.28-31	084/037-038	35382.01-05	085/007-008	35387.37-41	085/103-104	35394.27-30	086/074-075
35356.02-06	080/076-077	35361.35-38	084/039-040	35382.08-12	085/009-010	35387.44-48	085/105-106	35394.35-44	086/076-079
35356.09-13	080/078-079	35361.42-45	084/041-042	35382.15-19	085/011-012	35387.51-55	085/107-108	35409.04-07	086/084-085
35356.16-20	080/080-081	35361.49-52	084/043-044	35382.22-26	085/013-014	35387.58-58	085/109-109	35409.11-14	086/086-087
35356.23-27	080/082-083	35361.56-59	084/045-046	35382.29-33	085/015-016	35388.02-05	085/110-111	35409.18-21	086/088-089
35356.30-34	080/084-085	35362.03-06	084/047-048	35382.36-40	085/017-018	35388.09-12	085/112-113	35409.25-28	086/090-091
35356.37-41	080/086-087	35362.10-13	084/049-050	35382.43-47	085/019-020	35388.16-19	085/114-115	35409.32-35	086/092-093
35356.44-48	080/088-089	35362.17-20	084/051-052	35382.50-54	085/021-022	35388.23-26	085/116-117	35409.39-42	086/094-095
35356.51-55	080/090-091	35362.24-27	084/053-054	35382.57-57	085/023-023	35388.30-33	085/118-119	35409.46-49	086/096-097
35356.58-58	080/092-092	35362.31-34	084/055-056	35383.01-04	085/024-025	35388.37-40	085/120-121	35409.53-56	086/098-099
35357.02-05	080/093-094	35362.38-41	084/057-058	35383.08-11	085/026-027	35388.44-47	085/122-123	35410.00-03	086/100-101
35357.09-12	080/095-096	35362.45-48	084/059-060	35383.15-18	085/028-029	35388.51-54	085/124-125	35410.07-10	086/102-103
35357.16-19	080/097-098	35362.52-55	084/061-062	35383.22-25	085/030-031	35388.58-58	085/126-126	35410.11-11	086/112-112
35357.23-26	080/099-100	35362.59-59	084/063-063	35383.29-32	085/032-033	35389.01-05	085/127-128	35410.14-17	086/104-105
35357.30-33	080/101-102	35363.02-06	084/064-065	35383.36-39	085/034-035	35389.08-12	085/129-130	35410.21-24	086/106-107
35357.37-40	080/103-104	35363.09-13	084/066-067	35383.43-46	085/036-037	35389.15-19	085/131-132	35410.28-31	086/108-109
35357.44-47	080/105-106	35363.16-20	084/068-069	35383.50-53	085/038-039	35389.22-26	086/001-002	35410.35-38	086/110-111

FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID
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35410.59-59	086/117-117	35416.28-32	087/070-071	35422.01-04	088/033-034	35441.57-57	088/135-135	35447.30-33	089/086-087
35411.03-06	086/118-119	35416.35-39	087/072-073	35422.08-11	088/035-036	35442.01-04	088/136-137	35447.37-40	089/088-089
35411.10-13	086/120-121	35416.42-46	087/074-075	35422.15-18	088/037-038	35442.08-11	088/138-139	35447.44-47	089/090-091
35411.17-20	086/122-123	35416.49-53	087/076-077	35422.22-25	088/039-040	35442.15-18	088/140-141	35447.51-54	089/092-093
35411.24-27	086/124-125	35416.56-56	087/078-078	35422.29-32	088/041-042	35442.22-25	088/142-143	35447.58-58	089/094-094
35411.31-34	086/126-127	35417.00-03	087/079-080	35422.36-39	088/043-044	35442.29-32	088/144-144	35448.01-05	089/095-096
35411.38-41	086/128-129	35417.07-10	087/081-082	35422.43-46	088/045-046	35442.32-36	089/001-002	35448.08-12	089/097-098
35411.45-48	086/130-131	35417.14-17	087/083-084	35422.50-53	088/047-048	35442.39-43	089/003-004	35448.15-19	089/099-100
35411.52-55	086/132-133	35417.21-24	087/085-086	35422.57-57	088/049-049	35442.46-50	089/005-006	35448.22-26	089/101-102
35411.59-59	086/134-134	35417.28-31	087/087-088	35423.00-04	088/050-051	35442.53-57	089/007-008	35448.29-33	089/103-104
35412.02-06	086/135-136	35417.35-38	087/089-090	35423.07-11	088/052-053	35443.00-04	089/009-010	35448.36-40	089/105-106
35412.09-13	086/137-138	35417.42-45	087/091-092	35423.14-18	088/054-055	35443.07-11	089/011-012	35448.43-47	089/107-108
35412.16-20	086/139-140	35417.49-52	087/093-094	35423.21-25	088/056-057	35443.14-18	089/013-014	35448.50-54	089/109-110
35412.23-27	086/141-141	35417.56-59	087/095-096	35423.28-32	088/058-059	35443.21-25	089/015-016	35448.57-57	089/111-111
35412.27-30	087/001-002	35418.03-06	087/097-098	35423.35-39	088/060-061	35443.28-32	089/017-018	35449.01-04	089/112-113
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35412.41-44	087/005-006	35418.17-20	087/101-102	35423.49-53	088/064-065	35443.42-46	089/021-022	35449.11-11	089/120-120
35412.48-51	087/007-008	35418.24-27	087/103-104	35423.56-58	088/066-067	35443.49-53	089/023-024	35449.15-18	089/116-117
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35413.23-26	087/017-018	35418.59-59	087/113-113	35424.29-38	088/076-079	35444.21-24	089/032-033	35449.53-57	089/127-128
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35413.37-40	087/021-022	35419.09-13	087/116-117	35439.02-06	088/085-086	35444.35-38	089/036-037	35450.07-11	089/131-132
35413.44-47	087/023-024	35419.16-20	087/118-119	35439.09-13	088/087-088	35444.42-45	089/038-039	35450.14-18	089/133-133
35413.51-54	087/025-026	35419.23-27	087/120-121	35439.16-20	088/089-090	35444.49-52	089/040-041	35450.18-21	090/001-002
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35414.01-05	087/028-029	35419.37-41	087/124-125	35439.30-34	088/093-094	35445.03-06	089/044-045	35450.32-35	090/005-006
35414.08-12	087/030-031	35419.44-48	087/126-127	35439.37-41	088/095-096	35445.10-13	089/046-047	35450.39-42	090/007-008
35414.15-19	087/032-033	35419.51-55	087/128-129	35439.44-48	088/097-098	35445.17-20	089/048-049	35450.46-49	090/009-010
35414.22-26	087/034-035	35419.58-58	087/130-130	35439.51-55	088/099-100	35445.24-27	089/050-051	35450.53-56	090/011-012
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35414.36-40	087/038-039	35420.09-12	088/001-002	35440.02-05	088/102-103	35445.38-41	089/054-055	35451.07-10	090/015-016
35414.43-47	087/040-041	35420.16-19	088/003-004	35440.09-12	088/104-105	35445.45-48	089/056-057	35451.14-17	090/017-018
35414.50-54	087/042-043	35420.23-26	088/005-006	35440.16-19	088/106-107	35445.52-55	089/058-059	35451.21-24	090/019-020
35414.57-57	087/044-044	35420.30-33	088/007-008	35440.23-26	088/108-109	35445.59-59	089/060-060	35451.28-31	090/021-022
35415.01-04	087/045-046	35420.37-40	088/009-010	35440.30-33	088/110-111	35446.02-06	089/061-062	35451.35-38	090/023-024
35415.08-11	087/047-048	35420.44-47	088/011-012	35440.37-40	088/112-113	35446.09-13	089/063-064	35451.42-45	090/025-026
35415.15-18	087/049-050	35420.51-54	088/013-014	35440.44-47	088/114-115	35446.16-20	089/065-066	35451.49-52	090/027-028
35415.22-25	087/051-052	35420.58-58	088/015-015	35440.51-54	088/116-117	35446.23-27	089/067-068	35451.56-59	090/029-030
35415.29-32	087/053-054	35421.01-05	088/016-017	35440.58-58	088/118-118	35446.30-34	089/069-070	35452.03-06	090/031-032
35415.36-39	087/055-056	35421.08-12	088/018-019	35441.01-05	088/119-120	35446.37-41	089/071-072	35452.10-13	090/033-034
35415.43-46	087/057-058	35421.15-19	088/020-021	35441.08-12	088/121-122	35446.44-48	089/073-074	35452.17-20	090/035-036
35415.50-53	087/059-060	35421.22-26	088/022-023	35441.15-19	088/123-124	35446.55-58	089/076-077	35452.24-27	090/037-038
35415.57-57	087/061-061	35421.29-33	088/024-025	35441.22-26	088/125-126	35446.57-57	089/075-075	35452.31-34	090/039-040
35416.00-04	087/062-063	35421.36-40	088/026-027	35441.29-33	088/127-128	35447.02-05	089/078-079	35452.38-41	090/041-042
35416.07-11	087/064-065	35421.43-47	088/028-029	35441.36-40	088/129-130	35447.09-12	089/080-081	35452.45-48	090/043-044

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35452.59-59	090/047-047	35472.51-54	091/015-016	35478.23-27	091/110-111	35483.56-56	092/073-073	35503.37-41	093/025-026
35453.02-06	090/048-049	35472.58-58	091/017-017	35478.30-34	091/112-113	35484.02-02	092/079-079	35503.44-48	093/027-028
35453.09-13	090/050-051	35473.01-05	091/018-019	35478.37-41	091/114-115	35484.03-06	092/074-075	35503.51-55	093/029-030
35453.16-20	090/052-053	35473.08-12	091/020-021	35478.44-48	091/116-117	35484.10-13	092/076-077	35503.58-58	093/031-031
35453.23-27	090/054-055	35473.15-19	091/022-023	35478.51-55	091/118-119	35484.18-18	092/078-078	35504.02-05	093/032-033
35453.30-34	090/056-057	35473.22-26	091/024-025	35478.58-58	091/120-120	35484.24-27	092/080-081	35504.09-12	093/034-035
35453.37-41	090/058-059	35473.29-33	091/026-027	35479.02-05	091/121-122	35484.49-58	092/082-085	35504.16-19	093/036-037
35453.44-48	090/060-061	35473.36-40	091/028-029	35479.09-12	091/123-124	35498.47-50	092/086-087	35504.23-26	093/038-039
35453.51-59	090/062-064	35473.43-47	091/030-031	35479.16-19	091/125-126	35498.54-57	092/088-089	35504.30-33	093/040-041
35454.02-05	090/065-066	35473.50-54	091/032-033	35479.23-26	091/127-128	35499.01-04	092/090-091	35504.37-40	093/042-043
35454.09-12	090/067-068	35473.57-57	091/034-034	35479.30-33	091/129-130	35499.08-11	092/092-093	35504.44-47	093/044-045
35454.16-19	090/069-070	35474.01-04	091/035-036	35479.37-40	091/131-132	35499.15-18	092/094-095	35504.51-54	093/046-047
35454.24-33	090/071-074	35474.08-11	091/037-038	35479.44-47	092/001-002	35499.22-25	092/096-097	35504.58-58	093/048-048
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35455.01-04	090/077-078	35474.22-25	091/041-042	35479.58-58	092/005-005	35499.36-39	092/100-101	35505.08-12	093/051-052
35468.53-56	090/079-080	35474.29-32	091/043-044	35480.01-05	092/006-007	35499.43-46	092/102-103	35505.15-19	093/053-054
35469.00-03	090/081-082	35474.36-39	091/045-046	35480.08-12	092/008-009	35499.50-53	092/104-105	35505.22-26	093/055-056
35469.07-10	090/083-084	35474.43-46	091/047-048	35480.15-19	092/010-011	35499.57-57	092/106-106	35505.29-33	093/057-058
35469.14-17	090/085-086	35474.50-53	091/049-050	35480.22-26	092/012-013	35500.00-04	092/107-108	35505.36-40	093/059-060
35469.21-24	090/087-088	35474.57-57	091/051-051	35480.29-33	092/014-015	35500.07-11	092/109-110	35505.43-47	093/061-062
35469.28-31	090/089-090	35475.00-04	091/052-053	35480.36-40	092/016-017	35500.14-18	092/111-112	35505.50-54	093/063-064
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35469.42-45	090/093-094	35475.14-18	091/056-057	35480.50-54	092/020-021	35500.28-32	092/115-116	35506.01-04	093/066-067
35469.49-52	090/095-096	35475.21-25	091/058-059	35480.57-57	092/022-022	35500.35-39	092/117-118	35506.08-11	093/068-069
35469.56-59	090/097-098	35475.28-32	091/060-061	35481.01-04	092/023-024	35500.42-46	092/119-120	35506.15-18	093/070-071
35470.03-06	090/099-100	35475.35-39	091/062-063	35481.08-11	092/025-026	35500.49-53	092/121-122	35506.22-25	093/072-073
35470.10-13	090/101-102	35475.42-46	091/064-065	35481.15-18	092/027-028	35500.56-56	092/123-123	35506.29-32	093/074-075
35470.17-20	090/103-104	35475.49-53	091/066-067	35481.22-25	092/029-030	35501.00-03	092/124-125	35506.36-39	093/076-077
35470.24-27	090/105-106	35475.56-56	091/068-068	35481.29-32	092/031-032	35501.07-10	092/126-127	35506.43-46	093/078-079
35470.31-34	090/107-108	35476.00-03	091/069-070	35481.36-39	092/033-034	35501.14-17	092/128-129	35506.50-53	093/080-081
35470.38-41	090/109-110	35476.07-10	091/071-072	35481.43-46	092/035-036	35501.21-24	092/130-131	35506.57-57	093/082-082
35470.45-48	090/111-112	35476.14-17	091/073-074	35481.50-53	092/037-038	35501.28-31	092/132-133	35507.00-04	093/083-084
35470.52-55	090/113-114	35476.21-24	091/075-076	35481.57-57	092/039-039	35501.35-38	092/134-135	35507.07-11	093/085-086
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35471.16-20	090/120-121	35476.49-52	091/083-084	35482.21-25	092/046-047	35502.03-06	092/142-143	35507.35-39	093/093-094
35471.23-27	090/122-123	35476.56-59	091/085-086	35482.28-32	092/048-049	35502.10-13	092/144-144	35507.42-46	093/095-096
35471.30-34	090/124-125	35477.03-06	091/087-088	35482.35-39	092/050-051	35502.13-17	093/001-002	35507.49-53	093/097-098
35471.37-41	090/126-127	35477.10-13	091/089-090	35482.42-46	092/052-053	35502.20-24	093/003-004	35507.56-56	093/099-099
35471.44-48	090/128-129	35477.17-20	091/091-092	35482.49-53	092/054-055	35502.27-31	093/005-006	35508.00-03	093/100-101
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35471.58-58	090/132-132	35477.31-34	091/095-096	35483.00-03	092/057-058	35502.41-45	093/009-010	35508.14-17	093/104-105
35472.02-05	091/001-002	35477.38-41	091/097-098	35483.07-10	092/059-060	35502.48-52	093/011-012	35508.21-24	093/106-107
35472.09-12	091/003-004	35477.45-48	091/099-100	35483.14-17	092/061-062	35502.55-59	093/013-014	35508.28-31	093/108-109
35472.16-19	091/005-006	35477.52-55	091/101-102	35483.21-24	092/063-064	35503.02-06	093/015-016	35508.35-38	093/110-111
35472.23-26	091/007-008	35477.59-59	091/103-103	35483.28-31	092/065-066	35503.09-13	093/017-018	35508.42-45	093/112-113
35472.30-33	091/009-010	35478.02-06	091/104-105	35483.35-38	092/067-068	35503.16-20	093/019-020	35508.49-52	093/114-115
35472.37-40	091/011-012	35478.09-13	091/106-107	35483.42-45	092/069-070	35503.23-27	093/021-022	35508.56-59	093/116-117

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35509.10-13	093/120-121	35519.38-41	084/110-111	35533.45-48	095/034-035	35539.07-10	096/004-005	35545.01-01	096/097-097
35509.17-20	093/122-123	35519.45-48	084/112-113	35533.52-55	095/036-037	35539.14-17	096/006-007	35545.06-12	096/098-099
35509.24-27	093/124-125	35519.52-55	084/114-115	35533.59-59	095/038-038	35539.21-24	096/008-009	35545.17-17	096/100-100
35509.31-34	093/126-127	35519.59-59	084/116-116	35534.02-06	095/039-040	35539.28-31	096/010-011	35545.29-38	096/101-104
35509.36-41	093/128-129	35528.37-40	094/077-078	35534.09-13	095/041-042	35539.35-38	096/012-013	35558.36-39	096/105-106
35509.45-48	093/130-131	35528.44-47	094/079-080	35534.16-20	095/043-044	35539.42-45	096/014-015	35558.43-46	096/107-108
35509.52-55	094/001-002	35528.51-54	094/081-082	35534.23-27	095/045-046	35539.49-52	096/016-017	35558.50-53	096/109-110
35509.59-59	094/003-003	35528.58-58	094/083-083	35534.30-34	095/047-048	35539.56-59	096/018-019	35558.57-57	096/111-111
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35510.23-27	094/010-011	35529.22-26	094/090-091	35534.58-58	095/055-055	35540.24-27	096/026-027	35559.21-25	096/118-119
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35510.44-48	094/016-017	35529.43-47	094/096-097	35535.16-19	095/060-061	35540.45-48	096/032-033	35559.42-46	096/124-125
35510.51-55	094/018-019	35529.50-54	094/098-099	35535.23-26	095/062-063	35540.52-55	096/034-035	35559.49-53	096/126-127
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35511.23-26	094/027-028	35530.22-25	094/107-108	35535.58-58	095/072-072	35541.23-27	096/043-044	35560.21-24	096/135-136
35511.30-33	094/029-030	35530.29-32	094/109-110	35536.01-05	095/073-074	35541.30-34	096/045-046	35560.28-31	096/137-138
35511.37-40	094/031-032	35530.36-39	094/111-112	35536.08-12	095/075-076	35541.37-41	096/047-048	35560.35-38	096/139-140
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35512.50-54	094/051-052	35531.42-46	094/130-131	35537.15-18	095/094-095	35542.44-47	096/066-067	35561.59-59	097/019-019
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35514.21-25	094/075-076	35533.10-13	095/024-025	35538.39-42	095/119-120	35544.08-11	096/089-090	35563.23-26	097/043-044
35519.10-13	084/102-103	35533.17-20	095/026-027	35538.46-49	095/121-122	35544.15-18	096/091-092	35563.30-33	097/045-046
35519.17-20	084/104-105	35533.24-27	095/028-029	35538.53-56	095/123-123	35544.22-25	096/093-094	35563.37-40	097/047-048
35519.24-27	084/106-107	35533.31-34	095/030-031	35538.56-56	096/001-001	35544.50-50	096/095-095	35563.44-47	097/049-050

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35564.29-33	097/062-063	35570.02-05	098/025-026	35589.33-36	107/114-115	35595.09-12	108/088-089	35600.45-48	109/051-052
35564.36-40	097/064-065	35570.09-12	098/027-028	35589.40-43	107/116-117	35595.16-19	108/090-091	35600.48-48	109/050-050
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35569.16-20	098/012-013	35588.44-47	107/100-101	35594.23-27	108/075-076	35599.56-59	109/037-038	35619.21-24	109/133-134

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35619.42-45	109/139-140	35625.14-18	110/090-091	35630.50-54	111/054-055	35650.25-25	112/024-024	35656.43-47	112/115-116
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35619.56-59	109/143-144	35625.28-32	110/094-095	35631.01-04	111/057-058	35650.39-42	112/025-026	35656.57-57	112/119-119
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35620.10-13	110/003-004	35625.42-46	110/098-099	35631.15-18	111/061-062	35650.53-53	112/029-029	35657.08-11	112/122-123
35620.17-20	110/005-006	35625.49-53	110/100-101	35631.22-25	111/063-064	35651.08-10	112/030-031	35657.15-18	112/124-125
35620.24-27	110/007-008	35625.56-56	110/102-102	35631.29-32	111/065-066	35651.14-17	112/032-033	35657.22-25	112/126-127
35620.31-34	110/009-010	35626.00-03	110/103-104	35631.36-39	111/067-068	35651.21-24	112/034-035	35657.29-32	112/128-129
35620.38-41	110/011-012	35626.07-10	110/105-106	35631.43-46	111/069-070	35651.28-31	112/036-037	35657.36-39	113/001-002
35620.45-48	110/013-014	35626.14-17	110/107-108	35631.50-53	111/071-072	35651.35-38	112/038-039	35657.43-46	113/003-004
35620.52-55	110/015-016	35626.21-24	110/109-110	35631.57-57	111/073-073	35651.42-45	112/040-041	35657.50-53	113/005-006
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35621.16-20	110/022-023	35626.49-52	110/117-118	35632.21-25	111/080-081	35652.10-13	112/048-049	35658.14-18	113/012-013
35621.23-27	110/024-025	35626.56-59	110/119-120	35632.28-32	111/082-083	35652.17-20	112/050-051	35658.21-25	113/014-015
35621.30-34	110/026-027	35627.03-06	110/121-122	35632.39-42	111/085-086	35652.24-27	112/052-053	35658.28-32	113/016-017
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35621.44-48	110/030-031	35627.17-20	110/125-126	35632.53-56	111/089-090	35652.38-41	112/056-057	35658.42-46	113/020-021
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35718.38-41	117/037-038	35738.16-19	117/137-138	35743.52-55	118/089-090	35749.21-24	119/051-052	35768.52-55	120/017-018
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35718.59-59	117/043-043	35738.37-40	117/143-144	35744.09-13	118/094-095	35749.42-45	119/057-058	35769.09-13	120/022-023
35719.02-06	117/044-045	35738.44-47	118/001-002	35744.16-20	118/096-097	35749.49-52	119/059-060	35769.16-20	120/024-025
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35722.57-57	117/111-111	35742.21-24	118/063-064	35747.57-57	119/027-027	35753.29-33	119/122-123	35772.57-57	120/087-087
35723.00-04	117/112-113	35742.28-31	118/065-066	35748.00-04	119/028-029	35753.36-40	119/124-125	35773.00-04	120/088-089
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35723.21-25	117/118-119	35742.49-50	118/071-072	35748.21-25	119/034-035	35754.12-21	119/129-132	35773.21-25	120/094-095
35723.28-32	117/120-121	35742.56-59	118/073-074	35748.28-32	119/036-037	35767.56-59	120/001-002	35773.28-32	120/096-097
35723.35-39	117/122-123	35743.03-06	118/075-076	35748.35-39	119/038-039	35768.03-06	120/003-004	35773.35-39	120/098-099

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35774.07-10	120/107-108	35779.50-53	121/072-073	35799.01-04	122/024-025	35804.37-40	122/120-121	35810.09-13	123/084-085
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35774.21-24	120/111-112	35780.00-04	121/075-076	35799.15-18	122/028-029	35804.51-54	122/124-125	35810.23-27	123/088-089
35774.28-31	120/113-114	35780.07-11	121/077-078	35799.22-25	122/030-031	35804.58-58	122/126-126	35810.30-34	123/090-091
35774.35-38	120/115-116	35780.14-18	121/079-080	35799.29-32	122/032-033	35805.01-05	122/127-128	35810.37-41	123/092-093
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35776.58-58	121/023-023	35782.31-34	121/118-119	35801.42-45	122/070-071	35807.14-18	123/034-035	35812.50-54	123/130-131
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35777.09-12	121/026-027	35782.45-48	121/122-123	35801.56-59	122/074-075	35807.28-32	123/038-039	35813.01-04	124/001-002
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35777.23-26	121/030-031	35782.59-59	121/126-126	35802.10-13	122/078-079	35807.42-46	123/042-043	35813.15-18	124/005-006
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35831.01-04	124/053-054	35836.37-40	125/017-018	35842.09-13	125/112-113	35862.14-17	126/065-066	35867.50-53	127/029-030
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35831.15-18	124/057-058	35836.51-54	125/021-022	35842.23-27	125/116-117	35862.28-31	126/069-070	35868.00-04	127/032-033
35831.22-25	124/059-060	35836.58-58	125/023-023	35842.30-34	125/118-119	35862.35-38	126/071-072	35868.07-11	127/034-035
35831.29-32	124/061-062	35837.01-05	125/024-025	35842.37-41	125/120-121	35862.42-45	126/073-074	35868.14-18	127/036-037
35831.36-39	124/063-064	35837.08-12	125/026-027	35842.44-48	125/122-123	35862.49-52	126/075-076	35868.21-25	127/038-039
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35831.50-53	124/067-068	35837.22-26	125/030-031	35842.58-58	125/126-126	35863.03-06	126/079-080	35868.28-32	127/040-041
35831.57-57	124/069-069	35837.29-33	125/032-033	35843.02-05	125/127-128	35863.10-13	126/081-082	35868.32-35	127/063-064
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35832.14-18	124/074-075	35837.50-54	125/038-039	35857.55-58	125/135-136	35863.31-34	126/087-088	35868.42-46	127/044-045
35832.21-25	124/076-077	35837.57-57	125/040-040	35858.02-05	125/137-138	35863.38-41	126/089-090	35868.46-49	127/067-068
35832.28-32	124/078-079	35838.01-04	125/041-042	35858.09-12	125/139-140	35863.45-48	126/091-092	35868.49-53	127/046-047
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35832.42-46	124/082-083	35838.15-18	125/045-046	35858.23-26	125/143-144	35863.59-59	126/095-095	35868.56-56	127/048-048
35832.49-53	124/084-085	35838.22-25	125/047-048	35858.30-33	126/001-002	35864.02-06	126/096-097	35869.00-03	127/049-050
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35833.14-17	124/091-092	35838.50-53	125/055-056	35858.58-58	126/009-009	35864.30-34	126/104-105	35869.14-17	127/053-054
35833.21-24	124/093-094	35838.57-57	125/057-057	35859.01-05	126/010-011	35864.37-41	126/106-107	35869.14-17	127/075-076
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35835.09-13	124/124-125	35840.42-45	125/087-088	35860.50-53	126/041-042	35866.19-22	127/003-004	35870.52-55	127/103-104
35835.16-20	124/126-127	35840.49-52	125/089-090	35860.57-57	126/043-043	35866.26-29	127/005-006	35870.59-59	127/105-105
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35871.51-55	127/120-121	35894.36-40	128/097-098	35900.09-12	129/062-063	35920.07-11	130/013-014	35926.08-11	130/109-110
35871.58-58	127/122-122	35894.43-47	128/099-100	35900.16-19	129/064-065	35920.14-18	130/015-016	35926.15-18	130/111-112
35872.02-05	127/123-124	35894.50-54	128/101-102	35900.23-26	129/066-067	35920.21-25	130/017-018	35926.22-25	130/113-114
35872.09-12	127/125-126	35894.57-57	128/103-103	35900.30-33	129/068-069	35920.32-35	130/019-020	35926.29-32	130/115-116
35872.16-19	127/127-128	35895.01-04	128/104-105	35900.37-40	129/070-071	35920.39-42	130/021-022	35926.36-39	130/117-118
35872.23-26	127/129-130	35895.08-11	128/106-107	35900.44-47	129/072-073	35920.46-49	130/023-024	35926.43-46	130/119-120
35872.30-33	127/131-132	35895.15-18	128/108-109	35900.51-54	129/074-075	35920.53-56	130/025-026	35926.50-53	130/121-122
35872.37-40	128/001-002	35895.22-25	128/110-111	35900.58-58	129/076-076	35921.00-03	130/027-028	35926.57-57	130/123-123
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43261.34-34	159/116-116	43272.25-29	160/079-080	43288.12-15	161/059-060	43301.34-38	162/010-011	43317.25-28	162/118-119
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43330.15-19	163/088-089	43344.02-05	164/056-057	43357.20-20	165/035-035	43372.53-57	165/137-138	43388.46-50	166/125-126
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43471.05-05	171/074-074	43483.24-24	194/062-062	43495.07-07	172/137-137	43506.21-21	201/074-074	43521.57-57	194/064-064
43471.10-10	171/075-075	43483.35-35	172/051-051	43496.25-45	172/138-143	43507.54-57	173/102-103	43523.23-31	174/057-059
43471.15-27	171/076-078	43483.38-46	172/046-048	43496.53-57	172/144-144	43508.01-05	173/104-105	43523.34-37	174/060-061
43471.32-32	171/079-079	43483.49-52	172/049-050	43496.57-57	173/001-001	43508.08-11	173/106-107	43523.41-45	174/062-063
43471.37-49	171/080-082	43484.00-06	172/052-054	43497.01-07	173/002-004	43508.15-19	173/108-109	43523.48-51	174/064-065
43471.54-54	171/083-083	43484.10-14	172/055-056	43497.11-15	173/005-006	43508.22-22	173/110-110	43523.55-59	174/066-067
43471.59-59	171/084-084	43484.17-20	172/057-058	43497.18-21	173/007-008	43509.48-56	173/111-113	43524.02-05	174/068-069

43525.43-43 195/018-018

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43526.02-10	174/073-075	43536.56-56	175/044-044	43550.32-35	176/011-012	43564.45-48	176/114-115	43576.27-35	177/080-082
43526.13-16	174/076-077	43537.00-06	175/045-047	43550.39-43	176/013-014	43564.52-55	176/116-117	43576.38-50	177/083-086
43526.20-24	174/078-079	43537.10-14	175/048-049	43550.46-46	176/015-015	43564.59-59	176/118-118	43576.53-57	177/087-088
43526.27-30	174/080-081	43537.17-20	175/050-051	43552.04-24	176/016-021	43565.02-06	176/119-120	43577.01-05	177/089-090
43526.34-38	174/082-083	43537.24-28	175/052-053	43552.32-40	176/022-024	43565.09-09	176/121-121	43577.08-20	177/091-094
43526.41-44	174/084-085	43537.31-31	175/054-054	43552.43-46	176/025-026	43565.25-45	202/001-006	43577.23-23	177/095-095
43526.48-52	174/086-087	43538.53-57	175/055-056	43552.50-54	176/027-028	43565.51-59	176/122-124	43578.53-53	193/094-094
43526.55-55	174/088-088	43539.01-05	175/057-058	43552.57-57	176/029-029	43566.02-14	176/125-128	43579.06-14	177/096-098
43527.14-14	193/093-093	43539.17-25	175/059-061	43553.00-08	176/030-032	43566.17-29	176/129-132	43579.17-29	177/099-102
43528.41-49	174/089-091	43539.28-31	175/062-063	43553.11-14	176/033-034	43566.32-44	176/133-135	43579.32-44	177/103-106
43528.52-55	174/092-093	43539.35-39	175/064-065	43553.18-22	176/035-036	43566.44-47	177/001-002	43579.47-59	177/107-110
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43529.03-09	174/095-097	43539.49-53	175/068-069	43554.52-52	192/135-135	43567.59-59	177/005-005	43581.07-10	177/112-113
43529.13-17	174/098-099	43539.56-59	175/070-071	43555.11-19	176/038-040	43568.02-06	177/006-007	43581.14-17	177/114-115
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43529.27-31	174/102-103	43540.10-10	175/074-074	43555.29-33	176/043-044	43568.16-20	177/010-011	43581.28-31	177/118-119
43529.34-34	174/104-104	43541.56-56	175/075-075	43555.36-39	176/045-046	43568.23-23	177/012-012	43581.35-38	177/120-121
43529.44-56	174/105-108	43542.00-04	175/076-077	43555.43-43	176/047-047	43568.30-38	177/013-015	43581.45-53	177/122-124
43530.00-04	174/109-110	43542.07-10	175/078-079	43555.43-47	176/048-049	43568.41-53	177/016-019	43581.56-56	177/125-125
43530.23-35	174/111-113	43542.14-18	175/080-081	43555.47-50	176/050-051	43568.56-56	177/020-020	43582.00-08	177/126-128
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43530.45-57	174/115-117	43542.28-32	175/084-085	43555.53-57	176/054-055	43569.11-23	177/024-027	43582.26-38	177/133-136
43531.02-02	174/118-118	43542.35-38	175/086-087	43556.01-04	176/056-057	43569.26-26	177/028-028	43582.41-41	177/137-137
43531.07-19	174/119-121	43542.42-46	175/088-089	43557.22-42	176/058-063	43570.01-21	173/089-094	43584.11-11	193/022-022
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43531.29-41	174/123-125	43544.07-27	175/091-096	43558.01-04	176/067-068	43570.31-34	177/029-030	43584.35-47	177/141-144
43531.46-46	174/126-126	43544.35-43	175/097-099	43558.08-12	176/069-070	43570.38-41	177/031-032	43584.50-58	178/001-003
43531.51-57	175/001-002	43544.46-49	175/100-101	43558.15-18	176/071-072	43570.40-43	173/098-099	43585.02-05	178/004-005
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43532.08-08	175/004-004	43545.00-03	175/104-105	43558.29-32	176/075-076	43570.47-51	173/100-101	43585.20-20	178/009-009
43532.13-25	175/005-007	43545.07-11	175/106-107	43558.36-40	176/077-078	43570.52-55	177/035-036	43585.25-45	202/013-018
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43533.48-48	175/012-012	43546.54-58	175/113-114	43560.00-12	176/084-086	43571.20-32	177/042-045	43597.10-10	202/024-024
43533.53-59	175/013-014	43547.02-06	175/115-116	43560.17-17	176/087-087	43571.35-47	177/046-049	43597.26-26	194/045-045
43534.05-05	175/015-015	43547.14-22	175/117-119	43560.22-34	176/088-090	43571.50-58	177/050-052	43597.39-47	178/010-012
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43534.15-27	175/017-019	43547.32-36	175/122-123	43560.44-56	176/092-094	43573.18-38	202/007-012	43598.02-05	178/016-017
43534.32-32	175/020-020	43547.39-42	175/124-125	43561.01-02	176/095-096	43573.48-56	177/055-057	43598.09-17	178/018-020
43534.37-49	175/021-023	43547.46-50	175/126-127	43562.38-38	195/019-019	43573.59-59	177/058-058	43598.20-32	178/021-024
43534.54-54	175/024-024	43547.53-56	175/128-129	43563.08-14	176/097-098	43574.03-11	177/059-061	43598.36-36	201/075-075
43534.59-59	175/025-025	43548.00-04	175/130-131	43563.19-19	176/099-099	43574.14-26	177/062-065	43599.55-58	195/111-112
43535.05-11	175/026-027	43548.07-07	175/132-132	43563.24-36	176/100-102	43574.29-41	177/066-069	43600.01-10	195/113-116
43535.16-16	175/028-028	43549.53-57	175/133-133	43563.41-41	176/103-103	43574.44-44	177/070-070	43600.18-26	178/025-027
43535.21-33	175/029-031	43549.57-57	176/001-001	43563.46-58	176/104-106	43575.54-56	177/071-072	43600.29-41	178/028-031
43535.38-38	175/032-032	43550.01-07	176/002-004	43564.03-03	176/107-107	43575.59-59	177/073-073	43600.44-56	178/032-035
43536.10-30	175/033-038	43550.11-15	176/005-006	43564.08-20	176/108-110	43576.03-06	177/074-075	43600.59-59	178/036-036

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43601.14-14	178/040-040	43618.51-59	179/006-008	43653.02-58	205/008-022	43691.20-20	179/089-089	43709.53-53	180/072-072
43602.57-57	178/041-041	43619.02-06	179/009-010	43654.02-18	205/023-027	43693.03-11	179/090-092	43710.08-08	201/020-020
43603.01-05	178/042-043	43619.11-17	179/011-013	43654.36-36	197/054-054	43693.14-26	179/093-096	43711.26-38	180/073-075
43603.08-20	178/044-047	43619.21-29	179/014-016	43654.52-58	195/117-119	43693.29-41	179/097-100	43711.43-43	180/076-076
43603.23-35	178/048-051	43619.32-44	179/017-020	43655.01-07	195/120-122	43693.44-56	179/101-104	43711.48-54	180/077-078
43603.27-31	201/076-077	43619.47-47	179/021-021	43655.12-56	205/028-039	43693.59-59	179/105-105	43712.00-00	180/079-079
43603.38-50	178/052-055	43620.23-26	179/022-023	43656.00-56	205/040-054	43694.11-11	201/046-046	43712.05-05	180/080-080
43603.53-53	178/056-056	43620.30-33	179/024-025	43657.00-56	205/055-069	43695.16-36	206/098-103	43712.10-22	180/081-083
43605.07-27	202/025-030	43620.37-40	179/026-027	43658.00-56	205/070-084	43695.42-50	179/106-108	43712.27-27	180/084-084
43605.36-44	178/057-059	43620.44-47	179/028-029	43659.00-56	205/085-099	43695.53-57	179/109-110	43712.32-44	180/085-087
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43606.02-14	178/064-067	43621.12-12	195/020-020	43661.00-56	205/115-129	43696.08-20	179/113-116	43713.45-57	180/089-091
43606.10-10	201/078-078	43625.26-58	202/031-039	43662.00-08	205/130-131	43696.23-35	179/117-120	43714.02-02	180/092-092
43606.17-29	178/068-071	43625.43-43	195/018-018	43662.08-56	206/001-013	43696.38-38	179/121-121	43714.07-19	180/093-095
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43608.15-23	178/073-075	43627.02-58	202/055-069	43664.00-56	206/029-043	43698.05-05	195/129-129	43714.29-41	180/097-099
43608.26-38	178/076-079	43628.02-58	202/070-084	43665.00-56	206/044-058	43698.21-29	179/122-124	43714.46-46	180/100-100
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43609.04-08	178/085-086	43631.02-58	202/115-129	43668.09-09	195/021-021	43698.51-59	180/001-003	43715.08-08	180/104-104
43609.11-11	178/087-087	43632.02-58	202/130-144	43677.34-34	193/024-024	43699.02-14	180/004-007	43715.24-24	195/022-022
43610.16-48	198/020-028	43633.02-58	203/001-015	43677.47-50	179/032-033	43699.17-17	180/008-008	43715.52-56	206/116-117
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43611.09-17	178/092-094	43636.02-58	203/046-060	43678.08-11	179/038-039	43701.26-38	180/016-019	43716.34-43	196/001-004
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43611.43-43	201/082-082	43641.27-27	193/095-095	43685.13-13	179/045-045	43703.47-47	180/026-026	43717.35-47	180/116-119
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43612.59-59	178/104-104	43642.02-58	203/113-127	43685.35-35	179/049-049	43703.54-58	180/029-030	43719.14-14	194/067-067
43613.03-06	178/105-106	43643.02-22	203/128-132	43685.40-52	179/050-052	43704.02-05	180/031-032	43719.33-41	180/121-123
43613.10-13	178/107-108	43643.22-58	204/001-010	43685.57-57	179/053-053	43704.09-17	180/033-035	43719.44-56	180/124-127
43613.17-20	178/109-110	43644.02-58	204/011-025	43686.02-14	179/054-056	43704.20-32	180/036-039	43719.59-59	180/128-128
43613.24-27	178/111-112	43645.02-22	204/026-031	43686.19-19	179/057-057	43704.35-35	180/040-040	43720.03-11	180/129-131
43613.33-41	178/113-115	43645.30-58	204/032-039	43686.43-59	206/092-096	43705.51-51	197/055-055	43720.03-11	181/013-015
43613.44-56	178/116-119	43646.02-58	204/040-054	43687.03-03	206/097-097	43706.04-04	195/130-130	43720.14-26	181/001-004
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43614.03-11	178/121-123	43648.02-34	204/070-078	43687.45-53	179/058-060	43706.29-41	180/044-047	43720.29-29	181/005-005
43614.14-26	178/124-127	43648.54-58	204/079-080	43687.56-56	179/061-061	43706.44-56	180/048-051	43720.29-29	181/020-020
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43616.12-20	178/129-131	43649.31-34	204/088-089	43688.11-23	179/065-068	43707.03-11	180/053-055	43722.12-20	181/021-023
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43617.01-05	179/003-004	43650.10-58	204/097-109	43690.35-47	179/077-080	43709.01-05	180/058-059	43722.53-57	181/032-033
43617.08-08	179/005-005	43651.02-58	204/110-124	43690.50-58	179/081-083	43709.08-20	180/060-063	43723.01-05	181/034-035
43618.24-24	194/066-066	43652.02-34	204/125-132	43691.02-05	179/084-085	43709.23-35	180/064-067	43723.08-08	181/036-036

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43724.25-45	206/122-127	43741.58-58	182/004-004	43760.14-14	182/116-116	43776.02-05	183/071-072	43796.45-48	184/032-033
43724.51-59	181/037-039	43743.14-26	182/005-007	43760.26-26	193/025-025	43777.51-59	183/073-075	43796.52-56	184/034-035
43725.02-14	181/040-043	43743.31-31	182/008-008	43761.57-57	182/117-117	43778.02-05	183/076-077	43796.59-59	184/036-036
43725.17-29	181/044-047	43743.36-48	182/009-011	43762.01-05	182/118-119	43778.09-13	183/078-079	43797.02-10	184/037-039
43725.32-44	181/048-051	43743.53-53	182/012-012	43762.08-20	182/120-123	43778.16-19	183/080-081	43797.13-13	184/040-040
43725.47-47	181/052-052	43743.58-58	182/013-013	43762.23-35	182/124-127	43778.23-27	183/082-083	43798.54-54	184/041-041
43727.30-38	181/053-055	43744.04-10	182/014-015	43762.38-50	182/128-131	43778.30-33	183/084-085	43799.00-06	184/042-043
43727.41-53	181/056-059	43744.15-15	182/016-016	43762.53-53	182/132-132	43778.37-41	183/086-087	43799.11-11	184/044-044
43727.56-56	181/060-060	43744.20-32	182/017-019	43763.06-06	194/069-069	43778.44-44	183/088-088	43799.16-28	184/045-047
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43728.11-23	181/064-067	43744.51-51	201/047-047	43764.36-44	182/133-135	43780.03-19	207/015-019	43799.38-50	184/049-051
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43820.51-54	185/052-053	43834.25-31	185/135-136	43847.16-20	186/068-069	43859.02-06	197/078-079	43873.08-11	187/058-059
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43823.26-30	185/066-067	43836.29-33	186/001-002	43849.27-30	186/077-078	43862.07-07	207/112-112	43874.00-00	187/073-073

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43876.17-20	187/081-082	43887.09-12	188/020-021	43913.35-35	198/076-096	43922.18-24	189/025-026	43930.17-21	189/090-091
43876.24-27	187/083-084	43887.16-19	188/022-023	43913.39-59	211/044-049	43922.29-35	189/027-028	43930.24-28	189/092-093
43876.31-34	187/085-086	43887.51-51	196/070-070	43914.03-06	211/050-051	43922.40-46	189/029-030	43930.31-31	189/094-094
43876.38-41	187/087-088	43888.01-10	195/049-052	43914.11-14	188/062-063	43922.51-57	189/031-032	43930.38-38	210/044-044
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43881.05-05	187/108-108	43901.02-59	208/108-127	43916.24-24	188/098-098	43925.32-35	189/053-054	43932.10-16	189/098-099
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43881.26-29	187/113-114	43902.20-59	209/005-018	43918.00-04	188/121-122	43925.52-56	194/089-090	43932.32-32	210/060-060
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43881.40-43	187/117-118	43903.02-59	209/019-038	43918.46-46	211/061-061	43926.11-11	194/094-094	43932.42-42	210/062-062
43881.47-50	187/119-120	43904.02-32	209/039-049	43918.50-58	194/081-083	43926.14-14	193/028-028	43932.47-47	210/063-063
43881.54-57	187/121-122	43904.36-38	209/050-051	43919.02-10	194/084-086	43926.19-39	195/060-065	43932.52-52	210/064-064
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43883.38-41	187/125-126	43906.12-15	194/074-075	43919.23-23	188/123-123	43927.01-04	189/062-063	43933.07-07	210/067-067
43883.45-48	187/127-128	43906.18-21	193/100-101	43919.28-28	188/124-124	43927.08-11	189/064-065	43933.12-12	210/068-068
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43883.59-59	187/131-131	43906.36-56	198/086-091	43919.44-50	188/127-128	43927.22-25	189/068-069	43933.22-22	210/070-070
43884.02-06	187/132-133	43907.00-08	198/092-094	43919.55-55	188/129-129	43927.31-51	197/086-091	43933.27-27	210/071-071
43884.09-13	187/134-134	43907.11-11	198/095-095	43920.01-01	188/130-130	43927.54-54	197/092-092	43933.32-32	210/072-072
43884.13-16	188/001-002	43907.16-58	209/070-084	43920.06-12	189/001-002	43927.59-59	189/070-070	43933.47-50	189/101-102
43884.20-23	188/003-004	43908.01-58	209/085-104	43920.17-23	189/003-004	43928.02-06	189/071-072	43933.54-57	189/103-104
43884.27-30	188/005-006	43909.01-58	209/105-124	43920.28-34	189/005-006	43928.09-13	189/073-074	43934.01-04	189/105-106
43885.45-57	198/067-070	43910.01-25	209/125-132	43920.39-45	189/007-008	43928.16-20	189/075-076	43934.08-11	189/107-108
43886.01-17	198/071-075	43910.25-58	210/001-012	43920.50-56	189/009-010	43928.23-23	189/077-077	43934.14-41	196/085-094
43886.20-20	198/076-076	43911.01-58	210/013-032	43921.01-07	189/011-012	43928.26-47	196/077-084	43934.45-48	189/109-110
43886.23-27	188/007-008	43912.01-31	210/033-043	43921.12-18	189/013-014	43928.51-54	189/078-079	43934.52-55	189/111-112

FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID	FDS COUNT	VGE ID
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43935.02-06	189/114-115	43947.03-47	190/108-119	43967.20-24	196/108-109	43984.54-58	197/027-028	43998.12-13	201/032-033
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43935.16-20	189/118-119	43947.59-59	190/122-122	43967.38-41	196/113-114	43985.10-26	197/031-035	43998.18-18	211/014-014
43935.23-23	189/120-120	43948.02-06	190/123-124	43967.45-48	196/115-116	43985.37-57	194/016-021	43998.18-22	211/015-016
43935.31-58	210/073-082	43948.09-13	190/125-126	43967.49-50	196/117-118	43986.10-13	193/045-046	43998.25-25	211/017-017
43936.01-04	210/083-084	43948.16-56	190/127-137	43967.52-55	193/029-030	43989.02-04	193/005-006	43998.29-32	201/041-042
43936.53-57	189/121-122	43949.00-00	191/001-001	43968.02-05	197/107-108	43989.06-22	193/047-051	43998.36-48	213/011-014
43937.00-00	189/123-123	43949.11-11	196/095-095	43968.09-21	194/001-004	43989.26-58	210/103-111	43998.49-49	213/015-015
43937.03-19	195/067-071	43949.16-16	196/096-096	43968.49-57	192/033-035	43990.02-22	210/112-117	43998.52-56	213/017-018
43937.24-40	194/095-099	43949.21-21	196/097-097	43969.01-33	192/036-044	43990.25-25	210/118-118	43998.54-54	213/016-016
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43937.51-54	189/126-127	43949.51-57	191/002-003	43970.01-09	192/049-051	43990.43-46	197/036-037	43999.03-19	211/018-022
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43942.54-57	190/056-057	43959.53-56	191/078-079	43977.37-57	193/033-038	43994.47-50	210/142-143	44007.16-16	194/031-031
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43945.00-04	190/076-077	43963.43-55	197/101-104	43979.37-55	197/005-008	43995.54-54	201/002-002	44009.13-19	194/037-040
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43945.25-28	190/082-083	43964.05-05	191/127-127	43980.32-56	192/080-084	43996.08-12	195/083-084	44010.22-22	193/083-083
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44015.50-50	201/095-095	44118.09-12	211/117-118	44128.01-04	214/131-132	44151.33-36	215/081-082	44170.02-56	216/104-113
44015.53-56	211/080-081	44118.16-19	214/054-055	44128.08-11	214/133-134	44151.40-43	215/083-084	44171.02-38	216/114-120
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44016.00-08	211/082-084	44118.30-33	214/058-059	44128.22-25	214/137-138	44152.13-16	215/087-088	44175.01-61	216/124-134
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44095.40-56	213/051-055	44118.47-59	211/119-122	44128.32-32	215/001-001	44152.27-30	215/091-092	44177.01-55	217/010-019
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44104.59-59	213/107-107	44122.34-37	214/083-084	44138.50-53	212/050-051	44154.01-05	215/106-107	44186.53-53	217/109-109
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44105.13-13	213/109-109	44122.48-51	214/087-088	44139.00-04	212/053-054	44154.35-38	215/109-110	44187.01-55	217/110-119
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44105.30-46	213/112-116	44123.02-05	212/016-017	44139.14-18	212/057-058	44154.49-52	216/003-004	44192.08-56	217/122-130
44105.46-50	213/117-118	44123.09-12	212/018-019	44139.21-21	212/059-059	44154.56-59	216/005-006	44193.02-56	217/131-140
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44106.02-22	213/121-126	44123.23-26	214/091-092	44139.59-59	215/031-031	44155.10-13	212/086-087	44194.26-56	218/001-006
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44111.31-59	214/035-042	44126.31-31	214/116-116	44149.27-30	215/070-071	44161.02-56	212/131-140	44207.34-37	218/116-117
44112.03-11	214/043-045	44126.36-42	214/117-118	44149.34-37	215/072-073	44162.02-20	212/141-144	44207.41-44	218/118-119
44113.37-57	211/097-102	44126.47-53	214/119-120	44149.41-44	215/074-075	44162.26-56	216/028-033	44207.48-51	218/120-121
44114.01-37	211/103-112	44126.58-58	214/121-121	44149.59-59	215/076-076	44163.02-56	216/034-043	44207.55-58	218/122-123

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44208.09-12	218/126-127	44229.47-53	219/081-082	44256.04-10	220/035-036	44286.00-54	199/043-052
44208.16-19	218/128-129	44229.53-54	201/090-091	44256.15-21	220/037-038	44287.00-54	199/053-062
44208.23-26	218/130-131	44229.58-58	219/083-083	44256.26-32	220/039-040	44287.59-59	199/063-063
44208.30-33	218/132-133	44230.04-04	219/084-084	44256.37-43	220/041-042	44288.06-54	199/064-072
44208.37-40	218/134-134	44230.09-11	219/085-086	44256.48-54	220/043-044	44289.00-54	199/073-082
44208.40-44	219/001-002	44239.16-22	219/087-088	44256.59-59	220/045-045	44290.00-54	199/083-092
44208.47-51	219/003-004	44239.27-33	219/089-090	44257.05-05	220/046-046	44291.00-36	199/093-099
44208.54-58	219/005-006	44239.38-44	219/091-092	44257.10-16	220/047-048	44291.41-41	199/100-100
44209.01-05	219/007-008	44239.49-55	219/093-094	44257.21-27	220/049-050	44294.53-57	199/101-102
44209.08-12	219/009-010	44240.00-06	219/095-096	44257.32-38	220/051-052	44295.01-57	199/103-117
44209.15-19	219/011-012	44240.11-17	219/097-098	44263.43-49	220/053-054	44296.01-41	199/118-128
44209.22-26	219/013-014	44240.22-28	219/099-100	44263.54-54	220/055-055	44296.45-45	201/097-097
44209.29-33	219/015-016	44240.33-39	219/101-102	44264.00-00	220/056-056	44296.47-49	199/129-130
44209.36-36	219/017-017	44240.44-50	219/103-104	44264.05-11	220/057-058	44296.53-57	199/131-132
44211.01-04	219/018-019	44240.55-55	219/105-105	44264.16-22	220/059-060	44297.01-17	200/001-005
44211.08-11	219/020-021	44241.01-01	219/106-106	44264.27-33	220/061-062	44297.20-20	200/006-006
44211.15-18	219/022-023	44241.06-12	219/107-108	44264.38-44	220/063-064	44297.25-57	200/007-015
44211.22-25	219/024-025	44241.17-23	219/109-110	44264.49-55	220/065-066	44298.01-57	200/016-030
44211.29-32	219/026-027	44241.28-34	219/111-112	44265.00-06	220/067-068	44299.01-57	200/031-045
44211.36-39	219/028-029	44241.39-45	219/113-114	44265.11-17	220/069-070	44300.01-41	200/046-056
44211.43-46	219/030-031	44241.50-56	219/115-116	44265.22-28	220/071-072	44300.47-49	200/057-058
44211.50-53	219/032-033	44242.01-07	219/117-118	44265.33-39	220/073-074	44300.53-57	200/059-060
44211.57-57	219/034-034	44242.12-18	219/119-120	44265.44-50	220/075-076	44301.01-57	200/061-075
44212.00-00	219/035-035	44242.23-29	219/121-122	44265.55-55	220/077-077	44302.01-57	200/076-090
44225.40-40	219/036-036	44242.34-40	219/123-124	44266.01-01	220/078-078	44303.01-57	200/091-105
44225.45-51	219/037-038	44242.45-51	219/125-126	44266.06-12	220/079-080	44304.01-41	200/106-116
44225.56-56	219/039-039	44242.56-56	219/127-127	44266.17-23	220/081-082	44304.45-45	201/098-098
44226.02-02	219/040-040	44243.02-02	219/128-128	44266.28-34	220/083-084	44304.47-49	200/117-118
44226.07-13	219/041-042	44243.07-13	219/129-130	44266.39-45	220/085-086	44304.52-52	200/119-119
44226.18-18	201/089-089	44243.18-24	219/131-132	44266.50-56	220/087-088	46475.19-21	318/023-025
44226.18-24	219/043-044	44243.29-35	219/133-134	44267.01-07	220/089-090	46475.23-25	318/026-028
44226.29-35	219/045-046	44243.40-40	220/001-001	44267.12-18	220/091-092	46475.27-38	318/029-040
44226.40-46	219/047-048	44253.03-03	220/002-002	44267.23-29	220/093-094	53385.35-43	166/100-102
44226.51-57	219/049-050	44253.08-14	220/003-004	44267.34-40	220/095-096	53505.04-04	173/075-075
44227.02-08	219/051-052	44253.19-25	220/005-006	44267.45-51	220/097-098	53505.09-09	173/076-076
44227.13-19	219/053-054	44253.30-36	220/007-008	44267.56-56	220/099-099	53505.14-26	173/077-079
44227.24-30	219/055-056	44253.41-47	220/009-010	44268.02-02	220/100-100	53505.31-31	173/080-080
44227.35-41	219/057-058	44253.52-58	220/011-012	44268.07-07	220/101-101	58989.31-34	268/062-065
44227.46-52	219/059-060	44254.03-09	220/013-014	44274.33-57	198/100-104	58989.36-42	268/066-069
44227.57-57	219/061-061	44254.14-20	220/015-016	44275.03-57	198/105-114	97109.39-39	159/350-350
44228.03-03	219/062-062	44254.25-31	220/017-018	44276.03-57	198/115-124	97109.43-59	159/098-102
44228.08-14	219/063-064	44254.36-42	220/019-020	44277.02-02	198/125-125		
44228.19-25	219/065-066	44254.47-53	220/021-022	44277.09-57	198/126-134		
44228.30-36	219/067-068	44254.58-58	220/023-023	44278.03-57	198/135-144		
44228.41-47	219/069-070	44255.04-04	220/024-024	44279.03-15	199/001-003		
44228.52-58	219/071-072	44255.09-15	220/025-026	44279.20-20	199/004-004		
44229.03-09	219/073-074	44255.20-26	220/027-028	44282.12-54	199/005-012		
44229.14-20	219/075-076	44255.31-37	220/029-030	44283.00-54	199/013-022		
44229.25-31	219/077-078	44255.42-48	220/031-032	44284.00-54	199/023-032		

TABLE E-2

VIKING ORBITER ARCHIVE INDEX

Viking Orbit images are identified by PICNO, a composite of orbit number, spacecraft id (represented by a single letter), and picture count within orbit. In general, the spacecraft id letter "A" indicates Viking Orbiter 1 images, while the letter "B" represents Viking Orbiter 2 images. The spacecraft id letter was also used to differentiate between images taken during pre-orbit mission phases ("C" and "D" were used to represent spacecraft 1 and 2 in these sequences), optical navigation images ("E" and "F" representing spacecraft 1 and 2), images from the survey mission ("S" was used for images from spacecraft 1). The letter "X" was used in some cases when the count of images within an orbit exceeded 99.

The index listing presents images ordered by spacecraft letter designation, and by ascending PICNO within spacecraft. Images are grouped into sequences of monotonically incrementing PICNO and archive tape/file number. Thus, the entry

003A01-08 008/17-24

indicates that image 003A01 is on file 17 of archive tape VOE008, 003A02 is on file 18, and so on to 003A08, which is on file 24.

Users will have to perform a simple calculation to locate an image embedded in one of these sequences. This compression reduces the size of the listing from 200 pages to 20 pages.

ORIGINAL PAGE IS OF POOR QUALITY

PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID
003A01-08	008/17-24	007A01-05	005/93-97	013A01-03	600/19-21	027A46-46	018/95-95	040A16-19	021/01-04	047A41-51	023/85-95
003A09-16	008/51-58	008A01-10	007/75-84	013A11-13	012/64-66	027A51-57	021/89-95	040A20-22	021/19-21	047A52-58	024/01-07
003A17-24	008/09-16	008A03-03	600/06-06	013A21-24	012/74-77	027A58-60	033/91-93	040A23-30	021/07-14	048A11-28	024/08-25
003A25-32	008/43-50	008A11-15	010/80-84	013A31-38	012/78-85	027A61-66	016/64-69	040A31-36	021/22-27	048A11-11	600/58-58
003A33-40	008/01-08	008A16-21	008/92-97	013A41-43	012/86-88	027A67-71	017/01-05	040A37-40	021/15-18	048A41-42	023/51-52
003A41-48	008/35-42	008A22-27	007/85-90	013A44-45	012/90-91	027A68-68	600/28-28	040A41-43	021/61-63	048A51-64	024/26-39
003A41-41	600/08-08	008A28-32	009/93-97	013A51-55	013/01-05	027A70-71	600/29-30	040A45-52	021/28-35	049A11-28	024/40-57
003A49-58	008/25-34	008A33-38	010/40-45	014A01-05	013/06-10	027A75-75	017/12-12	040A53-59	021/64-70	050A11-28	024/58-75
004A01-10	009/48-57	008A39-44	010/34-39	014A06-63	013/23-80	027A81-86	016/70-75	040A61-63	021/36-38	050A25-25	600/59-59
004A11-14	009/59-62	008A39-39	600/17-17	014A36-36	600/24-24	027A81-86	017/44-49	040A64-66	021/44-46	050A41-60	024/76-95
004A15-15	007/50-50	008A45-51	010/46-52	014A64-68	014/01-05	028A05-15	017/33-43	040A67-74	021/71-78	051A11-12	024/96-97
004A16-16	009/16-16	008A52-54	008/89-91	014A69-75	013/81-87	032A01-41	017/56-96	040A75-82	021/47-54	051A41-54	025/01-14
004A16-16	600/12-12	008A55-64	010/65-74	014A76-80	014/06-10	032A42-71	018/01-30	040A83-85	021/79-81	051A61-61	025/15-15
004A17-21	009/11-15	008A65-70	010/28-33	014A81-85	013/18-22	034A01-02	018/31-32	040A86-90	021/39-43	051A63-64	025/16-17
004A20-20	600/11-11	008A71-75	010/75-79	020A01-10	014/11-20	034A11-16	018/33-38	040A91-96	021/55-60	052A01-05	025/38-42
004A22-27	008/59-64	008A76-81	010/53-58	020A09-10	600/25-26	034A16-16	600/47-47	041A01-02	021/82-83	052A05-05	025/43-43
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004A33-38	008/83-88	008A88-93	010/59-64	020A22-27	014/39-44	034A17-23	018/41-47	041A15-17	021/86-88	052A16-16	025/54-54
004A39-44	008/77-82	009A01-03	010/85-87	020A28-32	014/76-80	034A24-28	018/54-58	041A18-20	022/01-03	052A18-26	025/55-63
004A45-54	009/01-10	009A21-32	011/20-31	020A33-38	014/45-50	034A29-34	018/48-53	041A25-30	022/04-09	052A31-50	025/18-37
004A55-55	009/58-58	009A33-34	012/37-38	020A39-44	014/21-26	034A35-41	018/59-65	041A35-44	022/10-19	052A31-31	606/18-18
004A56-64	009/34-42	009A41-47	010/88-94	020A45-64	014/56-75	034A42-46	018/68-72	041A50-68	022/20-38	053A01-27	025/64-90
004A65-70	008/71-76	009A48-58	011/01-11	020A65-70	014/27-32	034A45-46	600/50-51	041A70-78	022/39-47	053A28-28	026/02-02
004A72-75	009/43-46	009A61-68	011/12-19	020A71-75	014/51-55	034A51-58	018/73-80	041A80-88	022/48-56	053A31-37	025/91-97
004A76-81	009/17-22	010A01-06	012/07-12	020A76-76	014/93-93	034A61-62	018/66-67	041A90-91	022/69-70	053A38-38	026/01-01
004A82-87	008/65-70	010A07-12	011/40-45	020A77-81	015/01-05	034A71-84	018/81-94	041A90-90	606/24-24	053A39-43	026/03-07
004A83-83	600/09-09	010A13-17	011/93-97	020A82-87	014/33-38	034A85-92	019/01-08	041A90-90	606/24-24	053A44-44	026/17-17
004A86-86	600/10-10	010A21-27	011/58-64	020A88-93	014/81-86	034A97-97	019/09-09	041A90-90	606/24-24	053A46-50	026/09-13
004A88-93	009/28-33	010A28-35	011/32-39	022A01-04	015/16-19	034A98-99	018/39-40	041A90-90	606/24-24	053A51-57	026/18-24
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006A16-21	010/11-16	010A81-86	011/87-92	022A55-68	015/35-48	035A61-79	019/44-62	043A01-12	022/57-68	055A01-28	026/68-95
006A22-27	009/63-68	010A87-92	011/46-51	022A69-75	015/60-66	036A18-32	019/77-91	044A11-28	022/71-88	055A05-05	600/60-60
006A28-32	010/23-27	010A93-98	012/01-06	022A76-82	015/84-90	036A41-45	019/92-96	044A24-24	600/54-54	055A29-30	027/01-02
006A33-38	009/87-92	012A01-01	012/89-89	022A83-89	016/01-07	036A46-62	020/01-17	044A41-50	022/89-98	055A31-33	026/65-67
006A39-44	009/81-86	012A02-05	012/13-16	022A90-93	015/91-94	037A01-02	020/18-19	044A50-50	044/68-68	056A01-11	027/05-15
006A45-54	010/01-10	012A11-15	012/17-21	022A90-90	600/27-27	037A11-20	020/20-29	044A51-68	023/01-18	056A12-13	027/03-04
006A45-45	600/14-14	012A21-25	012/22-26	022A94-97	015/20-23	037A41-52	020/30-41	046A11-13	023/64-66	056A14-30	027/25-41
006A52-52	600/15-15	012A31-40	012/27-36	026A21-40	016/08-27	038A01-02	020/42-43	046A12-12	600/57-57	056A31-39	027/16-24
006A54-54	600/16-16	012A36-36	600/18-18	026A51-57	016/82-88	038A11-32	020/44-65	046A14-15	023/49-50	056A40-57	027/44-61
006A55-64	005/78-87	012A51-66	012/39-54	026A51-80	016/28-57	039A01-12	020/66-77	046A16-26	023/53-63	056A58-59	027/42-43
006A65-70	009/75-80	012A67-70	012/60-63	027A01-06	017/06-11	039A21-32	020/78-89	046A17-17	600/56-56	056A60-87	027/62-89
006A71-75	007/51-55	012A67-68	600/22-23	027A07-12	016/76-81	040A01-06	020/90-95	046A27-28	023/46-47	056A93-96	027/93-96
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006A82-87	009/69-74	012A78-81	012/92-95	027A13-13	600/31-31	040A07-07	600/52-52	046A41-41	600/55-55	057A01-03	028/11-13
006A82-82	600/13-13	012A82-88	013/11-17	027A17-17	600/32-32	040A09-09	600/53-53	046A42-66	023/19-43	057A03-03	028/14-14
006A88-91	005/72-75	012A89-90	012/96-97	027A31-36	016/58-63	040A14-14	021/06-06	046A71-72	023/44-45	057A05-19	028/15-29
006A91-92	005/76-77	013A01-05	012/55-59	027A37-45	016/89-97	040A15-15	020/96-96	047A11-28	023/67-84	057A20-20	028/53-53

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057A31-38	028/03-10	065A01-09	032/05-13	081A16-30	037/19-33	090A01-06	040/92-97	099A01-03	045/35-37	112A17-32	047/72-87
057A39-48	028/38-47	065A09-09	600/63-63	083A01-24	037/34-57	090A07-07	044/87-87	099A04-08	045/30-34	115A01-03	047/93-95
057A51-53	027/90-92	065A15-25	031/86-96	083A31-50	037/58-77	090A08-12	041/01-05	099A21-28	045/22-29	115A05-07	048/01-03
058A01-02	028/48-49	065A15-25	019/66-76	083A52-54	037/79-81	090A21-36	041/06-21	099A41-48	045/08-15	115A11-15	047/88-92
058A11-12	028/50-51	065A26-27	032/01-02	083A52-52	600/69-69	090A41-58	040/74-91	099A61-66	045/16-21	115A16-42	048/04-30
058A21-22	029/46-47	065A31-32	032/03-04	083A83-83	037/78-78	090A61-66	041/22-27	101A05-24	042/70-89	117A01-02	053/48-49
058A31-31	028/52-52	065A33-33	031/76-76	084A01-06	037/90-95	091A01-18	037/01-18	101A25-38	043/01-14	117A03-15	053/31-43
058A32-32	028/54-54	065A41-49	031/77-85	084A07-16	038/01-10	093A01-16	041/28-43	101A39-45	607/18-24	117A16-20	053/26-30
058A41-45	028/55-59	065A47-49	019/63-65	084A17-24	038/32-39	093A21-34	041/54-67	101A46-47	608/01-02	117A21-21	056/79-79
058A61-91	028/60-90	065A50-69	031/56-75	084A25-30	037/82-87	093A41-50	041/44-53	101A48-54	042/90-96	117A22-27	053/20-25
058A92-92	029/01-01	066A01-28	032/14-41	084A26-26	600/70-70	093A51-60	041/68-77	101A54-54	042/97-97	117A28-32	053/15-19
059A01-02	029/33-34	066A09-09	600/64-64	084A31-48	038/14-31	094A01-18	041/78-95	101A56-61	044/88-93	118A01-01	053/50-50
059A03-04	029/48-49	066A24-24	600/65-65	084A49-60	038/40-51	094A21-36	042/01-16	101A62-70	043/15-23	118A03-03	053/44-44
059A11-28	029/15-32	066A29-37	032/48-56	084A61-62	037/88-89	094A41-54	042/17-30	101A77-78	054/58-59	118A05-05	053/45-45
059A24-24	600/61-61	066A36-59	032/57-80	084A71-81	038/52-62	094A61-70	042/37-46	101A81-88	054/60-67	118A07-07	053/46-46
060A01-06	029/35-40	067A01-07	034/74-80	084A82-84	038/11-13	094A71-76	042/31-36	102A01-14	054/68-81	118A09-09	053/47-47
060A07-07	029/70-70	067A08-13	032/42-47	085A01-06	038/63-68	095A01-18	044/23-40	102A15-24	043/24-33	118A11-11	053/55-55
060A08-09	029/41-42	067A14-27	032/81-94	085A11-16	038/70-75	095A05-05	600/78-78	103A01-24	047/20-43	118A13-13	053/51-51
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060A12-13	029/43-44	067A31-60	033/02-31	085A21-21	038/69-69	095A29-36	043/59-66	103A43-43	600/80-80	118A17-17	053/53-53
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060A16-16	029/45-45	070A01-27	033/64-90	085A31-36	038/76-81	095A42-44	044/12-14	104A01-23	043/34-56	118A28-52	053/56-80
060A21-24	029/75-78	070A29-32	044/71-74	085A41-46	038/87-92	095A45-51	043/79-85	104A24-24	045/56-56	118A35-35	600/81-81
060A31-32	030/07-08	071A01-32	034/01-32	085A46-46	600/72-72	095A52-54	044/01-03	104A31-32	043/57-58	118A45-45	600/82-82
060A41-46	028/91-96	071A28-28	600/66-66	085A51-56	039/13-18	095A61-72	043/67-78	104A33-38	045/38-43	118A71-71	053/54-54
060A47-47	044/69-69	072A01-32	034/33-64	085A61-63	038/93-95	095A81-88	044/04-11	104A41-48	045/44-51	118A73-73	053/81-81
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061A11-30	029/50-69	073A18-21	044/78-81	086A13-14	600/73-74	097A08-12	252/15-19	105A45-48	045/52-55	119A11-15	048/55-59
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OF POOR QUALITY

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124A41-41	050/39-39	136A19-24	053/01-06	224A01-16	061/46-61	250A51-58	066/45-52	279A11-17	073/33-39	308A14-16	079/01-03
124A42-46	049/72-76	136A33-34	052/73-74	224A18-18	061/80-80	250A59-72	066/69-82	279A18-20	073/50-52	308A21-36	078/69-84
124A47-51	050/07-11	175A01-08	053/07-14	224A20-28	061/81-89	252A01-16	067/01-16	279A21-36	073/17-32	309A01-39	079/04-42
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124A53-58	049/77-82	175A13-13	053/88-88	224A41-56	062/03-18	252A66-66	069/91-91	280A01-10	073/40-49	312A07-24	079/58-75
124A59-63	049/89-93	175A14-16	054/01-03	224A57-70	062/32-45	255A01-57	067/17-73	280A11-23	073/85-97	312A31-54	080/10-33
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124A75-76	049/86-87	177A01-08	054/36-43	226A01-13	062/19-31	257A01-06	067/75-80	280A31-46	073/69-84	312A81-87	079/88-94
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129A04-07	051/65-68	209A14-28	057/01-15	242A11-22	064/74-85	269A21-36	070/63-78	295A11-16	076/27-32	328A01-20	083/75-94
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129A31-34	051/32-35	210A01-20	057/56-75	243A57-60	065/13-16	272A01-16	071/17-32	298A41-64	076/53-76	329A21-25	084/83-87
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130A21-23	052/03-05	210A45-50	057/30-35	243A69-71	065/35-37	273A01-16	071/49-64	299A01-15	077/13-27	330A01-24	085/02-25
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130A35-38	051/76-79	212A01-38	058/01-38	244A01-10	065/17-26	275A01-14	071/81-94	299A21-40	077/28-47	330A32-32	600/37-37
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132A01-01	052/06-06	214A41-43	058/81-83	244A56-56	065/45-45	276A01-05	072/09-13	301A01-04	077/48-51	332A01-24	085/66-89
132A11-11	052/07-07	214A44-70	059/01-27	244A58-70	065/46-58	276A11-15	072/44-48	301A11-14	077/52-55	332A31-54	085/42-65
133A01-04	052/08-11	216A01-30	059/28-57	244A72-72	065/60-60	277A01-14	072/49-62	301A21-24	077/56-59	335A01-08	085/90-97
133A11-12	052/12-13	216A41-70	059/58-87	246A01-13	065/61-73	277A21-34	072/20-33	303A01-20	078/07-26	335A15-40	086/01-26
133A15-18	052/14-17	220A01-10	059/88-97	246A13-13	065/74-74	277A41-50	072/34-43	303A01-08	089/71-78	336A01-20	086/27-46
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133A31-31	052/24-24	222A01-32	060/51-82	246A65-72	066/01-08	277A65-70	073/01-06	307A41-58	078/37-54	341A01-19	087/21-39
134A01-24	052/25-48	222A46-59	060/83-96	248A01-22	066/09-30	277A71-74	072/63-66	307A76-89	078/55-68	341A19-19	087/40-40
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343A51-52	087/19-20	373A37-48	095/53-64	396A13-14	101/01-02	413A13-14	107/13-14	426A21-24	113/25-28	441A61-70	118/47-56
343A53-84	087/63-94	373A51-58	095/89-96	396A16-24	101/03-11	413A21-34	107/35-48	426A31-54	113/01-24	441A71-90	119/31-50
343A85-90	088/01-06	373A59-62	096/01-04	396A25-36	101/36-47	414A01-10	107/15-24	427A01-01	113/49-49	442A01-32	119/51-82
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363A79-90	092/13-24	386A01-16	098/69-84	406A37-48	103/58-69	420A01-20	110/09-28	433A10-10	116/01-01	453A13-13	600/90-90
365A01-40	092/25-64	386A21-25	098/85-89	406A39-39	606/20-20	421A01-10	110/39-48	433A21-30	116/36-45	453A25-36	123/47-58
366A01-04	092/65-68	386A26-36	099/01-11	407A01-32	104/01-32	421A21-30	110/49-58	433A41-50	116/02-11	453A37-48	123/23-34
366A06-10	092/69-73	387A01-07	099/12-18	408A01-12	104/57-68	421A31-40	110/29-38	433A61-70	116/46-55	453A49-60	123/71-82
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368A21-38	093/21-38	389A09-14	099/32-37	408A51-64	104/81-94	422A35-40	111/01-06	436A41-44	117/51-54	457A01-48	124/41-88
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369A30-30	093/89-89	389A33-44	099/38-49	409A01-32	105/19-50	423A01-20	115/63-82	436A75-99	117/55-79	458A06-06	602/60-60
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369A44-44	600/83-83	390A15-16	099/87-88	409A52-64	106/04-16	423A43-56	111/69-82	439A20-34	117/80-94	459A00-00	125/61-61
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371A31-48	094/54-71	393A01-12	100/40-51	411A01-12	106/73-84	425A01-04	112/37-40	441A11-20	118/57-66	459A17-24	125/06-13
372A01-04	094/72-75	393A25-36	100/52-63	411A13-24	106/49-60	425A05-14	112/55-64	441A21-30	119/21-30	459A25-32	125/30-37
372A11-50	095/01-40	393A25-25	600/39-39	411A25-36	106/85-96	425A15-28	112/41-54	441A29-29	600/89-89	459A33-40	125/14-21
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463A01-09	127/15-23	486A35-42	133/28-35	510A01-10	138/23-32	529A06-06	602/74-74	555A21-34	149/72-85	574A23-23	601/11-11
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599A33-40	163/60-67	612A10-10	601/20-20	632A51-68	176/25-42	650A01-24	185/21-44	671A01-24	193/73-96	690A01-08	200/09-16
599A41-48	164/23-30	612A21-36	168/39-54	632A53-53	601/25-25	651A01-48	185/45-92	671A25-40	194/01-16	690A21-28	200/17-24
599A45-45	601/17-17	612A41-56	169/12-27	633A01-32	176/43-74	651A39-39	601/28-28	671A27-27	601/33-33	690A31-38	200/01-08
599A51-64	164/09-22	612A61-62	168/55-56	633A41-56	176/75-90	651A51-98	186/01-48	672A01-10	194/17-26	690A32-32	602/85-85
599A67-78	164/31-42	613A61-62	169/28-29	633A57-72	177/01-16	651A60-60	601/29-29	672A21-28	194/35-42	690A41-64	200/25-48
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602A01-02	164/45-46	614A11-18	169/30-37	635A01-05	177/89-93	653A01-48	186/49-96	672A41-48	194/43-50	691A41-54	200/79-92
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603A21-36	164/63-78	614A31-38	169/38-45	635A51-61	177/65-75	655A00-00	187/80-80	672A61-70	194/59-68	692A01-10	201/17-26
603A41-42	164/79-80	614A41-48	168/78-85	635A63-74	177/77-88	655A01-40	187/21-60	672A81-90	194/69-78	692A21-30	201/27-36
605A01-14	164/81-94	614A51-58	169/46-53	635A68-68	177/76-76	655A41-52	187/81-92	673A01-14	194/79-92	693A01-48	201/37-84
605A15-30	165/06-21	615A01-10	169/54-63	635A75-98	177/41-64	655A54-54	187/93-93	673A15-48	195/01-34	694A01-13	201/85-97
605A31-35	165/01-05	615A21-36	169/77-92	637A01-16	178/14-29	655A54-54	187/94-94	674A01-18	195/35-52	694A14-14	168/87-87
605A31-31	601/18-18	615A21-21	601/21-21	637A21-44	178/54-77	655A55-80	188/01-26	675A01-12	195/61-72	694A15-42	202/01-28

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695A01-24	202/69-92	710A31-38	209/69-76	731A01-48	218/01-48	744A71-88	223/80-97	759A31-46	231/17-32	776A81-85	235/86-90
695A25-42	203/01-18	710A41-48	209/77-84	731A18-18	168/92-92	744A71-74	602/90-93	759A61-70	231/07-16	776A86-90	236/17-21
696A01-08	203/35-42	710A51-51	604/87-87	732A01-20	218/69-88	744A78-78	602/94-94	759A71-80	231/43-52	778A01-16	236/22-37
696A11-18	203/19-26	710A67-68	210/01-02	732A21-40	218/49-68	744A89-90	271/01-02	759A81-90	231/33-42	779A01-16	236/38-53
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696A31-38	203/27-34	713A01-20	210/03-22	732A45-69	219/01-25	746A01-39	224/35-73	762A01-08	231/65-72	780A36-36	601/47-47
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696A41-48	203/51-58	714A01-22	210/55-76	733A01-18	219/26-43	746A51-55	224/74-78	762A41-55	231/83-97	781A01-12	236/86-97
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798A41-54	240/60-73	817A24-26	244/40-42	834A21-23	246/92-94	851A01-12	250/63-74	867A08-08	254/01-01	908A51-52	258/68-69
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801A01-08	241/46-53	819A02-08	244/33-39	835A01-04	247/81-84	851A25-34	250/41-50	876A01-14	254/47-60	909A53-60	259/01-08
801A21-21	241/54-54	820A01-06	244/71-76	835A11-13	247/92-94	853A01-12	250/75-86	876A21-36	254/61-76	910A01-20	259/09-28
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801A61-73	241/68-80	822A01-03	244/92-94	835A32-38	272/14-20	853A61-61	250/87-87	878A15-19	255/01-05	911A13-20	259/47-54
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802A01-10	241/04-13	823A01-02	244/53-54	836A06-07	272/21-22	853A81-81	250/88-88	878A31-50	255/06-25	912A51-55	259/55-59
803A01-16	241/14-29	823A11-14	244/55-58	836A08-10	271/93-95	854A01-02	250/89-90	878A61-80	255/27-46	912A57-61	259/61-65
806A01-10	349/06-15	824A01-03	244/95-97	837A01-03	247/95-97	854A11-17	250/91-97	880A01-18	255/65-82	912A62-68	260/06-12
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807A21-34	242/02-15	826A01-04	271/78-81	840A01-06	248/46-51	857A02-05	251/37-40	883A04-09	256/02-07	913A51-70	260/13-32
808A01-08	242/41-48	826A21-28	271/82-89	840A03-04	248/82-83	857A04-10	251/48-54	883A21-22	255/93-94	914A10-24	260/53-67
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810A02-05	242/83-86	826A81-85	246/17-21	840A41-52	248/70-81	857A29-32	251/44-47	886A01-16	256/29-44	915A22-24	260/95-97
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OF POOR QUALITY

VIKING ORBITER ARCHIVE TAPE CATALOG

PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID
247B40-50	427/45-55	277B01-30	435/21-50	308B17-21	443/41-45	335B71-76	450/83-88	358B01-08	457/76-83	371B41-50	462/44-53
248B01-20	427/65-84	277B31-50	435/01-20	308B23-46	443/70-93	335B77-98	451/15-36	358B09-16	457/52-59	371B61-70	462/34-43
248B22-45	428/23-46	279B01-12	435/63-74	308B47-70	443/46-69	339B01-04	451/37-40	358B17-22	457/84-89	372B01-26	462/54-79
248B47-49	427/85-87	279B21-32	435/51-62	308B71-74	443/94-97	339B11-24	451/41-54	358B23-24	458/01-02	374B01-14	462/80-93
248B50-71	428/01-22	279B41-52	435/75-86	308B75-90	444/01-16	342B01-12	451/55-66	358B31-38	457/60-67	374B15-24	463/01-10
248B73-95	428/47-69	282B21-21	602/39-39	310B31-60	444/17-46	342B13-24	451/79-90	358B41-48	458/03-10	374B24-24	604/80-80
251B01-23	428/70-92	282B29-29	602/40-40	312B01-36	444/47-82	342B13-13	602/26-26	358B51-58	457/68-75	375B01-12	463/11-22
251B24-30	429/31-37	283B01-60	436/01-60	313B01-16	445/10-25	342B25-36	451/67-78	358B61-68	458/11-18	375B08-08	604/81-81
251B31-60	429/01-30	287B01-13	436/85-97	313B41-56	445/26-41	342B27-27	604/69-69	359B01-10	458/25-34	375B13-24	463/35-46
254B01-12	429/85-96	287B14-22	437/01-09	313B61-67	444/83-89	342B29-29	604/70-70	359B11-16	458/19-24	375B25-36	463/23-34
254B13-22	430/01-10	287B24-47	436/61-84	313B68-76	445/01-09	342B37-38	451/91-92	359B17-25	458/35-43	375B25-26	604/82-83
254B25-50	429/38-63	287B48-97	437/10-59	315B01-27	445/42-68	342B39-48	452/01-10	359B25-33	458/44-52	375B37-38	463/59-60
254B51-59	430/12-20	290B01-14	437/84-97	315B29-40	445/70-81	344B01-30	452/53-82	359B35-40	458/53-58	375B40-48	463/62-70
254B61-63	430/22-24	290B15-24	438/01-10	317B01-14	445/82-95	344B31-60	452/11-40	360B01-12	458/71-82	375B40-40	463/61-61
254B66-76	430/25-35	290B31-54	437/60-83	317B15-20	446/01-06	344B61-72	452/83-94	360B13-24	458/59-70	375B49-60	463/47-58
254B77-97	429/64-84	292B01-21	438/35-55	318B01-20	446/07-26	344B73-84	452/41-52	360B25-36	458/83-94	375B61-70	463/71-80
254B93-93	602/21-21	292B24-47	438/11-34	319B01-04	446/39-42	344B85-96	453/01-12	363B16-29	459/15-28	375B81-90	463/81-90
258B01-10	430/66-75	292B48-71	438/56-79	319B05-12	446/67-74	347B01-04	453/13-16	363B31-44	459/01-14	378B01-26	464/01-26
258B11-20	430/36-45	292B72-91	439/11-30	319B13-24	446/27-38	347B11-20	453/17-26	363B64-77	459/29-42	378B03-03	604/84-84
258B21-30	430/56-65	295B01-12	438/80-91	319B25-36	446/75-86	348B01-14	453/27-40	363B80-86	459/61-67	378B31-70	464/27-66
258B31-40	430/46-55	295B21-22	438/92-93	319B37-48	446/43-54	348B15-28	453/55-68	364B01-18	459/68-85	380B01-12	464/67-78
259B01-22	430/76-97	295B23-32	439/01-10	319B49-60	447/01-12	348B29-42	453/41-54	364B31-48	459/43-60	380B01-01	604/85-85
259B23-24	427/88-89	295B41-52	439/31-42	319B61-72	446/55-66	348B43-56	453/69-82	365B01-12	459/86-97	380B13-24	465/01-12
259B31-54	431/21-44	297B01-48	439/43-90	320B01-06	447/25-30	348B57-70	454/08-21	365B13-14	460/75-76	380B25-35	464/79-89
259B37-37	431/03-03	297B49-60	440/01-12	320B07-12	446/87-92	348B71-85	453/83-97	365B17-30	460/08-21	380B31-36	605/36-41
259B61-64	427/90-93	298B01-12	440/13-24	320B21-32	447/31-42	348B86-87	460/84-85	365B33-39	460/77-83	380B37-60	465/13-36
259B65-66	431/01-02	298B21-32	440/25-36	320B41-52	447/13-24	348B88-94	454/01-07	365B40-46	460/01-07	380B71-73	465/37-39
259B68-84	431/04-20	300B01-19	440/60-78	320B61-72	447/43-54	349B01-24	454/22-45	365B49-62	460/22-35	380B73-73	465/40-40
262B01-21	419/77-97	300B23-45	440/37-59	322B01-40	447/55-94	349B31-54	454/46-69	365B65-78	460/36-49	380B75-90	465/41-56
262B25-49	431/67-91	300B47-65	440/79-97	325B01-20	448/21-40	350B01-24	454/70-93	366B01-02	460/50-51	383B01-16	465/57-72
262B44-44	602/22-22	300B66-66	425/96-96	325B21-40	448/01-20	350B25-30	455/01-06	366B15-26	460/52-63	383B21-34	466/01-14
262B46-46	602/23-23	300B67-92	441/01-26	325B41-60	448/41-60	350B25-25	604/71-71	366B25-25	604/73-73	383B35-36	466/93-94
262B51-53	425/93-95	300B72-72	602/24-24	325B60-60	604/66-66	351B01-10	455/17-26	367B01-09	460/64-72	383B35-36	605/43-44
262B54-68	431/45-59	302B01-24	441/27-50	327B01-03	448/91-93	351B11-20	455/07-16	367B10-14	461/01-05	383B41-41	605/42-42
262B68-68	431/60-60	302B31-54	441/51-74	327B04-10	449/01-07	352B01-12	455/39-50	367B14-14	461/06-06	383B41-56	465/73-88
262B70-75	431/61-66	304B01-10	441/75-84	327B08-08	602/25-25	352B13-24	455/27-38	367B16-26	461/07-17	383B61-76	466/15-30
264B01-01	431/97-97	304B11-20	442/28-37	327B11-20	448/61-70	352B25-36	455/51-62	367B78-79	460/73-74	385B01-28	466/31-58
264B02-11	413/86-95	304B21-29	441/85-93	327B21-40	449/08-27	352B37-50	456/01-14	370B01-12	461/38-49	385B23-28	466/69-74
264B12-30	432/01-19	304B30-30	442/01-01	327B41-60	448/71-90	352B51-64	455/63-76	370B13-24	461/84-95	385B29-29	466/68-68
264B31-35	431/92-96	304B31-40	442/38-47	331B01-36	449/28-63	352B79-92	455/77-90	370B25-36	461/50-61	385B29-31	466/65-67
264B36-60	432/20-44	304B41-50	442/02-11	332B01-06	449/64-69	355B01-20	456/15-34	370B37-38	461/96-97	385B39-42	466/75-78
267B01-21	432/69-89	304B51-58	442/48-55	332B11-30	449/70-89	355B41-60	456/35-54	370B39-47	462/01-09	385B51-56	466/59-64
267B22-45	432/45-68	304B67-74	442/12-19	332B31-50	450/01-20	356B01-10	456/65-74	370B49-60	461/62-73	385B57-70	466/79-92
267B46-50	432/90-94	304B75-77	442/56-58	332B41-41	604/67-67	356B11-20	456/55-64	370B60-60	604/74-74	385B71-82	467/01-12
267B51-78	433/01-28	304B77-77	442/59-59	332B46-46	604/68-68	356B21-24	456/75-78	370B61-70	461/18-27	385B71-71	605/45-45
269B01-60	433/29-88	304B79-82	442/60-63	334B01-06	450/21-26	356B25-50	457/01-26	370B71-80	461/74-83	385B79-79	605/46-46
275B01-21	434/01-21	304B83-90	442/20-27	335B01-56	450/27-82	356B46-46	604/72-72	370B81-90	461/28-37	385B82-82	605/47-47
275B23-46	434/23-46	306B01-24	443/01-24	335B57-58	451/01-02	357B01-08	457/27-34	371B01-24	462/10-33	386B02-32	467/14-44
275B47-47	434/22-22	306B31-54	442/64-87	335B60-61	451/03-04	357B09-10	604/88-89	371B03-03	604/75-75	386B18-18	605/49-49
275B48-92	434/47-91	308B01-15	443/25-39	335B61-70	451/05-14	357B14-30	457/35-51	371B08-11	604/76-79	386B25-26	605/50-51

PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID
387B01-32	467/45-76	406B15-15	605/66-66	416B31-46	477/25-40	437B19-19	606/17-17	459B01-30	487/64-93	494B01-13	494/27-39
387B41-50	467/77-86	406B17-27	472/81-91	418B01-15	478/01-15	437B20-20	483/06-06	459B41-70	488/01-30	494B14-16	494/41-43
388B01-20	468/01-20	406B27-27	605/67-67	418B16-18	477/53-55	437B51-74	482/59-82	461B01-20	488/31-50	494B41-55	494/60-74
388B16-16	605/52-52	406B33-36	473/01-04	418B19-20	477/41-42	439B01-14	483/07-20	466B01-28	488/67-94	494B56-56	494/40-40
389B01-20	468/21-40	407B00-00	473/60-60	418B31-46	478/24-39	439B11-11	600/43-43	466B29-32	489/01-04	495B01-16	494/44-59
390B01-30	468/41-70	407B01-14	473/05-18	418B61-70	477/43-52	439B21-32	483/35-46	466B33-48	489/21-36	497B01-12	495/23-34
390B31-40	468/81-90	407B02-03	473/42-43	418B71-74	477/88-91	439B41-54	483/47-60	466B49-64	489/05-20	497B21-32	494/75-86
390B41-50	468/71-80	407B15-28	473/61-74	419B01-16	477/72-87	439B61-74	483/21-34	466B65-69	490/22-26	497B41-50	494/87-96
390B41-42	605/53-54	407B29-42	473/19-32	419B07-07	602/32-32	439B72-74	605/80-82	466B69-98	489/37-66	497B51-56	495/01-06
390B61-64	468/91-94	407B43-52	538/62-71	420B41-56	477/56-71	439B72-72	605/80-80	466B95-95	602/37-37	497B61-76	495/35-50
390B65-70	469/01-06	407B53-56	473/75-78	421B01-08	478/16-23	439B81-94	483/61-74	467B01-16	489/76-91	497B81-96	495/07-22
390B67-69	605/55-57	407B58-72	473/80-94	421B11-18	478/40-47	440B01-20	483/75-94	469B01-09	489/67-75	499B01-16	495/51-66
390B81-90	469/07-16	407B73-81	473/33-41	421B21-28	478/48-55	441B01-16	484/01-16	469B10-20	490/01-11	499B21-36	495/67-82
391B07-10	469/46-49	407B77-77	473/79-79	421B45-56	478/70-81	442B02-10	484/28-36	470B01-10	490/12-21	499B41-44	495/83-86
391B07-07	605/58-58	407B84-99	473/44-59	421B59-72	478/56-69	442B21-30	484/17-26	472B01-14	490/27-40	499B45-60	496/01-16
391B08-08	469/34-34	408B01-36	474/01-36	421B73-86	478/82-95	444B01-08	484/37-44	472B17-28	490/41-52	500B01-16	496/17-32
391B11-14	469/17-20	409B01-14	474/37-50	423B61-72	479/01-12	444B21-28	484/45-52	472B33-46	490/74-87	501B01-20	496/33-52
391B16-20	469/22-26	409B14-14	605/68-68	424B01-16	479/14-29	445B01-34	484/53-86	472B49-62	490/53-66	504B05-16	497/01-12
391B21-30	469/50-59	409B15-17	538/72-74	425B01-16	479/30-45	445B02-02	600/44-44	472B65-68	490/88-91	504B21-30	497/45-54
391B31-37	469/27-33	409B17-24	538/75-82	426B01-22	479/46-67	448B01-07	484/87-93	472B81-87	490/67-73	504B21-36	497/13-28
391B39-39	469/35-35	409B25-40	474/51-66	427B53-64	479/78-89	449B01-09	485/13-21	476B01-07	491/01-07	504B41-56	496/53-68
391B41-50	469/36-45	410B01-09	474/67-75	427B71-72	479/90-91	449B21-32	485/01-12	476B21-28	491/08-15	504B61-76	497/29-44
392B01-20	469/60-79	410B01-01	605/69-69	427B73-79	480/01-07	451B21-40	485/42-61	477B01-12	491/16-27	505B01-16	496/69-84
392B02-02	605/59-59	410B04-04	605/70-70	427B89-90	479/76-77	451B38-38	605/73-73	479B01-14	491/28-41	509B01-28	497/55-82
393B01-16	469/80-95	410B15-20	474/81-86	427B91-98	479/68-75	451B41-60	485/22-41	479B17-20	491/62-65	510B01-03	498/35-37
393B16-16	393/81-81	410B21-21	475/01-01	428B01-16	480/08-23	452B01-16	485/62-77	479B22-30	491/67-75	510B04-16	498/44-56
394B01-40	470/01-40	410B21-21	475/02-02	428B21-24	480/24-27	452B01-16	488/51-66	479B27-27	491/66-66	510B14-14	605/74-74
395B01-12	470/41-52	410B24-40	475/04-20	428B33-40	480/28-35	452B03-03	602/36-36	479B33-48	491/42-57	510B14-14	605/74-74
395B03-03	605/79-79	410B31-31	475/03-03	428B53-70	480/36-53	453B01-16	485/78-93	479B49-62	491/76-89	510B14-14	605/74-74
397B15-28	470/53-66	411B01-14	475/69-82	428B72-92	480/55-75	453B21-22	485/96-97	479B63-64	492/01-02	510B14-14	605/74-74
401B01-14	470/67-80	411B15-32	476/01-18	428B80-81	602/33-34	453B23-32	456/79-88	479B65-68	491/58-61	510B29-36	498/01-08
401B16-24	470/82-90	411B15-15	605/71-71	428B87-87	602/35-35	453B33-36	475/83-86	479B69-92	492/03-26	510B41-56	498/09-24
402B01-12	471/01-12	411B33-34	475/67-68	429B01-20	480/76-95	454B01-11	486/34-44	479B87-87	602/38-38	510B61-76	498/57-72
402B01-01	605/64-64	411B41-66	475/41-66	429B21-28	481/01-08	454B21-32	486/11-22	482B21-50	492/27-56	510B81-83	498/32-34
402B13-24	471/25-36	411B67-68	475/21-22	430B01-28	481/09-36	454B41-43	486/45-47	482B31-31	602/41-41	510B84-89	498/38-43
402B25-36	471/13-24	411B81-98	475/23-40	431B01-12	481/37-48	454B44-54	486/23-33	485B01-16	492/57-72	510B90-96	498/25-31
402B33-33	605/65-65	412B41-41	476/19-19	431B31-44	481/49-62	454B55-56	485/94-95	485B21-36	492/73-88	514B01-10	498/73-82
402B37-46	471/37-46	412B43-72	476/21-50	431B51-64	481/63-76	454B71-80	486/01-10	485B41-44	492/89-92	514B11-20	499/07-16
402B47-56	471/57-66	413B25-32	476/51-58	432B01-12	481/77-88	455B01-14	486/80-93	485B45-56	493/01-12	514B21-34	498/83-96
402B57-66	471/47-56	413B60-67	476/59-66	432B31-35	481/89-93	455B21-36	486/64-79	487B01-12	493/13-24	514B35-40	499/01-06
402B61-61	605/60-60	413B68-87	476/75-94	432B36-44	482/01-09	456B01-16	486/48-63	487B13-14	493/31-32	514B41-70	499/17-46
402B63-63	605/61-61	413B88-95	476/67-74	433B01-12	482/33-44	457B25-32	487/01-08	488B01-06	493/25-30	514B57-57	602/43-43
403B01-24	472/01-24	415B01-03	476/95-97	433B31-35	482/10-14	458B01-07	487/09-15	488B07-08	493/33-34	515B01-32	422/60-91
403B31-39	471/67-75	415B04-14	497/83-93	433B36-42	605/01-07	458B05-05	487/20-20	488B21-34	493/35-48	516B01-40	499/47-86
403B31-32	605/62-63	415B15-19	477/01-05	433B51-60	482/15-24	458B08-16	487/32-40	491B01-12	493/49-60	516B41-79	500/01-39
403B41-43	471/77-79	415B18-18	605/72-72	433B71-78	482/25-32	458B21-24	487/16-19	491B21-28	493/77-84	516B88-94	500/54-60
403B45-54	471/81-90	415B25-34	477/06-15	434B01-14	482/45-58	458B26-36	487/21-31	491B41-56	493/61-76	518B01-11	500/75-85
405B01-40	472/25-64	416B08-16	477/16-24	437B01-14	482/83-96	458B41-45	487/41-45	491B44-44	602/42-42	518B12-16	501/01-05
406B01-15	472/65-79	416B09-09	602/27-27	437B15-18	483/01-04	458B47-51	487/47-51	491B61-76	494/11-26	518B17-24	500/86-93
406B15-15	472/80-80	416B11-14	602/28-31	437B15-15	606/16-16	458B61-72	487/52-63	491B87-96	494/01-10	518B23-23	501/22-22

PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID
518B24-35	501/31-42	539B41-46	507/83-88	560B93-98	514/03-08	574B01-20	520/57-76	673B49-62	605/08-21	122C01-07	003/02-08
518B37-52	501/06-21	539B47-56	508/01-10	562B01-16	514/25-40	575B01-18	520/77-94	673B63-72	531/25-34	122C08-15	003/18-25
518B37-37	501/43-43	539B61-76	507/67-82	562B21-36	514/09-24	575B19-20	521/01-02	675B01-62	531/35-96	122C16-24	003/09-17
518B53-66	500/61-74	539B81-96	508/11-26	562B41-56	514/41-56	575B21-40	521/23-42	675B63-72	532/01-10	122C25-36	003/26-37
518B67-80	501/44-57	541B01-14	508/27-40	564B01-16	514/57-72	575B41-60	521/03-22	676B01-16	532/11-26	122C37-56	003/46-65
518B81-94	500/40-53	541B21-34	508/41-54	564B21-36	515/01-16	575B61-76	521/43-58	676B18-18	532/27-27	122C57-64	003/38-45
519B01-40	501/58-97	544B01-16	508/55-70	564B41-56	514/73-88	575B74-74	600/45-45	676B18-86	532/28-96	122C65-84	003/74-93
519B03-03	605/75-75	545B01-16	508/71-86	565B01-16	515/17-32	575B81-88	522/27-34	676B87-96	533/01-10	122C85-92	003/66-73
519B06-06	605/76-76	545B03-08	509/03-08	565B21-23	514/89-91	576B01-34	521/59-92	701B01-24	533/11-34	129C21-24	003/94-97
519B10-17	501/23-30	545B21-36	509/17-32	565B24-36	515/49-61	576B14-14	600/46-46	701B25-38	605/22-35	129C25-36	004/01-12
519B40-40	508/87-87	545B41-41	509/01-01	565B41-56	515/33-48	576B35-60	522/01-26	701B25-38	535/37-50	129C37-53	004/21-37
521B01-16	502/17-32	545B41-56	147/69-84	565B61-70	515/62-71	577B01-12	522/35-46	701B39-48	533/41-50	129C65-72	004/13-20
521B17-32	502/01-16	545B49-56	509/09-16	566B01-20	515/72-91	577B14-18	522/48-52	701B49-54	533/35-40	129C73-92	004/58-77
521B33-48	502/65-80	545B61-76	509/33-48	566B21-40	516/13-32	577B21-40	522/75-94	701B55-64	533/51-60	129C73-92	004/38-57
521B49-64	502/33-48	547B01-16	509/65-80	566B41-46	515/92-97	577B41-62	522/53-74	701B65-72	533/85-92	138C01-03	004/78-80
521B65-80	502/81-96	547B21-36	509/49-64	566B47-48	508/90-91	577B71-90	523/01-20	701B73-96	533/61-84	139C02-04	004/81-83
521B69-69	602/44-44	549B01-08	509/81-88	566B49-60	516/01-12	578B01-16	523/37-52	703B01-24	534/01-24	139C09-14	004/84-89
521B81-96	502/49-64	549B09-16	510/01-08	566B61-80	516/33-52	578B19-34	523/21-36	703B25-48	534/27-50	139C16-21	004/90-95
523B01-16	503/17-32	549B21-36	510/25-40	567B01-16	517/15-30	578B37-52	523/53-68	703B49-50	534/25-26	140C02-03	004/96-97
523B21-36	503/01-16	549B21-21	605/77-77	567B21-34	516/73-86	579B01-08	524/01-08	703B51-59	534/51-59	140C04-07	006/55-58
523B41-56	503/33-48	549B41-56	510/09-24	567B24-24	602/48-48	579B55-74	523/69-88	703B70-72	534/60-62	140C09-14	006/59-64
524B01-16	503/65-80	551B01-16	511/01-16	567B35-36	517/01-02	579B75-94	524/09-28	704B01-10	534/85-94	140C16-21	006/65-70
524B21-36	503/49-64	551B17-32	510/41-56	567B41-56	517/31-46	580B01-40	524/29-68	704B02-08	535/02-08	141C02-16	005/13-27
525B01-08	503/81-88	551B33-48	511/17-32	567B41-41	602/49-49	580B02-02	602/51-51	704B11-22	535/51-62	155C01-03	006/71-73
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527B01-16	504/25-40	551B54-54	602/46-46	568B01-12	517/03-14	581B01-08	524/69-76	704B49-50	535/63-64	156C05-05	006/74-74
527B03-03	602/45-45	551B67-82	511/33-48	568B21-29	517/47-55	582B01-20	524/77-96	704B51-51	535/01-01	156C07-07	006/76-76
527B21-36	504/09-24	551B83-88	510/83-88	568B31-36	517/57-62	584B01-48	525/01-48	704B59-62	535/09-12	156C56-56	006/75-75
527B41-56	504/58-73	551B83-92	510/73-82	568B41-60	517/63-82	584B51-96	525/49-94	705B01-20	535/13-32	157C09-14	005/01-06
527B61-69	504/41-49	553B01-16	511/49-64	569B01-14	517/83-96	584B89-89	602/53-53	705B49-52	535/33-36	157C16-21	005/07-12
527B69-76	504/50-57	553B21-36	511/65-80	569B15-18	518/01-04	584B97-97	525/96-96	040C01-09	001/64-72	158C02-10	005/31-39
527B81-96	504/74-89	555B01-08	511/81-88	569B21-62	518/05-46	584B98-98	525/95-95	040C01-37	001/27-63	158C11-13	005/28-30
528B01-16	505/01-16	555B09-16	512/01-08	570B01-20	518/47-66	585B01-22	526/49-70	040C07-09	001/73-75	158C14-16	005/40-42
531B01-16	505/49-64	555B21-36	512/25-40	571B01-20	518/67-86	585B23-70	526/01-48	083C01-18	001/76-93	162C01-03	005/43-45
531B21-36	505/17-32	555B41-56	512/09-24	571B02-08	519/02-08	585B71-97	526/71-97	083C19-58	002/01-40	163C02-07	005/46-51
532B01-15	505/65-79	557B01-16	512/57-72	571B21-21	519/01-01	586B01-48	527/01-48	083C21-21	001/97-97	163C09-11	005/52-54
532B21-36	505/33-48	557B21-36	512/41-56	571B29-48	519/09-28	586B51-98	527/49-96	083C35-35	002/91-91	165C01-13	005/55-67
533B01-16	506/03-18	557B41-43	512/73-75	571B41-41	519/29-29	669B01-24	528/01-24	083C37-37	002/92-92	165C15-15	005/68-68
533B21-34	505/80-93	557B44-56	513/01-13	571B50-60	519/30-40	669B25-48	528/49-72	083C39-39	002/93-93	168C09-09	005/69-69
533B35-36	506/01-02	558B01-18	512/76-93	572B01-14	519/41-54	669B49-72	528/25-48	083C41-41	002/94-94	168C10-10	006/02-02
533B41-56	506/19-34	558B21-38	513/14-31	572B01-01	605/78-78	669B65-65	602/55-55	083C43-43	002/95-95	168C11-11	005/70-70
533B61-76	506/35-50	560B01-20	513/32-51	572B21-32	519/55-66	669B65-65	602/54-54	083C45-45	002/96-96	168C12-12	006/03-03
533B81-96	506/51-66	560B41-60	513/62-81	572B33-36	516/53-56	669B73-96	528/73-96	083C47-47	002/97-97	169C01-02	006/05-06
534B01-16	506/67-82	560B61-70	513/52-61	572B41-57	519/67-83	670B01-17	529/01-17	083C59-65	006/24-30	169C03-04	006/09-10
534B21-34	506/83-96	560B71-78	513/90-97	572B61-76	516/57-72	670B19-19	529/18-18	083C66-78	002/41-53	169C05-05	007/01-01
534B35-36	507/01-02	560B79-80	508/88-89	572B81-88	519/85-92	670B19-72	529/19-72	083C80-99	002/54-73	169C09-09	007/02-02
534B41-56	507/03-18	560B81-88	513/82-89	572B85-85	519/84-84	672B01-24	529/73-96	103C01-03	006/31-33	169C11-11	007/03-03
539B01-16	507/19-34	560B85-85	602/47-47	573B01-20	520/01-20	672B25-96	530/01-72	103C04-09	006/38-43	169C19-19	007/04-04
539B01-16	507/35-50	560B91-91	514/02-02	573B21-40	520/37-56	673B01-24	530/73-96	103C10-13	006/34-37	169C23-23	007/05-05
539B21-36	507/51-66	560B91-91	514/01-01	573B45-60	520/21-36	673B25-48	531/01-24	103C14-24	006/44-54	169C23-23	007/46-46

PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID	PICNO	VOE ID
169C25-26	007/06-07	219024-26	368/67-69	135S21-30	266/40-49	160S01-24	277/35-58	187S20-24	285/01-05	206S01-14	289/62-75
169C30-30	007/08-08	219024-24	368/46-46	135S61-72	266/28-39	161S01-24	277/59-82	188S01-24	285/06-29	206S15-28	290/01-14
169C32-33	007/09-10	219028-28	368/47-47	136S01-14	266/64-77	162S01-05	277/83-87	189S01-17	285/30-46	206S51-62	290/15-26
169C37-37	007/11-11	219029-34	368/70-75	136S21-30	269/52-61	162S06-24	278/01-19	189S18-24	285/72-78	207S01-24	290/27-50
169C39-40	007/12-13	219030-30	368/48-48	137S02-12	269/29-39	163S01-24	278/20-43	190S01-19	285/79-97	208S01-24	290/51-74
169C44-44	007/14-14	219034-34	601/87-87	137S12-12	269/40-40	163S31-42	278/44-55	190S20-24	286/89-93	209S01-23	290/75-97
169C46-47	007/15-16	219037-40	368/76-79	137S14-24	269/41-51	164S01-08	278/56-63	190S31-32	286/94-95	209S24-24	253/92-92
169C51-51	007/17-17	219038-38	601/88-88	138S01-24	269/62-85	164S06-06	278/64-64	190S41-42	286/96-97	210S01-28	291/01-28
169C53-53	007/18-18	219043-44	368/80-81	139S01-12	269/86-97	164S10-24	278/65-79	190S51-52	289/76-77	210S31-42	291/29-40
169C61-61	007/21-21	219047-47	368/82-82	139S13-16	310/94-97	165S01-14	278/80-93	190S61-62	289/78-79	211S01-28	291/69-96
169C65-65	007/20-20	219048-50	368/64-66	139S17-24	270/01-08	165S15-24	279/01-10	190S71-72	289/80-81	212S01-28	291/41-68
169C67-67	007/19-19	219053-54	368/62-63	140S01-07	270/09-15	166S01-24	279/11-34	190S81-82	289/82-83	213S01-01	291/97-97
170C01-01	007/22-22	219057-60	368/83-86	140S08-24	270/40-56	167S01-28	279/47-74	191S01-10	289/84-93	213S02-06	253/93-97
170C05-05	007/23-23	219057-57	601/89-89	141S01-24	270/57-80	167S04-28	309/01-25	191S11-24	286/01-14	216S01-15	292/01-15
170C07-08	007/24-25	219063-64	368/87-88	142S01-14	270/81-94	167S04-28	285/47-71	192S01-24	286/15-38	216S16-16	292/28-28
170C12-12	007/26-26	219064-64	601/90-90	142S21-30	273/11-20	167S61-72	279/35-46	193S01-24	286/39-62	216S17-28	292/16-27
170C14-15	007/27-28	219067-70	368/89-92	143S01-03	270/95-97	168S01-17	279/75-91	193S24-24	603/04-04	217S01-06	292/29-34
170C19-19	007/29-29	168E06-06	005/71-71	143S04-04	253/88-88	168S18-26	280/01-09	194S01-24	286/63-86	217S21-32	292/35-46
170C25-25	007/33-33	168E10-10	006/01-01	143S05-08	273/01-04	169S01-24	280/10-33	195S01-02	286/87-88	217S41-70	292/47-76
170C34-45	007/34-45	169E01-01	006/04-04	143S06-06	273/05-05	170S01-16	280/34-49	195S03-24	287/01-22	217S70-70	292/77-77
170C35-35	600/01-01	169E02-03	006/07-08	143S10-14	273/06-10	170S13-13	280/50-50	196S01-18	287/23-40	217S72-76	292/78-82
170C38-38	600/07-07	169E04-07	006/11-14	143S21-31	273/21-31	170S18-24	280/51-57	196S16-16	287/41-41	217S77-80	292/87-90
170C47-49	007/47-49	170E03-08	006/15-20	144S01-24	270/16-39	171S01-24	280/58-81	196S20-24	287/42-46	217S81-84	292/83-86
179C21-23	007/30-32	122S01-24	265/05-28	145S01-01	606/21-21	172S01-16	280/82-97	197S01-26	287/47-72	217S85-88	292/91-94
286C01-02	001/03-04	122S31-42	265/29-40	145S02-24	273/32-54	172S17-18	253/89-90	197S31-32	287/73-74	218S01-03	292/95-97
293C05-06	001/05-06	123S01-20	266/78-97	146S01-24	273/55-78	172S19-24	281/01-06	197S35-36	287/75-76	218S07-24	293/01-18
215D01-06	368/01-06	123S21-24	253/83-86	147S01-16	273/79-94	173S01-24	281/07-30	197S41-42	287/77-78	219S01-18	293/19-36
216D01-12	368/07-18	124S01-24	267/01-24	147S17-24	274/01-08	174S01-13	281/31-43	197S45-46	287/79-80	219S09-09	293/37-37
217D03-16	368/19-32	125S01-24	267/25-48	148S01-24	274/09-32	174S14-24	281/44-54	197S51-52	287/81-82	219S20-24	293/38-42
218D01-06	368/33-38	126S01-24	267/49-72	149S01-11	274/33-43	174S31-48	281/55-72	197S55-56	287/83-84	220S01-24	293/43-66
218D08-08	368/39-39	126S12-12	603/01-01	149S19-24	274/44-49	175S01-24	281/73-96	197S61-68	287/85-92	220S31-42	293/67-78
218D12-12	368/40-40	127S01-24	267/73-96	149S31-42	274/50-61	176S01-01	281/97-97	197S69-72	288/01-04	221S01-07	293/79-85
218D14-14	368/41-41	128S01-01	267/97-97	150S01-24	275/02-25	176S02-02	253/91-91	198S01-26	288/05-30	221S08-24	294/01-17
218D16-16	368/42-42	128S02-02	253/87-87	151S01-23	274/62-84	176S03-24	282/01-22	199S01-26	309/42-67	222S01-04	294/18-21
218D20-20	368/43-43	128S03-10	268/01-08	151S24-24	275/01-01	177S01-24	282/23-46	200S01-26	309/68-93	222S04-04	294/22-22
218D22-22	368/44-44	128S11-24	265/41-54	152S01-10	275/26-35	178S01-24	282/47-70	201S01-01	606/22-22	222S06-24	294/23-41
218D24-24	368/45-45	129S01-24	265/55-78	152S12-13	275/36-37	179S01-24	282/71-94	201S02-04	309/95-97	223S01-24	294/42-65
218D68-68	368/49-49	129S31-42	266/05-16	152S14-24	275/52-62	180S01-24	283/01-24	201S05-32	349/58-85	224S10-19	294/66-75
218D70-70	368/50-50	129S51-54	265/79-82	153S01-03	275/63-65	181S01-24	283/25-48	201S21-26	288/31-36	224S31-43	294/76-88
218D72-72	368/54-54	129S55-58	266/01-04	153S04-17	275/38-51	182S01-24	283/49-72	202S01-26	288/37-62	224S44-64	295/01-21
218D76-76	368/55-55	130S01-11	266/17-27	153S21-24	275/81-84	183S01-21	283/73-93	203S01-28	288/63-90	225S01-24	295/22-45
218D78-78	368/56-56	130S12-24	268/09-21	154S01-13	275/85-97	183S22-24	284/01-03	203S27-27	603/05-05	227S01-24	295/46-69
219D02-02	368/51-51	131S01-24	268/22-45	154S12-12	601/55-55	184S01-16	284/04-19	203S51-55	288/91-95	227S31-50	295/70-89
219D06-06	368/52-52	131S03-03	603/02-02	154S14-24	276/01-11	184S07-07	284/20-20	203S56-62	289/01-07	227S51-54	296/01-04
219D08-08	368/53-53	132S01-24	268/46-69	155S01-20	276/12-31	184S18-24	284/21-27	204S01-28	289/20-47	228S31-42	296/05-16
219D10-10	368/57-57	133S01-18	268/70-87	156S01-24	276/32-55	185S01-24	284/28-51	204S07-07	289/14-14	229S01-22	296/27-48
219D14-14	368/58-58	133S18-20	268/88-90	157S01-24	276/56-79	185S11-11	601/56-56	204S51-56	289/08-13	229S31-40	296/17-26
219D16-16	368/59-59	133S21-24	269/01-04	158S01-14	276/80-93	185S14-14	601/57-57	204S58-62	289/15-19	229S51-62	296/49-60
219D18-18	368/60-60	134S01-24	269/05-28	158S15-24	277/01-10	186S01-24	284/52-75	205S01-14	289/48-61	230S01-10	296/61-70
219D22-22	368/61-61	135S01-14	266/50-63	159S01-24	277/11-34	187S01-19	284/76-94	205S15-28	538/34-47	230S31-42	296/71-82

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231S01-14	296/83-96	246S61-70	302/01-10	259S41-50	306/70-79	279S21-21	311/29-29	326S23-24	607/08-09	341S56-60	349/36-40
231S31-31	296/97-97	247S01-10	301/71-80	259S51-52	258/90-91	279S29-32	311/37-40	326S23-24	606/10-11	342S01-12	319/14-25
231S32-41	265/83-92	247S21-30	301/81-90	259S53-66	307/01-14	279S41-50	311/41-50	326S25-26	535/83-84	342S21-33	319/01-13
232S01-16	297/01-16	248S01-10	302/29-38	260S01-08	306/90-97	280S01-09	348/01-09	326S31-39	607/10-18	342S41-52	319/39-50
232S31-37	297/17-23	248S21-38	302/11-28	260S09-12	258/86-89	280S11-14	348/11-14	326S39-43	535/85-89	342S61-73	319/26-38
232S35-35	297/24-24	248S41-44	302/39-42	260S21-30	307/15-24	280S21-32	348/25-36	326S44-46	536/01-03	344S01-08	319/51-58
232S39-40	297/25-26	248S45-46	311/87-88	260S41-50	307/25-34	280S41-48	348/15-22	326S47-48	535/90-91	344S41-52	319/59-70
232S51-62	297/27-38	248S47-50	302/43-46	261S01-12	307/45-56	280S50-50	348/24-24	326S49-50	536/04-05	344S81-87	319/71-77
233S01-12	297/39-50	249S01-12	302/57-68	261S21-30	307/35-44	282S61-76	311/71-86	326S51-52	535/92-93	344S88-92	320/35-39
234S01-08	297/51-58	249S21-30	302/47-56	261S41-50	307/57-66	286S01-10	311/51-60	326S53-54	536/06-07	347S01-15	320/01-15
234S05-05	601/58-58	251S01-12	302/69-80	262S01-14	307/67-80	290S01-10	311/61-70	326S55-56	535/94-95	347S17-31	320/20-34
234S31-38	297/67-74	251S21-30	302/81-90	267S22-30	347/22-30	294S01-10	312/11-20	326S61-66	536/08-13	347S33-36	320/16-19
234S51-58	297/59-66	252S01-24	303/01-24	267S41-50	347/31-40	298S01-10	312/33-42	326S67-68	535/96-97	347S37-51	320/40-54
234S71-80	297/75-84	252S31-54	303/25-48	268S01-11	347/62-72	302S01-12	312/21-32	326S77-78	536/26-27	347S53-71	320/55-73
235S01-10	297/85-94	252S61-84	303/49-72	268S21-30	347/41-50	306S01-10	312/43-52	326S79-80	537/33-34	347S73-88	320/74-89
236S01-03	297/95-97	253S01-10	303/73-82	268S41-49	537/37-45	306S21-27	312/53-59	326S81-82	536/28-29	347S89-99	321/01-11
236S04-04	265/93-93	253S10-19	304/10-19	268S50-50	347/51-51	306S29-30	312/61-62	326S83-84	537/35-36	349S33-48	321/17-32
236S05-12	298/01-08	253S12-12	303/83-83	269S09-11	347/82-84	306S58-58	312/60-60	327S01-12	536/14-25	350S23-32	321/61-70
236S21-30	298/09-18	253S13-24	303/85-96	269S13-14	347/86-87	310S01-10	312/63-72	329S01-14	315/01-14	352S01-08	321/71-78
236S41-50	298/19-28	253S20-20	603/06-06	269S21-32	537/46-57	314S01-10	312/85-94	329S15-16	317/01-02	352S21-26	321/89-94
236S51-66	298/39-54	253S31-39	304/01-09	270S01-14	307/81-94	317S01-12	312/73-84	329S21-36	315/15-30	352S31-40	321/79-88
237S01-12	298/55-66	253S50-54	304/20-24	270S21-32	308/01-12	317S21-23	312/95-97	330S01-12	315/53-64	352S45-78	538/48-61
237S21-30	298/29-38	254S01-24	304/25-48	270S41-50	347/52-61	317S24-25	319/93-94	330S08-08	601/61-61	353S01-01	322/01-01
237S41-50	298/67-76	254S31-54	304/61-84	270S61-76	308/13-28	318S01-12	313/16-27	330S21-30	315/43-52	353S02-12	322/03-13
238S01-12	299/01-12	255S01-05	304/85-89	271S01-14	308/29-42	318S21-30	313/38-47	332S01-12	315/65-76	353S21-32	322/14-25
238S21-30	298/77-86	255S06-07	305/01-02	271S21-32	308/43-54	318S41-50	313/28-37	332S21-30	315/77-86	353S41-52	322/26-37
238S41-50	299/13-22	255S09-09	305/03-03	272S01-14	308/55-68	318S61-72	313/48-59	332S41-52	315/31-42	353S61-72	322/48-59
239S01-16	299/23-38	255S10-14	305/05-09	272S21-32	308/69-80	318S81-92	313/60-71	332S61-67	315/87-93	354S01-10	322/38-47
239S22-22	299/39-39	255S21-32	304/49-60	272S41-50	312/01-10	319S01-10	313/72-81	332S67-67	315/94-94	354S21-32	322/60-71
239S22-36	299/40-54	255S41-52	305/10-21	274S41-54	308/81-94	321S01-12	313/82-93	332S69-71	315/95-97	355S01-20	322/72-91
239S51-57	299/55-61	256S01-12	305/22-33	274S55-56	310/01-02	321S21-32	314/01-12	332S72-72	349/29-29	356S01-10	348/62-71
239S57-57	299/62-62	256S21-30	305/44-53	275S01-08	310/11-18	321S41-44	313/94-97	333S01-12	316/11-22	356S11-16	322/92-97
239S59-66	299/63-70	256S21-21	601/59-59	275S21-28	310/19-26	321S45-52	320/90-97	333S41-52	316/23-34	356S17-17	348/57-57
241S01-16	299/71-86	256S41-50	305/34-43	275S91-98	310/03-10	321S61-72	314/13-24	333S63-72	316/01-10	356S18-20	348/59-61
241S21-36	309/26-41	257S01-12	305/64-75	276S01-08	310/27-34	323S01-15	313/01-15	334S01-15	316/35-49	356S51-58	348/72-79
242S01-16	300/01-16	257S21-30	305/54-63	276S21-28	310/35-42	323S17-31	314/25-39	334S17-31	316/50-64	356S61-68	348/80-87
242S21-36	300/17-32	257S31-52	305/76-97	276S31-33	310/43-45	323S33-52	314/60-79	334S33-65	316/65-97	358S01-10	348/88-97
243S01-12	300/33-44	257S55-56	306/01-02	276S35-37	537/01-03	323S33-33	601/60-60	334S66-71	349/30-35	358S11-15	349/41-45
243S31-38	300/45-52	257S57-66	319/83-92	276S39-41	537/04-06	323S53-72	314/40-59	334S72-76	317/03-07	358S17-25	349/46-54
244S01-08	300/53-60	257S67-84	306/13-30	276S51-76	537/07-32	323S73-77	314/80-84	334S77-88	317/24-35	358S26-26	323/01-01
244S21-28	300/79-86	257S67-68	607/02-03	276S69-70	310/46-47	323S79-90	314/86-97	334S91-99	317/08-16	358S31-38	323/02-09
244S41-46	300/61-66	257S69-69	607/01-01	277S01-10	348/37-46	323S88-88	314/85-85	336S01-12	317/36-47	358S41-48	323/28-35
244S61-66	300/87-92	257S85-94	306/03-12	277S21-30	348/47-56	323S91-99	349/20-28	336S21-32	317/48-59	358S51-54	323/10-13
244S67-76	301/01-10	258S01-04	319/79-82	278S01-14	310/48-61	326S01-14	535/65-78	338S01-12	317/60-71	358S54-54	323/14-14
245S01-12	300/67-78	258S05-12	306/40-47	278S21-32	310/72-83	326S15-16	607/04-05	338S21-32	317/84-95	358S56-62	323/15-21
245S21-30	301/11-20	258S21-29	306/31-39	278S41-50	310/62-71	326S15-16	606/06-07	338S81-92	317/72-83	358S62-62	323/22-22
245S41-50	301/35-44	258S30-30	319/78-78	278S61-62	310/84-85	326S17-18	535/79-80	339S01-14	318/01-14	358S64-68	323/23-27
246S01-14	301/45-58	258S41-50	306/48-57	278S63-76	311/01-14	326S19-20	607/06-07	339S21-34	318/15-28	358S71-86	323/36-51
246S21-34	301/21-34	259S01-12	306/58-69	279S01-14	311/15-28	326S19-20	606/08-09	339S41-54	318/29-42	359S01-12	323/52-63
246S41-52	301/59-70	259S21-30	306/80-89	279S02-08	311/30-36	326S21-22	535/81-82	341S01-55	318/43-97	359S51-62	323/64-75

PIONO	VOE ID	PIONO	VOE ID	PIONO	VOE ID	PIONO	VOE ID	PIONO	VOE ID	PIONO	VOE ID
359S80-82	323/76-78	377S71-88	328/47-64	391S01-06	333/12-17	404S61-68	336/09-16	417S42-42	601/64-64	438S21-36	352/01-16
361S01-11	323/79-89	377S85-85	601/63-63	391S07-08	333/10-11	404S71-74	336/17-20	417S45-56	341/01-12	439S01-36	352/17-52
361S13-18	323/90-95	378S01-15	328/81-95	391S21-21	333/03-03	404S81-84	336/21-24	418S31-56	341/13-38	440S01-36	352/53-88
361S19-20	324/01-02	378S17-31	329/01-15	391S31-36	333/04-09	405S01-08	336/29-36	419S01-20	341/39-58	441S01-36	353/01-36
363S01-02	324/19-20	378S33-49	329/16-32	391S51-58	332/85-92	405S11-14	336/25-28	419S31-56	342/13-38	442S01-36	353/37-72
363S03-16	324/37-50	378S53-69	329/33-49	391S61-65	332/93-97	405S15-30	336/37-52	420S01-24	342/39-62	443S01-23	353/73-95
363S21-36	324/21-36	378S73-88	329/52-67	391S66-66	349/57-57	406S11-24	336/53-66	421S01-02	341/59-60	443S24-36	354/01-13
363S41-56	324/03-18	378S89-90	329/50-51	391S67-68	333/01-02	406S18-28	336/67-77	421S03-11	341/83-91	444S01-36	354/14-49
365S01-05	324/51-55	378S91-99	329/68-76	393S01-04	333/18-21	406S31-50	336/78-97	421S07-18	342/01-12	444S03-04	601/65-66
365S11-16	324/56-61	379S01-04	329/82-85	394S01-04	333/22-25	406S51-52	349/55-56	421S21-21	341/61-61	445S01-36	354/50-85
365S21-26	324/62-67	379S11-12	329/86-87	395S01-14	333/42-55	407S01-22	337/01-22	421S24-44	341/62-82	446S01-07	354/86-92
365S31-45	324/76-90	379S21-30	329/88-97	395S01-16	333/60-75	407S51-53	337/23-25	422S01-14	342/81-94	446S08-36	355/01-29
365S51-58	324/68-75	379S61-64	118/85-88	395S21-24	333/56-59	407S55-55	337/26-26	422S15-24	343/01-10	447S23-36	355/30-43
365S61-75	325/01-15	381S01-02	330/09-10	395S41-48	333/26-33	407S59-61	337/27-29	423S01-05	342/65-69	447S28-29	601/67-68
365S81-84	324/91-94	381S01-04	330/11-14	395S51-58	333/34-41	407S63-65	337/30-32	423S08-18	342/70-80	448S01-36	355/44-79
366S01-08	325/16-23	381S21-24	330/15-18	397S21-21	333/76-76	407S67-69	337/33-35	423S21-22	342/63-64	449S01-14	355/80-93
366S21-32	325/24-35	381S31-34	330/19-22	398S01-12	333/77-88	407S71-73	337/36-38	423S23-29	343/11-17	449S15-36	356/01-22
366S61-72	325/44-55	381S41-50	330/23-32	398S21-22	333/89-90	407S75-77	337/39-41	424S01-24	343/18-41	450S01-36	356/23-58
366S81-81	325/56-56	381S61-62	330/33-34	398S23-32	334/01-10	407S79-81	337/42-44	425S01-18	343/42-59	451S01-34	356/59-92
367S01-08	325/36-43	381S71-72	118/89-90	398S41-52	334/11-22	407S83-85	337/45-47	425S21-44	343/60-83	452S01-05	356/93-97
367S21-27	325/57-63	381S73-74	330/01-02	398S61-72	334/23-34	407S87-89	337/48-50	426S01-18	344/11-28	452S12-36	357/01-25
368S01-06	325/64-69	381S81-86	330/03-08	399S01-08	334/35-42	407S91-93	337/51-53	426S21-44	344/29-52	453S01-36	357/26-61
368S11-22	325/70-81	382S01-08	330/35-42	399S09-11	334/57-59	407S95-97	337/54-56	426S22-22	603/07-07	454S01-36	357/62-97
369S01-12	325/82-93	382S21-28	330/43-50	399S13-15	334/51-53	408S01-18	337/57-74	426S61-74	343/84-97	455S01-14	367/68-81
369S31-48	326/01-18	383S01-14	330/51-64	399S17-19	334/54-56	408S31-34	338/06-09	426S75-84	344/01-10	455S02-02	603/12-12
369S51-52	326/19-20	383S21-26	330/65-70	399S21-28	334/43-50	408S41-44	338/10-13	427S01-36	344/53-88	455S15-20	367/62-67
369S61-68	321/33-40	384S01-02	330/92-93	400S01-03	334/60-62	408S51-54	338/14-17	428S01-19	345/18-36	455S22-34	358/15-27
370S41-54	326/21-34	384S11-17	330/71-77	400S05-07	334/63-65	408S61-77	337/75-91	428S20-36	345/01-17	455S35-36	358/01-02
371S01-12	326/35-46	384S31-43	330/78-90	400S07-08	608/03-04	408S78-82	338/01-05	428S36-36	603/08-08	456S01-11	358/03-13
371S31-40	326/55-64	384S71-71	330/91-91	400S09-11	334/66-68	409S41-44	338/18-21	429S01-36	345/37-72	456S12-36	358/28-52
371S51-58	326/47-54	384S81-84	330/94-97	400S13-15	334/69-71	409S51-53	338/22-24	430S01-24	345/73-96	457S01-15	358/53-67
372S01-12	326/65-76	385S01-08	331/01-08	400S17-19	334/72-74	409S61-64	338/25-28	430S25-36	346/01-12	457S16-29	358/80-93
372S21-34	326/77-90	385S21-28	331/09-16	400S21-23	334/75-77	409S71-71	338/29-29	431S01-36	346/13-48	457S30-36	359/01-07
372S35-36	327/01-02	385S41-54	331/17-30	400S25-27	334/78-80	409S74-74	338/30-30	432S01-36	346/49-84	458S01-12	358/68-79
372S41-44	327/03-06	385S61-74	331/31-44	400S29-31	334/81-83	410S01-08	338/31-38	433S01-11	347/11-21	458S13-35	359/08-30
372S51-58	327/07-14	385S85-88	327/87-90	400S33-35	334/84-86	411S01-22	338/39-60	433S12-36	350/01-25	459S01-36	359/31-66
372S61-66	327/15-20	385S91-94	327/91-94	401S01-08	334/87-94	412S01-18	338/61-78	433S61-73	346/85-97	460S01-24	359/67-90
373S01-04	327/21-24	385S95-98	349/01-04	401S11-16	335/01-06	412S41-44	339/09-12	433S74-74	349/86-86	460S25-36	360/01-12
373S21-28	327/25-32	386S01-04	331/45-48	401S21-26	335/07-12	412S51-54	339/13-16	433S75-84	347/01-10	460S25-25	603/10-10
373S41-48	327/45-52	387S01-12	331/65-76	401S31-38	335/13-20	412S61-64	339/17-20	434S01-32	350/26-57	461S01-24	360/13-36
373S61-72	327/33-44	387S21-34	332/34-47	401S41-44	335/21-24	412S71-84	338/80-93	434S19-32	350/58-71	461S31-64	360/37-70
373S81-94	327/53-66	387S35-50	331/49-64	401S51-52	335/25-26	412S71-71	338/79-79	435S01-26	350/72-97	462S01-26	360/71-96
375S01-13	328/01-13	387S63-77	331/77-91	401S61-62	335/27-28	412S85-92	339/01-08	435S27-27	349/87-87	462S27-32	361/01-06
375S21-32	327/75-86	387S78-98	332/01-21	402S01-12	335/29-40	413S11-56	339/21-66	435S30-30	349/90-90	462S33-36	361/43-46
375S41-51	328/14-24	388S01-01	332/48-48	403S01-16	335/41-56	414S01-08	339/67-74	435S32-32	349/92-92	463S01-36	361/07-42
375S61-68	327/67-74	389S01-14	332/49-62	404S01-08	335/57-64	414S31-46	339/75-90	435S35-36	349/95-96	464S01-36	361/47-82
375S62-62	601/62-62	389S21-30	332/63-72	404S09-12	335/69-72	414S47-56	340/01-10	436S01-36	351/01-36	465S01-14	361/83-96
377S01-09	328/25-33	389S41-44	332/73-76	404S13-16	335/65-68	415S01-20	340/11-30	437S01-36	351/37-72	465S04-04	601/69-69
377S41-42	328/45-46	389S51-54	332/77-80	404S21-34	335/73-86	415S31-56	340/31-56	437S25-25	603/09-09	465S15-36	362/01-22
377S51-61	328/34-44	390S01-04	332/81-84	404S41-48	336/01-08	417S01-20	340/57-76	438S01-20	351/73-92	465S19-19	603/11-11

PICNO	VOE ID	PICNO	VOE ID
466S01-36	362/23-58	483S61-68	367/01-08
467S01-36	362/59-94	483S71-76	367/09-14
468S01-29	363/10-38	484S01-24	367/15-38
468S38-50	366/01-13	485S02-02	367/40-40
468S51-80	363/39-68	485S02-02	367/39-39
468S81-83	363/01-03	485S04-24	367/41-61
468S85-87	363/04-06	486S30-37	363/69-76
468S89-91	363/07-09	617S31-44	340/77-90
469S01-10	536/72-81	744S85-85	603/03-03
469S11-30	536/34-53	908S53-60	310/86-93
469S21-21	601/70-70	029T01-04	264/82-85
469S32-36	536/54-58	040T01-04	265/01-04
470S01-04	536/30-33	083X01-16	002/74-89
470S03-06	367/83-86	083X11-13	001/94-96
470S05-17	536/59-71	083X16-16	002/90-90
470S18-31	536/82-95	323X03-04	319/95-96
470S32-32	367/82-82	334X00-06	317/17-23
471S01-04	363/77-80	347X00-04	321/12-16
471S06-14	363/82-90	378X00-04	329/77-81
471S15-36	364/01-22	378X11-14	328/77-80
472S01-28	364/34-61	378X21-32	328/65-76
472S29-36	364/23-30	387X03-14	332/22-33
472S51-53	364/31-33	747X00-00	225/93-93
473S01-30	364/62-91	753X00-00	228/82-82
473S03-03	601/71-71	771X00-13	234/82-95
473S15-15	601/72-72	004Y01-05	368/93-97
474S01-14	601/73-86	004Y06-06	401/90-90
474S01-04	365/01-04		
474S06-06	365/06-06		
474S08-10	365/08-10		
474S12-15	365/12-15		
474S17-30	365/17-30		
474S32-32	365/32-32		
475S01-01	365/53-53		
475S02-02	365/73-73		
475S03-21	365/54-72		
475S22-32	365/74-84		
475S41-44	365/33-36		
475S51-54	365/37-40		
475S61-64	365/41-44		
475S71-74	365/45-48		
475S81-84	365/49-52		
476S01-06	365/85-90		
476S07-32	366/14-39		
483S01-08	366/40-47		
483S11-18	366/48-55		
483S21-28	366/56-63		
483S31-38	366/64-71		
483S41-48	366/72-79		
483S51-58	366/80-87		

TABLE E-3

VIKING LANDER ARCHIVE INDEX

Viking Lander images are identified in the index by spacecraft number (Viking Lander 1 or 2), camera number (1 or 2) and frame count, a counter composed of a regularly incrementing letter (A, B, etc.), followed by a number which increments from 0 to 255 within each frame count letter. The index is ordered by spacecraft and by frame count within spacecraft.

Repeated entries for the same camera event are due to the taking of triplets, most commonly color triplets (composed of a blue, green, and red diode sequence of images) and sometimes an infrared sequence (consisting of an IR3, IR2, and IR1 diode sequence).

In general, users will want all three files of a triplet sequence for processing.

PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID
12A001	04/001	12A039	04/051	11A077	05/016	12A122	05/066	11A162	06/036	11A194	07/001	11A213	07/051	11AZ30	08/012
12A002	04/002	11A040	04/052	11A078	05/017	12A123	05/067	12A163	06/037	11A194	07/002	11A213	07/052	11AZ31	08/013
12A003	04/003	11A040	04/053	11A079	05/018	12A124	05/068	12A164	06/038	11A194	07/003	11A214	07/053	11AZ31	08/014
12A004	04/004	11A040	04/054	11A080	05/019	12A125	05/069	12A165	06/039	11A195	07/004	11A214	07/054	11AZ31	08/015
12A005	04/005	11A041	04/055	11A081	05/020	12A126	05/070	11A166	06/040	11A195	07/005	11A214	07/055	11AZ32	08/016
12A006	04/006	12A042	04/056	11A083	05/021	11A127	05/071	12A167	06/041	11A195	07/006	11A215	07/056	11AZ32	08/017
12A006	04/007	12A043	04/057	11A084	05/022	11A128	05/072	12A167	06/042	11A196	07/007	11A215	07/057	11AZ32	08/018
12A006	04/008	12A044	04/058	11A085	05/023	11A129	05/073	12A167	06/043	11A196	07/008	11A215	07/058	11AZ33	08/019
12A007	04/009	12A045	04/059	11A086	05/024	11A130	05/074	12A168	06/044	11A196	07/009	11A216	07/059	11AZ33	08/020
12A008	04/010	12A045	04/060	11A087	05/025	11A131	05/075	12A168	06/045	11A197	07/010	11A216	07/060	11AZ33	08/021
12A008	04/011	12A045	04/061	11A088	05/026	11A132	05/076	12A168	06/046	11A197	07/011	11A216	07/061	11AZ34	08/022
12A008	04/012	11A046	04/062	11A089	05/027	11A133	05/077	12A169	06/047	11A197	07/012	11A217	07/062	12AZ35	08/023
12A009	04/013	11A047	04/063	11A090	05/028	12A134	05/078	12A169	06/048	11A198	07/013	11A217	07/063	12AZ36	08/024
12A010	04/014	11A048	04/064	11A091	05/029	12A135	05/079	12A169	06/049	11A198	07/014	11A217	07/064	12AZ37	08/025
12A011	04/015	11A049	04/065	11A091	05/030	12A136	05/080	12A170	06/050	11A198	07/015	11A218	07/065	12AZ38	08/026
12A012	04/016	12A050	04/066	11A091	05/031	11A137	06/001	12A170	06/051	11A199	07/016	11A218	07/066	12AZ39	08/027
12A013	04/017	11A051	04/067	12A092	05/032	11A138	06/002	12A170	06/052	11A199	07/017	11A218	07/067	12AZ39	08/028
12A014	04/018	11A052	04/068	11A093	05/033	12A139	06/003	12A171	06/053	11A199	07/018	11A219	07/068	12AZ39	08/029
12A016	04/019	11A053	04/069	11A093	05/034	12A140	06/004	12A172	06/054	11A200	07/019	11A219	07/069	12A240	08/030
11A017	04/020	12A054	04/070	11A093	05/035	11A141	06/005	11A173	06/055	11A200	07/020	11A219	07/070	12A240	08/031
11A018	04/021	11A055	04/071	11A094	05/036	11A142	06/006	11A174	06/056	11A200	07/021	11AZ20	07/071	12A240	08/032
11A019	04/022	12A056	04/072	11A095	05/037	11A143	06/007	12A175	06/057	11A201	07/022	11AZ20	07/072	12A241	08/033
11A021	04/023	11A057	04/073	11A096	05/038	11A144	06/008	12A176	06/058	11A202	07/023	11AZ20	07/073	12A242	08/034
11A021	04/024	11A058	04/074	11A097	05/039	12A145	06/009	12A177	06/059	11A203	07/024	11AZ21	07/074	12A243	08/035
11A021	04/025	12A059	04/075	11A098	05/040	11A146	06/010	12A178	06/060	11A203	07/025	11AZ21	07/075	12A244	08/036
11A022	04/026	11A060	04/076	11A099	05/041	11A146	06/011	12A179	06/061	11A203	07/026	11AZ21	07/076	12A244	08/037
11A023	04/027	12A061	04/077	11A100	05/042	11A146	06/012	12A180	06/062	11A204	07/027	11AZ22	07/077	12A244	08/038
11A024	04/028	12A062	04/078	11A101	05/043	11A147	06/013	11A181	06/063	11A204	07/028	11AZ22	07/078	12A245	08/039
11A025	04/029	12A062	04/079	12A102	05/044	11A147	06/014	11A181	06/064	11A204	07/029	11AZ22	07/079	12A245	08/040
11A026	04/030	12A062	04/080	12A103	05/045	11A147	06/015	11A181	06/065	11A205	07/030	11AZ23	07/080	12A245	08/041
12A027	04/031	12A063	04/081	12A104	05/046	11A148	06/016	11A182	06/066	11A205	07/031	11AZ23	07/081	12A246	08/042
12A028	04/032	12A064	04/082	11A105	05/047	11A148	06/017	11A182	06/067	11A205	07/032	11AZ23	07/082	12A247	08/043
11A029	04/033	11A065	04/083	12A106	05/048	11A148	06/018	11A182	06/068	11A206	07/033	11AZ24	07/083	12A247	08/044
11A029	04/034	11A066	04/084	12A107	05/049	11A149	06/019	12A183	06/069	11A206	07/034	11AZ24	07/084	12A247	08/045
11A029	04/035	11A067	04/085	12A108	05/050	11A149	06/020	11A184	06/070	11A206	07/035	11AZ24	07/085	12A248	08/046
11A030	04/036	12A068	05/001	12A109	05/051	11A149	06/021	12A185	06/071	11A207	07/036	11AZ25	07/086	12A248	08/047
12A031	04/037	11A069	05/002	12A110	05/052	11A150	06/022	11A186	06/072	11A207	07/037	11AZ25	07/087	12A248	08/048
11A032	04/038	12A070	05/003	11A111	05/053	11A151	06/023	12A187	06/073	11A207	07/038	11AZ25	07/088	12A249	08/049
12A033	04/039	12A071	05/004	12A112	05/054	12A152	06/024	12A188	06/074	11A208	07/039	11AZ26	07/089	11A250	08/050
12A033	04/040	12A071	05/005	12A113	05/055	12A153	06/025	11A189	06/075	11A208	07/040	11AZ27	08/001	11A251	08/051
12A033	04/041	12A071	05/006	11A114	05/056	11A154	06/026	11A190	06/076	11A208	07/041	11AZ27	08/002	11A252	08/052
12A034	04/042	12A072	05/007	11A115	05/057	12A155	06/027	11A190	06/077	11A209	07/042	11AZ27	08/003	11A253	08/053
12A035	04/043	12A073	05/008	12A116	05/058	11A156	06/028	11A190	06/078	11A209	07/043	11AZ28	08/004	11A254	08/054
12A035	04/044	12A073	05/009	11A117	05/059	11A157	06/029	11A191	06/079	11A209	07/044	11AZ28	08/005	11A255	08/055
12A035	04/045	12A073	05/010	11A117	05/060	11A158	06/030	11A192	06/080	11A210	07/045	11AZ28	08/006	12B000	08/056
12A036	04/046	12A074	05/011	11A117	05/061	11A159	06/031	11A192	06/081	11A210	07/046	11AZ29	08/007	11B001	08/057
11A037	04/047	12A074	05/012	11A118	05/062	12A160	06/032	11A192	06/082	11A210	07/047	11AZ29	08/008	11B002	08/058
11A038	04/048	12A074	05/013	12A119	05/063	12A160	06/033	11A193	06/083	12A211	07/048	11AZ29	08/009	11B003	08/059
11A038	04/049	12A075	05/014	11A120	05/064	12A160	06/034	11A193	06/084	12A212	07/049	11AZ30	08/010	11B004	08/060
11A038	04/050	12A076	05/015	12A121	05/065	11A161	06/035	11A193	06/085	11A213	07/050	11AZ30	08/011	11B005	08/061

PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID
11B006	08/062	11B036	09/026	12B070	09/076	11B099	10/041	12B135	11/007	11B169	11/057	12B203	12/017	12B253	12/067
11B007	08/063	11B037	09/027	12B071	09/077	12B100	10/042	12B136	11/008	11B170	11/058	12B204	12/018	11B254	12/068
11B008	08/064	12B038	09/028	12B072	09/078	12B101	10/043	11B137	11/009	11B170	11/059	12B205	12/019	12B255	12/069
11B009	08/065	11B039	09/029	11B073	09/079	11B102	10/044	12B138	11/010	11B170	11/060	12B206	12/020	12C000	12/070
11B010	08/066	11B039	09/030	12B074	09/080	12B103	10/045	11B139	11/011	12B171	11/061	12B207	12/021	11C001	12/071
11B011	08/067	11B039	09/031	12B075	09/081	12B104	10/046	11B140	11/012	12B172	11/062	12B208	12/022	11C002	12/072
11B012	08/068	11B040	09/032	12B075	09/082	12B105	10/047	12B141	11/013	12B172	11/063	12B209	12/023	12C003	12/073
11B013	08/069	11B040	09/033	11B076	09/083	12B105	10/048	12B141	11/014	12B172	11/064	11B210	12/024	12C003	12/074
11B014	08/070	11B040	09/034	12B077	09/084	12B105	10/049	12B141	11/015	11B173	11/065	12B211	12/025	12C003	12/075
11B015	08/071	11B041	09/035	11B078	09/085	12B106	10/050	11B142	11/016	11B174	11/066	12B212	12/026	12C004	12/076
11B015	08/072	11B042	09/036	12B079	10/001	12B107	10/051	11B143	11/017	12B175	11/067	12B213	12/027	12C005	12/077
11B015	08/073	11B042	09/037	12B080	10/002	12B107	10/052	11B143	11/018	12B175	11/068	11B214	12/028	12C005	12/078
12B016	08/074	11B042	09/038	12B080	10/003	12B107	10/053	11B143	11/019	12B175	11/069	12B215	12/029	12C005	12/079
12B017	08/075	11B043	09/039	12B080	10/004	12B108	10/054	11B144	11/020	11B176	11/070	11B216	12/030	12C006	12/080
11B018	08/076	11B043	09/040	12B081	10/005	12B109	10/055	11B145	11/021	12B177	11/071	11B217	12/031	12C006	12/081
11B018	08/077	11B043	09/041	12B081	10/006	12B110	10/056	11B145	11/022	12B177	11/072	12B218	12/032	12C006	12/082
11B018	08/078	11B044	09/042	12B081	10/007	12B111	10/057	11B145	11/023	12B177	11/073	11B219	12/033	12C007	13/001
11B019	08/079	11B045	09/043	12B082	10/008	12B112	10/058	12B146	11/024	12B178	11/074	11B220	12/034	12C007	13/002
11B020	08/080	11B045	09/044	12B082	10/009	12B113	10/059	12B147	11/025	11B179	11/075	11B221	12/035	12C007	13/003
12B021	08/081	11B045	09/045	12B082	10/010	12B114	10/060	12B147	11/026	11B180	11/076	11B222	12/036	12C008	13/004
12B021	08/082	11B046	09/046	12B083	10/011	12B114	10/061	12B147	11/027	11B181	11/077	11B223	12/037	12C009	13/005
12B021	08/083	11B046	09/047	12B083	10/012	12B114	10/062	11B148	11/028	11B182	11/078	11B224	12/038	11C010	13/006
12B022	08/084	11B046	09/048	12B083	10/013	12B115	10/063	11B149	11/029	11B183	11/079	11B225	12/039	12C011	13/007
12B022	08/085	11B047	09/049	12B084	10/014	12B115	10/064	12B150	11/030	12B184	11/080	11B226	12/040	12C012	13/008
12B022	08/086	11B048	09/050	12B085	10/015	12B115	10/065	12B150	11/031	12B185	11/081	12B227	12/041	12C012	13/009
12B023	09/001	12B049	09/051	12B085	10/016	12B116	10/066	12B150	11/032	12B186	11/082	12B228	12/042	12C012	13/010
12B024	09/002	11B050	09/052	12B085	10/017	12B116	10/067	11B151	11/033	11B187	11/083	11B229	12/043	12C013	13/011
12B024	09/003	11B051	09/053	12B086	10/018	12B116	10/068	12B152	11/034	12B188	11/084	11B229	12/044	12C013	13/012
12B024	09/004	11B052	09/054	12B086	10/019	11B117	10/069	12B152	11/035	11B189	11/085	12B231	12/045	12C013	13/013
12B025	09/005	11B053	09/055	12B086	10/020	12B118	10/070	12B152	11/036	11B190	11/086	12B232	12/046	12C014	13/014
12B025	09/006	12B054	09/056	12B087	10/021	11B119	10/071	12B153	11/037	12B191	11/087	12B233	12/047	12C015	13/015
12B025	09/007	12B055	09/057	11B088	10/022	11B120	10/072	11B154	11/038	12B191	11/088	12B234	12/048	11C016	13/016
12B026	09/008	12B056	09/058	11B088	10/023	12B121	10/073	11B155	11/039	12B191	11/089	12B235	12/049	11C017	13/017
12B027	09/009	12B057	09/059	11B088	10/024	11B122	10/074	11B156	11/040	11B192	11/090	12B236	12/050	12C018	13/018
12B027	09/010	11B058	09/060	11B089	10/025	11B123	10/075	11B157	11/041	11B193	12/001	11B237	12/051	12C019	13/019
12B027	09/011	11B059	09/061	11B089	10/026	11B124	10/076	11B158	11/042	11B193	12/002	11B238	12/052	12C019	13/020
12B028	09/012	12B060	09/062	11B089	10/027	12B125	10/077	12B159	11/043	11B193	12/003	11B239	12/053	12C019	13/021
12B028	09/013	11B061	09/063	11B090	10/028	12B125	10/078	12B160	11/044	11B194	12/004	12B240	12/054	12C020	13/022
12B028	09/014	12B062	09/064	11B091	10/029	12B125	10/079	12B161	11/045	11B195	12/005	12B241	12/055	12C020	13/023
12B029	09/015	12B063	09/065	11B091	10/030	11B126	10/080	11B162	11/046	11B195	12/006	12B242	12/056	12C020	13/024
12B030	09/016	11B064	09/066	11B091	10/031	12B127	10/081	12B163	11/047	11B195	12/007	12B243	12/057	12C021	13/025
12B031	09/017	12B065	09/067	11B092	10/032	12B127	10/082	11B164	11/048	12B196	12/008	12B244	12/058	12C022	13/026
12B032	09/018	12B066	09/068	11B092	10/033	12B127	10/083	11B165	11/049	12B197	12/009	12B245	12/059	12C023	13/027
12B032	09/019	11B067	09/069	11B092	10/034	12B128	10/084	12B166	11/050	12B198	12/010	12B246	12/060	12C023	13/028
12B032	09/020	11B068	09/070	11B093	10/035	11B129	11/001	12B166	11/051	12B198	12/011	11B247	12/061	12C023	13/029
12B033	09/021	12B069	09/071	11B094	10/036	11B130	11/002	12B166	11/052	12B198	12/012	11B248	12/062	12C024	13/030
12B033	09/022	12B069	09/072	11B095	10/037	11B131	11/003	11B167	11/053	11B199	12/013	12B249	12/063	12C024	13/031
12B033	09/023	12B069	09/073	12B096	10/038	11B132	11/004	11B168	11/054	12B200	12/014	11B250	12/064	12C024	13/032
12B034	09/024	12B070	09/074	11B097	10/039	11B133	11/005	11B168	11/055	12B201	12/015	12B251	12/065	11C025	13/033
12B035	09/025	12B070	09/075	11B098	10/040	12B134	11/006	11B168	11/056	11B202	12/016	12B252	12/066	11C026	13/034

VIKING LANDER ARCHIVE TAPE CATALOG

PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID
11C027	13/035	11C057	13/085	12C079	14/045	12C103	15/008	12C143	15/058	12C175	16/022	11C215	16/072	12C243	17/037
11C027	13/036	11C057	13/086	12C080	14/046	11C104	15/009	12C144	15/059	12C176	16/023	11C216	16/073	11C244	17/038
11C027	13/037	11C057	13/087	11C081	14/047	11C105	15/010	12C144	15/060	11C177	16/024	11C217	16/074	11C245	17/039
11C028	13/038	11C058	13/088	11C082	14/048	11C106	15/011	12C144	15/061	12C178	16/025	11C218	16/075	11C246	17/040
11C028	13/039	11C058	13/089	12C083	14/049	12C107	15/012	12C145	15/062	12C179	16/026	11C219	16/076	11C247	17/041
11C028	13/040	11C058	13/090	12C083	14/050	12C108	15/013	12C146	15/063	11C180	16/027	11C220	16/077	11C248	17/042
12C029	13/041	11C059	14/001	12C083	14/051	12C109	15/014	11C147	15/064	11C181	16/028	11C221	16/078	11C249	17/043
12C029	13/042	11C059	14/002	11C084	14/052	12C110	15/015	12C148	15/065	11C182	16/029	11C222	16/079	11C250	17/044
12C029	13/043	11C059	14/003	11C084	14/053	12C111	15/016	11C149	15/066	11C182	16/030	11C223	16/080	11C251	17/045
12C030	13/044	11C060	14/004	11C084	14/054	12C112	15/017	11C150	15/067	11C182	16/031	11C224	16/081	11C252	17/046
11C031	13/045	11C060	14/005	11C085	14/055	12C113	15/018	12C151	15/068	12C183	16/032	12C225	16/082	11C253	17/047
11C032	13/046	11C060	14/006	12C086	14/056	12C114	15/019	12C152	15/069	12C184	16/033	12C226	16/083	11C254	17/048
11C033	13/047	11C061	14/007	12C087	14/057	12C115	15/020	12C153	15/070	11C185	16/034	11C227	16/084	11C255	17/049
11C034	13/048	11C061	14/008	11C088	14/058	11C116	15/021	12C153	15/071	11C186	16/035	11C228	16/085	11D000	17/050
11C035	13/049	11C061	14/009	11C088	14/059	11C117	15/022	12C153	15/072	12C187	16/036	12C229	17/001	12D001	17/051
12C036	13/050	11C062	14/010	11C088	14/060	12C118	15/023	12C154	15/073	11C188	16/037	12C229	17/002	12D002	17/052
11C037	13/051	11C062	14/011	11C089	14/061	12C118	15/024	12C155	15/074	11C189	16/038	12C230	17/003	11D003	17/053
11C038	13/052	11C062	14/012	11C089	14/062	12C118	15/025	11C156	15/075	11C190	16/039	12C230	17/004	11D003	17/054
11C039	13/053	11C063	14/013	11C089	14/063	12C119	15/026	11C157	15/076	12C191	16/040	12C230	17/005	11D003	17/055
12C040	13/054	11C063	14/014	11C090	14/064	12C119	15/027	12C158	15/077	12C192	16/041	12C230	17/006	11D004	17/056
12C041	13/055	11C063	14/015	11C090	14/065	12C119	15/028	12C159	15/078	11C193	16/042	11C231	17/007	11D005	17/057
12C042	13/056	11C064	14/016	11C090	14/066	12C120	15/029	11C160	15/079	11C194	16/043	11C232	17/008	11D006	17/058
12C043	13/057	11C064	14/017	11C091	14/067	12C121	15/030	11C161	15/080	12C195	16/044	11C232	17/009	11D007	17/059
12C044	13/058	11C064	14/018	11C092	14/068	12C122	15/031	11C162	15/081	12C196	16/045	11C232	17/010	11D008	17/060
11C045	13/059	12C065	14/019	12C093	14/069	11C123	15/032	12C163	15/082	11C197	16/046	12C233	17/011	11D009	17/061
11C045	13/060	12C065	14/020	12C093	14/070	12C124	15/033	12C163	15/083	11C198	16/047	12C233	17/012	11D010	17/062
11C045	13/061	12C065	14/021	12C093	14/071	11C125	15/034	12C163	15/084	12C199	16/048	12C233	17/013	11D011	17/063
11C046	13/062	12C066	14/022	12C094	14/072	11C125	15/035	12C164	15/085	12C199	16/049	11C234	17/014	11D012	17/064
11C046	13/063	12C066	14/023	12C094	14/073	11C125	15/036	12C165	15/086	12C199	16/050	11C234	17/015	11D012	17/065
11C046	13/064	12C066	14/024	12C094	14/074	11C126	15/037	12C166	16/001	12C200	16/051	11C234	17/016	11D012	17/066
11C047	13/065	11C067	14/025	12C095	14/075	11C126	15/038	12C167	16/002	12C200	16/052	12C235	17/017	11D013	17/067
11C048	13/066	11C068	14/026	12C095	14/076	11C126	15/039	12C168	16/003	12C200	16/053	12C235	17/018	11D013	17/068
11C048	13/067	11C069	14/027	12C095	14/077	11C127	15/040	12C169	16/004	12C201	16/054	12C235	17/019	11D013	17/069
11C048	13/068	11C069	14/028	12C096	14/078	12C128	15/041	12C169	16/005	12C202	16/055	11C236	17/020	11D014	17/070
11C049	13/069	11C069	14/029	12C096	14/079	12C129	15/042	12C169	16/006	12C203	16/056	11C236	17/021	11D014	17/071
11C049	13/070	11C070	14/030	12C096	14/080	11C130	15/043	12C170	16/007	11C204	16/057	12C237	17/023	11D014	17/072
11C049	13/071	11C070	14/031	11C097	14/081	11C131	15/044	12C170	16/008	11C205	16/058	12C237	17/024	11D015	17/073
12C050	13/072	11C070	14/032	11C097	14/082	11C132	15/045	12C170	16/009	12C206	16/059	12C237	17/025	11D015	17/074
12C051	13/073	11C071	14/033	11C097	14/083	11C133	15/046	12C171	16/010	12C207	16/060	11C238	17/026	11D015	17/075
12C052	13/074	11C071	14/034	11C098	14/084	11C134	15/047	12C171	16/011	11C208	16/061	11C238	17/027	11D016	17/076
12C052	13/075	11C071	14/035	11C098	14/085	11C135	15/048	12C171	16/012	11C209	16/062	11C238	17/028	11D017	17/077
12C052	13/076	11C072	14/036	11C098	14/086	11C136	15/049	12C172	16/013	11C209	16/063	11C239	17/022	11D018	17/078
12C053	13/077	11C072	14/037	12C099	14/087	11C137	15/050	12C172	16/014	11C209	16/064	12C239	17/029	12D019	17/079
12C053	13/078	11C072	14/038	11C100	15/001	11C138	15/051	12C172	16/015	11C210	16/065	12C239	17/030	12D020	17/080
12C053	13/079	12C073	14/039	11C100	15/002	12C139	15/052	12C173	16/016	11C211	16/066	12C239	17/031	11D021	17/081
12C054	13/080	12C074	14/040	11C100	15/003	12C140	15/053	12C173	16/017	11C212	16/067	11C240	17/032	11D022	17/082
12C054	13/081	11C075	14/041	11C101	15/004	12C141	15/054	12C173	16/018	12C213	16/068	11C240	17/033	11D023	17/083
12C054	13/082	11C076	14/042	11C101	15/005	11C142	15/055	12C174	16/019	12C213	16/069	11C240	17/034	11D023	17/084
11C055	13/083	11C077	14/043	11C101	15/006	12C142	15/056	12C174	16/020	12C213	16/070	11C241	17/035	11D023	17/085
11C056	13/084	11C078	14/044	12C102	15/007	12C143	15/057	12C174	16/021	11C214	16/071	12C242	17/036	11D024	18/001

PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID
110024	18/002	110065	18/052	120103	19/018	110143	19/068	110193	20/033	110223	20/083	110249	21/047	12E026	22/007
110024	18/003	110066	18/053	120104	19/019	120144	19/069	120194	20/034	120224	20/084	110250	21/048	12E026	22/008
120025	18/004	120067	18/054	120105	19/020	110145	19/070	120194	20/035	120225	20/085	120251	21/049	12E027	22/009
120026	18/005	120068	18/055	120106	19/021	110146	19/071	120194	20/036	110226	20/086	110252	21/050	12E027	22/010
120027	18/006	120068	18/056	120107	19/022	120147	19/072	120195	20/037	110227	21/001	110252	21/051	12E027	22/011
110028	18/007	120068	18/057	120108	19/023	120148	19/073	120195	20/038	110227	21/002	110252	21/052	11E028	22/012
120029	18/008	120069	18/058	110109	19/024	120149	19/074	120195	20/039	110227	21/003	110253	21/053	11E029	22/013
120030	18/009	120069	18/059	110110	19/025	120150	19/075	120196	20/040	110228	21/004	110254	21/054	12E030	22/014
110031	18/010	120069	18/060	120111	19/026	120151	19/076	110197	20/041	110228	21/005	110254	21/055	12E030	22/015
120032	18/011	120070	18/061	120112	19/027	120152	19/077	110197	20/042	110228	21/006	110254	21/056	12E030	22/016
110033	18/012	120070	18/062	120113	19/028	110153	19/078	110197	20/043	110229	21/007	110255	21/057	12E031	22/017
110034	18/013	120070	18/063	120114	19/029	120154	19/079	110198	20/044	110230	21/008	110255	21/058	12E031	22/018
110035	18/014	120071	18/064	120115	19/030	110155	19/080	110199	20/045	110230	21/009	110255	21/059	12E031	22/019
120036	18/015	120071	18/065	120116	19/031	110156	19/081	110199	20/046	110230	21/010	11E000	21/060	12E032	22/020
110037	18/016	120071	18/066	120117	19/032	110157	19/082	110199	20/047	110231	21/011	11E001	21/061	12E032	22/021
120038	18/017	120072	18/067	120118	19/033	110158	19/083	110200	20/048	110232	21/012	11E002	21/062	12E032	22/022
120038	18/018	120072	18/068	120119	19/034	110159	19/084	110201	20/049	110232	21/013	12E003	21/063	12E033	22/023
120038	18/019	120072	18/069	120120	19/035	110160	19/085	110202	20/050	110232	21/014	11E004	21/064	12E033	22/024
120039	18/020	120073	18/070	110121	19/036	110161	20/001	110203	20/051	110233	21/015	11E005	21/065	12E033	22/025
110040	18/021	120073	18/071	110122	19/037	110162	20/002	120204	20/052	110233	21/016	11E006	21/066	12E034	22/026
110040	18/022	120073	18/072	110123	19/038	120163	20/003	120205	20/053	110233	21/017	12E007	21/067	12E034	22/027
110040	18/023	120074	18/073	120124	19/039	110164	20/004	120206	20/054	110234	21/018	12E008	21/068	12E034	22/028
120041	18/024	110075	18/074	120125	19/040	110165	20/005	120206	20/055	110235	21/019	12E009	21/069	12E035	22/029
120042	18/025	110076	18/075	120125	19/041	110166	20/006	120206	20/056	110236	21/020	12E010	21/070	12E035	22/030
120043	18/026	110077	18/076	120125	19/042	110167	20/007	120207	20/057	110237	21/021	12E011	21/071	12E035	22/031
120044	18/027	110078	18/077	110126	19/043	120168	20/008	120207	20/058	110237	21/022	12E012	21/072	12E036	22/032
110045	18/028	120079	18/078	120127	19/044	120169	20/009	120207	20/059	110237	21/023	11E013	21/073	12E036	22/033
110046	18/029	120080	18/079	120127	19/045	110170	20/010	110208	20/060	110238	21/024	12E014	21/074	12E036	22/034
110047	18/030	110081	18/080	120127	19/046	120171	20/011	110209	20/061	110239	21/025	12E015	21/075	11E037	22/035
110048	18/031	110082	18/081	110128	19/047	110172	20/012	110209	20/062	110240	21/026	12E016	21/076	11E038	22/036
110049	18/032	110083	18/082	110128	19/048	120173	20/013	110209	20/063	110240	21/027	11E017	21/077	11E039	22/037
110050	18/033	110084	18/083	110128	19/049	110174	20/014	120210	20/064	110240	21/028	12E018	21/078	12E043	22/041
110051	18/034	110085	18/084	110129	19/050	120175	20/015	120210	20/065	110241	21/029	12E018	21/079	12E044	22/042
110052	18/035	110086	19/001	110130	19/051	120176	20/016	120210	20/066	110241	21/030	12E018	21/080	12E045	22/043
110053	18/036	120087	19/002	120131	19/052	110177	20/017	120211	20/067	110241	21/031	11E019	21/081	12E046	22/044
110054	18/037	120088	19/003	120132	19/053	110178	20/018	120211	20/068	110242	21/032	11E019	21/082	12E047	22/045
110055	18/038	120089	19/004	110133	19/054	110179	20/019	120211	20/069	110243	21/033	11E019	21/083	12E048	22/046
120056	18/039	120090	19/005	110134	19/055	110180	20/020	120212	20/070	110244	21/034	11E020	21/084	12E049	22/047
120057	18/040	120091	19/006	110135	19/056	120181	20/021	110213	20/071	110244	21/035	11E020	21/085	12E050	22/048
110058	18/041	120092	19/007	120136	19/057	120182	20/022	110214	20/072	110244	21/036	11E020	21/086	12E051	22/049
110059	18/042	120093	19/008	120136	19/058	110183	20/023	120215	20/073	110245	21/037	11E021	21/087	12E052	22/050
120060	18/043	110094	19/009	120136	19/059	110184	20/024	120216	20/074	110245	21/038	11E021	21/088	11E053	22/051
110061	18/044	110095	19/010	120137	19/060	110185	20/025	120217	20/075	110245	21/039	11E021	21/089	11E054	22/052
110062	18/045	120096	19/011	120138	19/061	120186	20/026	120218	20/076	110246	21/040	11E022	21/090	11E055	22/053
110062	18/046	110097	19/012	120139	19/062	120187	20/027	120218	20/077	120247	21/041	12E023	22/001	11E056	22/054
110062	18/047	110098	19/013	120140	19/063	120188	20/028	120218	20/078	110248	21/042	12E024	22/002	11E057	22/055
110063	18/048	110099	19/014	110141	19/064	120189	20/029	110219	20/079	110248	21/043	12E025	22/003	12E058	22/056
110063	18/049	120100	19/015	110141	19/065	110190	20/030	110220	20/080	110248	21/044	12E025	22/004	12E059	22/057
110063	18/050	120101	19/016	110141	19/066	110191	20/031	110221	20/081	110249	21/045	12E025	22/005	12E060	22/058
120064	18/051	120102	19/017	120142	19/067	110192	20/032	110222	20/082	110249	21/046	12E026	22/006	11E061	22/059

PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID
12E062	22/060	12E092	23/022	12E128	23/072	12E156	24/039	11E186	24/089	11E219	25/049	11E243	26/010	11F005	26/060
11E063	22/061	12E093	23/023	12E129	23/073	11E157	24/040	12E187	24/090	11E219	25/050	11E243	26/011	11F006	26/061
12E064	22/062	12E094	23/024	12E129	23/074	11E157	24/041	12E188	25/001	12E220	25/051	11E243	26/012	11F006	26/062
12E064	22/063	12E095	23/025	12E129	23/075	11E157	24/042	12E188	25/002	12E221	25/052	11E244	26/013	11F006	26/063
12E064	22/064	12E096	23/026	12E130	23/076	11E158	24/043	12E188	25/003	12E222	25/053	11E244	26/014	11F007	26/064
11E065	22/065	12E097	23/027	12E130	23/077	11E159	24/044	12E189	25/004	12E222	25/054	11E244	26/015	11F007	26/065
11E066	22/066	11E098	23/028	12E130	23/078	11E160	24/045	12E189	25/005	12E222	25/055	11E245	26/016	11F007	26/066
11E067	22/067	12E099	23/029	11E131	23/079	12E161	24/046	12E189	25/006	12E223	25/056	11E245	26/017	11F008	26/067
11E067	22/068	12E100	23/030	11E132	23/080	12E162	24/047	12E190	25/007	12E223	25/057	11E245	26/018	11F008	26/068
11E067	22/069	11E101	23/031	12E133	23/081	12E163	24/048	12E190	25/008	12E223	25/058	11E246	26/019	11F008	26/069
11E068	22/070	12E102	23/032	11E134	23/082	12E163	24/049	12E190	25/009	11E224	25/059	11E246	26/020	12F009	26/070
11E068	22/071	12E103	23/033	11E135	23/083	12E163	24/050	11E191	25/010	11E225	25/060	11E246	26/021	12F009	26/071
11E068	22/072	12E104	23/034	11E136	24/001	12E164	24/051	11E192	25/011	11E226	25/061	11E247	26/022	12F009	26/072
11E069	22/073	12E105	23/035	11E136	24/002	12E164	24/052	12E193	25/012	12E227	25/062	11E247	26/023	12F010	26/073
11E069	22/074	12E106	23/036	11E136	24/003	12E164	24/053	12E194	25/013	11E228	25/063	11E247	26/024	12F010	26/074
11E069	22/075	12E107	23/037	11E137	24/004	12E165	24/054	11E195	25/014	11E229	25/064	11E248	26/025	12F010	26/075
11E070	22/076	12E108	23/038	11E137	24/005	12E165	24/055	11E196	25/015	12E230	25/065	11E249	26/026	11F011	26/076
11E070	22/077	12E109	23/039	11E137	24/006	12E165	24/056	11E197	25/016	12E230	25/066	11E250	26/027	11F012	26/077
11E070	22/078	11E110	23/040	11E138	24/007	11E166	24/057	11E198	25/017	12E230	25/067	11E250	26/028	11F013	26/078
11E071	22/079	12E111	23/041	11E139	24/008	11E167	24/058	11E199	25/018	12E231	25/068	11E250	26/029	11F014	26/079
11E072	22/080	11E112	23/042	12E140	24/009	12E168	24/059	11E200	25/019	12E231	25/069	11E251	26/030	11F015	26/080
11E072	22/081	11E113	23/043	12E140	24/010	11E169	24/060	11E201	25/020	12E231	25/070	11E251	26/031	11F016	26/081
11E072	22/082	11E114	23/044	12E140	24/011	11E170	24/061	11E202	25/021	12E232	25/071	11E251	26/032	11F017	26/082
11E073	22/083	11E115	23/045	12E141	24/012	11E171	24/062	11E203	25/022	12E232	25/072	11E252	26/033	11F018	26/083
11E073	22/084	11E116	23/046	12E141	24/013	11E171	24/063	11E204	25/023	12E232	25/073	11E252	26/034	12F019	26/084
11E073	22/085	12E117	23/047	12E141	24/014	11E171	24/064	12E205	25/024	11E233	25/074	11E252	26/035	12F020	26/085
11E074	22/086	11E118	23/048	12E142	24/015	11E172	24/065	12E206	25/025	11E234	25/075	11E253	26/036	11F021	26/086
11E074	22/087	11E119	23/049	12E142	24/016	11E172	24/066	11E207	25/026	12E235	25/076	11E253	26/037	12F022	26/087
11E074	22/088	11E120	23/050	12E142	24/017	11E172	24/067	12E208	25/027	12E236	25/077	11E253	26/038	11F023	26/088
11E075	23/001	11E120	23/051	12E143	24/018	11E173	24/068	11E209	25/028	12E237	25/078	11E254	26/039	11F024	27/001
11E075	23/002	11E120	23/052	12E143	24/019	11E174	24/069	11E210	25/029	12E237	25/079	11E254	26/040	12F025	27/002
11E075	23/003	11E121	23/053	12E143	24/020	11E175	24/070	11E211	25/030	12E237	25/080	11E254	26/041	12F025	27/003
12E076	23/004	11E121	23/054	12E144	24/021	11E175	24/071	11E212	25/031	12E238	25/081	11E255	26/042	12F025	27/004
12E076	23/005	11E121	23/055	12E145	24/022	11E175	24/072	11E212	25/032	12E238	25/082	11E255	26/043	12F026	27/005
12E076	23/006	11E122	23/056	12E146	24/023	11E176	24/073	11E212	25/033	12E238	25/083	11E255	26/044	12F026	27/006
11E077	23/007	11E123	23/057	12E147	24/024	11E176	24/074	11E213	25/034	12E239	25/084	11F000	26/045	12F026	27/007
11E078	23/008	11E123	23/058	12E148	24/025	11E176	24/075	11E213	25/035	12E239	25/085	11F000	26/046	12F027	27/008
11E079	23/009	11E123	23/059	11E149	24/026	11E177	24/076	11E213	25/036	12E239	25/086	11F000	26/047	12F027	27/009
12E080	23/010	11E124	23/060	11E150	24/027	11E177	24/077	11E214	25/037	12E240	22/038	11F001	26/048	12F027	27/010
11E081	23/011	11E124	23/061	11E151	24/028	11E177	24/078	11E215	25/038	11E240	26/001	11F001	26/049	12F028	27/011
11E082	23/012	11E124	23/062	11E152	24/029	11E178	24/079	11E216	25/039	11E240	26/002	11F001	26/050	12F028	27/012
12E083	23/013	12E125	23/063	11E153	24/030	11E178	24/080	11E216	25/040	11E240	26/003	11F002	26/051	12F028	27/013
11E084	23/014	12E126	23/064	12E154	24/031	11E178	24/081	11E216	25/041	11E241	22/039	11F002	26/052	11F029	27/014
11E085	23/015	12E126	23/065	12E154	24/032	12E179	24/082	11E217	25/042	11E241	26/004	11F002	26/053	11F030	27/015
11E086	23/016	12E126	23/066	12E154	24/033	12E180	24/083	11E217	25/043	11E241	26/005	11F003	26/054	11F031	27/016
11E087	23/017	12E127	23/067	12E155	24/034	12E181	24/084	11E217	25/044	11E241	26/006	11F003	26/055	11F031	27/017
11E088	23/018	12E127	23/068	12E155	24/035	11E182	24/085	11E218	25/045	12E242	22/040	11F003	26/056	11F031	27/018
11E089	23/019	12E127	23/069	12E155	24/036	12E183	24/086	11E218	25/046	11E242	26/007	12F004	26/057	11F032	27/019
11E090	23/020	12E128	23/070	12E156	24/037	12E184	24/087	11E218	25/047	11E242	26/008	11F005	26/058	11F032	27/020
11E091	23/021	12E128	23/071	12E156	24/038	11E185	24/088	11E219	25/048	11E242	26/009	11F005	26/059	11F032	27/021

PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID
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12F034	27/023	12F069	27/073	12F102	28/040	11F140	29/001	12F169	29/051	12F202	30/014	12F241	30/064	11G017	31/024
12F035	27/024	12F069	27/074	12F103	28/041	11F141	29/002	12F169	29/052	12F202	30/015	12F242	30/065	11G018	31/025
12F036	27/025	12F070	27/075	11F104	28/042	12F142	29/003	12F170	29/053	12F203	30/016	11F243	30/066	11G018	31/026
12F037	27/026	12F070	27/076	12F105	28/043	12F143	29/004	12F170	29/054	12F203	30/017	12F244	30/067	11G018	31/027
12F038	27/027	12F070	27/077	12F106	28/044	12F144	29/005	12F170	29/055	12F203	30/018	11F245	30/068	11G019	31/028
12F039	27/028	12F071	27/078	12F107	28/045	11F145	29/006	11F171	29/056	11F204	30/019	11F246	30/069	11G019	31/029
12F040	27/029	12F071	27/079	12F107	28/046	11F146	29/007	11F172	29/057	11F205	30/020	11F246	30/070	11G019	31/030
11F041	27/030	12F071	27/080	12F107	28/047	11F147	29/008	11F173	29/058	12F206	30/021	11F246	30/071	11G020	31/031
11F042	27/031	12F072	27/081	11F108	28/048	11F148	29/009	11F174	29/059	12F207	30/022	11F247	30/072	11G020	31/032
11F042	27/032	12F072	27/082	11F109	28/049	12F149	29/010	11F174	29/060	11F208	30/023	11F247	30/073	11G020	31/033
11F042	27/033	12F072	27/083	11F110	28/050	12F150	29/011	11F174	29/061	12F209	30/024	11F247	30/074	11G021	31/034
11F043	27/034	12F073	28/001	12F111	28/051	12F151	29/012	12F175	29/062	12F210	30/025	12F248	30/075	11G021	31/035
11F043	27/035	12F073	28/002	11F112	28/052	11F152	29/013	12F175	29/063	12F211	30/026	12F249	30/076	11G021	31/036
11F043	27/036	12F073	28/003	11F113	28/053	12F153	29/014	12F175	29/064	12F212	30/027	11F250	30/077	11G022	31/037
11F044	27/037	11F074	28/004	11F114	28/054	11F154	29/015	12F176	29/065	12F213	30/028	11F251	30/078	11G023	31/038
11F044	27/038	11F075	28/005	11F115	28/055	12F155	29/016	12F176	29/066	12F214	30/029	11F252	30/079	11G023	31/039
11F044	27/039	11F076	28/006	11F116	28/056	11F156	29/017	12F176	29/067	12F215	30/030	11F253	30/080	11G023	31/040
11F045	27/040	11F077	28/007	12F117	28/057	12F157	29/018	12F177	29/068	12F216	30/031	11F254	30/081	11G024	31/041
11F046	27/041	12F078	28/008	11F118	28/058	12F157	29/019	12F177	29/069	12F217	30/032	12F255	30/082	11G024	31/042
12F047	27/042	11F079	28/009	11F119	28/059	12F157	29/020	12F177	29/070	12F218	30/033	12G000	30/083	11G024	31/043
12F047	27/043	11F080	28/010	11F119	28/060	12F158	29/021	11F178	29/071	12F219	30/034	11G001	30/084	11G025	31/044
12F047	27/044	11F081	28/011	11F119	28/061	12F158	29/022	12F179	29/072	11F220	30/035	11G001	30/085	11G026	31/045
11F048	27/045	11F082	28/012	12F120	28/062	12F158	29/023	12F179	29/073	12F221	30/036	11G001	30/086	11G026	31/046
11F049	27/046	11F083	28/013	11F121	28/063	12F159	29/024	12F179	29/074	12F222	30/037	11G002	30/087	11G026	31/047
11F050	27/047	11F084	28/014	12F122	28/064	11F160	29/025	12F180	29/075	12F223	30/038	11G002	30/088	11G027	31/048
11F051	27/048	11F085	28/015	11F123	28/065	11F161	29/026	11F182	29/077	12F224	30/039	11G002	30/089	11G027	31/049
11F052	27/049	11F086	28/016	12F124	28/066	11F161	29/027	12F183	29/078	11F225	30/040	12G003	30/090	11G027	31/050
11F053	27/050	11F087	28/017	12F125	28/067	11F161	29/028	12F184	29/079	11F226	30/041	11G004	31/001	11G028	31/051
12F054	27/051	11F088	28/018	12F125	28/068	11F162	29/029	11F185	29/080	12F227	30/042	12G005	31/002	11G028	31/052
12F055	27/052	12F089	28/019	12F125	28/069	11F162	29/030	12F186	29/081	12F228	30/043	11G006	31/003	11G028	31/053
12F056	27/053	12F089	28/020	11F126	28/070	11F162	29/031	12F187	29/082	12F229	30/044	11G007	31/004	11G029	31/054
12F057	27/054	12F089	28/021	12F127	28/071	11F163	29/032	12F188	29/083	11F230	30/045	11G007	31/005	11G029	31/055
11F058	27/055	12F090	28/022	11F128	28/072	11F163	29/033	12F189	29/084	12F231	30/046	11G007	31/006	11G029	31/056
11F059	27/056	12F090	28/023	12F129	28/073	11F163	29/034	12F190	29/085	12F232	30/047	11G008	31/007	11G030	31/057
11F060	27/057	12F090	28/024	11F130	28/074	11F164	29/035	12F191	29/086	12F233	30/048	11G008	31/008	11G030	31/058
12F061	27/058	12F091	28/025	11F131	28/075	11F164	29/036	11F192	29/087	12F234	30/049	11G008	31/009	11G030	31/059
12F061	27/059	12F091	28/026	11F131	28/076	11F164	29/037	11F193	29/088	12F235	30/050	11G009	31/010	11G031	31/060
12F061	27/060	12F091	28/027	11F131	28/077	12F165	29/038	12F194	30/001	12F236	30/051	11G009	31/011	11G031	31/061
12F062	27/061	12F092	28/028	11F132	28/078	12F165	29/039	12F195	30/002	11F237	30/052	11G009	31/012	11G031	31/062
12F062	27/062	12F092	28/029	12F133	28/079	12F165	29/040	12F196	30/003	11F237	30/053	11G010	31/013	11G032	31/063
12F062	27/063	12F092	28/030	12F134	28/080	12F166	29/041	11F197	30/004	11F237	30/054	11G010	31/014	11G032	31/064
12F063	27/064	11F093	28/031	12F134	28/081	12F166	29/042	11F198	30/005	11F238	30/055	11G010	31/015	11G032	31/065
12F063	27/065	11F094	28/032	12F134	28/082	12F166	29/043	12F199	30/006	11F238	30/056	11G011	31/016	11G033	31/066
12F063	27/066	11F095	28/033	12F135	28/083	12F167	29/044	12F199	30/007	11F238	30/057	11G012	31/017	11G033	31/067
11F064	27/067	12F096	28/034	12F136	28/084	12F167	29/045	12F199	30/008	11F239	30/058	11G013	31/018	11G033	31/068
11F065	27/068	11F097	28/035	12F136	28/085	12F167	29/046	12F200	30/009	11F239	30/059	11G014	31/019	11G034	31/069
12F066	27/069	12F098	28/036	12F136	28/086	12F168	29/047	12F200	30/010	11F239	30/060	11G015	31/020	11G034	31/070
12F067	27/070	12F099	28/037	11F137	28/087	12F168	29/048	12F200	30/011	11F240	30/061	11G016	31/021	11G034	31/071
12F068	27/071	11F100	28/038	11F138	28/088	12F168	29/049	11F201	30/012	11F240	30/062	11G017	31/022	11G035	31/072

PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID
11G035	31/073	11G076	32/034	11G116	32/084	11G148	33/019	11G184	33/069	12G214	34/001	12G248	34/051	11H023	34/101
11G035	31/074	11G076	32/035	11G117	32/085	11G148	33/020	11G185	33/070	11G215	34/002	12G249	34/052	11H023	34/102
11G036	31/075	11G076	32/036	11G118	32/086	11G148	33/021	11G185	33/071	11G216	34/003	12G250	34/053	11H024	34/103
11G037	31/076	11G077	32/037	11G119	32/087	12G149	33/022	11G185	33/072	11G217	34/004	12G251	34/054	11H024	34/104
11G037	31/077	11G078	32/038	12G120	32/088	12G150	33/023	11G186	33/073	11G218	34/005	12G251	34/055	11H024	34/105
11G037	31/078	12G079	32/039	12G121	32/089	12G151	33/024	11G186	33/074	11G219	34/006	12G251	34/056	11H025	34/106
11G038	31/079	11G080	32/040	11G122	32/090	12G152	33/025	11G186	33/075	11G220	34/007	11G252	34/057	11H026	34/107
11G038	31/080	12G081	32/041	11G123	32/091	11G153	33/026	11G187	33/076	11G221	34/008	12G253	34/058	11H027	34/108
11G038	31/081	12G081	32/042	11G124	32/092	11G153	33/027	11G187	33/077	12G222	34/009	12G254	34/059	11H028	34/109
11G039	31/082	12G081	32/043	11G125	32/093	11G153	33/028	11G187	33/078	11G223	34/010	12G254	34/060	11H029	34/110
11G040	31/083	11G082	32/044	11G126	32/094	11G154	33/029	11G188	33/079	11G224	34/011	12G254	34/061	12H030	34/111
12G041	31/084	11G083	32/045	12G127	32/095	11G154	33/030	11G189	33/080	12G225	34/012	12G255	34/062	11H031	34/112
12G042	31/085	11G084	32/046	11G128	32/096	11G154	33/031	11G190	33/081	11G226	34/013	12G255	34/063	11H032	34/113
11G043	31/086	11G085	32/047	11G129	32/097	11G155	33/032	11G191	33/082	11G227	34/014	12G255	34/064	11H033	34/114
11G044	31/087	11G086	32/048	11G130	32/098	11G155	33/033	11G191	33/083	11G227	34/015	11H000	34/065	11H034	34/115
11G045	31/088	11G087	32/049	11G130	32/099	11G155	33/034	11G191	33/084	11G227	34/016	11H000	34/066	11H035	34/116
12G046	31/089	11G088	32/050	11G130	32/100	11G156	33/035	11G192	33/085	11G228	34/017	11H000	34/067	11H036	35/001
11G047	32/001	11G089	32/051	11G131	32/101	11G156	33/036	11G192	33/086	11G228	34/018	11H001	34/068	11H037	35/002
11G048	32/002	11G090	32/052	11G131	32/102	11G156	33/037	11G192	33/087	11G228	34/019	11H001	34/069	11H038	35/003
11G049	32/003	12G091	32/053	11G131	32/103	11G157	33/038	11G193	33/088	12G229	34/020	11H001	34/070	11H039	35/004
11G050	32/004	12G092	32/054	11G132	32/104	12G158	33/039	11G193	33/089	12G229	34/021	12H002	34/071	12H040	35/005
11G051	32/005	11G093	32/055	11G133	32/105	12G158	33/040	11G193	33/090	12G229	34/022	12H003	34/072	12H041	35/006
11G052	32/006	11G094	32/056	11G134	32/106	12G158	33/041	12G194	33/091	12G230	34/023	12H004	34/073	11H042	35/007
11G053	32/007	11G095	32/057	11G135	32/107	12G159	33/042	11G195	33/092	12G230	34/024	11H005	34/074	11H043	35/008
11G054	32/008	11G096	32/058	12G136	32/108	12G159	33/043	12G196	33/093	12G230	34/025	11H005	34/075	11H044	35/009
11G055	32/009	11G097	32/059	11G137	32/109	12G159	33/044	12G197	33/094	12G231	34/026	11H005	34/076	11H045	35/010
11G056	32/010	11G098	32/060	11G137	32/110	11G160	33/045	12G197	33/095	12G231	34/027	12H006	34/077	11H046	35/011
11G057	32/011	11G099	32/061	11G137	32/111	11G161	33/046	12G197	33/096	12G231	34/028	11H007	34/078	11H047	35/012
11G058	32/012	12G100	32/062	11G138	32/112	11G162	33/047	12G198	33/097	12G232	34/029	11H008	34/079	11H048	35/013
11G059	32/013	11G101	32/063	11G138	32/113	11G163	33/048	12G198	33/098	12G232	34/030	11H009	34/080	11H049	35/014
11G060	32/014	11G102	32/064	11G138	32/114	11G164	33/049	12G198	33/099	12G232	34/031	11H010	34/081	11H050	35/015
11G061	32/015	11G103	32/065	11G139	32/115	11G165	33/050	12G199	33/100	12G233	34/032	11H011	34/082	11H050	35/016
11G062	32/016	11G104	32/066	11G140	33/001	11G166	33/051	12G199	33/101	12G233	34/033	11H012	34/083	11H050	35/017
11G063	32/017	11G105	32/067	11G140	33/002	11G167	33/052	12G199	33/102	12G233	34/034	12H013	34/084	12H051	35/018
11G064	32/018	11G106	32/068	11G140	33/003	11G168	33/053	12G200	33/103	12G234	34/035	11H014	34/085	12H051	35/019
12G065	32/019	11G107	32/069	11G141	33/004	11G169	33/054	12G200	33/104	12G234	34/036	11H015	34/086	12H051	35/020
12G066	32/020	12G108	32/070	11G141	33/005	12G170	33/055	12G200	33/105	12G234	34/037	11H015	34/087	12H052	35/021
11G067	32/021	12G109	32/071	11G141	33/006	12G171	33/056	11G201	33/106	11G235	34/038	11H015	34/088	11H053	35/022
11G068	32/022	11G110	32/072	11G142	33/007	11G172	33/057	11G202	33/107	11G236	34/039	11H016	34/089	12H054	35/023
11G069	32/023	11G110	32/073	11G143	33/008	11G173	33/058	11G203	33/108	11G237	34/040	11H016	34/090	12H055	35/024
11G070	32/024	11G110	32/074	11G144	33/009	11G174	33/059	12G204	33/109	11G238	34/041	11H016	34/091	12H056	35/025
11G071	32/025	11G111	32/075	11G144	33/010	11G175	33/060	12G205	33/110	11G239	34/042	11H017	34/092	12H057	35/026
11G072	32/026	11G111	32/076	11G144	33/011	11G176	33/061	11G206	33/111	11G240	34/043	11H018	34/093	12H058	35/027
11G073	32/027	11G111	32/077	11G145	33/012	11G177	33/062	11G207	33/112	12G241	34/044	12H019	34/094	12H059	35/028
11G074	32/028	12G112	32/078	11G145	33/013	11G178	33/063	11G208	33/113	11G242	34/045	12H020	34/095	12H060	35/029
11G074	32/029	12G112	32/079	11G145	33/014	11G179	33/064	11G209	33/114	11G243	34/046	11H021	34/096	12H061	35/030
11G074	32/030	12G112	32/080	11G146	33/015	11G180	33/065	11G210	33/115	11G244	34/047	11H022	34/097	12H062	35/031
11G075	32/031	11G113	32/081	11G147	33/016	11G181	33/066	12G211	33/116	11G245	34/048	11H022	34/098	11H063	35/032
11G075	32/032	11G114	32/082	11G147	33/017	12G182	33/067	11G212	33/117	11G246	34/049	11H022	34/099	12H064	35/033
11G075	32/033	11G115	32/083	11G147	33/018	12G183	33/068	12G213	33/118	11G247	34/050	11H023	34/100	12H065	35/034

PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID
11H066	35/035	12H110	35/085	11H160	36/021	11H180	36/071	11H214	37/006	111004	37/056	111046	37/106	111082	38/042
11H067	35/036	11H111	35/086	11H161	36/022	11H181	36/072	11H215	37/007	111005	37/057	121047	37/107	111082	38/043
11H067	35/037	11H112	35/087	11H162	36/023	11H181	36/073	11H216	37/008	121006	37/058	111048	37/108	111082	38/044
11H067	35/038	11H113	35/088	11H162	36/024	11H181	36/074	11H217	37/009	111007	37/059	111049	37/109	121083	38/045
11H068	35/039	11H114	35/089	11H162	36/025	11H182	36/075	12H218	37/010	121008	37/060	111049	37/110	111084	38/046
11H068	35/040	11H115	35/090	11H163	36/026	11H182	36/076	11H219	37/011	111009	37/061	111049	37/111	111085	38/047
11H068	35/041	11H116	35/091	11H163	36/027	11H182	36/077	11H220	37/012	121010	37/062	121050	37/112	121086	38/048
11H069	35/042	11H117	35/092	11H163	36/028	11H183	36/078	11H221	37/013	111011	37/063	111051	37/113	111087	38/049
11H069	35/043	11H118	35/093	11H164	36/029	11H183	36/079	11H222	37/014	111012	37/064	111052	37/114	121088	38/050
11H069	35/044	11H119	35/094	11H165	36/030	11H183	36/080	12H223	37/015	111013	37/065	121053	38/001	121089	38/051
12H070	35/045	11H120	35/095	11H165	36/031	11H184	36/081	12H224	37/016	121014	37/066	111054	38/002	121090	38/052
11H071	35/046	11H121	35/096	11H165	36/032	11H185	36/082	11H225	37/017	111015	37/067	121055	38/003	121090	38/053
12H072	35/047	11H122	35/097	11H166	36/033	12H186	36/083	11H226	37/018	121016	37/068	121056	38/004	121090	38/054
12H073	35/048	11H123	35/098	11H166	36/034	11H187	36/084	12H227	37/019	111017	37/069	121057	38/005	121091	38/055
12H074	35/049	11H124	35/099	11H166	36/035	11H188	36/085	11H228	37/020	121018	37/070	121057	38/006	121091	38/056
11H075	35/050	11H125	35/100	11H167	36/036	12H189	36/086	11H229	37/021	121019	37/071	121057	38/007	121091	38/057
11H076	35/051	11H126	35/101	11H167	36/037	11H190	36/087	11H230	37/022	111020	37/072	121058	38/008	111092	38/058
12H077	35/052	11H127	35/102	11H167	36/038	12H191	36/088	11H231	37/023	111020	37/073	121058	38/009	111093	38/059
12H078	35/053	11H128	35/103	11H168	36/039	11H192	36/089	11H231	37/024	111020	37/074	121058	38/010	111094	38/060
11H079	35/054	11H129	35/104	11H168	36/040	11H193	36/090	11H231	37/025	121021	37/075	111059	38/011	111094	38/061
11H080	35/055	11H130	35/105	11H168	36/041	11H193	36/091	11H232	37/026	121021	37/076	111059	38/012	111094	38/062
12H081	35/056	11H131	35/106	11H169	36/042	11H193	36/092	11H233	37/027	121021	37/077	111059	38/013	111095	38/063
11H082	35/057	11H132	35/107	11H169	36/043	11H194	36/093	11H234	37/028	121022	37/078	111060	38/014	111095	38/064
11H083	35/058	11H133	35/108	11H169	36/044	12H195	36/094	11H235	37/029	121022	37/079	111061	38/015	111095	38/065
11H084	35/059	12H134	35/109	11H170	36/045	12H195	36/095	11H236	37/030	121022	37/080	111061	38/016	111096	38/066
11H085	35/060	11H135	35/110	11H170	36/046	12H195	36/096	11H237	37/031	121023	37/081	111061	38/017	121097	38/067
11H086	35/061	11H136	35/111	11H170	36/047	12H196	36/097	11H238	37/032	121024	37/082	111062	38/018	111098	38/068
11H087	35/062	11H137	35/112	11H171	36/048	12H196	36/098	11H239	37/033	121025	37/083	111062	38/019	121099	38/069
11H088	35/063	11H138	35/113	11H171	36/049	12H196	36/099	11H240	37/034	121026	37/084	111062	38/020	121100	38/070
12H089	35/064	11H139	35/114	11H171	36/050	12H197	36/100	11H241	37/035	121026	37/085	111063	38/021	121101	38/071
11H090	35/065	11H140	36/001	11H172	36/051	12H197	36/101	11H242	37/036	121026	37/086	121064	38/022	121101	38/072
11H091	35/066	12H141	36/002	11H172	36/052	12H197	36/102	11H243	37/037	121027	37/087	111065	38/023	121101	38/073
11H092	35/067	11H142	36/003	11H172	36/053	12H198	36/103	11H244	37/038	111028	37/088	121066	38/024	121102	38/074
11H093	35/068	11H143	36/004	11H173	36/054	12H198	36/104	11H245	37/039	121029	37/089	121067	38/025	111103	38/075
11H094	35/069	11H144	36/005	11H174	36/055	12H198	36/105	11H246	37/040	121030	37/090	121068	38/026	121104	38/076
11H095	35/070	11H145	36/006	11H175	36/056	11H199	36/106	11H247	37/041	121031	37/091	121068	38/027	121105	38/077
11H096	35/071	11H146	36/007	11H175	36/057	11H200	36/107	11H248	37/042	111032	37/092	121068	38/028	111106	38/078
11H097	35/072	12H147	36/008	11H175	36/058	12H201	36/108	11H249	37/043	121033	37/093	121069	38/029	111106	38/079
11H098	35/073	11H148	36/009	11H176	36/059	11H202	36/109	11H250	37/044	111034	37/094	111070	38/030	111106	38/080
11H099	35/074	12H149	36/010	11H176	36/060	11H203	36/110	11H251	37/045	121035	37/095	121071	38/031	111107	38/081
11H100	35/075	11H150	36/011	11H176	36/061	12H204	36/111	11H252	37/046	121036	37/096	121072	38/032	111108	38/082
11H101	35/076	11H151	36/012	11H177	36/062	12H205	36/112	11H253	37/047	111037	37/097	121073	38/033	121109	38/083
11H102	35/077	12H152	36/013	11H177	36/063	12H206	36/113	11H254	37/048	111038	37/098	111074	38/034	111110	38/084
12H103	35/078	12H153	36/014	11H177	36/064	11H207	36/114	11H255	37/049	121039	37/099	111075	38/035	111111	38/085
11H104	35/079	11H154	36/015	11H178	36/065	11H208	36/115	111000	37/050	111040	37/100	121076	38/036	111112	38/086
11H105	35/080	11H155	36/016	11H178	36/066	11H209	37/001	111001	37/051	111041	37/101	111077	38/037	121113	38/087
11H106	35/081	12H156	36/017	11H178	36/067	11H210	37/002	111002	37/052	111042	37/102	121078	38/038	111114	38/088
11H107	35/082	11H157	36/018	12H179	36/068	11H211	37/003	111003	37/053	111043	37/103	121079	38/039	111115	38/089
12H108	35/083	11H158	36/019	11H180	36/069	11H212	37/004	111003	37/054	111044	37/104	121080	38/040	111115	38/090
12H109	35/084	11H159	36/020	11H180	36/070	11H213	37/005	111003	37/055	111045	37/105	111081	38/041	111115	38/091

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11I118 38/094	12I154 39/036	12I190 39/085	12I232 40/031	11J020 01/003	11J056 01/053	11J080 69/023	12J118 02/007
12I119 38/095	12I155 39/037	12I191 39/086	12I233 40/032	11J021 01/004	11J057 01/054	11J081 69/024	12J119 02/008
11I120 38/096	12I156 39/038	12I191 39/087	12I234 40/033	11J022 01/005	11J057 01/055	11J082 69/025	11J120 02/009
12I121 38/097	12I156 39/039	12I191 39/088	12I235 40/034	12J023 01/006	11J057 01/056	11J082 69/026	11J121 02/010
12I122 38/098	12I156 39/040	12I192 39/089	12I236 40/035	12J024 01/007	12J058 01/057	11J082 69/027	11J122 69/052
12I123 38/099	12I157 39/041	12I193 39/090	12I237 40/036	11J025 01/008	12J058 01/058	12J083 01/108	11J122 69/053
12I123 38/100	12I157 39/042	11I194 39/091	12I238 40/037	11J026 01/009	12J058 01/059	12J084 69/028	11J122 69/054
12I123 38/101	12I157 39/043	11I194 39/092	12I239 40/038	11J027 01/010	12J059 01/060	12J084 69/029	12J123 02/014
12I124 38/102	11I158 39/044	11I194 39/093	12I240 40/039	12J028 01/011	11J060 01/061	12J084 69/030	12J124 69/055
12I124 38/103	12I158 69/020	11I195 39/094	12I241 40/040	12J029 01/012	11J061 01/062	11J085 69/031	12J124 69/056
12I124 38/104	11I160 39/045	11I195 39/095	12I242 40/041	12J029 01/013	11J062 01/063	11J086 01/113	12J124 69/057
11I125 38/105	11I160 39/046	11I195 39/096	12I243 40/042	12J029 01/014	11J062 01/064	11J087 01/114	11J125 69/058
11I125 38/106	11I160 39/047	11I196 39/097	12I244 40/043	11J030 01/015	11J062 01/065	12J088 01/115	11J126 02/019
11I125 38/107	11I161 39/048	12I197 39/098	12I245 40/044	11J031 01/016	12J063 01/066	12J089 69/032	11J127 69/059
11I126 38/108	11I161 39/049	11I198 39/099	12I246 40/045	11J032 01/017	12J063 01/067	12J089 69/033	11J127 69/060
11I127 39/001	11I161 39/050	12I199 39/100	12I247 40/046	11J033 01/018	12J063 01/068	12J089 69/034	11J127 69/061
11I127 39/002	11I162 39/051	12I200 39/101	12I248 40/047	12J034 01/019	12J064 01/069	11J090 01/119	12J128 02/023
11I127 39/003	12I163 39/052	12I201 39/102	12I249 40/048	11J035 01/020	12J064 01/070	11J091 01/120	12J129 69/062
11I128 39/004	11I164 39/053	12I201 39/103	12I250 40/049	11J036 01/021	12J064 01/071	11J092 01/121	12J129 69/063
11I128 39/005	12I165 39/054	12I201 39/104	12I251 40/050	11J037 01/022	11J065 01/072	12J093 69/035	12J129 69/064
11I128 39/006	12I166 39/055	12I202 40/001	12I252 40/051	12J038 01/023	11J066 01/073	12J094 01/123	11J130 69/065
11I129 39/007	12I167 39/056	11I203 40/002	12I253 40/052	12J039 01/024	11J066 01/074	11J095 01/124	11J131 02/028
12I130 39/008	12I167 39/057	12I204 40/003	12I254 40/053	11J040 01/025	11J066 01/075	11J096 01/125	11J132 02/029
11I131 39/009	12I167 39/058	12I205 40/004	12I255 40/054	11J041 01/026	11J067 01/076	11J097 69/036	12J133 02/030
12I132 39/010	12I168 39/059	12I206 40/005	12J000 40/055	11J042 01/027	11J067 01/077	11J097 69/037	12J134 02/031
12I133 39/011	11I169 39/060	11I207 40/006	12J000 40/056	12J043 01/028	11J067 01/078	11J097 69/038	11J135 02/032
12I134 39/012	12I170 39/061	12I208 40/007	12J000 40/057	12J044 01/029	12J068 01/079	12J098 01/129	11J136 69/066
12I134 39/013	12I171 39/062	12I209 40/008	12J001 40/058	12J044 01/030	12J068 01/080	12J099 01/130	11J137 02/034
12I134 39/014	12I172 39/063	12I210 40/009	12J001 40/059	12J044 01/031	12J068 01/081	11J100 69/039	12J138 02/035
12I135 39/015	12I173 39/064	12I211 40/010	12J001 40/060	11J045 01/032	12J069 01/082	11J101 01/132	12J139 02/036
11I136 39/016	11I174 39/065	11I212 40/011	12J002 40/061	11J046 01/033	12J069 01/083	11J102 69/040	11J140 69/067
12I137 39/017	11I175 39/066	12I213 40/012	12J002 40/062	11J047 01/034	12J069 01/084	11J102 69/041	11J141 69/068
12I138 39/018	12I176 39/067	12I214 40/013	12J002 40/063	11J047 01/035	11J070 01/085	11J102 69/042	11J142 69/069
11I139 39/019	11I177 39/068	12I215 40/014	12J003 40/064	11J047 01/036	11J070 01/086	12J103 69/043	11J142 69/070
12I140 39/020	11I178 39/069	12I216 40/015	11J004 40/065	12J048 01/037	11J070 01/087	12J104 01/137	11J142 69/071
11I141 39/021	11I179 39/070	11I217 40/016	12J005 40/066	12J048 01/038	11J071 01/088	11J105 01/138	12J143 02/042
12I142 39/022	12I180 39/071	12I218 40/017	12J005 40/067	12J048 01/039	11J072 01/089	11J106 01/139	12J144 02/043
12I143 39/023	11I181 39/072	12I219 40/018	12J005 40/068	12J049 01/040	11J072 01/090	11J107 69/044	11J145 69/072
12I144 39/024	11I182 39/073	12I220 40/019	11J006 40/069	12J049 01/041	11J072 01/091	11J107 69/045	11J146 02/045
12I145 39/025	11I182 39/074	12I221 40/020	11J006 40/070	12J049 01/042	12J073 01/092	11J107 69/046	11J147 69/073
12I146 39/026	11I182 39/075	12I222 40/021	11J006 40/071	11J050 01/043	12J074 01/093	12J108 69/047	11J147 69/074
12I147 39/027	12I183 39/076	12I223 40/022	11J007 40/072	11J051 01/044	11J075 01/094	12J109 01/144	11J147 69/075
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11I148 39/029	11I185 39/078	12I225 40/024	11J009 40/074	11J052 01/046	11J077 01/096	11J111 69/049	12J149 69/076
11I148 39/030	12I186 39/079	11I226 40/025	11J010 40/075	11J052 01/047	11J077 01/097	11J112 02/001	12J149 69/077
12I149 39/031	11I187 39/080	12I227 40/026	11J011 40/076	12J053 01/048	11J077 01/098	12J113 69/050	12J149 69/078
12I150 39/032	12I188 39/081	12I228 40/027	12J012 40/077	12J053 01/049	12J078 01/099	12J114 02/003	11J150 69/079
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12J153 69/081	12J179 69/127	22A018 41/003	21A048 41/047	22A086 42/001	21A130 42/051	22A166 43/015	22A190 43/065
12J153 69/082	12J179 69/128	22A018 41/004	21A048 41/048	22A087 42/002	21A131 42/052	22A166 43/016	22A191 43/066
12J154 69/083	11J180 69/129	22A019 41/005	21A049 41/049	22A088 42/003	21A132 42/053	22A166 43/017	22A191 43/067
12J154 69/084	11J181 69/130	22A019 41/006	21A050 41/050	22A089 42/004	22A133 42/054	21A167 43/018	22A191 43/068
12J154 69/085	11J182 69/131	22A019 41/007	22A051 41/051	21A090 42/005	21A134 42/055	21A168 43/019	22A192 43/069
11J155 69/086	11J182 69/132	22A020 41/008	21A052 41/052	22A091 42/006	22A135 42/056	21A169 43/020	21A193 43/070
11J155 69/087	11J182 69/133	22A021 41/009	21A053 41/053	22A092 42/007	22A136 42/057	21A170 43/021	21A194 43/071
11J155 69/088	12J183 69/134	21A022 41/010	21A054 41/054	22A093 42/008	22A137 42/058	21A171 43/022	21A194 43/072
11J156 69/089	12J184 69/135	21A022 41/011	22A055 41/055	22A094 42/009	22A138 42/059	21A171 43/023	21A194 43/073
11J156 69/090	12J184 69/136	21A022 41/012	22A056 41/056	22A095 42/010	21A139 42/060	21A171 43/024	21A195 43/074
11J156 69/091	12J184 69/137	21A023 41/013	21A057 41/057	22A096 42/011	22A140 42/061	21A172 43/025	21A195 43/075
11J157 69/092	11J185 69/138	21A024 41/014	22A058 41/058	22A097 42/012	22A141 42/062	21A172 43/026	21A195 43/076
11J157 69/093	11J186 69/139	21A025 41/015	21A059 41/059	21A098 42/013	21A142 42/063	21A172 43/027	21A196 43/077
11J157 69/094	11J187 02/120	22A025 45/007	21A060 41/060	21A099 42/014	22A143 42/064	21A173 43/028	21A196 43/078
12J158 69/095	12J188 02/121	21A026 41/016	21A061 41/061	21A099 42/015	22A144 42/065	21A173 43/029	21A196 43/079
12J158 69/096	12J189 02/122	22A026 45/008	21A062 41/062	21A099 42/016	22A144 42/066	21A173 43/030	21A197 43/080
12J158 69/097	12J189 02/123	22A027 41/017	22A063 41/063	21A100 42/017	22A144 42/067	21A174 43/031	22A198 43/081
12J159 02/074	12J189 02/124	22A027 45/009	22A064 41/064	21A101 42/018	22A145 42/068	21A175 43/032	22A199 43/082
11J160 69/098	11J190 02/125	22A027 45/010	22A064 41/065	21A101 42/019	22A145 42/069	22A176 43/033	22A200 43/083
11J160 69/099	11J191 02/126	22A027 45/011	22A064 41/066	21A101 42/020	22A145 42/070	22A177 43/034	22A201 43/084
11J160 69/100	11J192 02/127	21A028 41/018	21A065 41/067	21A102 42/021	21A146 42/071	22A178 43/035	22A202 43/085
11J161 69/101	12J193 02/128	21A028 41/019	21A066 41/068	22A103 42/022	21A147 42/072	21A179 43/036	22A203 43/086
11J162 69/102	12J194 02/129	21A028 41/020	22A067 41/069	22A104 42/023	22A148 42/073	21A179 43/037	22A204 43/087
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12J163 69/105	22A001 40/079	21A030 41/022	22A069 41/071	22A107 42/026	21A151 42/076	21A180 43/040	22A207 43/090
12J164 69/106	22A003 40/081	21A031 41/023	22A070 41/072	21A108 42/027	22A152 42/077	21A180 43/041	21A208 43/091
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11J165 02/086	22A004 40/084	21A033 41/026	21A072 41/075	21A111 42/030	22A153 42/080	21A182 43/044	21A209 43/094
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11J167 02/088	22A006 40/086	21A034 41/028	22A073 41/077	21A113 42/032	22A153 42/082	21A183 43/046	21A209 43/096
12J168 69/110	22A006 40/087	22A035 41/029	21A074 41/078	21A114 42/033	22A154 42/083	21A183 43/047	21A210 44/001
12J169 69/111	22A006 40/088	22A036 41/030	21A075 41/079	21A115 42/034	22A155 42/084	21A183 43/048	21A210 44/002
12J169 69/112	22A007 40/089	22A036 41/031	21A076 41/080	21A116 42/035	22A156 42/085	22A184 43/049	21A210 44/003
12J169 69/113	22A008 40/090	22A036 41/032	21A077 41/081	21A116 42/036	21A157 42/086	22A185 43/050	21A211 44/004
11J170 69/114	22A009 40/091	22A037 41/033	21A078 41/082	21A116 42/037	22A158 43/001	22A185 43/051	21A211 44/005
11J171 69/115	22A010 40/092	22A038 41/034	21A079 41/083	21A117 42/038	22A158 43/002	22A185 43/052	21A211 44/006
11J172 69/116	22A011 40/093	22A038 41/035	21A080 41/084	22A118 42/039	22A158 43/003	22A186 43/053	21A212 44/007
11J172 69/117	22A012 40/094	22A038 41/036	21A081 41/085	22A119 42/040	22A159 43/004	22A186 43/054	21A213 44/008
11J172 69/118	22A013 40/095	21A039 41/037	21A081 41/086	21A120 42/041	22A159 43/005	22A186 43/055	21A213 44/009
12J173 69/119	22A013 40/096	21A040 41/038	21A081 41/087	22A121 42/042	22A159 43/006	21A187 43/056	21A213 44/010
12J174 69/120	22A013 40/097	22A041 41/039	21A082 41/088	21A122 42/043	22A160 43/007	21A187 43/057	21A214 44/011
12J174 69/121	22A014 40/098	22A042 41/040	21A082 41/089	21A123 42/044	21A161 43/008	21A187 43/058	21A214 44/012
12J174 69/122	22A015 40/099	22A043 41/041	21A082 41/090	22A124 42/045	22A162 43/009	21A188 43/059	21A214 44/013
11J175 69/123	22A016 40/100	21A044 41/042	21A083 41/091	21A125 42/046	22A163 43/010	21A188 43/060	21A215 44/014
11J176 69/124	22A016 40/101	21A045 41/043	21A084 41/092	22A126 42/047	21A164 43/011	21A188 43/061	21A216 44/015
11J177 02/104	22A016 40/102	22A046 41/044	21A084 41/093	21A127 42/048	22A165 43/012	21A189 43/062	21A217 44/016

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21A217 44/018	21B007 44/068	22B047 45/037	21B073 45/087	22B105 46/037	22B135 46/087	22B174 47/038	22B207 47/088
21A218 44/019	21B008 44/069	21B048 45/038	21B074 45/088	22B106 46/038	22B136 46/088	22B175 47/039	22B207 47/089
21A218 44/020	21B009 44/070	21B049 45/039	21B074 45/089	22B107 46/039	22B137 46/089	22B176 47/040	22B207 47/090
21A218 44/021	21B010 44/071	21B050 45/040	21B074 45/090	22B107 46/040	21B138 46/090	22B177 47/041	22B208 47/091
21A219 44/022	22B011 44/072	21B051 45/041	21B075 45/091	22B107 46/041	22B139 46/091	22B178 47/042	22B209 47/092
22A220 44/023	22B012 44/073	22B052 45/042	21B075 45/092	22B108 46/042	21B140 46/092	22B179 47/043	21B210 47/093
21A221 44/024	22B013 44/074	22B052 45/043	21B075 45/093	22B108 46/043	21B141 46/093	22B180 47/044	22B211 47/094
21A222 44/025	22B014 44/075	22B052 45/044	22B076 45/094	22B108 46/044	22B142 46/094	22B181 47/045	22B212 47/095
22A223 44/026	21B015 44/076	21B053 45/045	22B076 45/095	22B109 46/045	22B142 46/095	22B181 47/046	21B213 47/096
21A224 44/027	22B016 44/077	21B053 45/046	22B076 45/096	22B111 46/046	22B142 46/096	22B181 47/047	21B214 47/097
21A225 44/028	22B016 44/078	21B053 45/047	22B077 45/097	22B112 46/047	22B143 46/097	22B182 47/048	22B215 47/098
21A226 44/029	22B016 44/079	21B054 45/048	22B078 45/098	22B112 46/048	22B143 46/098	22B182 47/049	21B216 47/099
21A227 44/030	22B017 44/080	21B055 45/049	22B078 45/099	22B112 46/049	22B143 46/099	22B182 47/050	21B217 47/100
21A228 44/031	22B017 44/081	22B056 45/050	22B078 45/100	22B113 46/050	22B144 47/001	21B183 47/051	21B219 47/101
21A229 44/032	22B017 44/082	22B057 45/051	22B079 46/001	22B113 46/051	22B145 47/002	21B184 47/052	21B220 47/102
21A230 44/033	22B018 44/083	22B058 45/052	22B079 46/002	22B113 46/052	22B146 47/003	22B185 47/053	21B220 47/103
21A231 44/034	22B019 44/084	21B059 45/053	22B079 46/003	22B114 46/053	22B147 47/004	22B185 47/054	21B220 47/104
21A232 44/035	22B020 44/085	21B060 45/054	22B080 46/004	22B115 46/054	21B148 47/005	22B185 47/055	21B221 48/001
22A233 44/036	21B021 44/086	22B061 45/055	22B080 46/005	22B116 46/055	22B149 47/006	22B186 47/056	21B221 48/002
22A234 44/037	21B022 44/087	21B062 45/056	22B080 46/006	22B117 46/056	22B151 47/007	22B186 47/057	21B221 48/003
22A235 44/038	22B023 45/001	21B063 45/057	22B081 46/007	22B118 46/057	22B152 47/008	22B186 47/058	21B222 48/004
22A236 44/039	22B023 45/002	21B064 45/058	22B082 46/008	21B119 46/058	22B152 47/009	22B187 47/059	21B223 48/005
21A237 44/040	22B023 45/003	21B064 45/059	22B083 46/009	22B120 46/059	22B152 47/010	22B188 47/060	21B224 48/006
21A238 44/041	21B024 45/004	21B064 45/060	21B085 46/010	21B121 46/060	22B153 47/011	22B190 47/061	21B225 48/007
22A239 44/042	21B024 45/005	21B065 45/061	21B086 46/011	22B122 46/061	22B153 47/012	22B191 47/062	21B226 48/008
22A240 44/043	21B024 45/006	21B065 45/062	22B087 46/012	22B123 46/062	22B153 47/013	22B191 47/063	21B227 48/009
21A241 44/044	21B029 45/013	21B065 45/063	22B087 46/013	21B124 46/063	21B154 47/014	22B191 47/064	21B227 48/010
22A242 44/045	22B030 45/014	21B066 45/064	22B087 46/014	21B124 46/064	21B155 47/015	22B192 47/065	21B227 48/011
22A243 44/046	21B031 45/015	21B066 45/065	22B088 46/015	21B124 46/065	22B156 47/016	22B192 47/066	21B228 48/012
21A244 44/047	21B032 45/016	21B066 45/066	22B089 46/016	22B126 46/066	22B156 47/017	22B192 47/067	21B228 48/013
22A245 44/048	21B033 45/017	21B067 45/067	22B090 46/017	22B126 46/067	22B156 47/018	22B193 47/068	21B228 48/014
21A246 44/049	21B034 45/018	21B067 45/068	22B091 46/018	22B126 46/068	22B157 47/019	21B194 47/069	21B229 48/015
22A247 44/050	21B035 45/019	21B067 45/069	21B092 46/019	22B127 46/069	22B157 47/020	21B195 47/070	22B230 48/016
21A248 44/051	22B036 45/020	21B068 45/070	21B092 46/020	22B127 46/070	22B157 47/021	22B196 47/071	22B231 48/017
22A249 44/052	22B036 45/021	21B068 45/071	21B092 46/021	22B127 46/071	22B158 47/022	22B196 47/072	22B232 48/018
21A250 44/053	22B036 45/022	21B068 45/072	21B093 46/022	22B128 46/072	22B159 47/023	22B196 47/073	22B233 48/019
22A251 44/054	22B037 45/023	21B069 45/073	21B094 46/023	22B129 46/073	21B160 47/024	22B197 47/074	22B233 48/020
22A252 44/055	22B037 45/024	21B069 45/074	21B095 46/024	22B130 46/074	21B161 47/025	22B197 47/075	22B233 48/021
22A253 44/056	22B037 45/025	21B069 45/075	21B096 46/025	22B130 46/075	22B162 47/026	22B197 47/076	22B234 48/022
22A254 44/057	22B038 45/026	21B070 45/076	22B098 46/026	22B130 46/076	22B163 47/027	21B198 47/077	22B234 48/023
22A254 44/058	21B039 45/027	21B070 45/077	22B099 46/027	22B131 46/077	22B164 47/028	22B199 47/078	22B234 48/024
22A254 44/059	21B040 45/028	21B070 45/078	22B100 46/028	22B131 46/078	22B165 47/029	21B200 47/079	21B235 48/025
22A255 44/060	22B041 45/029	21B071 45/079	22B101 46/029	22B131 46/079	22B166 47/030	21B201 47/080	21B236 48/026
22B000 44/061	22B042 45/030	21B071 45/080	22B101 46/030	22B132 46/080	22B167 47/031	21B202 47/081	21B238 48/027
21B001 44/062	21B043 45/031	21B071 45/081	22B101 46/031	22B133 46/081	22B168 47/032	21B203 47/082	21B238 48/028
22B002 44/063	21B043 45/032	21B072 45/082	22B102 46/032	22B134 46/082	22B169 47/033	21B204 47/083	21B238 48/029
22B003 44/064	21B043 45/033	21B072 45/083	22B103 46/033	22B134 46/083	22B170 47/034	22B205 47/084	21B239 48/030
22B004 44/065	22B044 45/034	21B072 45/084	21B104 46/034	22B134 46/084	22B171 47/035	22B206 47/085	21B239 48/031
22B005 44/066	22B045 45/035	21B073 45/085	21B104 46/035	22B135 46/085	22B172 47/036	22B206 47/086	21B239 48/032

PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID
21B240	48/033	21C002	48/083	21C036	49/024	21C069	49/074	21C190	51/019	22C234	51/069	21D014	52/010	22D054	52/060
21B240	48/034	21C003	48/084	22C037	49/025	21C070	49/075	21C191	51/020	22C235	51/070	21D014	52/011	22D055	52/061
21B240	48/035	21C003	48/085	22C037	49/026	21C071	49/076	22C192	51/021	22C235	51/071	21D014	52/012	22D056	52/062
21B241	48/036	21C003	48/086	22C037	49/027	21C072	49/077	22C193	51/022	22C235	51/072	22D015	52/013	22D057	52/063
21B241	48/037	21C004	48/087	22C038	49/028	21C073	49/078	22C194	51/023	22C236	51/073	22D016	52/014	22D058	52/064
21B241	48/038	21C004	48/088	22C038	49/029	21C074	49/079	22C195	51/024	22C237	51/074	21D017	52/015	22D059	52/065
21B242	48/039	21C004	48/089	22C038	49/030	22C075	49/080	22C196	51/025	22C238	51/075	21D017	52/016	22D060	52/066
21B243	48/040	22C005	48/090	22C039	49/031	22C076	49/081	22C197	51/026	22C239	51/076	21D017	52/017	22D061	52/067
21B243	48/041	22C006	48/091	22C040	49/032	21C077	49/082	21C198	51/027	21C240	51/077	21D018	52/018	22D062	52/068
21B243	48/042	22C007	48/092	21C041	49/033	21C078	49/083	22C199	51/028	21C241	51/078	22D019	52/019	21D063	52/069
21B244	48/043	22C008	48/093	22C042	49/034	21C079	49/084	21C200	51/029	21C242	51/079	22D020	52/020	22D064	52/070
21B244	48/044	22C009	48/094	21C043	49/035	21C080	49/085	21C201	51/030	22C243	51/080	22D021	52/021	22D064	52/071
21B244	48/045	22C009	48/095	21C044	49/036	21C081	49/086	22C202	51/031	21C244	51/081	22D022	52/022	22D064	52/072
21B245	48/046	22C009	48/096	22C045	49/037	22C082	49/087	22C203	51/032	21C244	51/082	21D023	52/023	22D065	52/073
21B245	48/047	22C010	48/097	21C046	49/038	22C083	49/088	21C204	51/033	21C244	51/083	21D024	52/024	22D065	52/074
21B245	48/048	22C010	48/098	21C047	49/039	22C084	49/089	22C205	51/034	22C245	51/084	21D025	52/025	22D065	52/075
21B246	48/049	22C010	48/099	21C048	49/040	22C085	49/090	22C205	51/035	21C246	51/085	21D026	52/026	22D066	52/076
21B246	48/050	21C011	48/100	21C048	49/041	22C086	49/091	22C205	51/036	21C247	51/086	22D027	52/027	22D067	52/077
21B246	48/051	21C012	48/101	21C048	49/042	21C087	49/092	22C206	51/037	21C248	51/087	22D028	52/028	22D068	52/078
21B247	48/052	21C013	48/102	21C049	49/043	22C088	49/093	21C207	51/038	21C249	51/088	22D029	52/029	22D068	52/079
21B248	48/053	21C013	48/103	21C049	49/044	22C089	49/094	21C208	51/039	21C250	51/089	22D030	52/030	22D068	52/080
21B248	48/054	21C013	48/104	21C049	49/045	22C090	49/095	22C209	51/040	21C251	51/090	22D030	52/031	21D069	52/081
21B248	48/055	21C014	48/105	21C050	49/046	22C091	49/096	22C210	51/041	22C252	51/091	22D030	52/032	21D070	52/082
21B249	48/056	21C014	48/106	22C051	49/047	22C092	49/097	22C211	51/042	22C253	51/092	22D031	52/033	22D071	52/083
21B249	48/057	21C014	48/107	21C052	49/048	22C093	49/098	22C212	51/043	22C254	51/093	22D032	52/034	22D072	52/084
21B249	48/058	21C015	48/108	22C053	49/049	21C094	49/099	22C213	51/044	22C255	51/094	22D033	52/035	22D073	52/085
21B250	48/059	21C016	48/109	21C054	49/050	22C095	49/100	22C214	51/045	22C255	51/095	21D034	52/036	22D074	52/086
21B250	48/060	22C017	49/001	21C055	49/051	21C096	49/101	22C215	51/046	22C255	51/096	22D035	52/037	22D075	52/087
21B250	48/061	22C017	49/002	21C056	49/055	22C097	49/102	22C215	51/047	22D000	51/097	21D036	52/038	22D076	52/088
21B251	48/062	22C017	49/003	21C056	49/056	21C098	49/103	22C215	51/048	22D000	51/098	22D037	52/039	22D077	52/089
21B251	48/063	22C018	49/004	21C056	49/057	21C099	49/104	22C216	51/049	22D000	51/099	22D038	52/040	22D078	52/090
21B251	48/064	22C018	49/005	21C057	49/058	22C100	49/105	22C217	51/050	22D001	51/100	22D038	52/041	21D079	52/091
21B252	48/065	22C018	49/006	21C057	49/059	22C178	51/001	22C218	51/051	22D001	51/101	22D038	52/042	22D080	52/092
21B252	48/066	21C019	49/007	21C057	49/060	21C179	51/002	21C219	51/052	22D001	51/102	21D039	52/043	22D081	52/093
21B252	48/067	21C020	49/008	21C057	49/061	21C180	51/003	21C220	51/053	22D002	51/103	22D040	52/044	22D082	52/094
21B253	48/068	22C021	49/009	21C058	49/062	22C181	51/004	21C221	51/054	22D003	51/104	22D041	52/045	22D083	52/095
21B253	48/069	22C022	49/010	21C059	49/063	22C182	51/005	22C222	51/055	22D004	51/105	22D042	52/046	22D084	52/096
21B253	48/070	22C023	49/011	21C060	49/064	22C182	51/006	22C223	51/056	22D005	51/106	21D043	52/047	22D085	52/097
21B254	48/071	22C024	49/012	21C061	49/052	22C182	51/007	22C224	51/057	22D006	51/107	22D044	52/048	22D086	52/098
21B254	48/072	22C025	49/013	21C062	49/053	22C183	51/008	21C225	51/058	22D007	51/108	22D045	52/049	22D087	52/099
21B254	48/073	22C026	49/014	21C063	49/054	22C183	51/009	21C226	51/059	22D008	51/109	22D046	52/050	22D088	52/100
21B255	48/074	21C027	49/015	21C064	49/065	22C183	51/010	21C227	51/060	21D009	52/001	22D047	52/051	22D088	52/101
21B255	48/075	21C028	49/016	21C065	49/066	22C184	51/011	22C228	51/061	22D010	52/002	22D048	52/052	22D088	52/102
21B255	48/076	21C029	49/017	22C066	49/067	22C184	51/012	21C229	51/062	22D011	52/003	21D049	52/053	22D089	52/103
21C000	48/077	22C030	49/018	22C066	49/068	22C184	51/013	21C230	51/063	21D012	52/004	21D049	52/054	22D089	52/104
21C001	48/078	21C031	49/019	22C066	49/069	22C185	51/014	21C231	51/064	21D012	52/005	21D049	52/055	22D089	52/105
21C001	48/079	22C032	49/020	22C067	49/070	22C186	51/015	22C232	51/065	21D012	52/006	21D050	52/056	22D090	53/001
21C001	48/080	22C033	49/021	22C067	49/071	22C187	51/016	22C233	51/066	21D013	52/007	21D051	52/057	22D090	53/002
21C002	48/081	22C034	49/022	22C067	49/072	22C188	51/017	22C234	51/067	21D013	52/008	21D052	52/058	22D090	53/003
21C002	48/082	22C035	49/023	22C068	49/073	22C189	51/018	22C234	51/068	21D013	52/009	21D053	52/059	22D091	53/004

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21D092	53/005	22D116	53/055	21D144	53/105	21D188	54/038	21D230	54/088	21E016	55/025	21E056	55/075	22E092	56/012
21D092	53/006	22D116	53/056	21D145	53/106	22D189	54/039	22D231	54/089	21E017	55/026	21E057	55/076	22E093	56/013
21D092	53/007	22D116	53/057	22D146	53/107	21D190	54/040	21D232	54/090	21E018	55/027	21E058	55/077	21E094	56/014
22D093	53/008	22D117	53/058	22D147	53/108	22D191	54/041	21D233	54/091	21E019	55/028	21E059	55/078	22E095	56/015
22D093	53/009	22D118	53/059	22D148	53/109	21D192	54/042	21D234	54/092	21E020	55/029	21E060	55/079	22E096	56/016
22D093	53/010	21D119	53/060	22D149	53/110	21D193	54/043	21D235	54/093	22E021	55/030	21E061	55/080	22E097	56/017
21D094	53/011	21D119	53/061	22D150	53/111	21D194	54/044	21D236	54/094	21E022	55/031	21E062	55/081	22E098	56/018
22D095	53/012	21D119	53/062	22D151	53/112	21D195	54/045	22D237	54/095	21E022	55/032	21E062	55/082	21E099	56/019
22D095	53/013	21D120	53/063	22D152	53/113	21D196	54/046	21D238	54/096	21E022	55/033	21E062	55/083	21E100	56/020
22D095	53/014	21D120	53/064	21D153	53/114	22D197	54/047	21D238	54/097	22E023	55/034	22E063	55/084	22E101	56/021
21D096	53/015	21D120	53/065	21D154	53/115	21D198	54/048	21D238	54/098	21E024	55/035	22E063	55/085	21E102	56/022
21D097	53/016	21D121	53/066	22D155	53/116	21D198	54/049	22D239	54/099	21E024	55/036	22E063	55/086	21E102	56/023
21D097	53/017	21D121	53/067	21D156	53/117	21D198	54/050	21D240	54/100	21E024	55/037	21E064	55/087	21E102	56/024
21D097	53/018	21D121	53/068	21D157	54/001	22D199	54/051	21D240	54/101	21E025	55/038	21E064	55/088	22E103	56/025
22D098	53/019	21D122	53/069	21D158	54/002	21D200	54/052	21D240	54/102	21E026	55/039	21E064	55/089	22E103	56/026
22D098	53/020	21D122	53/070	22D159	54/003	21D200	54/053	21D241	54/103	22E027	55/040	21E065	55/090	22E103	56/027
22D098	53/021	21D122	53/071	21D160	54/004	21D200	54/054	21D242	54/104	22E028	55/041	21E066	55/091	21E104	56/028
21D099	53/022	21D123	53/072	21D160	54/005	21D201	54/055	22D243	54/105	21E029	55/042	22E067	55/092	21E104	56/029
21D099	53/023	21D124	53/073	21D160	54/006	21D202	54/056	22D244	54/106	22E030	55/043	22E068	55/093	21E104	56/030
21D099	53/024	21D125	53/074	21D161	54/007	22D203	54/057	21D245	54/107	22E031	55/044	21E069	55/094	21E105	56/031
22D100	53/025	21D126	53/075	21D162	54/008	22D204	54/058	22D246	54/108	21E032	55/045	22E070	55/095	21E106	56/032
22D100	53/026	22D127	53/076	22D163	54/009	21D205	54/059	22D247	54/109	22E033	55/046	22E071	55/096	21E107	56/033
22D100	53/027	21D128	53/077	22D164	54/010	22D206	54/060	21D248	54/110	22E034	55/047	21E072	55/097	21E107	56/034
22D101	53/028	21D128	53/078	21D165	54/011	22D207	54/061	22D249	54/111	22E035	55/048	22E073	55/098	21E107	56/035
21D102	53/029	21D128	53/079	21D166	54/012	21D208	54/062	22D250	54/112	22E036	55/049	22E074	55/099	21E108	56/036
21D102	53/030	22D129	53/080	22D167	54/013	22D209	54/063	22D251	54/113	22E037	55/050	22E075	55/100	21E109	56/037
21D102	53/031	22D130	53/081	21D168	54/014	22D210	54/064	22D252	55/001	22E038	55/051	22E076	55/101	21E109	56/038
22D103	53/032	22D131	53/082	22D169	54/015	22D211	54/065	22D253	55/002	22E039	55/052	22E077	55/102	21E109	56/039
22D103	53/033	22D132	53/083	22D170	54/016	22D212	54/066	22D254	55/003	21E040	55/053	22E078	55/103	22E110	56/040
22D103	53/034	21D133	53/084	22D171	54/017	22D213	54/067	22D255	55/004	21E041	55/054	22E079	55/104	22E111	56/041
21D104	53/035	22D134	53/085	22D172	54/018	22D214	54/068	21E000	55/005	22E042	55/055	21E080	55/105	21E112	56/042
21D104	53/036	22D134	53/086	22D173	54/019	22D215	54/069	21E001	55/006	21E043	55/056	21E081	55/106	21E113	56/043
21D104	53/037	22D134	53/087	22D174	54/020	21D216	54/070	22E002	55/007	21E043	55/057	22E082	55/107	21E114	56/044
22D105	53/038	22D135	53/088	22D175	54/021	21D217	54/071	21E003	55/008	21E043	55/058	21E083	55/108	21E115	56/045
22D105	53/039	22D135	53/089	21D176	54/022	22D218	54/072	22E004	55/009	22E044	55/059	21E083	55/109	22E116	56/046
22D105	53/040	22D135	53/090	21D177	54/023	21D219	54/073	22E004	55/010	22E044	55/060	21E083	55/110	21E117	56/047
21D106	53/041	22D136	53/091	22D178	54/024	22D220	54/074	22E004	55/011	22E044	55/061	22E084	55/111	21E118	56/048
21D106	53/042	22D136	53/092	21D179	54/025	22D220	54/075	22E005	55/012	22E045	55/062	22E084	55/112	21E119	56/049
21D106	53/043	22D136	53/093	22D180	54/026	22D220	54/076	22E005	55/013	22E045	55/063	22E084	55/113	21E120	56/050
22D107	53/044	22D137	53/094	22D180	54/027	22D221	54/077	22E005	55/014	22E045	55/064	22E085	56/001	21E121	56/051
22D107	53/045	22D137	53/095	22D180	54/028	22D221	54/078	22E006	55/015	22E046	55/065	22E085	56/002	22E122	56/052
22D107	53/046	22D137	53/096	22D181	54/029	22D221	54/079	22E007	55/016	22E047	55/066	22E085	56/003	21E123	56/053
22D108	53/047	22D138	53/097	22D181	54/030	22D222	54/080	21E008	55/017	21E048	55/067	22E086	56/004	21E123	56/054
22D109	53/048	22D138	53/098	22D181	54/031	22D223	54/081	21E009	55/018	21E049	55/068	22E087	56/005	21E123	56/055
22D110	53/049	22D138	53/099	22D182	54/032	21D224	54/082	21E010	55/019	21E050	55/069	22E088	56/006	22E124	56/056
22D111	53/050	22D139	53/100	22D183	54/033	21D225	54/083	22E011	55/020	22E051	55/070	22E089	56/007	22E124	56/057
22D112	53/051	22D140	53/101	21D184	54/034	21D226	54/084	21E012	55/021	21E052	55/071	22E090	56/008	22E124	56/058
22D113	53/052	22D141	53/102	21D185	54/035	22D227	54/085	22E013	55/022	22E053	55/072	22E091	56/009	22E125	56/059
22D114	53/053	21D142	53/103	21D186	54/036	21D228	54/086	21E014	55/023	21E054	55/073	22E092	56/010	22E125	56/060
22D115	53/054	21D143	53/104	22D187	54/037	22D229	54/087	22E015	55/024	22E055	55/074	22E092	56/011	22E125	56/061

PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID
22E126	56/062	21E163	56/112	21E191	57/046	22E218	57/096	22F014	58/029	21F046	59/003	22F078	59/053	22F117	59/103
22E127	56/063	21E163	56/113	21E191	57/047	22E219	57/097	22F015	58/030	22F047	59/004	22F079	59/054	22F117	59/104
22E128	56/064	22E164	56/114	21E192	57/048	22E220	57/098	22F015	58/031	21F048	59/005	22F079	59/055	22F117	59/105
22E129	56/065	22E164	56/115	21E192	57/049	22E221	57/099	22F015	58/032	22F049	59/006	22F079	59/056	22F118	59/106
22E130	56/066	22E164	56/116	21E192	57/050	22E222	57/100	22F016	58/033	21F050	59/007	22F080	59/057	22F118	59/107
22E131	56/067	21E165	57/001	21E193	57/051	22E223	57/101	21F017	58/034	21F051	59/008	22F080	59/058	22F118	59/108
22E132	56/068	21E165	57/002	21E193	57/052	21E224	57/102	22F018	58/035	22F052	59/009	22F080	59/059	22F119	59/109
22E132	56/069	21E165	57/003	21E193	57/053	21E224	57/103	21F019	58/036	22F053	59/010	22F081	59/060	21F120	59/110
22E132	56/070	21E166	57/004	21E194	57/054	21E224	57/104	22F020	58/037	22F054	59/011	22F081	59/061	22F121	59/111
22E133	56/071	21E166	57/005	21E194	57/055	22E225	57/105	22F021	58/038	22F055	59/012	22F081	59/062	21F122	59/112
21E134	56/072	21E166	57/006	21E194	57/056	22E226	57/106	21F022	58/039	22F056	59/013	22F082	59/063	22F123	59/113
22E135	56/073	21E167	57/007	21E195	57/057	21E227	57/107	21F023	58/040	22F057	59/014	22F082	59/064	21F124	60/001
22E136	56/074	21E167	57/008	21E195	57/058	21E228	57/108	21F024	58/041	22F058	59/015	22F082	59/065	22F125	60/002
22E137	56/075	21E167	57/009	21E195	57/059	21E228	57/109	21F024	58/042	22F059	59/016	21F083	59/066	21F126	60/003
22E138	56/076	22E168	57/010	21E196	57/060	21E228	57/110	21F024	58/043	22F060	59/017	21F084	59/067	21F127	60/004
21E139	56/077	22E169	57/011	21E196	57/061	22E229	57/111	21F025	58/044	21F061	59/018	22F085	59/068	22F128	60/005
21E140	56/078	22E169	57/012	21E196	57/062	22E230	57/112	21F025	58/045	21F062	59/019	22F085	59/069	21F129	60/006
22E141	56/079	22E169	57/013	22E197	57/063	22E230	57/113	21F025	58/046	21F063	59/020	22F085	59/070	21F130	60/007
21E142	56/080	22E170	57/014	22E198	57/064	22E230	57/114	21F026	58/047	21F064	59/021	22F086	59/071	22F131	60/008
21E142	56/081	21E171	57/015	21E199	57/065	21E231	57/115	21F026	58/048	22F065	59/022	22F086	59/072	22F132	60/009
21E142	56/082	21E171	57/016	21E200	57/066	21E232	57/116	21F026	58/049	22F066	59/023	22F086	59/073	21F133	60/010
22E143	56/083	21E171	57/017	22E201	57/067	22E233	57/117	21F027	58/050	21F067	59/024	22F087	59/074	22F134	60/011
22E143	56/084	21E172	57/018	22E202	57/068	22F000	58/001	21F027	58/051	22F068	59/025	21F088	59/075	22F135	60/012
22E143	56/085	21E172	57/019	22E203	57/069	21F001	58/002	21F027	58/052	22F068	59/026	21F092	59/076	22F136	60/013
21E144	56/086	21E172	57/020	22E204	57/070	21F002	58/003	22F028	58/053	22F068	59/027	22F093	59/077	22F137	60/014
21E144	56/087	21E173	57/021	21E205	57/071	22F003	58/004	22F028	58/054	22F069	59/028	21F094	59/078	22F138	60/015
21E144	56/088	21E173	57/022	22E206	57/072	22F004	58/005	22F028	58/055	22F069	59/029	22F095	59/079	22F138	60/016
21E145	56/089	21E173	57/023	22E207	57/073	22F005	58/006	22F029	58/056	22F069	59/030	22F096	59/080	22F138	60/017
21E146	56/090	22E174	57/024	22E208	57/074	22F005	58/007	22F029	58/057	22F070	59/031	21F097	59/081	22F139	60/018
21E147	56/091	22E175	57/025	22E208	57/075	22F005	58/008	22F029	58/058	22F071	59/032	22F098	59/082	22F139	60/019
21E147	56/092	22E176	57/026	22E208	57/076	22F006	58/009	22F030	58/059	22F071	59/033	22F099	59/083	22F139	60/020
21E147	56/093	22E177	57/027	22E209	57/077	22F006	58/010	22F030	58/060	22F071	59/034	21F100	59/084	22F140	60/021
21E148	56/094	21E178	57/028	22E209	57/078	22F006	58/011	22F030	58/061	22F072	59/035	21F101	59/085	22F140	60/022
21E149	56/095	21E179	57/029	22E209	57/079	22F007	58/012	22F031	58/062	22F072	59/036	22F102	59/086	22F140	60/023
21E149	56/096	22E180	57/030	22E210	57/080	22F007	58/013	22F031	58/063	22F072	59/037	22F103	59/087	22F141	60/024
21E149	56/097	22E181	57/031	22E211	57/081	22F007	58/014	22F031	58/064	22F073	59/038	21F104	59/088	22F141	60/025
22E150	56/098	22E182	57/032	22E211	57/082	22F008	58/015	21F032	58/065	22F073	59/039	21F105	59/089	22F141	60/026
22E151	56/099	22E183	57/033	22E211	57/083	21F009	58/016	22F033	58/066	22F073	59/040	21F106	59/090	21F142	60/027
21E152	56/100	22E184	57/034	22E212	57/084	22F010	58/017	22F034	58/067	22F074	59/041	21F107	59/091	21F142	60/028
21E153	56/101	22E185	57/035	22E212	57/085	22F011	58/018	22F035	58/068	22F074	59/042	21F108	59/092	21F142	60/029
21E154	56/102	22E186	57/036	22E212	57/086	22F011	58/019	21F036	58/069	22F074	59/043	21F109	59/093	22F143	60/030
21E155	56/103	21E187	57/037	22E213	57/087	22F011	58/020	21F037	58/070	22F075	59/044	21F110	59/094	22F143	60/031
22E156	56/104	21E187	57/038	21E214	57/088	22F012	58/021	22F038	58/071	22F076	59/045	21F111	59/095	22F143	60/032
21E157	56/105	21E187	57/039	21E214	57/089	22F012	58/022	22F039	58/072	22F076	59/046	21F112	59/096	21F144	60/033
21E158	56/106	22E188	57/040	21E214	57/090	22F012	58/023	21F040	58/073	22F076	59/047	22F113	59/097	21F144	60/034
21E159	56/107	21E189	57/041	21E215	57/091	22F013	58/024	22F041	58/074	22F077	59/048	21F114	59/098	21F144	60/035
21E160	56/108	21E189	57/042	21E215	57/092	22F013	58/025	22F042	58/075	22F077	59/049	21F115	59/099	21F145	60/036
21E161	56/109	21E189	57/043	21E215	57/093	22F013	58/026	22F043	58/076	22F077	59/050	22F116	59/100	21F146	60/037
22E162	56/110	22E190	57/044	22E216	57/094	22F014	58/027	22F044	59/001	22F078	59/051	22F116	59/101	21F147	60/038
21E163	56/111	21E191	57/045	22E217	57/095	22F014	58/028	22F045	59/002	22F078	59/052	22F116	59/102	22F148	60/039

PICNO VLE ID	PICNO VLE ID	PICNO VLE ID	PICNO VLE ID	PICNO VLE ID	PICNO VLE ID	PICNO VLE ID	PICNO VLE ID
22F149 60/040	22F190 60/090	22F231 61/108	22G003 61/042	22G043 62/013	22G091 62/062	22G129 63/020	22G167 63/070
22F150 60/041	22F190 60/091	22F231 61/109	22G003 61/043	21G044 62/014	21G092 62/063	22G130 63/021	21G168 63/071
21F151 60/042	22F191 60/092	22F231 61/110	22G003 61/044	22G045 62/015	21G093 62/064	22G130 63/022	21G169 63/072
22F152 60/043	22F191 60/093	22F232 61/111	22G004 61/045	21G046 62/016	21G094 62/065	22G130 63/023	22G170 63/073
22F153 60/044	22F191 60/094	22F232 61/112	22G004 61/046	22G047 62/017	21G095 62/066	22G131 63/024	22G171 63/074
21F154 60/045	22F192 60/095	22F232 61/113	22G004 61/047	22G048 62/018	21G096 62/067	21G132 63/025	21G172 63/075
22F155 60/046	22F192 60/096	21F233 61/114	22G005 61/048	21G049 62/019	21G097 62/068	21G133 63/026	22G173 63/076
21F156 60/047	22F192 60/097	22F234 61/115	22G005 61/049	22G050 62/020	22G098 62/069	22G134 63/027	22G174 63/077
21F157 60/048	22F193 60/098	22F235 61/116	22G005 61/050	21G051 62/021	22G099 62/070	21G135 63/028	21G175 63/078
22F158 60/049	21F194 60/099	22F236 61/001	22G006 61/051	22G052 62/022	21G101 62/071	21G136 63/029	22G176 63/079
21F159 60/050	21F195 60/100	21F237 61/002	22G007 61/052	21G053 62/023	22G101 62/072	22G137 63/030	22G176 63/080
21F160 60/051	21F196 60/101	21F238 61/003	22G007 61/053	21G054 62/024	21G102 62/073	21G138 63/031	22G176 63/081
21F161 60/052	21F197 60/102	21F239 61/004	22G007 61/054	22G055 62/025	21G103 62/074	21G139 63/032	21G177 63/082
22F162 60/053	21F198 60/103	21F240 61/005	22G008 61/055	21G056 62/026	21G104 62/075	21G140 63/033	21G178 63/083
22F163 60/054	22F199 60/104	21F241 61/006	22G009 61/056	21G057 62/027	21G104 62/076	22G141 63/034	22G179 63/084
21F164 60/055	22F200 60/105	22F242 61/007	22G010 61/057	21G058 62/028	21G104 62/077	22G142 63/035	21G180 63/085
22F165 60/056	22F201 60/106	21F243 61/008	21G011 61/058	22G059 62/029	22G105 62/078	21G143 63/036	21G181 63/086
21F166 60/057	22F202 60/107	22F244 61/009	22G012 61/059	22G060 62/030	22G105 62/079	22G144 63/037	21G181 63/087
22F167 60/058	22F203 60/108	22F244 61/010	22G013 61/060	22G060 62/031	22G105 62/080	22G144 63/038	21G181 63/088
21F168 60/059	22F204 60/109	22F244 61/011	22G014 61/061	22G060 62/032	21G106 62/081	22G144 63/039	21G182 63/089
22F169 60/060	22F205 60/110	22F245 61/012	22G014 61/062	21G061 62/033	22G107 62/082	22G145 63/040	21G182 63/090
21F170 60/061	22F206 60/111	22F245 61/013	22G014 61/063	22G062 62/034	22G107 62/083	22G146 63/041	21G182 63/091
21F171 60/062	22F208 61/080	22F245 61/014	21G015 61/064	21G063 62/035	22G107 62/084	21G147 63/042	21G183 63/092
22F172 60/063	22F208 61/081	22F246 61/015	22G016 61/065	21G064 62/036	22G108 62/085	21G148 63/043	21G183 63/093
22F173 60/064	21F209 61/082	22F246 61/016	22G017 61/066	21G065 62/037	22G108 62/086	22G149 63/044	21G183 63/094
22F173 60/065	21F210 61/083	22F246 61/017	22G018 61/067	22G066 62/038	22G108 62/087	22G150 63/045	21G184 63/095
22F173 60/066	21F211 61/084	22F247 61/018	22G019 61/068	21G067 62/039	22G109 62/088	22G151 63/046	21G184 63/096
22F174 60/067	22F212 61/085	22F248 61/019	21G020 61/069	22G068 62/040	22G110 62/089	22G151 63/047	21G184 63/097
22F174 60/068	22F213 61/086	22F249 61/020	21G021 61/070	21G069 62/041	21G111 62/090	22G151 63/048	21G185 63/098
22F174 60/069	21F214 61/087	21F250 61/021	22G022 61/071	21G070 62/042	22G112 62/091	22G152 63/049	21G185 63/099
22F175 60/070	21F215 61/088	21F251 61/022	21G023 61/072	22G071 69/021	21G113 62/092	22G152 63/050	21G185 63/100
22F175 60/071	21F216 61/089	21F251 61/023	22G024 61/073	22G072 62/043	22G114 63/001	22G152 63/051	22G186 63/101
22F175 60/072	22F217 61/090	21F251 61/024	21G025 61/074	21G073 62/044	22G115 63/002	22G153 63/052	21G187 63/102
22F176 60/073	22F218 61/091	21F252 61/025	21G026 61/075	22G074 62/045	21G116 63/003	22G154 63/053	21G188 63/103
22F176 60/074	22F219 61/092	21F252 61/026	22G027 61/076	21G075 62/046	21G117 63/004	21G155 63/054	22G189 69/019
22F176 60/075	22F220 61/093	21F252 61/027	21G028 61/077	22G076 62/047	22G118 63/005	21G156 63/055	22G190 64/001
21F177 60/076	21F221 61/094	21F253 61/028	21G029 61/078	22G077 62/048	22G119 63/006	22G157 63/056	22G190 64/002
21F178 60/077	22F222 61/095	21F253 61/029	21G030 61/079	21G078 62/049	22G120 63/007	22G157 63/057	22G190 64/003
22F179 60/078	22F223 61/096	21F253 61/030	22G031 62/001	21G079 62/050	22G120 63/008	22G157 63/058	22G191 64/004
21F180 60/079	21F224 61/097	22F254 61/031	22G032 62/002	21G080 62/051	22G120 63/009	22G158 63/059	22G191 64/005
22F181 60/080	22F225 61/098	22F254 61/032	22G033 62/003	21G081 62/052	22G121 63/010	22G158 63/060	22G191 64/006
21F182 60/081	22F226 61/099	22F254 61/033	22G034 62/004	21G082 62/053	22G121 63/011	22G158 63/061	22G192 64/007
21F183 60/082	22F226 61/100	22F255 61/034	22G035 62/005	22G083 62/054	22G121 63/012	22G159 63/062	22G192 64/008
21F184 60/083	22F226 61/101	22F255 61/035	22G036 62/006	22G084 62/055	21G122 63/013	22G160 63/063	22G192 64/009
22F185 60/084	22F227 61/102	22F255 61/036	22G037 62/007	22G085 62/056	22G123 63/014	22G161 63/064	22G193 64/010
21F186 60/085	22F227 61/103	22G000 61/037	22G038 62/008	22G086 62/057	21G124 63/015	22G162 63/065	22G193 64/011
21F187 60/086	22F227 61/104	22G000 61/038	22G039 62/009	21G087 62/058	22G125 63/016	22G163 63/066	22G193 64/012
22F188 60/087	22F228 61/105	22G000 61/039	21G040 62/010	22G088 62/059	21G126 63/017	22G164 63/067	22G194 64/013
22F189 60/088	22F229 61/106	22G001 61/040	22G041 62/011	21G089 62/060	21G127 63/018	22G165 63/068	22G194 64/014
22F190 60/089	22F230 61/107	21G002 61/041	22G042 62/012	21G090 62/061	22G128 63/019	22G166 63/069	22G194 64/015

VIKING LANDER ARCHIVE TAPE CATALOG

PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID	PICNO	VLE ID
22G195	64/016	21G217	64/066	22G253	64/116	21H031	65/050	22H078	65/100	21H119	66/042	22H160	66/092	22H205	67/039
22G195	64/017	21G218	64/067	22G254	65/001	21H032	65/051	22H078	65/101	21H120	66/043	22H160	66/093	22H206	67/040
22G195	64/018	22G219	64/068	22G255	65/002	22H033	65/052	22H079	65/102	21H121	66/044	21H161	66/094	22H207	67/041
22G196	64/019	21G220	64/069	22H000	65/003	21H034	65/053	22H079	65/103	21H121	66/045	22H162	66/095	22H208	67/042
22G196	64/020	22G221	64/070	22H001	65/004	21H035	65/054	22H079	65/104	21H121	66/046	22H163	66/096	21H209	67/043
22G196	64/021	21G222	64/071	22H002	65/005	22H036	65/055	21H080	65/105	21H122	66/047	21H164	66/097	21H210	67/044
22G197	64/022	22G223	64/072	22H002	65/006	22H037	65/056	21H081	65/106	22H123	66/048	21H165	66/098	21H210	67/045
22G197	64/023	22G224	64/073	22H002	65/007	21H038	65/057	22H082	65/107	21H124	66/049	22H166	66/099	21H210	67/046
22G197	64/024	22G225	64/074	22H003	65/008	22H039	65/058	22H083	65/108	21H124	66/050	22H168	66/100	21H211	67/047
21G198	64/025	22G226	64/075	22H003	65/009	21H040	65/059	22H084	66/001	21H124	66/051	22H168	66/101	21H212	67/048
21G198	64/026	22G227	64/076	22H003	65/010	21H041	65/060	22H084	66/002	21H125	66/052	22H169	66/102	22H213	67/049
21G198	64/027	21G228	64/077	21H004	65/011	21H041	65/061	22H084	66/003	21H126	66/053	21H170	66/103	21H214	67/050
21G199	64/028	22G229	64/078	21H005	65/012	21H041	65/062	22H085	66/004	21H127	66/054	22H171	67/001	22H215	67/051
21G199	64/029	21G230	64/079	21H006	65/013	22H042	65/063	22H085	66/005	22H128	66/055	21H172	67/002	22H216	67/052
21G199	64/030	21G231	64/080	21H007	65/014	22H043	65/064	22H085	66/006	21H129	66/056	22H173	67/003	22H216	67/053
21G200	64/031	22G232	64/081	22H008	65/015	22H044	65/065	22H086	66/007	21H130	66/057	22H174	67/004	22H216	67/054
22G201	64/032	21G233	64/082	21H009	65/016	21H045	65/066	21H087	66/008	22H131	66/058	21H175	67/005	21H217	67/055
21G202	64/033	22G234	64/083	21H010	65/017	22H046	65/067	21H088	66/009	22H132	66/059	21H176	67/006	21H218	67/056
21G203	64/034	22G235	64/084	21H011	65/018	22H047	65/068	22H089	66/010	21H133	66/060	21H177	67/007	22H219	67/057
21G203	64/035	22G236	64/085	22H012	65/019	21H048	65/069	22H090	66/011	21H133	66/061	21H178	67/008	22H220	67/058
21G203	64/036	22G237	64/086	21H013	65/020	21H049	65/070	21H091	66/012	21H134	66/062	22H179	67/009	22H220	67/059
21G204	64/037	22G238	64/087	22H014	65/021	21H050	65/071	22H092	66/013	22H135	66/063	22H180	67/010	22H220	67/060
21G204	64/038	21G239	64/088	22H015	65/022	22H051	65/072	22H093	66/014	22H137	66/064	21H181	67/011	21H221	67/061
21G204	64/039	22G240	64/089	22H016	65/023	22H052	65/073	22H093	66/015	22H138	66/065	22H182	67/012	22H222	67/062
21G205	64/040	21G241	64/090	22H016	65/024	22H053	65/074	22H093	66/016	21H139	66/066	21H183	67/013	21H223	67/063
21G205	64/041	21G242	64/091	22H016	65/025	21H054	65/075	22H094	66/017	22H140	66/067	21H184	67/014	21H224	67/064
21G205	64/042	21G243	64/092	22H017	65/026	22H055	65/076	22H095	66/018	21H141	66/068	21H184	67/015	21H224	67/065
21G206	64/043	22G244	64/093	22H017	65/027	22H056	65/077	21H096	66/019	22H142	66/069	21H184	67/016	21H224	67/066
21G206	64/044	22G244	64/094	22H017	65/028	21H057	65/078	22H097	66/020	22H143	66/070	21H185	67/017	21H225	67/067
21G206	64/045	22G244	64/095	22H018	65/029	22H058	65/079	22H098	66/021	22H144	66/071	22H186	67/018	22H226	67/068
21G207	64/046	22G245	64/096	22H019	65/030	21H059	65/080	22H099	66/022	22H145	66/072	21H187	67/019	21H227	67/069
21G207	64/047	22G245	64/097	22H020	65/031	21H060	65/081	21H100	66/023	21H146	66/073	21H187	67/020	22H228	67/070
21G207	64/048	22G245	64/098	22H021	65/032	22H061	65/082	22H101	66/024	22H147	66/074	21H187	67/021	22H229	67/071
21G208	64/049	22G246	64/099	21H022	65/033	21H062	65/083	22H102	66/025	22H148	66/075	21H188	67/022	22H230	67/072
21G208	64/050	22G246	64/100	22H023	65/034	22H063	65/084	21H103	66/026	21H149	66/076	21H189	67/023	22H231	67/073
21G208	64/051	22G246	64/101	22H023	65/035	22H064	65/085	21H104	66/027	22H150	66/077	21H190	67/024	22H232	67/074
21G209	64/052	22G247	64/102	22H023	65/036	22H065	65/086	22H105	66/028	21H151	66/078	22H191	67/025	22H233	67/075
21G209	64/053	22G247	64/103	22H024	65/037	22H066	65/087	21H106	66/029	22H152	66/079	22H192	67/026	21H234	67/076
21G209	64/054	22G247	64/104	22H024	65/038	21H067	65/088	22H107	66/030	22H152	66/080	21H193	67/027	21H235	67/077
21G210	64/055	22G248	64/105	22H024	65/039	22H068	65/089	22H108	66/031	22H152	66/081	22H194	67/028	21H236	67/078
21G210	64/056	22G248	64/106	22H025	65/040	22H069	65/090	21H109	66/032	21H153	66/082	22H195	67/029	22H237	67/079
21G210	64/057	22G248	64/107	22H026	65/041	21H070	65/091	22H110	66/033	22H154	66/083	21H196	67/030	22H238	67/080
21G211	64/058	22G249	64/108	22H026	65/042	22H071	65/092	21H111	66/034	22H155	66/084	21H197	67/031	22H239	67/081
21G212	64/059	21G250	64/109	22H026	65/043	22H072	65/093	22H112	66/035	22H155	66/085	22H198	67/032	22H240	67/082
21G213	64/060	22G251	64/110	22H027	65/044	22H073	65/094	22H113	66/036	22H155	66/086	21H199	67/033	22H241	67/083
21G213	64/061	22G251	64/111	22H027	65/045	22H074	65/095	21H114	66/037	22H156	66/087	22H200	67/034	22H242	67/084
21G213	64/062	22G251	64/112	22H027	65/046	22H075	65/096	21H115	66/038	21H157	66/088	21H201	67/035	22H243	67/085
21G214	64/063	22G252	64/113	22H028	65/047	21H076	65/097	21H116	66/039	21H158	66/089	21H202	67/036	22H244	67/086
21G215	64/064	22G252	64/114	22H029	65/048	21H077	65/098	21H117	66/040	21H159	66/090	22H203	67/037	21H245	67/087
23G216	64/065	22G252	64/115	22H030	65/049	22H078	65/099	22H118	66/041	22H160	66/091	21H204	67/038	21H245	67/088

VIKING LANDER ARCHIVE TAPE CATALOG

PIONO VLE ID	PIONO VLE ID	PIONO VLE ID	PIONO VLE ID	PIONO VLE ID	PIONO VLE ID	PIONO VLE ID	PIONO VLE ID
21H245 67/089	221026 68/039	221062 68/089	221098 03/007	221123 03/057			
22H246 67/090	221027 68/040	221063 68/090	221098 03/008	221123 03/058			
22H247 67/091	221028 68/041	221063 68/091	221098 03/009	221124 03/059			
22H248 67/092	221029 68/042	221063 68/092	221099 03/010	221124 03/060			
22H249 67/093	211030 68/043	221064 68/093	221099 03/011	221124 03/061			
21H250 67/094	211031 68/044	221065 68/094	221099 03/012	211125 03/062			
22H251 67/095	221032 68/045	221066 68/095	221100 03/013	211126 03/063			
22H252 67/096	221033 68/046	221066 68/096	221100 03/014	211127 03/064			
21H253 67/097	211034 68/047	221066 68/097	221100 03/015	221128 03/065			
22H254 67/098	211035 68/048	221067 68/098	221101 03/016	221129 03/066			
22H255 67/099	221036 68/049	221067 68/099	221101 03/017	221130 03/067			
221000 67/100	221037 68/050	221067 68/100	221101 03/018	221131 03/068			
221002 68/001	221038 68/051	211068 68/101	221102 03/019	221132 03/069			
211003 68/002	221039 68/052	211069 68/102	221102 03/020	211133 03/070			
211004 68/003	221040 68/053	211070 68/103	221102 03/021	211134 03/071			
211004 68/004	221041 68/054	211071 68/104	221103 03/022	211135 03/072			
211004 68/005	221042 68/055	221072 68/105	221103 03/023	211136 03/073			
211005 68/006	221043 68/056	221073 68/106	221103 03/024	211137 03/074			
211006 68/007	221044 68/057	221074 68/107	221104 03/025	221138 03/075			
221007 68/008	221045 68/058	221075 68/108	221104 03/026	211139 03/076			
221007 68/009	221046 68/059	221076 68/109	221104 03/027	211139 03/077			
221007 68/010	211047 68/060	221077 68/110	221105 03/028	211139 03/078			
221008 68/011	221048 68/061	211078 68/111	221105 03/029	211140 03/079			
221008 68/012	221049 68/062	211079 68/112	221105 03/030	211141 03/080			
221008 68/013	221050 68/063	211080 68/113	211106 03/031	211142 03/081			
221009 68/014	221051 68/064	211081 68/114	211106 03/032	211142 03/082			
221009 68/015	221052 68/065	221082 69/001	211106 03/033	211142 03/083			
221009 68/016	221053 68/066	221083 69/002	211107 03/034	211143 03/084			
221010 68/017	211054 68/067	211084 69/003	211108 03/035	221144 03/085			
221010 68/018	211055 68/068	221085 69/004	221109 03/036	221145 03/086			
221010 68/019	211056 68/069	211086 69/005	221109 03/037	221146 03/087			
221011 68/020	211056 68/070	221087 69/006	221109 03/038	221147 03/088			
221012 68/021	211056 68/071	211088 69/007	211110 03/039	211148 03/089			
211013 68/022	221057 68/072	221089 69/008	211111 03/040	221149 03/090			
221014 68/023	221057 68/073	211090 69/009	221112 03/041	221150 03/091			
221015 68/024	221057 68/074	211090 69/010	221113 03/042				
221016 68/025	221058 68/075	211090 69/011	221114 03/043				
221017 68/026	221058 68/076	211091 69/012	221115 03/044				
221018 68/027	221058 68/077	211092 69/013	211116 03/045				
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221018 68/029	221059 68/079	211093 69/015	221118 03/047				
221019 68/030	221059 68/080	211093 69/016	221119 03/048				
221019 68/031	221060 68/081	221094 69/017	221120 03/049				
221019 68/032	221060 68/082	221095 69/018	221121 03/050				
221020 68/033	221060 68/083	221096 03/001	221121 03/051				
221021 68/034	221061 68/084	221096 03/002	221121 03/052				
221022 68/035	221061 68/085	221096 03/003	221122 03/053				
221023 68/036	221061 68/086	221097 03/004	221122 03/054				
221024 68/037	221062 68/087	221097 03/005	221122 03/055				
221025 68/038	221062 68/088	221097 03/006	221123 03/056				

TABLE E-4

MARINER 10 ARCHIVE INDEX

Images are uniquely identified by FDS COUNT and GMT day. This method was necessary because the FDS clock reset to zero several times during the mission, causing images with identical FDS COUNTs to be taken for different image sequences. Images are grouped similar to the method used for the Viking Orbiter listing.

FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID
01804-78	307	51/156-230	14594-99	314	54/207-212	30590-92	023	05/117-119	57960-68	036	01/137-145	58616-40	037	37/087-111
01879-99	307	52/001-021	14600-17	314	54/213-230	30600-02	023	05/120-122	57966-69	036	22/045-048	58642-78	037	37/113-149
01900-26	307	52/022-043	14618-21	314	55/001-004	30610-12	023	05/123-125	57968-68	036	01/136-136	58678-99	037	37/150-171
01921-21	307	57/115-115	16839-99	349	34/019-079	30618-20	023	05/126-128	57968-68	036	01/146-146	58699-99	037	39/041-041
01930-32	307	52/049-051	16900-99	349	34/080-179	30632-34	023	05/129-131	57971-73	036	22/050-052	58700-16	037	39/042-058
01933-38	307	56/172-177	17000-09	349	34/180-189	30642-44	023	05/132-134	57975-79	036	22/054-058	58717-39	037	37/172-194
01939-41	307	52/052-054	17013-42	349	34/190-219	30654-54	023	39/084-084	57980-99	036	01/147-166	58741-46	037	37/196-201
01942-43	307	56/178-179	17050-60	349	34/220-230	30654-56	023	05/135-137	58000-16	036	01/167-183	58748-61	037	37/203-216
01944-47	307	56/168-171	17061-99	349	35/001-039	30666-66	023	39/087-087	58018-34	036	01/185-201	58762-95	037	38/059-092
01948-99	307	52/055-106	17100-33	349	35/040-073	30666-68	023	05/138-140	58036-51	036	01/203-218	58769-69	037	37/112-112
02000-07	307	52/107-114	17167-74	349	35/074-081	30676-76	023	39/090-090	58043-43	036	01/202-202	58779-99	037	22/015-035
02017-51	307	52/189-223	17177-83	349	35/082-088	30676-78	023	05/141-143	58052-99	036	02/001-048	58800-08	037	22/036-044
02051-56	307	56/025-030	17185-95	349	35/089-099	30688-90	023	05/144-146	58067-67	036	01/097-097	58806-99	037	38/093-186
02060-63	308	52/224-227	16838-38	350	35/160-160	30960-62	023	39/064-066	58100-01	036	02/049-050	58875-75	037	37/202-202
02060-66	308	56/031-037	16840-40	350	35/161-161	30972-74	023	39/067-069	58101-40	036	02/051-090	58900-16	037	38/187-203
02066-68	308	52/228-230	16858-58	350	35/162-162	30982-84	023	39/070-072	58140-40	036	02/091-091	58918-35	037	38/204-221
02069-78	308	53/001-010	16870-70	350	35/163-163	30996-98	023	39/073-075	58142-45	036	02/092-095	58936-48	037	21/070-082
02084-86	308	53/011-013	16894-94	350	35/164-164	31008-10	023	39/076-078	58147-47	036	02/096-096	58951-77	037	31/103-129
02087-88	308	56/186-187	16910-10	350	35/165-165	31020-22	023	39/079-081	58147-94	036	02/097-144	58951-77	037	41/022-048
02091-92	308	56/188-189	16932-32	350	35/166-166	31031-32	023	39/082-083	58186-99	036	35/203-216	58978-95	037	42/042-059
02093-99	308	53/014-020	16944-44	350	35/167-167	31043-44	023	39/085-086	58200-12	036	35/217-229	58996-99	037	41/049-052
02100-34	308	53/021-055	16968-68	350	35/168-168	31051-52	023	39/088-089	58213-21	036	36/001-009	58996-99	037	57/107-110
02138-77	308	53/056-095	16968-68	350	56/038-038	31067-68	023	39/091-092	58219-22	036	26/227-230	59000-03	037	41/053-056
02183-99	308	53/096-112	16983-83	350	56/039-039	31469-75	023	05/180-186	58223-31	036	27/001-009	59000-03	037	57/111-114
02200-99	308	53/113-212	17012-12	350	56/040-040	31706-08	024	05/148-150	58230-30	036	22/053-053	59005-49	037	41/057-101
02300-17	308	53/213-230	17034-34	350	35/169-169	31716-16	024	05/151-151	58231-47	036	38/015-031	59050-56	037	52/115-121
02318-38	308	54/001-021	17034-34	350	56/041-041	31736-38	024	05/152-154	58240-60	036	36/010-030	59058-59	037	52/122-123
04087-99	308	54/022-034	17042-43	350	35/170-171	31748-50	024	05/155-157	58261-67	036	56/149-155	59060-68	037	41/102-110
04100-45	308	54/035-080	17042-43	350	56/042-043	31760-62	024	05/158-160	58268-79	036	38/001-012	59069-77	037	52/124-132
02638-44	309	54/117-123	17058-58	350	35/172-172	31774-76	024	05/161-163	58273-73	036	01/184-184	59078-99	037	41/111-132
02646-71	309	54/124-149	17082-82	350	35/173-173	31786-88	024	05/164-166	58279-80	036	21/229-230	59100-11	037	41/133-144
04252-65	309	54/081-094	17100-00	350	35/174-174	31800-02	024	05/167-169	58281-83	036	22/001-003	59113-16	037	41/145-148
04266-74	309	56/190-198	17118-18	350	35/175-175	31814-16	024	05/170-172	58285-86	036	22/005-006	59122-27	037	41/226-231
04274-95	309	54/095-116	17128-28	350	35/176-176	31859-60	024	05/174-175	58286-92	036	21/222-228	59132-59	037	41/149-176
04626-61	309	54/150-185	17208-09	350	35/100-101	31870-72	024	05/176-178	58290-91	036	38/013-014	59158-59	037	22/093-094
04665-67	309	54/186-188	17216-55	350	35/102-141	31886-99	024	05/054-067	58292-96	036	38/032-036	59158-64	037	22/100-106
06627-99	310	55/050-122	17261-78	350	35/142-159	57765-68	036	51/017-020	58298-99	036	38/037-038	59160-64	037	56/144-148
06700-20	310	55/123-143	23303-99	019	04/133-229	57769-69	036	56/143-143	58300-19	036	38/039-058	59165-69	037	56/162-166
06783-99	310	55/144-160	23400-00	019	04/230-230	57773-99	036	52/162-188	58320-55	036	36/031-066	59170-92	037	41/177-199
06800-07	310	55/161-168	23401-23	019	05/001-023	57800-02	036	51/021-023	58342-45	036	03/129-132	59193-97	037	45/068-072
08051-95	310	55/005-049	23371-77	020	05/036-042	57843-61	036	01/001-019	58369-99	036	36/067-097	59197-99	037	22/095-097
08096-99	310	56/021-024	23434-45	020	05/024-035	57858-58	036	01/020-020	58400-99	037	36/098-197	59200-01	037	22/098-099
10562-99	312	55/169-206	23435-44	020	05/044-053	57863-84	036	01/021-042	58500-32	037	36/198-230	59202-99	037	45/073-170
10600-23	312	55/207-230	23445-67	020	05/079-101	57886-94	036	01/044-052	58533-41	037	37/001-009	59206-23	037	33/159-176
10624-41	312	56/001-018	23446-46	020	05/043-043	57887-87	036	01/043-043	58541-41	037	37/010-010	59300-13	037	45/171-184
10642-42	312	56/199-199	23468-90	020	06/041-063	57896-99	036	01/054-057	58543-69	037	37/011-037	59314-31	037	46/035-052
10644-45	312	56/019-020	23500-07	020	05/068-075	57900-38	036	01/058-096	58560-60	037	37/038-038	59332-99	037	46/156-223
14547-53	314	56/044-050	23509-09	020	05/077-077	57940-43	036	01/098-101	58570-88	037	37/039-057	59360-68	037	33/204-212
14552-53	314	56/051-052	30570-72	023	05/111-113	57945-68	036	01/103-126	58589-99	037	37/059-069	59400-04	037	46/224-228
14553-70	314	54/189-206	30582-84	023	05/114-116	57960-68	036	01/127-135	58600-15	037	37/070-085	59405-09	037	47/001-005

FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID
59409-26	037	46/017-034	60754-57	038	50/019-022	61352-52	038	18/067-067	61660-60	038	07/014-014	62110-10	038	05/187-187
59427-29	037	45/032-034	60754-57	038	57/071-074	61354-54	038	18/068-068	61778-99	038	07/015-036	62228-28	038	37/217-217
59430-42	037	47/020-032	61028-64	038	17/175-211	61356-56	038	18/069-069	61780-80	038	07/052-052	62228-64	038	05/189-225
59431-63	037	45/035-067	61038-38	038	17/212-212	61358-58	038	18/070-070	61782-82	038	07/053-053	62230-30	038	37/218-218
59434-42	037	33/213-221	61040-40	038	17/213-213	61360-60	038	18/071-071	61784-84	038	07/054-054	62232-32	038	37/219-219
59437-54	037	33/141-158	61042-42	038	17/214-214	61360-60	038	57/012-012	61786-86	038	07/055-055	62234-34	038	37/220-220
59464-77	037	47/006-019	61044-44	038	17/215-215	61361-64	038	18/058-061	61788-88	038	07/056-056	62236-36	038	05/226-226
59483-83	037	33/222-222	61046-46	038	17/216-216	61478-90	038	18/072-084	61790-90	038	07/057-057	62238-38	038	05/227-227
59483-93	037	47/033-043	61048-48	038	17/217-217	61478-99	038	57/013-034	61792-92	038	07/058-058	62240-40	038	05/228-228
59501-13	037	47/044-056	61050-50	038	17/218-218	61486-86	038	18/099-099	61794-94	038	07/059-059	62242-42	038	05/229-229
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60733-50	038	50/001-018	61348-48	038	18/065-065	61656-56	038	07/012-012	62106-06	038	07/159-159	62542-42	039	06/081-081
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62548-48	039	06/083-083	62983-83	039	06/218-218	63305-05	039	08/032-032	63748-48	039	09/008-008	64125-25	039	19/180-180
62550-50	039	06/084-084	62985-85	039	06/219-219	63305-05	039	08/080-080	63748-48	039	21/068-068	64127-27	039	19/181-181
62552-52	039	06/085-085	62987-87	039	06/220-220	63307-07	039	08/033-033	63748-55	039	57/148-155	64129-29	039	19/182-182
62552-58	039	57/188-194	62989-89	039	06/221-221	63309-09	039	08/034-034	63749-49	039	08/187-187	64131-31	039	19/183-183
62552-64	039	06/064-076	62991-91	039	06/222-222	63311-11	039	08/035-035	63751-51	039	08/188-188	64133-33	039	19/184-184
62554-54	039	06/086-086	62993-93	039	06/223-223	63428-64	039	08/036-072	63753-53	039	08/189-189	64135-35	039	19/185-185
62556-56	039	06/087-087	62995-95	039	06/224-224	63429-29	039	56/071-071	63753-53	039	21/016-016	64137-37	039	19/186-186
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62847-47	039	06/172-172	63285-85	039	08/022-022	63609-09	039	08/147-147	63900-14	039	08/216-230	64425-25	039	20/052-052
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62861-61	039	06/179-179	63299-99	039	08/029-029	63741-41	039	08/183-183	64117-17	039	56/082-082	64443-43	039	20/061-061
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64577-77	040	08/089-089	65025-25	040	56/097-097	65771-71	040	10/171-171	66219-19	040	29/227-227	67461-83	041	48/137-159
64579-79	040	08/090-090	65027-27	040	56/098-098	65773-73	040	10/172-172	66221-21	040	09/163-163	68091-99	041	48/186-194
64581-81	040	08/091-091	65029-29	040	56/099-099	65775-75	040	10/173-173	66221-21	040	29/228-228	68100-20	041	48/195-215
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64585-85	040	08/093-093	65035-35	040	56/101-101	65778-99	040	11/148-169	66223-23	040	29/229-229	68131-34	041	48/226-229
64587-87	040	08/094-094	65037-37	040	56/102-102	65781-81	040	10/175-175	66223-35	040	29/207-219	68135-37	041	49/001-003
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64593-93	040	08/097-097	65043-50	040	11/001-008	65785-85	040	10/177-177	66225-25	040	29/230-230	68140-43	041	49/006-009
64595-95	040	08/098-098	65045-45	040	56/142-142	65916-18	040	56/104-106	66225-35	040	09/135-145	68145-69	041	49/010-034
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64715-15	040	56/087-087	65314-36	040	51/060-082	65919-27	040	29/178-186	66229-29	040	30/002-002	68813-48	042	49/035-070
64717-17	040	56/088-088	65323-23	040	10/119-119	65921-21	040	09/073-073	66231-31	040	09/168-168	69465-88	042	49/088-111
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64721-21	040	56/090-090	65327-27	040	10/121-121	65923-23	040	09/074-074	66233-33	040	09/169-169	69499-99	042	49/118-118
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64729-29	040	09/013-013	65335-35	040	10/125-125	65931-31	040	09/078-078	66237-38	040	29/221-222	69533-40	042	50/205-212
64731-31	040	09/014-014	65337-37	040	10/126-126	65935-35	040	56/107-107	66239-39	040	09/172-172	70164-75	042	12/107-118
64733-33	040	09/015-015	65337-42	040	10/113-118	65937-50	040	09/057-070	66240-40	040	29/224-224	70178-78	042	12/119-119
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64739-39	040	09/018-018	65343-43	040	10/129-129	65943-43	040	29/187-187	66241-41	040	09/173-173	70185-99	042	12/128-142
64741-41	040	09/019-019	65345-45	040	10/130-130	65945-45	040	29/188-188	66243-43	040	09/174-174	70200-17	042	12/143-160
64743-43	040	09/020-020	65347-47	040	10/131-131	65947-47	040	29/189-189	66245-45	040	09/175-175	70219-23	042	12/162-166
64745-45	040	09/021-021	65464-99	040	10/132-167	66065-80	040	29/191-206	66247-47	040	09/176-176	70225-26	042	12/168-169
64747-47	040	09/022-022	65465-65	040	22/059-059	66067-67	040	09/108-108	66250-50	040	29/225-225	71177-99	043	27/010-032
64864-87	040	09/024-047	65467-67	040	22/060-060	66069-69	040	09/109-109	66364-68	040	09/177-181	71200-02	043	27/033-035
64867-67	040	09/048-048	65469-69	040	22/061-061	66071-71	040	09/110-110	66365-68	040	30/004-007	71203-11	043	48/104-112
64869-69	040	09/049-049	65471-71	040	22/062-062	66072-99	040	09/079-106	66371-76	040	30/008-013	71214-23	043	26/178-187
64871-71	040	09/050-050	65473-73	040	22/063-063	66073-73	040	09/111-111	66371-92	040	09/182-203	71239-46	043	26/188-195
64873-73	040	09/051-051	65475-75	040	22/064-064	66075-75	040	09/112-112	66394-94	040	10/008-008	71244-52	043	48/113-121
64875-75	040	09/052-052	65477-77	040	22/065-065	66077-77	040	09/113-113	66394-98	040	09/205-209	71251-51	043	26/196-196
64877-77	040	09/053-053	65479-79	040	21/083-083	66079-79	040	09/114-114	66395-99	040	30/014-018	71252-53	043	26/198-199
64879-79	040	09/054-054	65481-81	040	21/084-084	66081-81	040	09/115-115	66400-00	040	09/211-211	71738-38	043	14/183-183
64881-81	040	09/055-055	65483-83	040	21/085-085	66083-83	040	09/116-116	66400-00	040	30/019-019	72202-02	043	14/150-150
64883-83	040	09/056-056	65485-85	040	21/086-086	66085-85	040	09/117-117	66495-95	040	09/149-149	72205-13	043	14/136-144
64885-85	040	10/194-194	65487-87	040	21/087-087	66087-87	040	09/118-118	66495-95	040	29/223-223	72214-14	043	14/146-146
64889-89	040	10/196-196	65489-89	040	21/088-088	66089-89	040	09/119-119	66894-99	041	51/083-088	72216-16	043	14/148-148
64891-91	040	10/197-197	65491-91	040	21/089-089	66091-91	040	09/120-120	66900-55	041	51/089-144	72218-27	043	14/151-160
64873-93	040	10/198-198	65493-93	040	21/090-090	66093-93	040	09/121-121	66948-53	041	57/094-099	72223-23	043	14/147-147
64895-95	040	10/199-199	65495-95	040	21/091-091	66095-95	040	09/122-122	66948-54	041	57/100-106	72230-30	043	14/161-161
64897-97	040	10/200-200	65497-97	040	21/092-092	66097-97	040	09/123-123	66957-63	041	51/145-151	72231-35	043	14/163-167
65014-42	040	10/201-229	65500-00	040	10/168-168	66100-00	040	09/107-107	66966-69	041	51/152-155	72233-34	043	21/130-131
65015-15	040	56/092-092	65614-50	040	21/093-129	66192-92	040	09/134-134	67406-31	041	26/200-225	72233-34	043	21/179-180
65017-17	040	56/093-093	65637-50	040	57/053-066	66214-23	040	09/124-133	67432-40	041	48/122-130	72237-41	043	21/133-137
65019-19	040	56/094-094	65765-65	040	56/091-091	66217-17	040	09/161-161	67446-51	041	48/131-136	72237-41	043	21/182-186

FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID
72237-50	043	14/169-182	527900-34	075	29/101-135	17100-25	083	50/085-110	25582-93	087	17/130-141	25719-20	088	11/214-215
72240-40	043	21/138-138	527938-63	075	29/136-161	17114-22	083	18/194-202	25594-99	087	17/143-148	25723-25	088	11/216-218
72240-40	043	21/187-187	527990-99	075	29/162-171	17335-53	083	18/203-221	25600-00	087	17/149-149	25927-38	088	11/219-230
72243-47	043	21/139-143	528000-05	075	29/172-177	17354-61	083	18/223-230	00000-27	088	31/180-207	25939-39	088	12/001-001
72243-47	043	21/188-192	528773-99	075	27/072-098	17362-68	083	19/001-007	00001-27	088	42/085-111	25966-99	088	12/002-035
72249-51	043	21/145-147	528800-99	075	27/099-198	17369-69	083	18/222-222	00004-27	088	40/130-153	26000-16	088	12/036-052
72249-51	043	21/194-196	528900-28	075	27/199-227	18393-93	083	19/008-008	00042-44	088	41/019-021	26016-34	088	09/212-230
72251-51	043	57/009-009	528903-05	075	27/228-230	19128-71	084	16/187-230	00045-53	088	40/154-162	26035-41	088	10/001-007
72251-52	043	14/184-185	528906-17	075	28/001-012	19143-49	084	56/127-133	00045-55	088	31/208-218	26042-99	088	10/009-066
72252-52	043	21/144-144	528955-69	075	28/013-027	19150-78	084	17/010-038	00045-99	088	42/112-166	26100-44	088	10/067-111
72252-52	043	21/193-193	528981-99	075	28/028-046	19172-77	084	17/001-006	00054-82	088	40/164-192	26125-31	088	10/187-193
72253-54	043	21/148-149	529000-99	075	28/047-146	19180-81	084	17/007-008	00060-61	088	56/160-161	26132-42	088	11/010-020
72253-54	043	21/197-198	529100-02	076	28/147-149	19392-94	084	17/039-041	00062-63	088	56/180-181	26244-62	088	11/042-060
72254-54	043	14/187-187	529111-37	076	28/150-176	19400-01	084	17/043-044	00064-75	088	31/219-230	26245-63	088	11/022-040
72254-54	043	57/011-011	529413-68	076	29/021-076	19402-08	084	17/046-052	00076-99	088	32/001-024	26364-84	088	11/061-081
72255-56	043	14/189-190	529855-69	076	28/177-191	19410-10	084	17/054-054	00084-95	088	40/193-204	26366-74	088	11/083-091
72255-58	043	14/210-213	529881-99	076	28/192-210	19412-12	084	17/056-056	00100-62	088	42/167-229	26376-82	088	11/092-098
72255-58	043	21/160-163	529900-19	076	28/211-230	19413-13	084	17/058-058	00100-99	088	32/025-124	26484-99	088	11/099-114
72255-58	043	21/209-212	529920-39	076	29/001-020	19414-14	084	17/055-055	00102-07	088	40/206-211	26488-99	088	11/121-132
72258-68	043	14/191-201	12712-52	081	14/027-067	19415-27	084	17/060-072	00111-11	088	40/212-212	26500-02	088	11/133-135
72260-63	043	21/214-217	12764-79	081	14/068-083	20433-33	084	17/053-053	00112-14	088	40/214-216	26500-04	088	11/115-119
72260-64	043	14/215-219	14340-42	082	15/105-107	21186-99	085	19/009-022	00120-22	088	40/217-219	26604-15	088	11/136-147
72260-64	043	21/165-169	14340-42	082	57/039-041	21200-39	085	19/023-062	00123-26	088	40/221-224	26605-22	088	12/053-070
72265-65	043	14/221-221	14352-54	082	15/108-110	21202-17	085	19/063-078	00138-44	088	41/004-010	26724-43	088	12/071-090
72265-65	043	21/171-171	14375-79	082	15/111-115	21209-10	085	19/079-080	00146-53	088	41/011-018	26726-40	088	12/091-105
72265-65	043	21/218-218	14395-95	082	15/116-116	21218-36	085	16/132-150	00163-99	088	43/001-037	26849-62	088	30/055-068
72266-68	043	21/150-152	14415-16	082	15/117-118	21450-85	085	16/151-186	00200-05	088	32/125-130	26849-62	088	39/099-112
72266-68	043	21/199-201	14436-36	082	15/119-119	22738-38	086	50/201-201	00200-05	088	43/038-043	26853-64	088	30/043-054
72269-75	043	14/203-209	14456-56	082	15/120-120	23238-95	086	50/111-168	00207-35	088	32/131-159	26863-64	088	39/097-098
72271-75	043	21/155-159	14477-77	082	15/121-121	23263-92	086	50/171-200	00207-69	088	43/044-106	26964-84	088	30/069-089
72271-75	043	21/204-208	14479-99	082	15/122-142	23410-10	086	50/202-202	00243-99	088	32/160-216	26964-84	088	39/113-133
72276-78	043	21/172-174	14500-39	082	15/143-182	23415-15	086	18/188-188	00250-50	088	40/220-220	27084-88	088	39/134-138
72277-78	043	21/219-220	14515-42	082	15/183-210	23475-75	086	18/189-189	00279-99	088	43/107-127	27084-99	088	30/090-105
72277-79	043	57/036-038	14609-28	082	15/211-230	23508-08	086	50/204-204	25656-56	088	11/183-183	27089-90	088	39/148-149
72277-80	043	14/222-225	14629-87	082	16/001-059	23509-16	086	18/159-166	25659-60	088	11/184-185	27091-99	088	39/139-147
72277-80	043	15/101-104	15012-23	082	16/061-072	23517-18	086	18/168-169	25663-64	088	11/186-187	27100-02	088	39/150-152
72280-80	043	21/176-176	15025-26	082	16/073-074	23520-20	086	18/170-170	25667-68	088	11/188-189	27100-04	088	30/106-110
72302-02	043	21/154-154	15038-38	082	56/126-126	23522-23	086	18/171-172	25671-72	088	11/190-191	27207-11	088	39/153-157
72302-02	043	21/203-203	15039-58	082	20/129-148	23525-28	086	18/174-177	25675-76	088	11/192-193	27207-95	088	30/111-199
72357-57	043	14/162-162	15063-77	082	20/149-163	23529-29	086	18/179-179	25679-80	088	11/194-195	27212-52	088	42/001-041
72520-20	043	14/220-220	15089-99	082	20/164-174	23531-37	086	18/181-187	25683-84	088	11/196-197	27253-99	088	39/158-204
72520-20	043	21/170-170	15100-55	082	20/175-230	23539-42	086	18/190-193	25687-88	088	11/198-199	27297-99	088	30/200-202
73233-92	044	12/171-230	15137-64	082	16/075-102	24531-31	086	50/203-203	25691-92	088	11/200-201	27300-25	088	39/205-230
73293-94	044	13/001-002	15156-67	082	21/001-012	25070-70	087	17/129-129	25695-96	088	11/202-203	27300-27	088	30/203-230
73293-99	044	13/003-009	15377-78	082	16/103-104	25319-49	087	17/073-103	25699-99	088	11/204-204	27326-79	088	40/001-054
73300-11	044	13/010-021	15380-99	082	16/105-124	25336-50	087	17/104-118	25700-00	088	11/205-205	27328-99	088	31/001-072
74310-37	044	20/101-128	15400-01	082	16/125-126	25563-64	087	17/119-120	25703-04	088	11/206-207	27380-85	088	40/107-112
74338-40	044	21/013-015	15401-01	082	16/127-127	25566-71	087	17/121-126	25707-08	088	11/208-209	27386-96	088	40/055-065
527859-67	075	29/077-085	15404-07	082	16/128-131	25572-75	087	56/134-137	25715-16	088	11/212-213	27400-03	088	56/156-159
527885-99	075	29/086-100	17070-99	083	50/055-084	25580-81	087	17/127-128	25716-28	088	11/170-182	27400-29	088	31/073-102

FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID	FDSCOUNT	DAY	MVE ID
27404-31	088	40/066-093	02063-64	089	45/217-218	05390-99	091	14/001-010	164705-13	263	30/020-028
27419-29	088	26/140-150	02067-68	089	45/219-220	05400-15	091	14/011-026	164707-11	263	23/001-005
27424-31	088	41/200-207	02071-72	089	45/221-222	05400-20	091	13/205-225	164714-22	263	23/006-014
27424-61	088	31/130-167	02075-76	089	45/223-224	05996-99	091	14/084-087	164723-31	263	25/091-099
27433-50	088	41/208-225	02079-80	089	45/225-226	06000-10	091	14/088-098	164732-34	263	23/015-017
27439-51	088	40/094-106	02083-84	089	45/227-228	06014-16	091	56/116-118	166463-80	264	26/151-168
27451-61	088	42/060-070	02087-87	089	45/229-229	06017-18	091	19/096-097	166471-74	264	24/055-058
27457-70	088	40/113-126	02088-88	089	46/001-001	06020-20	091	56/119-119	166480-83	264	24/059-062
27467-77	088	42/071-081	02090-99	089	45/001-010	06020-45	091	19/098-123	166483-91	264	24/175-183
27468-77	088	31/168-177	02096-96	089	46/002-002	06022-22	091	56/120-120	166576-99	264	24/005-028
27475-77	088	40/127-129	02100-00	089	46/004-004	06023-40	091	14/099-116	166600-25	264	24/029-054
00300-13	089	32/217-230	02100-20	089	45/011-031	06024-24	091	56/121-121	166626-34	264	30/029-037
00300-31	089	43/128-159	02103-04	089	46/005-006	06026-26	091	56/122-122	166626-94	264	24/092-160
00314-31	089	33/001-018	02107-08	089	46/007-008	06027-42	091	14/119-134	166695-99	264	24/184-188
00333-64	089	33/019-050	02111-12	089	46/009-010	06028-28	091	56/123-123	166700-09	264	24/189-198
00333-92	089	43/160-219	02115-16	089	46/011-012	06030-30	091	56/124-124	166706-14	264	26/169-177
00365-68	089	56/182-185	02119-20	089	46/013-014	06032-32	091	56/125-125	166713-44	264	24/199-230
00369-92	089	33/051-074	02123-24	089	46/015-016	06033-47	091	19/081-095	166745-64	264	25/001-020
00495-99	089	33/093-097	02995-95	089	46/003-003	06049-50	091	14/117-118	166765-99	264	25/100-134
00495-99	089	44/010-014	27459-67	089	43/220-228	06046-46	092	14/135-135	166800-07	264	25/135-142
00500-12	089	44/015-027	27459-76	089	33/075-092	08046-56	092	15/001-011	166808-33	264	25/178-203
00500-14	089	33/098-112	27463-76	089	44/001-009	08058-67	092	15/012-021	166834-42	264	25/082-090
00614-14	089	44/028-028	02551-89	090	47/057-095	08070-99	092	15/053-082	166847-52	264	25/051-056
00617-17	089	44/046-046	03931-94	090	47/096-159	08076-99	092	15/022-045	166852-81	264	25/021-050
00618-34	089	44/029-045	04004-28	090	47/160-184	08100-06	092	15/046-052	166882-83	264	25/057-058
00626-32	089	33/113-119	04030-37	090	33/223-230	08100-06	092	15/083-089	166891-99	264	25/059-067
00734-54	089	33/120-140	04030-38	090	47/185-193	158495-99	260	22/176-180	166900-13	264	25/068-081
00734-54	089	44/047-067	04038-55	090	34/001-018	158500-43	260	22/181-224	167014-25	265	24/161-172
00854-74	089	44/068-088	04056-64	090	47/194-202	160424-83	261	22/114-173	167032-33	265	24/173-174
00974-94	089	44/089-109	04082-90	090	47/203-211	160488-89	261	22/174-175	168765-69	265	25/143-147
00976-77	089	41/002-003	04108-16	090	47/212-220	160490-99	261	25/204-213	168775-90	265	25/148-163
01094-99	089	44/110-115	04134-43	090	47/221-230	160500-16	261	25/214-230	168798-99	265	25/164-165
01100-12	089	44/116-128	04144-51	090	48/001-008	160517-40	261	26/001-024	168800-11	265	25/166-177
01110-14	089	52/133-137	04160-68	090	48/009-017	160544-65	261	23/027-048	168807-11	265	30/038-042
01214-32	089	44/129-147	04186-94	090	48/018-026	160570-72	261	23/049-051	168812-30	265	24/063-081
01224-28	089	40/226-230	04212-20	090	48/027-035	160576-99	261	23/052-075	168839-48	265	24/082-091
01229-29	089	41/001-001	04239-42	090	48/036-039	160584-99	261	26/025-040			
01334-35	089	45/200-201	04246-50	090	48/040-044	160600-61	261	26/041-102			
01334-49	089	44/148-163	04303-61	090	48/045-103	160600-82	261	23/076-158			
01335-39	089	52/148-152	04362-99	090	13/022-059	160684-85	261	23/159-160			
01340-50	089	45/202-212	04400-02	090	13/060-062	160687-99	261	23/161-173			
01340-54	089	45/185-199	04414-57	091	13/063-106	160700-56	261	23/174-230			
01350-54	089	52/138-142	04466-74	091	13/107-115	160757-60	261	24/001-004			
01351-51	089	44/164-164	04466-74	091	13/117-125	162632-58	262	26/103-129			
01868-73	089	44/183-188	05123-35	091	13/127-139	162666-66	262	26/130-130			
01975-77	089	44/191-193	05124-58	091	13/149-183	164651-86	263	27/036-071			
01976-77	089	44/189-190	05137-43	091	13/140-146	164687-95	263	23/018-026			
02053-89	089	44/194-230	05160-60	091	13/147-147	164696-99	263	22/225-228			
02055-56	089	45/213-214	05379-99	091	13/184-204	164705-06	263	22/229-230			
02059-60	089	45/215-216	05386-89	091	13/227-230	164705-13	263	26/131-139			

TABLE E-5

MARINER 9 ARCHIVE INDEX

Images are identified by DAS TIME, a spacecraft clock count that increments every 1.2 seconds. Alternate A and B camera images could be taken on 35-count intervals. There is a 5-count (or less) discrepancy in the association of DAS TIMES with images depending whether one uses the telemetry DAS TIME or the DAS TIME associated with the image shuttering. This discrepancy is due to the telemetry DAS COUNT being attached to an image after it was read off the vidicon and onto the spacecraft tape recorder. The DAS TIME representing the actual shutter time is used in this listing. It was fairly common for playback sequences to wrap around the spacecraft tape recorder so that the first one or two images were transmitted to Earth twice. This is the reason why certain images are found twice on the same archive tape.

DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID
1392042	028/141	1504497	001/083	1632527	012/109	1673411	014/036	1748591	001/101	1779685	009/159	1816575	009/209
1392042	028/171	1506597	001/084	1632877	012/110	1673446	014/037	1748591	001/134	1779720	009/160	1816610	009/210
1392392	028/142	1509677	001/085	1632947	012/111	1673481	014/038	1748626	001/102	1779755	009/161	1816645	009/211
1392392	028/172	1510517	001/086	1639037	012/112	1673516	014/039	1748661	001/103	1779790	009/162	1845590	002/184
1392742	028/143	1512757	001/087	1644287	012/113	1673551	014/040	1748696	001/104	1779825	009/163	1845590	002/216
1393092	028/144	1515837	001/088	1645197	012/114	1673586	014/041	1748731	001/105	1779860	009/164	1845660	002/185
1393442	028/145	1516537	001/089	1645267	012/115	1673621	014/042	1748766	001/106	1779895	009/165	1845730	002/186
1393792	028/146	1518917	001/090	1645337	012/116	1673656	014/043	1748801	001/107	1779930	009/166	1845800	002/187
1394142	028/147	1520247	001/091	1645547	012/117	1673691	014/044	1748836	001/108	1779965	009/167	1845870	002/188
1394492	028/148	1521997	001/092	1651357	012/118	1673726	014/045	1748871	001/109	1780000	009/168	1845940	002/189
1394842	028/149	1523537	001/093	1651427	012/119	1673761	014/046	1748906	001/110	1780035	009/169	1846010	002/190
1395192	028/150	1525077	001/094	1651497	012/120	1673796	014/047	1748941	001/111	1780070	009/170	1846080	002/191
1395542	028/151	1528157	001/095	1651567	012/121	1673831	014/048	1748976	001/112	1780105	009/171	1846150	002/192
1395892	028/152	1531237	001/096	1651637	012/122	1673866	014/049	1749011	001/113	1780140	009/172	1846220	002/193
1396242	028/153	1534317	001/097	1652057	012/123	1673901	014/050	1749046	001/114	1780175	009/173	1850630	002/194
1396592	028/154	1534352	001/098	1656047	012/124	1710791	014/056	1749081	001/115	1780210	009/174	1850700	002/195
1396942	028/155	1546637	012/011	1657517	012/125	1710791	014/089	1749116	001/116	1780245	009/175	1850840	002/196
1397292	028/156	1546637	012/041	1657552	012/126	1710826	014/057	1749151	001/117	1780280	009/176	1850910	002/197
1397642	028/157	1549717	012/012	1657587	012/127	1710826	014/090	1749186	001/118	1780315	009/177	1850980	002/198
1397992	028/158	1549717	012/042	1657622	012/128	1710861	014/058	1749221	001/119	1814825	009/212	1851050	002/199
1398342	028/159	1552797	012/013	1657657	012/129	1710896	014/059	1749256	001/120	1814860	009/180	1852135	002/200
1398692	028/160	1555877	012/014	1657692	012/130	1710931	014/060	1749291	001/121	1814860	009/213	1852170	002/201
1399042	028/161	1558957	012/015	1657727	012/131	1710966	014/061	1749326	001/122	1814965	009/181	1852205	002/202
1399392	028/162	1562037	012/016	1657762	012/132	1711001	014/062	1749361	001/123	1815000	009/182	1852240	002/203
1399742	028/163	1565117	012/017	1657797	012/133	1711036	014/063	1749396	001/124	1815105	009/183	1852275	002/204
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1400442	028/165	1571277	012/019	1657867	012/135	1711106	014/065	1749466	001/126	1815245	009/185	1852415	002/206
1400792	028/166	1573517	012/020	1672711	014/018	1711141	014/066	1749501	001/127	1815280	009/186	1852450	002/207
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1401317	028/168	1576527	012/022	1672746	014/019	1711211	014/068	1749571	001/129	1815420	009/188	1852520	002/209
1401352	028/169	1580517	012/023	1672746	014/052	1711246	014/069	1749606	001/130	1815525	009/189	1852555	002/210
1401387	028/170	1583597	012/024	1672851	014/020	1711281	014/070	1749641	001/131	1815560	009/190	1852590	002/211
1460397	001/067	1586677	012/025	1672851	014/053	1711316	014/071	1749676	001/132	1815735	009/191	1852625	002/212
1460397	001/099	1589757	012/026	1672886	014/021	1711351	014/072	1749711	001/133	1815770	009/192	1852660	002/213
1463477	001/068	1592837	012/027	1672886	014/054	1711386	014/073	1779195	009/145	1815945	009/193	1852695	002/214
1463477	001/100	1594517	012/028	1672921	014/022	1711421	014/074	1779195	009/178	1815980	009/194	1852730	002/215
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1469637	001/070	1598017	012/030	1672956	014/023	1711491	014/076	1779230	009/179	1816120	009/196	1884335	002/218
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1475797	001/072	1602077	012/032	1673026	014/025	1711561	014/078	1779300	009/148	1816190	009/198	1884405	002/220
1478877	001/073	1603547	012/033	1673061	014/026	1711596	014/079	1779335	009/149	1816225	009/199	1884440	002/221
1481957	001/074	1605157	012/034	1673096	014/027	1711631	014/080	1779370	009/150	1816260	009/200	1884475	002/222
1483497	001/075	1608237	012/035	1673131	014/028	1711666	014/081	1779405	009/151	1816295	009/201	1884510	002/223
1485037	001/076	1611317	012/036	1673166	014/029	1711701	014/082	1779440	009/152	1816330	009/202	1884545	002/224
1488117	001/077	1614397	012/037	1673201	014/030	1711736	014/083	1779475	009/153	1816365	009/203	1884580	002/225
1491197	001/078	1617477	012/038	1673236	014/031	1711771	014/084	1779510	009/154	1816400	009/204	1884615	002/226
1494277	001/079	1618247	012/039	1673271	014/032	1711806	014/085	1779545	009/155	1816435	009/205	1884650	002/227
1497357	001/080	1618282	012/040	1673306	034/134	1711841	014/086	1779580	009/156	1816470	009/206	1884685	002/228
1500437	001/081	1632037	012/107	1673341	014/034	1711876	014/087	1779615	009/157	1816505	009/207	1884720	002/229
1503517	001/082	1632527	012/108	1673376	014/035	1711911	014/088	1779650	009/158	1816540	009/208	1884755	003/001

MARINER 9 ARCHIVE TAPE CATALOG

DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID
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1884825	003/003	1921435	001/166	1994200	001/216	2031160	002/036	2102420	002/087	2138820	002/132	2205530	001/031
1884860	003/004	1921470	001/167	1994235	001/217	2031195	002/037	2102420	026/199	2138855	002/133	2205600	001/001
1884895	003/005	1921505	001/168	1994270	001/218	2031230	002/038	2102455	002/088	2138890	002/134	2205600	001/032
1884930	003/006	1921540	001/169	1994305	001/219	2031265	002/039	2102490	002/089	2138925	002/135	2205670	001/002
1884965	003/007	1921575	001/170	1994340	001/220	2031300	002/040	2102525	002/090	2138960	002/136	2205740	001/003
1885000	003/008	1921610	001/171	1994375	001/221	2031335	002/041	2102560	002/091	2138995	002/137	2206020	001/004
1885035	003/009	1921645	001/172	1994410	001/222	2031370	002/042	2102595	002/092	2139030	002/138	2207000	001/005
1885070	003/010	1921680	001/173	1994445	001/223	2031405	002/043	2102630	002/093	2139065	002/139	2207070	001/006
1885105	003/011	1921715	001/174	1994480	001/224	2031440	002/044	2102665	002/094	2139100	002/140	2207140	001/007
1885140	001/135	1921750	001/175	1994515	001/225	2031475	002/045	2102700	002/095	2139135	002/141	2207210	001/008
1885140	003/012	1921785	001/176	1994550	001/226	2031510	002/046	2102735	002/096	2139170	002/142	2207280	001/009
1885175	001/136	1955665	001/178	1994585	001/227	2031545	002/047	2102770	002/097	2139205	002/143	2207700	001/010
1885175	003/013	1955665	001/212	1994620	001/228	2031580	002/048	2102805	002/098	2139240	002/144	2209730	001/011
1885210	001/137	1955700	001/179	1994655	001/229	2031615	002/049	2102840	002/099	2139275	002/145	2209800	001/012
1885210	003/014	1955735	001/180	1994690	001/230	2066335	002/052	2102875	002/100	2139310	002/146	2209870	001/013
1885245	001/138	1955770	001/181	1994725	002/001	2066335	002/085	2102910	002/101	2139345	002/147	2210045	001/014
1885245	003/015	1955805	001/182	1994760	002/002	2066370	002/053	2102945	002/102	2169550	002/150	2210115	001/015
1885280	001/139	1955840	001/183	1994795	002/003	2066370	002/086	2102980	002/103	2169550	002/182	2210185	001/016
1885280	003/016	1955875	001/184	1994830	002/004	2066405	002/054	2103015	002/104	2169620	002/151	2210255	001/017
1885315	001/140	1955910	001/185	1994865	002/005	2066440	002/055	2103050	002/105	2169620	002/183	2210850	001/018
1885315	003/017	1955945	001/186	1994900	002/006	2066475	002/056	2103085	002/106	2169690	002/152	2210920	001/019
1885350	001/141	1955980	001/187	1994935	002/007	2066510	002/057	2103120	002/107	2169970	002/153	2210990	001/020
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1885385	001/142	1956050	001/189	1995005	002/009	2066580	002/059	2103190	002/109	2171090	002/155	2211095	001/022
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1920665	001/143	1956120	001/191	1995075	002/011	2066650	002/061	2103260	002/111	2173575	002/157	2211165	001/024
1920665	001/144	1956155	001/192	1995110	002/012	2066685	002/062	2103295	002/112	2173610	002/158	2211200	001/025
1920665	001/177	1956190	001/193	1995145	002/013	2066720	002/063	2103330	002/113	2174030	002/159	2211235	001/026
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1920700	001/145	1956260	001/195	1995215	002/015	2066790	002/065	2103400	002/115	2174170	002/161	2211305	001/028
1920735	001/146	1956295	001/196	2030495	002/018	2066825	002/066	2103435	002/116	2174240	002/162	2211340	001/029
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1920945	001/152	1956505	001/202	2030635	002/022	2067035	002/072	2138330	002/118	2174975	002/168	2241580	001/035
1920980	001/153	1956540	001/203	2030670	002/023	2067070	002/073	2138365	002/119	2175010	002/169	2241860	001/036
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1921050	001/155	1956610	001/205	2030775	002/025	2067140	002/075	2138435	002/121	2175080	002/171	2242980	001/038
1921085	001/156	1956645	001/206	2030810	002/026	2067175	002/076	2138470	002/122	2175115	002/172	2243120	001/039
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1921225	001/160	1956785	001/210	2030950	002/030	2067315	002/080	2138610	002/126	2175255	002/176	2245990	001/043
1921260	001/161	1994095	001/213	2030985	002/031	2067350	002/081	2138645	002/127	2175290	002/177	2246060	001/044
1921295	001/162	1994095	002/016	2031020	002/032	2067385	002/082	2138680	002/128	2175325	002/178	2246130	001/045
1921330	001/163	1994130	001/214	2031055	002/033	2067420	002/083	2138715	002/129	2175360	002/179	2246620	001/046
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2246795	001/049	2313400	004/065	2353895	033/225	2421200	012/074	2458160	033/205	2498480	003/117	2565050	004/074
2246830	001/050	2313470	004/033	2353965	033/226	2421270	012/044	2458230	033/206	2498515	003/118	2565120	004/075
2246865	001/051	2313750	004/034	2354035	033/227	2421270	012/075	2458300	033/207	2498550	003/119	2565190	004/076
2246900	001/052	2313750	004/035	2354630	033/228	2421340	012/045	2458475	033/208	2498585	003/120	2565260	004/077
2246935	001/053	2314800	004/036	2354700	033/229	2421340	012/076	2458545	012/090	2528405	003/157	2565330	004/078
2246970	001/054	2314870	004/037	2354770	033/230	2421410	012/046	2458615	012/091	2528475	003/124	2565505	004/079
2247005	001/055	2315010	004/038	2354840	034/001	2421410	012/077	2458685	012/092	2528475	003/158	2565575	004/080
2247040	001/056	2317355	004/039	2354875	034/002	2421690	012/047	2460995	012/093	2528755	003/125	2565645	004/081
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2247110	001/058	2317810	004/041	2354945	034/004	2422740	012/049	2461065	012/095	2528895	003/127	2568585	004/083
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2247180	001/060	2317950	004/043	2355015	034/006	2422880	012/051	2461135	012/097	2528965	003/129	2568655	004/085
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2247250	001/062	2318510	004/045	2355085	034/008	2423370	012/053	2462535	012/099	2529210	003/131	2568725	004/087
2247285	001/063	2318580	004/046	2355120	034/009	2425400	012/054	2462570	012/100	2529280	003/132	2568760	004/088
2247320	001/064	2318650	004/047	2355155	034/010	2425470	012/055	2462605	012/101	2529350	003/133	2569985	004/089
2277420	004/030	2318685	004/048	2385290	034/013	2425540	012/056	2462640	012/102	2529420	003/134	2570020	004/090
2277490	003/227	2318720	004/049	2385290	034/038	2425715	012/057	2462675	012/103	2529700	003/135	2570055	004/091
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2277630	004/002	2318825	004/052	2385710	034/016	2425925	012/060	2490325	003/121	2529840	003/138	2570160	004/094
2277910	004/003	2318860	004/053	2386760	034/017	2426520	012/061	2490360	003/090	2529910	003/139	2570195	004/095
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2279030	004/006	2318965	004/056	2389315	034/181	2426730	012/064	2492635	003/123	2530225	003/142	2600225	004/132
2279100	004/007	2319000	004/057	2389350	034/182	2426765	012/065	2492705	003/092	2530295	003/143	2600295	004/101
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2281760	004/012	2319175	004/062	2390470	034/019	2426940	012/070	2493370	003/097	2532780	003/148	2600785	004/105
2281935	004/013	2319210	004/063	2390540	034/020	2426975	012/071	2493440	003/098	2532815	003/149	2600960	004/106
2282005	004/014	2349310	033/209	2390610	034/021	2427010	012/072	2493510	003/099	2532850	003/150	2601030	004/107
2282075	004/015	2349310	034/011	2390645	034/022	2427045	012/073	2493580	003/100	2534215	003/151	2601100	004/108
2282145	004/016	2349380	033/210	2390680	034/023	2456725	012/078	2493650	003/101	2534250	003/152	2601170	004/109
2282740	004/017	2349380	033/211	2390715	034/024	2456725	012/105	2493825	003/102	2534285	003/153	2601240	004/110
2282810	004/018	2349380	034/012	2390750	034/025	2456795	012/079	2493895	003/103	2534320	003/154	2601520	004/111
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2283020	004/022	2350780	033/215	2390890	034/029	2457215	012/082	2496940	003/107	2562565	004/098	2601800	004/115
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2283125	004/025	2350990	033/218	2390995	034/032	2457530	012/085	2497045	003/110	2564315	004/068	2602115	004/118
2283160	004/026	2351060	033/219	2391030	034/033	2457600	012/086	2497080	003/111	2564315	004/100	2602185	004/119
2283195	004/027	2351480	033/220	2391065	034/034	2457670	012/087	2498305	003/112	2564385	004/069	2604495	004/120
2283230	004/028	2353510	033/221	2391100	034/035	2457740	012/088	2498340	003/113	2564665	004/070	2604530	004/121
2283265	004/029	2353580	033/222	2391135	034/036	2457740	012/089	2498375	003/114	2564735	004/071	2604565	004/122
2313330	004/064	2353650	033/223	2391170	034/037	2458020	033/203	2498410	003/115	2564805	004/072	2604600	004/123

DAS TIME	MAE ID	DAS TIME	MAE ID	DAS TIME	MAE ID	DAS TIME	MAE ID	DAS TIME	MAE ID	DAS TIME	MAE ID	DAS TIME	MAE ID
2604635	004/124	2672780	017/129	2712295	016/203	2780195	017/220	2817645	018/039	2887645	003/056	2927790	004/150
2604670	004/125	2672850	017/130	2712330	016/204	2780265	017/221	2817715	018/040	2887645	003/088	2927825	004/151
2606035	004/126	2672920	017/131	2713555	016/205	2780335	017/222	2819955	018/041	2887925	003/057	2927860	004/152
2606070	004/127	2672990	017/132	2713590	016/206	2780510	017/223	2819990	018/042	2887995	003/058	2927895	004/153
2606105	004/128	2673060	017/133	2713625	016/207	2780580	017/224	2820025	018/043	2888065	003/059	2927930	004/154
2606140	004/129	2673340	017/134	2713660	016/208	2780650	017/225	2820060	018/044	2888135	003/060	2929225	004/155
2606175	004/130	2673410	017/135	2713695	016/209	2780720	017/226	2820095	018/045	2888310	003/061	2929260	004/156
2606210	004/131	2673480	017/136	2713730	016/210	2780790	017/227	2820130	018/046	2888380	003/062	2929295	004/157
2636065	017/089	2673550	017/137	2713765	016/211	2780965	017/228	2821495	018/047	2888450	003/063	2929330	004/158
2636065	017/121	2673620	017/138	2713800	016/212	2781035	017/229	2821530	018/048	2888520	003/064	2929365	004/159
2636135	017/090	2673795	017/139	2713835	016/213	2781105	017/230	2821565	018/049	2888590	003/065	2929400	004/160
2636135	017/122	2673865	017/140	2743865	016/217	2781175	018/001	2821600	018/050	2888870	003/066	2929435	004/161
2636170	017/123	2673935	017/141	2743865	017/019	2782925	018/002	2821635	018/051	2888940	003/067	2929470	004/162
2636415	017/091	2674005	017/142	2743935	016/218	2782960	018/003	2821670	018/052	2889010	003/068	2929505	004/163
2636485	017/092	2676315	017/143	2743935	017/020	2784045	018/004	2849775	003/020	2889080	003/069	2929540	004/164
2636555	017/093	2676350	017/144	2744215	016/219	2784080	018/005	2849775	003/052	2889150	003/070	2929575	004/165
2636625	017/094	2676385	017/145	2744285	016/220	2784115	018/006	2849810	003/021	2889325	003/071	2959395	004/168
2636800	017/095	2676420	017/146	2744355	016/221	2784150	018/007	2849810	003/053	2889395	003/072	2959395	004/200
2636870	017/096	2676455	017/147	2744425	016/222	2784185	018/008	2851665	003/022	2889465	003/073	2959465	004/169
2636905	017/097	2676490	017/148	2744600	016/223	2784220	018/009	2851735	003/023	2889535	003/074	2959465	004/201
2637010	017/098	2677855	017/149	2744670	016/224	2785445	018/010	2852015	003/024	2891845	003/075	2959745	004/170
2637080	017/099	2677890	017/150	2744740	016/225	2785480	018/011	2852085	003/025	2891880	003/076	2959815	034/132
2637255	017/100	2677925	017/151	2744810	016/226	2785515	018/012	2852155	003/026	2891915	003/077	2959885	004/172
2637325	017/101	2677960	017/152	2744880	016/227	2785550	018/013	2852225	003/027	2891950	003/078	2959955	004/173
2637395	017/102	2677995	017/153	2745160	016/228	2785585	018/014	2852400	003/028	2891985	003/079	2960130	004/174
2637465	017/103	2678030	017/154	2745230	016/229	2785620	018/015	2852470	003/029	2892020	003/080	2960200	004/175
2640335	017/104	2707885	016/182	2745300	016/230	2785655	018/016	2852540	003/030	2893385	003/081	2960270	004/176
2640370	017/105	2707885	016/214	2745370	017/001	2785690	018/017	2852610	003/031	2893420	003/082	2960340	004/177
2640405	017/106	2707955	016/183	2745440	017/002	2785725	018/018	2852680	003/032	2893455	003/083	2960410	004/178
2640440	017/107	2707955	016/215	2745615	017/003	2815685	018/021	2852855	003/033	2893490	003/084	2960690	004/179
2640475	017/108	2707990	016/216	2745685	017/004	2815685	018/053	2852925	003/034	2893525	003/085	2960760	004/180
2640510	017/109	2708235	016/184	2745755	017/005	2815755	003/054	2852995	003/035	2893560	003/086	2960830	004/181
2641735	017/110	2708305	016/185	2745825	017/006	2815755	018/022	2853065	003/036	2923555	004/134	2960900	004/182
2641770	017/111	2708375	016/186	2748135	017/007	2815755	018/054	2855935	003/037	2923555	004/166	2960970	004/183
2641805	017/112	2708445	016/187	2748170	017/008	2816105	018/023	2855970	003/038	2923625	004/135	2961145	004/184
2641840	017/113	2708620	016/188	2748205	017/009	2816175	018/024	2856005	003/039	2923625	004/167	2961215	004/185
2641875	017/114	2708690	016/189	2748240	017/010	2816245	018/025	2856040	003/040	2923905	004/136	2961285	004/186
2641910	017/115	2708760	016/190	2748275	017/011	2816315	018/026	2856075	003/041	2923975	004/137	2961355	004/187
2641945	017/116	2708830	016/191	2748310	017/012	2816490	018/027	2856110	003/042	2924045	004/138	2963665	004/188
2641980	017/117	2708900	016/192	2749675	017/013	2816560	018/028	2857335	003/043	2924115	004/139	2963700	004/189
2642015	017/118	2709075	016/193	2749710	017/014	2816630	018/029	2857370	003/044	2924290	004/140	2963735	004/190
2642050	017/119	2709145	016/194	2749745	017/015	2816700	018/030	2857405	003/045	2924360	004/141	2963770	004/191
2642085	017/120	2709215	016/195	2749780	017/016	2816770	018/031	2857440	003/046	2924430	004/142	2963805	004/192
2672045	017/124	2709285	016/196	2749815	017/017	2817050	018/032	2857475	003/047	2924500	004/143	2963840	004/193
2672045	017/155	2711175	016/197	2749850	017/018	2817120	018/033	2857510	003/048	2924570	004/144	2965205	004/194
2672115	017/125	2711210	016/198	2779775	017/217	2817190	018/034	2857545	003/049	2924745	004/145	2965240	004/195
2672115	017/156	2712155	016/199	2779775	018/019	2817260	018/035	2857580	003/050	2924815	004/146	2965275	004/196
2672395	017/126	2712190	016/200	2779845	017/218	2817330	018/036	2857615	003/051	2924885	004/147	2965310	004/197
2672535	017/127	2712225	016/201	2779845	018/020	2817505	018/037	2887575	003/055	2924955	004/148	2965345	004/198
2672605	017/128	2712260	016/202	2780125	017/219	2817575	018/038	2887575	003/087	2927755	004/149	2965380	004/199

DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID
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2995380	017/053	3032935	017/070	3073360	021/206	3139895	024/049	3180880	024/100	3247765	007/027	3287315	004/225
2995450	017/022	3033110	017/071	3073395	021/207	3139965	024/050	3180915	024/101	3247835	007/028	3288540	004/226
2995450	017/054	3033180	017/072	3103250	021/210	3140035	024/051	3180950	024/102	3247905	007/029	3288575	004/227
2995730	017/023	3033250	017/073	3103250	022/011	3140105	024/052	3180985	024/103	3247975	007/030	3288610	004/228
2995800	017/024	3033320	017/074	3103320	021/211	3140175	024/053	3181020	007/016	3248255	007/031	3288645	004/229
2995870	017/025	3035630	017/075	3103320	022/012	3140350	024/054	3181020	024/104	3248325	007/032	3288680	004/230
2995940	017/026	3035665	017/076	3103600	021/212	3140420	024/055	3181055	007/017	3248395	007/033	3288715	005/001
2996115	017/027	3035700	017/077	3103670	021/213	3140490	024/056	3181055	024/105	3248465	007/034	3288750	005/002
2996185	017/028	3035735	017/078	3103740	021/214	3140560	024/057	3211050	006/214	3248535	007/035	3288785	005/003
2996255	017/029	3035770	017/079	3103810	021/215	3143430	024/058	3211050	007/018	3248710	007/036	3288820	005/004
2996325	017/030	3035805	017/080	3103985	021/216	3143465	024/059	3211120	006/215	3248780	007/037	3318780	005/008
2996395	017/031	3037170	017/081	3104055	021/217	3143500	024/060	3211120	007/019	3248850	007/038	3318780	005/040
2996570	017/032	3037205	017/082	3104125	021/218	3143535	024/061	3211400	006/216	3248920	007/039	3318850	005/009
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2996710	017/034	3037275	017/084	3104265	021/220	3143605	024/063	3211540	006/218	3251265	007/041	3319130	005/010
2996780	017/035	3037310	017/085	3104545	021/221	3144970	024/064	3211610	006/219	3251300	007/042	3319200	005/011
2999580	017/036	3037345	017/086	3104615	021/222	3145005	024/065	3211785	006/220	3251335	007/043	3319270	005/012
2999615	017/037	3066220	021/175	3104685	021/223	3145040	024/066	3211855	006/221	3251370	007/044	3319340	005/013
2999650	017/038	3066220	021/208	3104755	021/224	3145075	024/067	3211925	006/222	3251405	007/045	3319515	005/014
2999685	017/039	3067270	021/176	3104825	021/225	3145110	024/068	3211995	006/223	3252770	007/046	3319585	005/015
2999720	017/040	3067270	021/209	3105000	021/226	3145145	024/069	3212065	006/224	3252805	007/047	3319655	005/016
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3001050	017/042	3067620	021/178	3105140	021/228	3175070	024/106	3212310	006/226	3252875	007/049	3319795	005/018
3001085	017/043	3067690	021/179	3105210	021/229	3175070	034/146	3212380	006/227	3252910	007/050	3320075	005/019
3001120	017/044	3067760	021/180	3107520	021/230	3175140	024/075	3212450	006/228	3282870	004/202	3320145	005/020
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3001190	017/046	3068005	021/182	3107590	022/001	3175420	024/076	3215355	007/001	3282940	004/203	3320285	005/022
3001225	017/047	3068075	021/183	3107625	022/002	3175490	024/077	3215390	007/002	3282940	005/006	3320355	005/023
3001260	017/048	3068145	021/184	3107660	022/003	3175560	024/078	3215425	007/003	3282975	005/007	3320810	005/024
3001295	017/049	3068215	021/185	3107695	022/004	3175630	024/079	3215460	007/004	3283220	004/204	3320810	005/042
3001330	017/050	3068285	021/186	3109060	022/005	3175805	024/080	3215495	007/005	3283290	004/205	3320880	005/025
3001365	017/051	3069020	021/187	3109095	022/006	3175875	024/081	3216720	007/006	3283360	004/206	3320880	005/043
3001400	017/052	3069685	021/188	3109130	022/007	3175945	024/082	3216755	007/007	3283430	004/207	3320950	005/026
3031360	017/055	3069755	021/189	3109165	022/008	3176015	024/083	3216790	007/008	3283605	004/208	3321020	005/027
3031360	017/087	3069825	021/190	3109200	022/009	3176085	024/084	3216825	007/009	3283675	004/209	3323050	005/028
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3031430	017/088	3071540	021/192	3136570	024/039	3176435	024/086	3216895	007/011	3283745	004/211	3323120	005/030
3031710	017/057	3071575	021/193	3136570	024/071	3176505	024/087	3216930	007/012	3283815	004/212	3323155	005/031
3031780	017/058	3071610	021/194	3136605	024/040	3176575	024/088	3216965	007/013	3283885	004/213	3323190	005/032
3031850	017/059	3071645	021/195	3136605	024/072	3176645	024/089	3217000	007/014	3284060	004/214	3323225	005/033
3031920	017/060	3071680	021/196	3136605	024/073	3176820	024/090	3217035	007/015	3284130	004/215	3324450	005/034
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3032235	017/063	3073115	021/199	3137375	024/042	3177030	024/093	3247030	007/021	3286720	004/218	3324555	005/037
3032305	017/064	3073150	021/200	3139160	024/043	3179340	024/094	3247030	007/052	3286755	004/219	3324590	005/038
3032375	017/065	3073185	021/201	3139230	024/044	3179375	024/095	3247310	007/022	3287140	004/220	3324625	005/039
3032655	017/066	3073220	021/202	3139510	024/045	3179410	024/096	3247380	007/023	3287175	004/221	3354690	022/150
3032725	017/067	3073255	021/203	3139580	024/046	3179445	024/097	3247450	007/024	3287210	004/222	3354690	022/182
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3354795	022/184	3392490	022/202	3462420	008/132	3499660	006/026	3540155	006/077	3607355	003/206	3677740	005/103
3355040	022/152	3392560	022/203	3462420	008/165	3501970	006/027	3570010	003/159	3607425	003/207	3678020	005/072
3355110	022/153	3394870	022/204	3462700	008/133	3502005	006/028	3570010	003/191	3607495	003/208	3678090	005/073
3355180	022/154	3394905	022/205	3462770	008/134	3502530	006/029	3570080	003/160	3607670	003/209	3678160	005/074
3355250	022/155	3394940	022/206	3462840	008/135	3502565	006/030	3570080	003/192	3607740	003/210	3678230	005/075
3355425	022/156	3394975	022/207	3462910	008/136	3502600	006/031	3570325	003/193	3607810	003/211	3678405	005/076
3355495	022/157	3395010	022/208	3463085	008/137	3502635	006/032	3570360	003/161	3607880	003/212	3678475	005/077
3355565	022/158	3395045	022/209	3463155	008/138	3502670	006/033	3570430	003/162	3610190	003/213	3678545	005/078
3355635	022/159	3396270	023/199	3463225	008/139	3502705	006/034	3570500	003/163	3610225	003/214	3678615	005/079
3355705	022/160	3396305	023/200	3463295	008/140	3503930	006/035	3570570	003/164	3610260	003/215	3678685	005/080
3355880	022/161	3396340	023/201	3463365	008/141	3503965	006/036	3570745	003/165	3610295	003/216	3678965	005/081
3355950	022/162	3396375	023/202	3463610	008/142	3504000	006/037	3570815	003/166	3610330	003/217	3679035	005/082
3356020	022/163	3396410	023/203	3463645	034/133	3504035	006/038	3570885	003/167	3610365	003/218	3679105	005/083
3356090	022/164	3396445	023/204	3463715	008/144	3504070	006/039	3570955	003/168	3611730	003/219	3679175	005/084
3358960	022/165	3426510	008/097	3463785	008/145	3504105	006/040	3571025	003/169	3611765	003/220	3679245	005/085
3358995	022/166	3426510	008/129	3463855	008/146	3504140	006/041	3571200	003/170	3611800	003/221	3679420	005/086
3359030	022/167	3426580	008/098	3463925	008/147	3504175	006/042	3571270	003/171	3611835	003/222	3679490	005/087
3359065	022/168	3426580	008/130	3464100	008/148	3504210	006/043	3571340	003/172	3611870	003/223	3679560	005/088
3359100	022/169	3426860	008/099	3464170	008/149	3534170	006/078	3571410	003/173	3611905	003/224	3679630	005/089
3359135	022/170	3426930	008/100	3464240	008/150	3534240	006/047	3574280	003/174	3641830	005/044	3681940	005/090
3360360	022/171	3427000	008/101	3464310	008/151	3534240	006/079	3574315	003/175	3641900	005/045	3681975	005/091
3360395	022/172	3427070	008/102	3466620	008/152	3534520	006/048	3574350	003/176	3642180	005/046	3682010	005/092
3360430	022/173	3427245	008/103	3466655	008/153	3534590	006/049	3574385	003/177	3642250	005/047	3682045	005/093
3360465	022/174	3427315	008/104	3466690	008/154	3534660	006/050	3574420	003/178	3642320	005/048	3682080	005/094
3360500	022/175	3427385	008/105	3466725	008/155	3534730	006/051	3574455	003/179	3642390	005/049	3682115	005/095
3360535	022/176	3427455	008/106	3466760	008/156	3534905	006/052	3575680	003/180	3642565	005/050	3683480	005/096
3360570	022/177	3427525	008/107	3466795	008/157	3534975	006/053	3575715	003/181	3642635	005/051	3683515	005/097
3360605	022/178	3427700	008/108	3468160	008/158	3535045	006/054	3575750	003/182	3642635	034/131	3683550	005/098
3360640	022/179	3427770	008/109	3468195	008/159	3535115	006/055	3575785	003/183	3642635	034/135	3683585	005/099
3360675	022/180	3427840	008/110	3468230	008/160	3535185	006/056	3575820	003/184	3642845	005/052	3683620	005/100
3360710	022/181	3427910	008/111	3468265	008/161	3535465	006/057	3575855	003/185	3643020	005/053	3683655	005/101
3390600	023/205	3430780	008/112	3468300	008/162	3535535	006/058	3575890	003/186	3643090	005/054	3711130	006/080
3390670	022/185	3430815	008/113	3468335	008/163	3535605	006/059	3575925	003/187	3643160	005/055	3711130	006/112
3390670	023/206	3430850	008/114	3498260	006/012	3535675	006/060	3575960	003/188	3643230	005/056	3713510	006/081
3390950	022/186	3430885	008/115	3498260	006/044	3535745	006/061	3575995	003/189	3646100	005/057	3713510	006/113
3391020	022/187	3430920	008/116	3498330	006/013	3535920	006/062	3576030	003/190	3646135	005/058	3713580	006/082
3391090	022/188	3430955	008/117	3498330	006/045	3535990	006/063	3605920	003/225	3646170	005/059	3713860	006/083
3391160	022/189	3432180	008/118	3498575	006/046	3536060	006/064	3605990	003/194	3646205	005/060	3713930	006/084
3391335	022/190	3432215	008/119	3498610	006/014	3536130	006/065	3605990	003/226	3646240	005/061	3714000	006/085
3391405	022/191	3432250	008/120	3498680	006/015	3538440	006/066	3606270	003/195	3646275	005/062	3714070	006/086
3391475	022/192	3432285	008/121	3498750	006/016	3538475	006/067	3606340	003/196	3647500	005/063	3714245	006/087
3391545	022/193	3432320	008/122	3498820	006/017	3538510	006/068	3606410	003/197	3647535	005/064	3714315	006/088
3391615	022/194	3432355	008/123	3498995	006/018	3538545	006/069	3606480	003/198	3647570	005/065	3714385	006/089
3391895	022/195	3432390	008/124	3499065	006/019	3538580	006/070	3606655	003/199	3647605	005/066	3714455	006/090
3391965	022/196	3432425	008/125	3499135	006/020	3538615	006/071	3606725	003/200	3647640	005/067	3714525	006/091
3392035	022/197	3432460	008/126	3499205	006/021	3539980	006/072	3606795	003/201	3647675	005/068	3714700	006/092
3392105	022/198	3432495	008/127	3499275	006/022	3540015	006/073	3606865	003/202	3647710	005/069	3714770	006/093
3392175	022/199	3432530	008/128	3499450	006/023	3540050	006/074	3606935	003/203	3677670	005/070	3714840	006/094
3392350	022/200	3462350	008/131	3499520	006/024	3540085	006/075	3607215	003/204	3677670	005/102	3714910	006/095

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3717780	006/096	3785330	029/066	3822570	034/154	3894460	011/011	3931910	018/077	3970060	018/126	4039220	011/091
3717815	006/097	3785330	034/168	3822570	034/155	3894460	011/043	3931980	018/078	4002050	011/044	4039290	011/092
3717850	006/098	3785400	029/067	3822955	034/158	3894530	011/012	3933100	018/079	4002050	011/076	4039360	011/093
3717885	006/099	3785400	034/169	3823025	034/159	3894600	011/013	3933135	018/080	4002120	011/045	4039430	011/094
3717920	006/100	3785680	029/068	3823060	029/105	3894670	011/014	3933170	018/081	4002190	011/046	4040830	011/095
3717955	006/101	3785750	029/069	3823130	029/106	3894880	011/015	3933205	018/082	4002260	011/047	4040865	011/096
3719180	006/102	3785820	029/070	3825440	029/107	3894915	011/016	3933240	018/083	4002575	011/048	4040900	011/097
3719215	006/103	3785890	029/071	3825475	029/108	3894985	011/017	3933275	018/084	4002645	011/049	4040935	011/098
3719250	006/104	3786065	029/072	3825510	029/109	3895055	011/018	3933905	018/085	4002715	011/050	4040970	011/099
3719285	006/105	3786135	029/073	3825545	029/110	3895125	011/019	3933940	018/086	4002785	011/051	4041005	011/100
3719320	006/106	3786205	029/074	3825580	029/111	3895195	011/020	3933975	018/087	4002855	011/052	4041635	011/101
3719355	006/107	3786275	029/075	3825615	029/112	3895265	011/021	3934010	018/088	4002925	011/053	4041670	011/102
3719390	006/108	3786345	029/076	3826140	029/113	3895335	011/022	3934045	018/089	4002995	011/054	4041705	011/103
3719425	006/109	3786520	029/077	3826980	029/114	3895405	011/023	3934080	018/090	4003065	011/055	4041740	011/104
3719460	006/110	3786590	029/078	3827015	029/115	3895440	011/024	3934115	018/091	4003310	011/056	4041775	011/105
3719495	006/111	3786660	029/079	3827050	029/116	3895650	011/025	3934150	018/092	4003380	011/057	4041810	011/106
3749420	006/114	3786730	029/080	3827085	029/117	3895720	011/026	3934185	018/093	4003450	011/058	4041845	011/107
3749420	006/146	3789600	029/081	3827120	029/118	3895790	011/027	3966210	018/095	4003730	011/059	4041880	011/108
3749490	006/115	3789600	034/156	3852670	010/212	3895860	011/028	3966210	018/127	4003800	011/060	4073870	005/104
3749490	006/147	3789635	029/082	3852670	011/010	3897260	011/029	3966280	018/096	4004920	011/061	4073870	005/136
3749770	006/116	3789635	034/157	3854630	010/213	3897295	011/030	3966280	018/128	4004955	011/062	4073940	005/105
3749840	006/117	3789670	029/083	3854665	010/214	3897330	011/031	3966350	018/097	4004990	011/063	4074010	005/106
3749910	006/118	3789705	029/084	3854700	010/215	3897365	011/032	3966420	018/098	4005025	011/064	4074080	005/107
3749980	006/119	3789740	029/085	3854735	010/216	3897400	011/033	3966630	018/099	4005060	011/065	4074395	005/108
3750155	006/120	3789775	029/086	3854770	010/217	3897435	011/034	3966665	018/100	4005095	011/066	4074465	005/109
3750225	006/121	3791000	029/087	3854805	010/218	3898065	011/035	3966735	018/101	4005725	011/067	4074535	005/110
3750295	006/122	3791035	029/088	3857080	010/219	3898100	011/036	3966805	018/102	4005760	011/068	4074605	005/111
3750365	006/123	3791070	029/089	3857150	010/220	3898135	011/037	3966875	018/103	4005795	011/069	4074675	005/112
3750435	006/124	3791105	029/090	3857430	010/221	3898170	011/038	3966945	018/104	4005830	011/070	4074745	005/113
3750715	006/125	3791140	029/091	3857500	010/222	3898205	011/039	3967015	018/105	4005865	011/071	4074815	005/114
3750785	006/126	3791175	029/092	3857570	010/223	3898240	011/040	3967085	018/106	4005900	011/072	4074885	005/115
3750855	006/127	3791210	029/093	3857640	010/224	3898275	011/041	3967155	018/107	4005935	011/073	4075130	005/116
3750925	006/128	3791245	029/094	3857815	010/225	3898310	011/042	3967190	018/108	4005970	011/074	4075200	005/117
3750995	006/129	3791280	029/095	3857885	010/226	3930230	018/061	3967400	018/109	4006005	011/075	4075270	005/118
3751170	006/130	3791315	029/096	3857955	010/227	3930230	018/062	3967470	018/110	4038030	011/077	4075550	005/119
3751240	006/131	3791350	029/097	3858095	011/127	3930230	018/094	3967540	018/111	4038030	011/109	4075620	005/120
3751310	006/132	3821170	029/119	3858270	011/128	3930300	018/063	3967610	018/112	4038100	011/078	4076740	005/121
3751380	006/133	3821170	034/170	3858340	011/129	3930370	018/064	3969010	018/113	4038100	011/110	4076775	005/122
3753690	006/134	3821240	029/120	3858410	011/130	3930440	018/065	3969045	018/114	4038170	011/079	4076810	005/123
3753725	006/135	3821240	034/171	3858480	011/131	3930755	018/066	3969080	018/115	4038240	011/080	4076845	005/124
3753760	006/136	3821520	034/172	3861350	011/132	3930825	018/067	3969115	018/116	4038450	011/081	4076880	005/125
3753795	006/137	3821590	034/173	3861385	011/001	3930895	018/068	3969150	018/117	4038485	011/082	4076915	005/126
3753830	006/138	3821660	029/098	3861420	011/002	3930965	018/069	3969185	018/118	4038555	011/083	4077545	005/127
3753865	006/139	3821730	029/099	3861455	011/003	3931035	018/070	3969815	018/119	4038625	011/084	4077580	005/128
3755230	006/140	3821905	029/100	3861490	011/004	3931105	018/071	3969850	018/120	4038695	011/085	4077615	005/129
3755265	006/141	3821975	029/101	3861525	011/005	3931175	018/072	3969885	018/121	4038765	011/086	4077650	005/130
3755300	006/142	3822045	029/102	3862750	011/006	3931245	018/073	3969920	018/122	4038835	011/087	4077685	005/131
3755335	006/143	3822115	029/103	3862785	011/007	3931490	018/074	3969955	018/123	4038905	011/088	4077720	005/132
3755370	006/144	3822185	029/104	3862820	011/008	3931560	018/075	3969990	018/124	4038975	011/089	4077755	005/133
3755405	006/145	3822500	034/153	3862855	011/009	3931630	018/076	3970025	018/125	4039010	011/090	4077790	005/134

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4077825	005/135	4147090	006/161	4185555	006/210	4254820	008/212	4325520	031/156	4364265	012/154	4433460	026/058
4109850	005/137	4147160	006/162	4185590	006/211	4254890	008/213	4325590	031/125	4364300	012/155	4433775	026/059
4109850	005/170	4147440	006/163	4212330	008/166	4254960	008/214	4325660	031/126	4364335	012/156	4433845	026/060
4109920	005/138	4147510	006/164	4212610	008/167	4255030	008/215	4325730	031/127	4364370	012/157	4433915	026/061
4109920	005/171	4148630	006/165	4215690	008/168	4256430	008/216	4325940	031/128	4364405	012/158	4433985	026/062
4109990	005/139	4148665	006/166	4217580	008/169	4256465	008/217	4325975	031/129	4365035	012/159	4434055	026/063
4110060	005/140	4148700	006/167	4217650	008/170	4256500	008/218	4326045	031/130	4365070	012/160	4434125	026/064
4110270	005/141	4148735	006/168	4217720	008/171	4256535	008/219	4326115	031/131	4365105	012/161	4434195	026/065
4110305	005/142	4148770	006/169	4217790	008/172	4256570	008/220	4326185	031/132	4365140	012/162	4434265	026/066
4110305	005/143	4148805	006/170	4218105	008/173	4256605	008/221	4326255	031/133	4365175	012/163	4434510	026/067
4110375	005/144	4149435	006/171	4218175	008/174	4258425	008/222	4326325	031/134	4365210	012/164	4434580	026/068
4110445	005/145	4149470	006/172	4218245	008/175	4258460	008/223	4326395	031/135	4365245	012/165	4434650	026/069
4110515	005/146	4149505	006/173	4218315	008/176	4258495	008/224	4326465	031/136	4365280	012/166	4434930	026/070
4110585	005/147	4149540	006/174	4218385	008/177	4258530	008/225	4326500	031/137	4397410	012/167	4435000	026/071
4110655	005/148	4149575	006/175	4218455	008/178	4258565	008/226	4326710	031/138	4397410	012/199	4436120	026/072
4110725	005/149	4149610	006/176	4218525	008/179	4258600	008/227	4326780	031/139	4397480	012/168	4436155	026/073
4110795	005/150	4149645	006/177	4218595	008/180	4258635	008/228	4326850	031/140	4397480	012/200	4436190	026/074
4110830	005/151	4149680	006/178	4218840	008/181	4258670	008/229	4326920	031/141	4397550	012/169	4436225	026/075
4111040	005/152	4149715	006/179	4218910	008/182	4289470	031/093	4328320	031/142	4397620	012/170	4436260	026/076
4111110	005/153	4181740	006/212	4218980	008/183	4289540	031/094	4328355	031/143	4397830	012/171	4436295	026/077
4111180	005/154	4181810	006/181	4219260	008/184	4289610	031/095	4328390	031/144	4397865	012/172	4436925	026/078
4111250	005/155	4181810	006/213	4219330	008/185	4289680	031/096	4328425	031/145	4397935	012/173	4436960	026/079
4112650	005/156	4181880	006/182	4220450	008/186	4289995	031/097	4328460	031/146	4398005	012/174	4436995	026/080
4112685	005/157	4181950	006/183	4220485	008/187	4290065	031/098	4328495	031/147	4398075	012/175	4437030	026/081
4112720	005/158	4182160	006/184	4220520	008/188	4290135	031/099	4330245	031/148	4398145	012/176	4437065	026/082
4112755	005/159	4182195	006/185	4220555	008/189	4290205	031/100	4330280	031/149	4398215	012/177	4437100	026/083
4112790	005/160	4182265	006/186	4220590	008/190	4290275	031/101	4330315	031/150	4398285	012/178	4437135	026/084
4112825	005/161	4182335	006/187	4220625	008/191	4290345	031/102	4330350	031/151	4398355	012/179	4437170	026/085
4113455	005/162	4182405	006/188	4221220	008/192	4290415	031/103	4330385	031/152	4398390	012/180	4469230	026/086
4113490	005/163	4182475	006/189	4221255	008/193	4290485	031/104	4330420	031/153	4398600	012/181	4469230	026/118
4113525	005/164	4182545	006/190	4221290	008/194	4290730	031/105	4330455	031/154	4398670	012/182	4469300	026/087
4113560	005/165	4182615	006/191	4221325	008/195	4290800	031/106	4330490	031/155	4398740	012/183	4469300	026/119
4113595	005/166	4182685	006/192	4221360	008/196	4290870	031/107	4361360	012/136	4398810	012/184	4469370	026/088
4113630	005/167	4182720	006/193	4221395	008/197	4291150	031/108	4361430	012/137	4400210	012/185	4469440	026/089
4113665	005/168	4182930	006/194	4253630	008/198	4291220	031/109	4361500	012/138	4400245	012/186	4469650	026/090
4113700	005/169	4183000	006/195	4253630	008/230	4292340	031/110	4361570	012/139	4400280	012/187	4469685	026/091
4145760	006/148	4183070	006/196	4253700	008/199	4292375	031/111	4361885	012/140	4400315	012/188	4469755	026/092
4145760	006/180	4183140	006/197	4253700	008/231	4292410	031/112	4361955	012/141	4400350	012/189	4469825	026/093
4145830	006/149	4184540	006/198	4253770	008/200	4292445	031/113	4362025	012/142	4400385	012/190	4469895	026/094
4145900	006/150	4184575	006/199	4253840	008/201	4292480	031/114	4362095	012/143	4402135	012/191	4469965	026/095
4145970	006/151	4184610	006/200	4254050	008/202	4292515	031/115	4362165	012/144	4402170	012/192	4470035	026/096
4146285	006/152	4184645	006/201	4254085	008/203	4293145	031/116	4362235	012/145	4402205	012/193	4470105	026/097
4146355	006/153	4184680	006/202	4254155	008/204	4293180	031/117	4362305	012/146	4402240	012/194	4470175	026/098
4146425	006/154	4184715	006/203	4254225	008/205	4293215	031/118	4362375	012/147	4402275	012/195	4470210	026/099
4146495	006/155	4185345	006/204	4254295	008/206	4293250	031/119	4362620	012/148	4402310	012/196	4470420	026/100
4146565	006/156	4185380	006/205	4254365	008/207	4293285	031/120	4362690	012/149	4402345	012/197	4470490	026/101
4146635	006/157	4185415	006/206	4254435	008/208	4293320	031/121	4362760	012/150	4402380	012/198	4470560	026/102
4146705	006/158	4185450	006/207	4254505	008/209	4293355	031/122	4363040	012/151	4433250	026/055	4470630	026/103
4146775	006/159	4185485	006/208	4254575	008/210	4293390	031/123	4363110	012/152	4433320	026/056	4472030	026/104
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4472135	026/107	4541540	009/037	4580005	007/075	4649445	017/163	4687805	017/212	4832845	009/074	4903055	010/184
4472170	026/108	4541575	009/038	4580635	007/076	4649515	017/164	4689345	017/213	4832880	009/075	4903090	010/185
4472205	009/024	4541645	009/039	4580670	007/077	4649585	017/165	4689380	017/214	4832915	009/076	4903125	010/186
4472205	026/109	4541715	009/040	4580705	007/078	4649655	017/166	4689415	017/215	4832950	009/077	4903230	010/187
4473885	026/110	4541785	009/041	4580740	007/079	4649725	017/167	4689450	017/216	4832985	009/078	4903265	010/188
4473920	026/111	4541855	009/042	4580775	007/080	4649795	017/168	4689485	018/055	4833020	009/079	4939700	010/129
4473955	026/112	4541925	009/043	4580810	007/081	4650040	017/169	4689520	018/056	4833055	009/080	4939700	010/162
4473990	026/113	4541995	009/044	4580845	007/082	4650110	017/170	4689555	018/057	4833090	009/081	4939735	010/130
4474025	026/114	4542065	009/045	4580880	007/083	4650180	017/171	4689590	018/058	4864170	010/165	4939735	010/163
4474060	026/115	4542100	009/046	4613010	007/084	4650460	017/172	4720600	013/214	4864240	010/166	4939770	010/131
4474095	026/116	4542310	009/047	4613010	007/116	4650530	017/173	4720670	013/215	4864310	010/167	4939805	010/132
4474130	026/117	4542380	009/048	4613080	007/085	4651650	017/174	4720810	013/216	4864380	010/168	4939840	010/133
4505140	009/001	4542450	009/049	4613080	007/117	4651685	017/175	4721125	013/217	4864695	010/169	4939875	010/134
4505210	009/002	4542520	009/050	4613150	007/086	4651720	017/176	4721195	013/218	4864765	010/170	4939910	010/135
4505280	009/003	4543920	009/051	4613220	007/087	4651755	017/177	4721265	013/219	4864835	010/171	4939945	010/136
4505350	009/004	4543955	009/052	4613430	007/088	4651790	017/178	4721335	013/220	4864905	010/172	4939980	010/137
4505665	009/005	4543990	009/053	4613465	007/089	4651825	017/179	4721405	013/221	4864975	010/173	4940015	010/138
4505735	009/006	4544025	009/054	4613535	007/090	4652455	017/181	4721475	013/222	4865045	010/174	4940050	010/139
4505805	009/007	4544060	009/055	4613605	007/091	4652490	017/182	4721545	013/223	4865115	010/175	4940085	010/140
4505875	009/008	4544095	009/056	4613675	007/092	4652525	017/183	4721615	013/224	4865115	010/189	4940120	010/141
4505945	009/009	4545635	009/057	4613745	007/093	4652560	017/184	4721860	013/225	4865185	010/176	4940155	010/142
4506015	009/010	4545670	009/058	4613815	007/094	4652595	017/185	4721930	013/226	4865185	010/190	4940190	010/143
4506085	009/011	4545705	009/059	4613885	007/095	4652630	017/186	4722000	013/227	4865430	010/191	4940225	010/144
4506155	009/012	4545740	009/060	4613955	007/096	4652665	017/187	4722280	013/228	4865500	010/192	4940260	010/145
4506400	009/013	4545775	009/061	4613990	007/097	4652700	017/188	4722350	013/229	4865570	010/193	4940295	010/146
4506470	009/014	4545810	009/062	4614200	007/098	4684830	017/189	4723470	014/001	4865850	010/194	4940330	010/147
4506540	009/015	4545845	009/063	4614270	007/099	4684830	018/059	4723505	014/002	4865920	010/195	4940365	010/148
4506820	009/016	4545880	009/064	4614340	007/100	4684900	017/190	4723540	014/003	4867040	010/196	4940400	010/149
4506890	009/017	4576960	007/053	4614410	007/101	4684900	018/060	4723575	014/004	4867075	010/197	4940435	010/150
4508010	009/018	4577030	007/054	4615810	007/102	4684970	017/191	4723610	014/005	4867110	010/198	4940470	010/151
4508045	009/019	4577100	007/055	4615845	007/103	4685040	017/192	4723645	014/006	4867145	010/199	4940505	010/152
4508080	009/020	4577170	007/056	4615880	007/104	4685250	017/193	4724275	014/007	4867180	010/200	4940540	010/153
4508115	009/021	4577485	007/057	4615915	007/105	4685285	017/194	4724310	014/008	4867215	010/201	4940575	010/154
4508150	009/022	4577555	007/058	4615950	007/106	4685355	017/195	4724345	014/009	4867845	010/202	4940610	010/155
4508185	009/023	4577625	007/059	4615985	007/107	4685425	017/196	4724380	014/010	4867880	010/203	4940645	010/156
4508815	009/025	4577695	007/060	4615985	017/180	4685495	017/197	4724415	014/011	4867915	010/204	4940680	010/157
4508850	009/026	4577765	007/061	4617525	007/108	4685565	017/198	4724450	014/012	4867950	010/205	4940715	010/158
4508885	009/027	4577835	007/062	4617560	007/109	4685635	017/199	4724485	014/013	4867985	010/206	4940750	010/159
4508920	009/028	4577905	007/063	4617595	007/110	4685705	017/200	4759450	014/014	4868020	010/207	4940785	010/160
4508955	009/029	4577975	007/064	4617630	007/111	4685775	017/201	4759485	014/015	4868055	010/208	4940820	010/161
4508990	009/030	4578220	007/065	4617665	007/112	4685810	017/202	4759520	014/016	4868090	010/209	4986243	009/083
4509025	009/031	4578290	007/066	4617700	007/113	4686020	017/203	4759555	014/017	4902810	010/177	4986243	009/108
4509060	009/032	4578360	007/067	4617735	007/114	4686090	017/204	4790390	009/068	4902810	010/210	4986278	009/084
4541120	009/033	4578640	007/068	4617770	007/115	4686160	017/205	4790425	009/069	4902845	010/178	4986313	009/085
4541120	009/065	4578710	007/069	4648780	017/157	4686230	017/206	4790460	009/070	4902845	010/211	4986348	009/086
4541190	009/034	4579830	007/070	4648850	017/158	4687630	017/207	4790495	009/071	4902880	010/179	4986383	009/087
4541190	009/066	4579865	007/071	4648920	017/159	4687665	017/208	4790495	009/072	4902915	010/180	4986418	009/088
4541190	009/067	4579900	007/072	4648990	017/160	4687700	017/209	4828400	009/082	4902950	010/181	4986453	009/089
4541260	009/035	4579935	007/073	4649305	017/161	4687735	017/210	4828400	010/164	4902985	010/182	4986488	009/090

MARINER 9 ARCHIVE TAPE CATALOG

DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID
4986523	009/091	5022853	009/132	5094043	010/027	5130548	007/135	5168663	007/185	5238803	013/018	5310868	013/200
4986558	009/092	5022888	009/133	5094078	010/028	5130583	007/136	5200688	012/201	5238838	013/019	5311078	013/201
4986593	009/093	5022923	009/134	5094113	010/029	5130618	007/137	5200688	013/003	5238873	013/020	5311113	013/202
4986628	009/094	5022958	009/135	5094148	010/030	5130653	007/138	5200758	012/202	5238908	013/021	5311148	013/203
4986663	009/095	5022993	009/136	5094183	010/031	5130688	007/139	5200758	013/004	5239118	013/022	5311183	013/204
4986698	009/096	5023028	009/137	5094218	010/032	5130723	007/140	5200828	012/203	5239153	013/023	5311218	013/205
4986733	009/097	5023063	009/138	5094253	010/033	5130758	007/141	5200898	012/204	5239188	013/024	5311253	013/206
4986768	009/098	5023098	009/139	5094288	010/034	5130793	007/142	5200968	012/205	5239223	013/025	5311288	013/207
4986803	009/099	5023133	009/140	5094323	010/035	5130828	007/143	5201773	012/206	5239258	013/026	5311323	013/208
4986838	009/100	5023168	009/141	5094358	010/036	5130863	007/144	5202018	012/207	5239293	013/027	5311358	013/209
4986873	009/101	5023203	009/142	5094393	010/037	5130898	007/145	5202088	012/208	5239328	013/028	5311393	013/210
4986908	009/102	5058063	009/214	5094428	010/038	5130933	007/146	5202123	012/209	5239363	013/029	5311428	013/211
4986943	009/103	5058063	010/023	5094463	010/039	5130968	007/147	5202158	012/210	5239398	013/030	5312408	013/212
4986978	009/104	5058098	009/215	5094498	010/040	5131003	007/148	5202718	012/211	5239433	013/031	5312443	013/213
4987013	009/105	5058098	010/024	5094533	010/041	5131038	007/149	5202753	012/212	5239468	013/032	5344608	007/188
4987048	009/106	5058133	009/216	5094568	010/042	5131073	007/150	5202788	012/213	5240448	013/033	5344608	007/220
4987083	009/107	5058168	009/217	5094603	010/043	5164708	007/153	5202823	012/214	5240483	013/034	5344678	007/189
4987118	009/223	5058203	009/218	5094638	010/044	5164708	007/186	5202858	012/215	5240518	013/035	5344678	007/221
4987153	009/224	5058238	009/219	5094673	010/045	5164778	007/154	5202893	012/216	5240588	013/036	5344748	007/190
4987188	009/225	5058273	009/220	5094708	010/046	5164778	007/187	5202928	012/217	5272648	013/175	5344818	007/191
4987223	009/226	5058308	009/221	5094743	010/047	5164848	007/155	5203138	012/218	5272718	013/176	5344888	007/192
4987258	009/227	5058343	009/222	5094778	010/048	5164918	007/156	5203173	012/219	5272788	013/177	5345693	007/193
4987293	009/228	5058378	010/228	5094813	010/049	5164988	007/157	5203208	012/220	5272858	013/178	5345938	007/194
4987328	009/229	5058413	010/229	5094848	010/050	5166038	007/158	5203243	012/221	5272928	013/179	5346008	007/195
4987363	009/230	5058448	010/001	5094883	010/051	5166073	007/159	5203278	012/222	5273733	013/180	5346043	007/196
5022083	009/109	5058483	010/002	5094918	010/052	5166108	007/160	5203313	012/223	5273978	013/181	5346078	007/197
5022083	009/143	5058518	010/003	5094953	010/053	5166143	007/161	5203348	012/224	5274048	013/182	5346638	007/198
5022118	009/110	5058553	010/004	5094988	010/054	5166178	007/162	5203383	012/225	5274083	013/183	5346673	007/199
5022118	009/144	5058588	010/005	5095023	010/055	5166738	007/163	5203418	012/226	5274678	034/137	5346708	007/200
5022153	009/111	5058623	010/006	5095058	010/056	5166773	007/164	5203453	012/227	5274713	034/138	5346743	007/201
5022188	009/112	5058658	010/007	5095093	010/057	5166808	007/165	5203488	012/228	5274748	034/139	5346778	007/202
5022223	009/113	5058693	010/008	5129953	007/118	5166843	007/166	5204118	012/229	5274783	034/140	5346813	007/203
5022258	009/114	5058728	010/009	5129953	007/151	5166878	007/167	5204153	012/230	5274818	034/141	5346848	007/204
5022293	009/115	5058763	010/010	5129988	007/119	5166913	007/168	5204608	013/001	5274853	034/142	5347058	007/205
5022328	009/116	5058798	010/011	5129988	007/152	5166948	007/169	5204643	013/002	5274888	013/184	5347093	007/206
5022328	009/117	5058833	010/012	5130023	007/120	5167158	007/170	5236668	013/005	5275098	013/185	5347128	007/207
5022363	009/118	5058868	010/013	5130058	007/121	5167193	007/171	5236668	013/037	5275133	013/186	5347163	007/208
5022398	009/119	5058903	010/014	5130093	007/122	5167228	007/172	5236738	013/006	5275168	013/187	5347198	007/209
5022433	009/120	5058938	010/015	5130128	007/123	5167263	007/173	5236738	013/038	5275203	013/188	5347233	007/210
5022468	009/121	5058973	010/016	5130163	007/124	5167298	007/174	5236808	013/007	5275238	013/189	5347268	007/211
5022503	009/122	5059008	010/017	5130198	007/125	5167333	007/175	5236878	013/008	5275273	013/190	5347303	007/212
5022538	009/123	5059043	010/018	5130233	007/126	5167368	007/176	5236948	013/009	5275308	013/191	5347338	007/213
5022573	009/124	5059078	010/019	5130268	007/127	5167403	007/177	5237998	013/010	5275343	013/192	5347373	007/214
5022608	009/125	5059113	010/020	5130303	007/128	5167438	007/178	5238033	013/011	5275378	013/193	5347408	007/215
5022643	009/126	5059148	010/021	5130338	007/129	5167473	007/179	5238068	013/012	5275413	013/194	5348038	007/216
5022678	009/127	5059183	010/022	5130373	007/130	5167508	007/180	5238103	013/013	5275448	013/195	5348073	007/217
5022713	009/128	5093973	010/025	5130408	007/131	5168488	007/181	5238138	013/014	5276078	013/196	5348528	007/218
5022748	009/129	5093973	010/058	5130443	007/132	5168523	007/182	5238698	013/015	5276113	013/197	5348563	007/219
5022783	009/130	5094008	010/026	5130478	007/133	5168558	007/183	5238733	013/016	5276568	013/198	5380518	007/222
5022818	009/131	5094008	010/059	5130513	007/134	5168628	007/184	5238768	013/017	5276603	013/199	5380518	008/025

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DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID
5380588	007/223	5418703	011/126	5456398	011/181	5526573	008/073	5563218	014/117	5633918	005/179	5671123	005/229
5380588	008/026	5418738	034/136	5456433	011/182	5526608	008/074	5563253	014/118	5633953	005/180	5671158	005/230
5380658	007/224	5418948	011/133	5488458	008/027	5526643	008/075	5563288	014/119	5633988	005/181	5671193	006/001
5380728	007/225	5418983	011/134	5488458	008/060	5526678	008/076	5563918	014/120	5634548	005/182	5671228	006/002
5380798	007/226	5419018	011/135	5488528	008/028	5526713	008/077	5563953	014/121	5634583	005/183	5671263	006/003
5381848	007/227	5419053	011/136	5488528	008/061	5526748	008/078	5564408	014/122	5634618	005/184	5671298	006/004
5381883	007/228	5419088	011/137	5488598	008/029	5526958	008/079	5596468	014/125	5634653	005/185	5672278	006/005
5381918	007/229	5419123	011/138	5488598	008/030	5526993	008/080	5596468	014/158	5634688	005/186	5672313	006/006
5381953	007/230	5419158	011/139	5488668	008/031	5527028	008/081	5596538	014/126	5634723	005/187	5672348	006/007
5381988	008/001	5419193	011/140	5488738	008/032	5527063	008/082	5596538	014/159	5634758	005/188	5672418	006/008
5382548	008/002	5419228	011/141	5489543	008/033	5527098	008/083	5596608	014/127	5634968	005/189	5672453	006/009
5382583	008/003	5419263	011/142	5489788	008/034	5527133	008/084	5596678	014/128	5635003	005/190	5704478	018/129
5382618	008/004	5419298	011/143	5489858	008/035	5527168	008/085	5596748	014/129	5635038	005/191	5704478	018/162
5382653	008/005	5419928	011/144	5489893	008/036	5527203	008/086	5597798	014/130	5635073	005/192	5704548	018/130
5382688	008/006	5419963	011/145	5489928	008/037	5527238	008/087	5597833	014/131	5635108	005/193	5704548	018/163
5382723	008/007	5420418	011/146	5490488	008/038	5527273	008/088	5597868	014/132	5635143	005/194	5704618	018/131
5382758	008/008	5420453	011/147	5490523	008/039	5527308	008/089	5597903	014/133	5635178	005/195	5704688	018/132
5382968	008/009	5452478	011/150	5490558	008/040	5528288	008/090	5597938	014/134	5635213	005/196	5704758	018/133
5383003	008/010	5452478	011/183	5490593	008/041	5528323	008/091	5598498	014/135	5635248	005/197	5705563	018/134
5383038	008/011	5452548	011/151	5490628	008/042	5528358	008/092	5598533	014/136	5635283	005/198	5705808	018/135
5383073	008/012	5452548	011/184	5490663	008/043	5528428	008/093	5598568	014/137	5635318	005/199	5705878	018/136
5383108	008/013	5452618	011/152	5490698	008/044	5528463	008/094	5598603	014/138	5635948	005/200	5705913	018/137
5383143	008/014	5452688	011/153	5490908	008/045	5553383	014/091	5598638	014/139	5635983	005/201	5705948	018/138
5383178	008/015	5452758	011/154	5490943	008/046	5553383	014/123	5598673	014/140	5636438	005/202	5706473	018/139
5383213	008/016	5453808	011/155	5490978	008/047	5560488	014/092	5598708	014/141	5636473	005/203	5706508	018/140
5383248	008/017	5453843	011/156	5491013	008/048	5560488	014/124	5598918	014/142	5668498	005/206	5706543	018/141
5383283	008/018	5453878	011/157	5491048	008/049	5560558	014/093	5598953	014/143	5668498	006/010	5706578	018/142
5383318	008/019	5453913	011/158	5491083	008/050	5560628	014/094	5598988	014/144	5668568	005/207	5706613	018/143
5384298	008/020	5453948	011/159	5491118	008/051	5560698	014/095	5599023	014/145	5668568	006/011	5706648	018/144
5384333	008/021	5454508	011/160	5491153	008/052	5560768	014/096	5599058	014/146	5668638	005/208	5706683	018/145
5384368	008/022	5454543	011/161	5491188	008/053	5561573	014/097	5599093	014/147	5668708	005/209	5706718	018/146
5384438	008/023	5454578	011/162	5491223	008/054	5561818	014/098	5599128	014/148	5668778	005/210	5706928	018/147
5384473	008/024	5454613	011/163	5491258	008/055	5561888	014/099	5599163	014/149	5668778	005/211	5706963	018/148
5416498	011/111	5454648	011/164	5491888	008/056	5561923	014/100	5599198	014/150	5669828	005/212	5706998	018/149
5416498	011/148	5454683	011/165	5491923	008/057	5561958	014/101	5599233	014/151	5669863	005/213	5707033	018/150
5416568	011/112	5454718	011/166	5492378	008/058	5562518	014/102	5599268	014/152	5669898	005/214	5707068	018/151
5416568	011/149	5454928	011/167	5492413	008/059	5562553	014/103	5600248	014/153	5669933	005/215	5707103	018/152
5416638	011/113	5454963	011/168	5524508	008/062	5562588	014/104	5600283	014/154	5669968	005/216	5707138	018/153
5416708	011/114	5454998	011/169	5524508	008/095	5562623	014/105	5600318	014/155	5670528	005/217	5707173	018/154
5416778	011/115	5455033	011/170	5524578	008/063	5562658	014/106	5600388	014/156	5670563	005/218	5707208	018/155
5417583	011/116	5455068	011/171	5524578	008/096	5562693	014/107	5600423	014/157	5670598	005/219	5707243	018/156
5417828	011/117	5455103	011/172	5524648	008/064	5562728	014/108	5632518	005/172	5670633	005/220	5707278	018/157
5417898	011/118	5455138	011/173	5524718	008/065	5562938	014/109	5632518	005/204	5670668	005/221	5707908	018/158
5417933	011/119	5455173	011/174	5524788	008/066	5562973	014/110	5632588	005/173	5670703	005/222	5707943	018/159
5417968	011/120	5455208	011/175	5525838	008/067	5563008	014/111	5632588	005/205	5670738	005/223	5708398	018/160
5418528	011/121	5455243	011/176	5525873	008/068	5563043	014/112	5632658	005/174	5670948	005/224	5708433	018/161
5418563	011/122	5455278	011/177	5525908	008/069	5563078	014/113	5632728	005/175	5670983	005/225	5740528	018/164
5418598	011/123	5456258	011/178	5525943	008/070	5563113	014/114	5632798	005/176	5671018	005/226	5740528	018/196
5418633	011/124	5456293	011/179	5525978	008/071	5563148	014/115	5633603	005/177	5671053	005/227	5740598	018/165
5418668	011/125	5456328	011/180	5526538	008/072	5563183	014/116	5633848	005/178	5671088	005/228	5740598	018/197

DAS TIME	MAE ID	DAS TIME	MAE ID	DAS TIME	MAE ID	DAS TIME	MAE ID	DAS TIME	MAE ID	DAS TIME	MAE ID	DAS TIME	MAE ID
5740668	018/166	5779098	029/165	5848678	031/008	5887143	031/058	5956478	014/227	5994663	015/014	6032358	015/064
5740738	018/167	5779133	029/166	5848748	031/009	5887178	031/059	5956548	014/195	5994698	015/015	6032393	015/065
5740808	018/168	5779168	029/167	5848818	031/010	5887213	031/060	5956548	014/228	5995048	015/016	6064418	010/060
5741858	018/169	5779203	029/168	5849623	031/011	5887248	031/061	5956618	014/196	5995083	015/017	6064418	010/092
5741893	018/170	5779238	029/169	5849868	031/012	5887283	031/062	5956688	014/197	5995118	015/018	6064488	010/061
5741928	018/171	5779273	029/170	5849938	031/013	5887318	031/063	5956758	014/198	5995153	015/019	6064488	010/093
5741963	018/172	5779308	029/171	5849973	031/014	5887353	031/064	5957808	014/199	5995188	015/020	6064558	010/062
5741998	018/173	5779343	029/172	5850008	031/015	5887388	031/065	5957843	014/200	5995223	015/021	6064628	010/063
5742568	018/174	5779378	029/173	5850568	031/016	5887423	031/066	5957878	014/201	5995258	015/022	6064698	010/064
5742593	018/175	5779413	029/174	5850603	031/017	5887458	031/067	5957913	014/202	5995293	015/023	6065503	010/065
5742628	018/176	5779448	029/175	5850638	031/018	5888298	031/068	5957948	014/203	5995328	015/024	6065748	010/066
5742663	018/177	5779938	029/176	5850673	031/019	5888333	031/069	5958508	014/204	5995363	015/025	6065818	010/067
5742698	018/178	5779973	029/177	5850708	031/020	5888368	031/157	5958543	014/205	5995398	015/026	6065853	010/068
5742733	018/179	5780428	029/178	5850743	031/021	5888438	031/158	5958578	014/206	5995888	015/027	6065888	010/069
5742768	018/180	5812488	034/174	5850778	031/022	5888473	031/159	5958613	014/207	5995923	015/028	6066448	010/070
5743118	018/181	5812558	029/181	5851128	031/023	5918713	014/160	5958648	014/208	5996378	015/029	6066483	010/071
5743153	018/182	5812628	029/182	5851163	031/024	5918713	014/192	5958683	014/209	5996413	015/030	6066518	010/072
5743188	018/183	5812698	029/183	5851198	031/025	5920498	014/161	5958718	014/210	6028438	015/033	6066553	010/073
5743223	018/184	5812768	029/184	5851233	031/026	5920498	014/193	5959068	014/211	6028438	015/066	6066588	010/074
5743258	018/185	5813818	029/185	5851268	031/027	5920568	014/162	5959103	014/212	6028508	015/034	6066623	010/075
5743293	018/186	5813853	029/186	5851303	031/028	5920638	014/163	5959138	014/213	6028508	015/067	6066658	010/076
5743328	018/187	5813888	029/187	5851338	031/029	5920708	014/164	5959173	014/214	6028578	015/035	6067008	010/077
5743363	018/188	5813923	029/188	5851373	031/030	5920778	014/165	5959208	014/215	6028648	015/036	6067043	010/078
5743398	018/189	5813958	029/189	5851408	031/031	5921583	014/166	5959243	014/216	6028718	015/037	6067078	010/079
5743433	018/190	5814518	029/190	5851443	031/032	5921828	014/167	5959278	014/217	6029768	015/038	6067113	010/080
5743468	018/191	5814553	029/191	5851478	031/033	5921898	014/168	5959313	014/218	6029803	015/039	6067148	010/081
5744308	018/192	5814588	029/192	5851968	031/034	5921933	014/169	5959348	014/219	6029838	015/040	6067183	010/082
5744343	018/193	5814623	029/193	5852003	031/035	5921968	014/170	5959383	014/220	6029873	015/041	6067218	010/083
5744378	018/194	5814658	029/194	5852458	031/036	5922528	014/171	5959418	014/221	6029908	015/042	6067253	010/084
5744448	018/195	5814693	029/195	5852493	031/037	5922563	014/172	5960258	014/222	6030468	015/043	6067288	010/085
5773393	029/147	5814728	029/196	5884518	031/040	5922598	014/173	5960293	014/223	6030503	015/044	6067323	010/086
5773393	029/179	5815078	029/197	5884518	031/160	5922633	014/174	5960328	014/224	6030538	015/045	6067358	010/087
5776508	029/148	5815113	029/198	5884588	031/041	5922668	014/175	5960398	014/225	6030573	015/046	6067848	010/088
5776508	029/180	5815148	029/199	5884588	031/161	5922703	014/176	5960433	014/226	6030608	015/047	6067883	010/089
5776578	029/149	5815183	029/200	5884658	031/042	5922738	014/177	5992458	014/229	6030643	015/048	6068338	010/090
5776648	029/150	5815218	029/201	5884728	031/043	5923088	014/178	5992458	015/031	6030678	015/049	6068373	010/091
5776718	029/151	5815253	029/202	5884798	031/044	5923123	014/179	5992528	015/001	6031028	015/050	6100328	010/094
5776788	029/152	5815288	029/203	5885848	031/045	5923158	014/180	5992528	015/032	6031063	015/051	6100328	010/127
5777593	029/153	5815323	029/204	5885883	031/046	5923193	014/181	5992598	015/002	6031098	015/052	6100398	010/095
5777838	029/154	5815358	029/205	5885918	031/047	5923228	014/182	5992668	015/003	6031133	015/053	6100398	010/128
5777908	029/155	5815393	029/206	5885953	031/048	5923263	014/183	5992738	015/004	6031168	015/054	6100468	010/096
5777943	029/156	5815428	029/207	5885988	031/049	5923298	014/184	5993543	015/005	6031203	015/055	6100538	010/097
5777978	029/157	5816268	029/208	5886548	031/050	5923333	014/185	5993788	015/006	6031238	015/056	6100608	010/098
5778538	029/158	5816303	029/209	5886583	031/051	5923368	014/186	5993858	015/007	6031273	015/057	6101658	010/099
5778573	029/159	5816338	029/210	5886618	031/052	5923403	014/187	5993928	015/008	6031308	015/058	6101693	010/100
5778608	029/160	5816408	029/211	5886653	031/053	5923438	014/188	5994488	015/009	6031343	015/059	6101728	010/101
5778643	029/161	5848538	031/006	5886688	031/054	5923928	014/189	5994523	015/010	6031378	015/060	6101763	010/102
5778678	029/162	5848538	031/038	5886723	031/055	5923963	014/190	5994558	015/011	6032218	015/061	6101798	010/103
5778713	029/163	5848608	031/007	5886758	031/056	5924418	014/191	5994593	015/012	6032253	015/062	6102358	010/104
5778748	029/164	5848608	031/039	5887108	031/057	5956478	014/194	5994628	015/013	6032288	015/063	6102393	010/105

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6102463	010/107	6139738	013/067	6209633	019/168	6247013	019/218	6317433	015/107	6354638	022/033	6423868	021/077
6102498	010/108	6139773	013/068	6209668	019/169	6247048	019/219	6317503	015/108	6354673	022/034	6423938	021/046
6102533	010/109	6140228	013/069	6210228	019/170	6247083	019/220	6317538	015/109	6354708	022/035	6424008	021/047
6102568	010/110	6140263	013/070	6210263	019/171	6247118	019/221	6317573	015/110	6354743	022/036	6424078	021/048
6102918	010/111	6172288	013/073	6210298	019/172	6247923	019/222	6317608	015/111	6354778	022/037	6424148	021/049
6102953	010/112	6172288	013/107	6210333	019/173	6247958	019/223	6318098	015/112	6354778	034/143	6424953	021/050
6102988	010/113	6172358	013/074	6210368	019/174	6247993	019/224	6318133	015/113	6354813	022/038	6425233	021/051
6103023	010/114	6172358	013/108	6210403	019/175	6248028	019/071	6318168	015/114	6354813	034/144	6425268	021/052
6103058	010/115	6172428	013/075	6210438	019/176	6248063	019/072	6318203	015/115	6354848	022/039	6425303	021/053
6103093	010/116	6172498	013/076	6210788	019/177	6278443	015/068	6318238	015/116	6354883	022/040	6425338	021/054
6103128	010/117	6172568	013/077	6210823	019/178	6278443	015/100	6318273	015/117	6354918	022/041	6425898	021/055
6103163	010/118	6173618	013/078	6210858	019/179	6280088	015/069	6318308	015/118	6355408	022/042	6425933	021/056
6103198	010/119	6173653	013/079	6210893	019/180	6280088	015/101	6318658	015/119	6355443	022/043	6425968	021/057
6103233	010/120	6173688	013/080	6210928	019/181	6280158	015/070	6318693	015/120	6355898	022/044	6426003	021/058
6103268	010/121	6173723	013/081	6210963	019/182	6280228	015/071	6318728	015/121	6387958	022/047	6426038	021/059
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6104143	010/123	6174283	013/083	6211033	019/184	6280368	015/073	6318798	015/123	6388028	022/048	6426108	021/061
6104178	010/124	6174318	013/084	6211068	019/185	6281173	015/074	6318833	015/124	6388028	022/081	6426458	021/062
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6136308	013/039	6174423	013/087	6211628	019/188	6281523	015/077	6318938	015/127	6388238	022/051	6426563	021/065
6136308	013/071	6174458	013/088	6211663	019/189	6281558	015/078	6318973	015/128	6389323	022/052	6426598	021/066
6136378	013/040	6174493	013/089	6212118	019/190	6282118	015/079	6319008	015/129	6389393	022/053	6426633	021/067
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6137743	013/047	6175088	013/097	6244458	019/198	6282713	015/087	6351978	022/014	6390128	022/061	6427788	021/075
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6138338	013/049	6175158	013/099	6245613	019/200	6282783	015/089	6352048	022/015	6390198	022/063	6459848	021/078
6138373	013/050	6175193	013/100	6245648	019/201	6282818	015/090	6352118	022/016	6390548	022/064	6459848	021/111
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6138478	013/053	6176103	013/103	6246208	019/204	6282923	015/093	6353063	022/019	6390653	022/067	6459988	021/080
6138513	013/054	6176138	013/104	6246243	019/205	6282958	015/094	6353343	022/020	6390688	022/068	6460058	021/081
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6138898	013/056	6176243	013/106	6246313	019/207	6283028	015/096	6353413	022/022	6390758	022/070	6461213	021/083
6138933	013/057	6208198	019/160	6246348	019/208	6283518	015/097	6353448	022/023	6390793	022/071	6461283	021/084
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6139038	013/060	6208268	019/193	6246768	019/211	6316068	015/102	6354078	022/026	6390898	022/074	6461388	021/087
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6139108	013/062	6208408	019/163	6246838	019/213	6316138	015/103	6354148	022/028	6391738	022/076	6461913	021/089
6139143	013/063	6208478	019/164	6246873	019/214	6316138	015/136	6354183	022/029	6391773	022/077	6461948	021/090
6139178	013/064	6209283	019/165	6246908	019/215	6316208	015/104	6354218	022/030	6391808	022/078	6461983	021/091
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6462438	021/095	6531738	015/203	6571043	031/177	6640133	031/228	6679193	032/047	6750698	011/218	6787728	025/005
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6462508	021/097	6531808	015/204	6571358	031/179	6640168	031/229	6679263	032/049	6750768	011/220	6787798	025/007
6462543	021/098	6531878	015/172	6571393	031/180	6640693	031/230	6679298	032/050	6750803	011/221	6787938	025/008
6462578	021/099	6531948	015/173	6571428	031/181	6640938	032/001	6679333	032/051	6750838	011/222	6820733	025/009
6462613	021/100	6532018	015/174	6571463	031/182	6641008	032/002	6679368	032/052	6750873	011/223	6820733	025/042
6462648	021/101	6533103	015/175	6571498	031/183	6641043	032/003	6679403	032/053	6751153	011/224	6820768	025/010
6462683	021/102	6533173	015/176	6571533	031/184	6641603	032/004	6679438	032/054	6751188	011/225	6820768	025/043
6462718	021/103	6533208	015/177	6571568	031/185	6641883	032/005	6679473	032/055	6751223	011/226	6820803	025/011
6462753	021/104	6533243	015/178	6571603	031/186	6642688	032/006	6679508	032/056	6751258	011/227	6820873	025/012
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6463628	021/107	6533803	015/181	6571918	031/189	6642793	032/009	6679823	032/059	6751363	011/230	6822518	025/015
6463663	021/108	6533838	015/182	6571953	031/190	6642828	032/010	6679858	032/060	6751398	012/001	6822553	025/016
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6463733	021/110	6533908	015/184	6572128	031/192	6642898	032/012	6680033	032/062	6751468	012/003	6822623	025/018
6495758	015/137	6533943	015/185	6572163	031/193	6642933	032/013	6714613	011/192	6751678	012/004	6822658	025/019
6495758	015/169	6533978	015/186	6604713	031/226	6642968	032/014	6714648	011/193	6751748	012/005	6822693	025/020
6495828	015/138	6534328	015/187	6604958	031/195	6643003	032/015	6714683	011/194	6751783	012/006	6822728	025/021
6495898	015/139	6534363	015/188	6604958	031/227	6643283	032/016	6714718	011/195	6751818	012/007	6822763	025/022
6495968	015/140	6534398	015/189	6605028	031/196	6643318	032/017	6714753	011/196	6751958	012/008	6822798	025/023
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6497193	015/145	6534573	015/194	6606743	031/201	6643493	032/022	6715173	011/201	6784823	024/209	6823218	025/028
6497228	015/146	6534608	015/195	6606778	031/202	6643528	032/023	6715208	011/202	6784893	024/210	6823253	025/029
6497788	015/147	6534643	015/196	6606813	031/203	6643563	032/024	6715243	011/203	6785453	024/211	6823288	025/030
6497823	015/148	6534678	015/197	6606848	031/204	6643598	032/025	6715278	011/204	6785733	024/212	6823323	025/031
6497858	015/149	6535483	015/198	6606883	031/205	6643808	032/026	6715313	011/205	6786538	024/213	6823358	025/032
6497893	015/150	6535518	015/199	6606918	031/206	6643878	032/027	6715348	011/206	6786573	024/214	6823393	025/033
6497928	015/151	6535553	015/200	6606953	031/207	6643913	032/028	6715453	011/185	6786608	024/215	6823428	025/034
6497963	015/152	6535588	015/201	6606988	031/208	6643948	032/029	6715488	011/186	6786643	024/216	6823638	025/035
6497998	015/153	6535623	015/202	6607023	031/209	6676813	032/031	6715698	011/187	6786678	024/217	6823708	025/036
6498348	015/154	6568733	031/162	6607303	031/210	6676813	032/063	6715768	011/188	6786713	024/218	6823743	025/037
6498383	015/155	6568733	031/194	6607338	031/211	6676848	032/032	6715803	011/189	6786748	024/219	6823778	025/038
6498418	015/156	6568978	031/163	6607373	031/212	6676883	032/033	6715838	011/190	6786783	024/220	6823918	025/039
6498453	015/157	6569048	031/164	6607408	031/213	6676953	032/034	6715978	011/191	6786818	024/221	6823953	025/040
6498488	015/158	6569083	031/165	6607443	031/214	6677513	032/035	6716048	011/207	6786853	024/222	6823988	025/041
6498523	015/159	6569643	031/166	6607478	031/215	6677793	032/036	6748773	011/208	6787133	024/223	6856503	015/205
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6498593	015/161	6570728	031/168	6607548	031/217	6678633	032/038	6748808	011/209	6787203	024/225	6856783	015/207
6498628	015/162	6570763	031/169	6607583	031/218	6678668	032/039	6748843	011/210	6787238	024/226	6856853	015/208
6498663	015/163	6570798	031/170	6607618	031/219	6678703	032/040	6748913	011/211	6787273	024/227	6857413	015/209
6498698	015/164	6570833	031/171	6607828	031/220	6678738	032/041	6749473	011/212	6787308	024/228	6857693	015/210
6499188	015/165	6570868	031/172	6607898	031/221	6678773	032/042	6749753	011/213	6787343	024/229	6858498	015/211
6499223	015/166	6570903	031/173	6607933	031/222	6678808	032/043	6750558	011/214	6787378	025/001	6858533	015/212
6499678	015/167	6570938	031/174	6607968	031/223	6678843	032/044	6750593	011/215	6787413	025/002	6858568	015/213

DAS TIME	MAE ID	DAS TIME	MAE ID	DAS TIME	MAE ID	DAS TIME	MAE ID	DAS TIME	MAE ID	DAS TIME	MAE ID	DAS TIME	MAE ID
6858603	015/214	6895388	016/033	6966578	027/010	7003398	013/134	7074623	027/040	7111408	027/088	7182598	027/138
6858638	015/215	6895598	016/034	6966613	027/011	7003608	013/135	7074658	027/041	7111618	027/089	7182633	027/139
6858673	015/216	6895668	016/035	6966648	027/012	7003678	013/136	7074693	027/042	7111688	027/090	7182668	027/140
6858708	015/217	6895703	016/036	6966683	027/013	7003713	013/137	7074728	027/043	7111723	027/091	7182703	027/141
6858743	015/218	6895738	016/037	6966718	027/014	7003748	013/138	7074763	027/044	7111758	027/092	7182738	027/142
6858778	015/219	6895878	016/038	6966753	027/015	7003888	013/139	7074798	027/045	7111898	027/093	7182773	027/143
6858813	015/220	6895913	016/039	6966788	027/016	7003923	013/140	7074833	027/046	7111933	027/094	7182808	027/144
6859093	015/221	6895948	016/040	6966823	027/017	7036683	013/141	7075113	027/047	7111968	027/095	7182843	027/145
6859128	015/222	6918173	026/200	6967103	027/018	7036683	013/173	7075148	027/048	7144553	027/098	7183123	027/146
6859163	015/223	6928533	026/201	6967138	027/019	7036718	013/142	7075183	027/049	7144798	027/099	7183158	027/147
6859198	015/224	6928778	026/202	6967173	027/020	7036718	013/174	7075218	027/050	7144833	027/100	7183193	027/148
6859233	015/225	6928813	026/203	6967208	027/021	7036753	013/143	7075253	027/051	7144903	027/101	7183228	027/149
6859268	015/226	6928883	026/204	6967243	027/022	7036823	013/144	7075288	027/052	7145463	027/102	7183263	027/150
6859303	015/227	6929443	026/205	6967278	027/023	7037383	013/145	7075323	027/053	7145743	027/103	7183298	027/151
6859338	015/228	6929723	026/206	6967313	027/024	7037663	013/146	7075358	027/054	7146548	027/104	7183333	027/152
6859373	015/229	6930528	026/207	6967348	027/025	7038468	013/147	7075393	027/055	7146583	027/105	7183368	027/153
6859408	016/001	6930563	026/208	6967383	027/026	7038503	013/148	7075428	027/056	7146618	027/106	7183403	027/154
6859618	016/002	6930598	026/209	6967418	027/027	7038538	013/149	7075638	027/057	7146653	027/107	7183438	027/155
6859688	016/003	6930633	026/210	6967628	027/028	7038573	013/150	7075708	027/058	7146688	027/108	7183648	027/156
6859723	016/004	6930668	026/211	6967698	027/029	7038608	013/151	7075743	027/059	7146723	027/109	7183718	027/157
6859758	016/005	6930703	026/212	6967733	027/030	7038643	013/152	7075778	027/060	7146758	027/110	7183753	027/158
6859898	016/006	6930738	026/213	6967768	027/165	7038678	013/153	7075918	027/061	7146793	027/111	7183788	027/159
6859933	016/007	6930773	026/214	6968678	027/166	7038713	013/154	7075953	027/062	7146828	027/112	7183928	027/160
6892693	016/008	6930808	026/215	6968713	027/167	7038748	013/155	7108713	027/063	7146863	027/113	7183963	027/161
6892693	016/041	6930843	026/216	6968748	027/168	7038783	013/156	7108713	027/096	7147143	027/114	7183998	027/162
6892728	016/009	6931123	026/217	7000493	013/109	7039063	013/157	7108748	027/064	7147178	027/115	7216513	028/010
6892728	016/042	6931158	026/218	7000738	013/110	7039098	013/158	7108748	027/097	7147213	027/116	7216758	028/011
6892763	016/010	6931193	026/219	7000773	013/111	7039133	013/159	7108783	027/065	7147248	027/117	7216793	028/012
6892833	016/011	6931228	026/220	7000843	013/112	7039168	013/160	7108853	027/066	7147283	027/118	7216863	028/013
6893393	016/012	6931263	026/221	7001403	013/113	7039203	013/161	7109413	027/067	7147318	027/119	7217423	028/014
6893673	016/013	6931298	026/222	7001683	013/114	7039238	013/162	7109693	027/068	7147353	027/120	7217703	028/015
6894478	016/014	6931333	026/223	7002488	013/115	7039273	013/163	7110498	027/069	7147388	027/121	7218508	028/016
6894513	016/015	6931368	026/224	7002523	013/116	7039308	013/164	7110533	027/070	7147423	027/122	7218543	028/017
6894548	016/016	6931403	026/225	7002558	013/117	7039343	013/165	7110568	027/071	7147458	027/123	7218578	028/018
6894583	016/017	6931438	026/226	7002593	013/118	7039378	013/166	7110603	027/072	7147668	027/124	7218613	028/019
6894618	016/018	6931648	026/227	7002628	013/119	7039588	013/167	7110638	027/073	7147738	027/125	7218648	028/020
6894653	016/019	6931718	026/228	7002663	013/120	7039658	013/168	7110673	027/074	7147773	027/126	7218683	028/021
6894688	016/020	6931753	026/229	7002698	013/121	7039693	013/169	7110708	027/075	7147808	027/127	7218718	028/022
6894723	016/021	6931788	026/230	7002733	013/122	7039728	013/170	7110743	027/076	7147948	027/128	7218753	028/023
6894758	016/022	6931928	027/001	7002768	013/123	7039868	013/171	7110778	027/077	7147983	027/129	7218788	028/024
6894793	016/023	6964723	027/002	7002803	013/124	7039903	013/172	7110813	027/078	7180743	027/130	7218823	028/025
6895073	016/024	6964723	027/169	7003083	013/125	7072523	027/031	7111093	027/079	7180743	027/163	7219103	028/026
6895108	016/025	6964758	027/003	7003118	013/126	7072768	027/032	7111128	027/080	7180778	027/131	7219138	028/027
6895143	016/026	6964758	027/170	7003153	013/127	7072803	027/033	7111163	027/081	7180778	027/164	7219173	028/028
6895178	016/027	6964793	027/004	7003188	013/128	7072873	027/034	7111198	027/082	7180813	027/132	7219208	028/029
6895213	016/028	6964863	027/005	7003223	013/129	7073433	027/035	7111233	027/083	7180883	027/133	7219243	028/030
6895248	016/029	6965423	027/006	7003258	013/130	7073713	027/036	7111268	027/084	7181443	027/134	7219278	028/031
6895283	016/030	6965703	027/007	7003293	013/131	7074518	027/037	7111303	027/085	7181723	027/135	7219313	028/032
6895318	016/031	6966508	027/008	7003328	013/132	7074553	027/038	7111338	027/086	7182528	027/136	7219348	028/033
6895353	016/032	6966543	027/009	7003363	013/133	7074588	027/039	7111373	027/087	7182563	027/137	7219383	028/034

MARINER 9 ARCHIVE TAPE CATALOG

DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID	DAS TIME	MME ID
7219418	028/035	7289733	019/081	7327323	019/226	7396728	016/113	7435088	016/131	7504353	019/033	7542643	019/140
7219628	028/036	7290538	019/082	7327358	019/227	7396763	016/081	7435123	016/132	7504353	019/065	7542923	019/141
7219698	028/037	7290573	019/083	7327393	019/228	7396833	016/082	7435158	016/133	7504598	019/034	7542958	019/142
7219733	028/038	7290608	019/084	7327428	019/229	7397393	016/083	7435193	016/134	7504633	019/035	7542993	019/143
7219768	028/039	7290643	019/085	7327638	019/230	7397673	016/084	7435228	016/135	7504703	019/036	7543028	019/144
7219908	028/040	7290678	019/086	7327708	020/001	7398478	016/085	7435263	016/136	7505263	019/037	7543063	019/145
7219943	028/041	7290713	019/087	7327743	020/002	7398513	016/086	7435298	016/137	7505543	019/038	7543098	019/146
7252773	028/042	7290748	019/088	7327778	020/003	7398548	016/087	7435333	016/138	7506348	019/039	7543133	019/147
7252773	028/075	7290783	019/089	7327848	020/004	7398583	016/088	7435368	016/139	7506383	019/040	7543168	019/148
7252808	028/043	7290818	019/090	7327883	020/005	7398618	016/089	7435578	016/140	7506418	019/041	7543203	019/149
7252808	028/076	7290853	019/091	7327918	020/006	7398653	016/090	7435648	016/141	7506453	019/042	7543238	019/150
7252843	028/044	7291133	019/092	7357773	016/043	7398688	016/091	7435683	016/142	7506488	019/043	7543448	019/151
7252913	028/045	7291168	019/093	7357773	016/075	7398723	016/092	7435718	016/143	7506523	019/044	7543518	019/152
7253473	028/046	7291203	019/094	7360363	016/044	7398758	016/093	7435858	016/144	7506558	019/045	7543553	019/153
7253753	028/047	7291238	019/095	7360363	016/076	7398793	016/094	7435893	016/145	7506593	019/046	7543588	019/154
7254558	028/048	7291273	019/096	7360748	016/045	7399073	016/095	7468653	016/147	7506628	019/047	7543728	019/155
7254593	028/049	7291308	019/097	7360748	016/077	7399108	016/096	7468653	016/180	7506663	019/048	7543763	019/156
7254628	028/050	7291343	019/098	7360783	016/046	7399143	016/097	7468688	016/148	7506943	019/049	7543798	019/157
7254663	028/051	7291378	019/099	7360783	016/078	7399178	016/098	7468688	016/181	7506978	019/050	7576313	020/040
7254698	028/052	7291413	019/100	7360853	016/047	7399213	016/099	7468723	016/149	7507013	019/051	7576313	034/186
7254733	028/053	7291448	019/101	7361413	016/048	7399248	016/100	7468793	016/150	7507048	019/052	7576558	020/009
7254768	028/054	7291658	019/102	7361693	016/049	7399283	016/101	7469353	016/151	7507083	019/053	7576593	020/010
7254803	028/055	7291728	019/103	7362498	016/050	7399318	016/102	7469633	016/152	7507118	019/054	7576663	020/011
7254838	028/056	7291763	019/104	7362533	016/051	7399353	016/103	7470438	016/153	7507153	019/055	7577223	020/012
7254873	028/057	7291798	019/105	7362568	016/052	7399388	016/104	7470473	016/154	7507188	019/056	7577503	020/013
7255153	028/058	7291938	019/106	7362603	016/053	7399598	016/105	7470508	016/155	7507223	019/057	7578308	020/014
7255188	028/059	7324733	019/109	7362638	016/054	7399668	016/106	7470543	016/156	7507258	019/058	7578343	020/015
7255223	028/060	7324733	020/007	7362673	016/055	7399703	016/107	7470578	016/157	7507468	019/059	7578378	020/016
7255258	028/061	7324768	019/110	7362708	016/056	7399738	016/108	7470613	016/158	7507538	019/060	7578413	020/017
7255293	028/062	7324768	020/008	7362743	016/057	7399878	016/109	7470648	016/159	7507573	019/061	7578448	020/018
7255328	028/063	7324803	019/111	7362778	016/058	7399913	016/110	7470683	016/160	7507608	019/062	7578483	020/019
7255363	028/064	7324873	019/112	7362813	016/059	7399948	016/111	7470718	016/161	7507748	019/063	7578518	020/020
7255398	028/065	7325433	019/113	7363093	016/060	7432463	016/114	7470753	016/162	7507783	019/064	7578553	020/021
7255433	028/066	7325713	019/114	7363128	016/061	7432463	016/146	7471033	016/163	7540543	019/066	7578588	020/022
7255468	028/067	7326518	019/115	7363163	016/062	7432708	016/115	7471068	016/164	7540543	019/158	7578623	020/023
7255678	028/068	7326553	019/116	7363198	016/063	7432743	016/116	7471103	016/165	7540578	019/067	7578903	020/024
7255748	028/069	7326588	019/117	7363233	016/064	7432813	016/117	7471138	016/166	7540578	019/159	7578938	020/025
7255783	028/070	7326623	019/118	7363268	016/065	7433373	016/118	7471173	016/167	7540613	019/068	7578973	020/026
7255818	028/071	7326658	019/119	7363303	016/066	7433653	016/119	7471208	016/168	7540683	019/069	7579008	020/027
7255958	028/072	7326693	019/120	7363338	016/067	7434458	016/120	7471243	016/169	7541243	034/189	7579043	020/028
7255993	028/073	7326728	019/121	7363373	016/068	7434493	016/121	7471278	016/170	7541523	019/130	7579078	020/029
7256028	028/074	7326763	019/122	7363408	016/069	7434528	016/122	7471313	016/171	7542328	019/131	7579113	020/030
7283433	019/075	7326798	019/123	7363618	016/070	7434563	016/123	7471348	016/172	7542363	019/132	7579148	020/031
7283433	019/107	7326833	019/124	7363688	016/071	7434598	016/124	7471558	016/173	7542398	019/133	7579183	020/032
7288543	019/076	7327113	019/125	7363723	016/072	7434633	016/125	7471628	016/174	7542433	019/134	7579218	020/033
7288543	019/108	7327148	019/126	7363758	016/073	7434668	016/126	7471663	016/175	7542468	019/135	7579428	020/034
7288788	019/077	7327183	019/127	7363898	016/074	7434703	016/127	7471698	016/176	7542503	019/136	7579498	020/035
7288823	019/078	7327218	019/128	7396693	016/079	7434738	016/128	7471838	016/177	7542538	019/137	7579533	020/036
7288893	019/079	7327253	019/129	7396693	016/112	7434773	016/129	7471873	016/178	7542573	019/138	7579568	020/037
7289453	019/080	7327288	019/225	7396728	016/080	7435053	016/130	7471908	016/179	7542608	019/139	7579708	020/038

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7579743	020/039	7650443	022/095	7687368	022/144	7758173	020/120	7795098	020/170	7866043	027/190	7902898	028/001
7612433	020/041	7650478	022/096	7687508	022/145	7758208	020/121	7795168	020/171	7866078	027/191	7902968	028/002
7612433	020/074	7650513	022/097	7687543	022/146	7758243	020/122	7795203	020/172	7866113	027/192	7903003	028/003
7612468	020/042	7650793	022/098	7687578	022/147	7758278	020/123	7795238	020/173	7866148	027/193	7903038	028/004
7612468	020/075	7650828	022/099	7720093	020/076	7758313	020/124	7795378	020/175	7866183	027/194	7903178	028/005
7612503	020/043	7650863	022/100	7720093	020/108	7758593	020/125	7795413	020/176	7866463	027/195	7903213	028/006
7612573	020/044	7650898	022/101	7720338	020/077	7758628	020/126	7828103	020/178	7866498	027/196	7903248	028/007
7613133	020/045	7650933	022/102	7720373	020/078	7758663	020/127	7828138	020/179	7866533	027/197	7935763	020/217
7613413	020/046	7650968	022/103	7720443	020/079	7758698	020/128	7828173	020/180	7866568	027/198	7936008	020/218
7614218	020/047	7651003	022/104	7721003	020/080	7758733	020/129	7828243	020/181	7866603	027/199	7936043	020/219
7614253	020/048	7651038	022/105	7721283	020/081	7758768	020/130	7828803	020/182	7866638	027/200	7936113	020/220
7614288	020/049	7651073	022/106	7722088	020/082	7758803	020/131	7829083	020/183	7866673	027/201	7936673	020/221
7614323	020/050	7651108	022/107	7722123	020/083	7758838	020/132	7829888	020/184	7866708	027/202	7936953	020/222
7614358	020/051	7651318	022/108	7722158	020/084	7758873	020/133	7829923	020/185	7866743	027/171	7937723	020/223
7614393	020/052	7651388	022/109	7722193	020/085	7758908	020/134	7829958	020/186	7866743	027/203	7937758	020/224
7614428	020/053	7651423	022/110	7722228	020/086	7759118	020/135	7829993	020/187	7866778	027/172	7937793	020/225
7614463	020/054	7651458	022/111	7722263	020/087	7759188	020/136	7830028	020/188	7866778	027/204	7937828	020/226
7614498	020/055	7651598	022/112	7722298	020/088	7759223	020/137	7830063	020/189	7866988	027/173	7937863	020/227
7614533	020/056	7651633	022/113	7722333	020/089	7759258	020/138	7830098	020/190	7867058	027/174	7937898	020/228
7614813	020/057	7684323	022/115	7722368	020/090	7759398	020/139	7830133	020/191	7867093	027/175	7937933	020/229
7614848	020/058	7684323	022/148	7722403	020/091	7759398	020/174	7830168	020/192	7867128	027/176	7937968	020/230
7614883	020/059	7684358	022/116	7722683	020/092	7759433	020/140	7830203	020/193	7867268	027/177	7938003	021/001
7614918	020/060	7684358	022/149	7722718	020/093	7759468	020/141	7830483	020/194	7867303	027/178	7938038	021/002
7614953	020/061	7684393	022/117	7722753	020/094	7791983	020/144	7830518	020/195	7899993	028/008	7938073	021/003
7614988	020/062	7684463	022/118	7722788	020/095	7791983	020/177	7830553	020/196	7900028	027/206	7938353	021/004
7615023	020/063	7685023	022/119	7722823	020/096	7792228	020/145	7830588	020/197	7900028	028/009	7938388	021/005
7615058	020/064	7685303	022/120	7722858	020/097	7792263	020/146	7830623	020/198	7900063	027/207	7938423	021/006
7615093	020/065	7686108	022/121	7722893	020/098	7792333	020/147	7830658	020/199	7900133	027/208	7938458	021/007
7615128	020/066	7686143	022/122	7722928	020/099	7792893	020/148	7830693	020/200	7900693	027/209	7938493	021/008
7615338	020/067	7686178	022/123	7722963	020/100	7793173	020/149	7830728	020/201	7900973	027/210	7938528	021/009
7615408	020/068	7686213	022/124	7722998	020/101	7793943	020/150	7830763	020/202	7901778	027/211	7938563	021/010
7615443	020/069	7686248	022/125	7723208	020/102	7794013	020/151	7830798	020/203	7901813	027/212	7938598	021/011
7615478	020/070	7686283	022/126	7723278	020/103	7794048	020/152	7831008	020/204	7901848	027/213	7938633	021/012
7615618	020/071	7686318	022/127	7723313	020/104	7794083	020/153	7831008	027/205	7901883	027/214	7938668	020/210
7615653	020/072	7686353	022/128	7723348	020/105	7794118	020/154	7831078	020/205	7901918	027/215	7938878	020/211
7615688	020/073	7686388	022/129	7725938	020/106	7794153	020/155	7831113	020/206	7901953	027/216	7938948	020/212
7648203	022/082	7686423	022/130	7725973	020/107	7794188	020/156	7831148	020/207	7901988	027/217	7938983	020/213
7648203	022/114	7686703	022/131	7756213	020/109	7794223	020/157	7831288	020/208	7902023	027/218	7939018	020/214
7648448	022/083	7686738	022/132	7756213	020/142	7794258	020/158	7831323	020/209	7902058	027/219	7939158	020/215
7648483	022/084	7686773	022/133	7756248	020/110	7794293	020/159	7863873	027/179	7902093	027/220	7939193	019/032
7648553	022/085	7686808	022/134	7756248	020/143	7794573	020/160	7864118	027/180	7902373	027/221	7939193	020/216
7649113	022/086	7686843	022/135	7756283	020/111	7794608	020/161	7864153	027/181	7902408	027/222	7939193	021/044
7649393	022/087	7686878	022/136	7756353	020/112	7794643	020/162	7864223	027/182	7902443	027/223	7939193	021/174
7650198	022/088	7686913	022/137	7756913	020/113	7794678	020/163	7864783	027/183	7902478	027/224	7939193	029/065
7650233	022/089	7686948	022/138	7757193	020/114	7794713	020/164	7865063	027/184	7902513	027/225	7939193	030/201
7650268	022/090	7686983	022/139	7757998	020/115	7794748	020/165	7865868	027/185	7902548	027/226	7939193	031/005
7650303	022/091	7687018	022/140	7758033	020/116	7794783	020/166	7865903	027/186	7902583	027/227	7971953	021/013
7650338	022/092	7687228	022/141	7758068	020/117	7794818	020/167	7865938	027/187	7902618	027/228	7972023	021/014
7650373	022/093	7687298	022/142	7758103	020/118	7794853	020/168	7865973	027/188	7902653	027/229	7972058	021/015
7650408	022/094	7687333	022/143	7758138	020/119	7794888	020/169	7866008	027/189	7902688	027/230	7972093	021/016

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7972373	021/017	8011223	030/192	8081328	029/222	8119723	030/039	8189799	021/160	8260219	019/006	8299349	024/002
7972443	021/018	8011328	030/193	8081398	029/223	8151783	021/113	8190884	021/161	8260779	019/007	8299384	024/003
7973003	021/019	8011363	030/194	8081433	029/224	8151853	021/114	8190919	021/162	8260849	019/008	8299419	024/004
7973073	021/020	8011538	030/195	8081468	029/225	8151888	021/115	8191024	021/163	8260919	019/009	8299594	024/005
7973143	021/021	8011573	030/196	8081538	029/226	8151923	021/116	8191059	021/164	8260989	019/010	8299629	024/006
7973213	021/022	8011608	030/197	8081573	029/227	8152203	021/117	8191164	021/165	8261234	019/011	8299629	024/037
7973458	021/023	8011643	030/198	8081608	029/228	8152273	021/118	8191199	021/166	8261304	019/012	8299664	024/038
7973528	021/024	8011818	030/199	8081678	029/229	8152973	021/119	8191374	021/167	8261339	019/013	8331759	024/007
7973563	021/025	8011853	030/200	8081958	029/230	8153043	021/120	8191409	021/168	8261374	019/014	8331829	024/008
7973598	021/026	8043913	030/204	8081993	030/001	8153288	021/121	8191444	021/169	8261444	019/015	8331864	024/009
7973668	021/027	8043983	030/205	8082938	030/002	8153358	021/122	8191479	021/170	8261514	019/016	8331899	024/010
7973738	021/028	8044018	030/206	8082973	030/003	8153393	021/123	8191654	021/171	8261584	019/017	8332179	024/011
7973808	021/029	8044053	030/207	8083078	030/004	8153428	021/124	8191689	021/172	8261829	019/018	8332249	024/012
7973913	021/030	8044333	030/208	8083113	030/005	8153498	021/125	8223749	018/198	8262844	019/019	8332809	024/013
7975068	021/031	8044403	030/209	8083218	030/006	8153533	021/126	8223819	018/199	8262879	019/020	8332879	024/014
7975103	021/032	8044963	030/210	8083253	030/007	8153568	021/127	8223854	018/200	8262984	019/021	8332949	024/015
7975208	021/033	8045033	030/211	8083428	030/008	8153638	021/128	8223889	018/201	8263019	019/022	8333019	024/016
7975243	021/034	8045103	030/212	8083463	030/009	8153918	021/129	8224169	018/202	8263124	019/023	8333264	024/017
7975348	021/035	8045173	030/213	8083498	030/010	8153953	021/130	8224239	018/203	8263159	019/024	8333334	024/018
7975383	021/036	8045418	030/214	8083533	030/011	8154898	021/131	8224274	018/204	8263334	019/025	8333369	024/019
7975558	021/037	8045488	030/215	8083533	030/040	8154933	021/132	8225009	018/205	8263369	019/026	8333404	024/020
7975593	021/038	8045523	030/216	8115803	030/012	8155038	021/133	8225254	018/206	8263404	019/027	8333474	024/021
7975628	021/039	8045558	030/217	8115873	030/013	8155073	021/134	8225324	018/207	8263439	019/028	8333544	024/022
7975663	021/040	8045628	030/218	8115908	030/014	8155178	021/135	8225359	018/208	8263614	019/029	8333614	024/023
7975838	021/041	8045698	030/219	8115943	030/015	8155213	021/136	8225394	018/209	8263649	019/030	8333859	024/024
7975873	021/042	8045768	030/220	8116223	030/016	8155388	021/137	8225464	018/210	8295709	023/207	8334874	024/025
7975908	021/043	8045873	030/221	8116293	030/017	8155423	021/138	8225499	018/211	8295779	023/208	8334909	024/026
8007933	030/171	8047028	030/222	8116853	030/018	8155458	021/139	8225534	018/212	8295814	023/209	8335014	024/027
8007933	030/202	8047063	030/223	8116923	030/019	8155493	021/140	8225604	018/213	8295849	023/210	8335049	024/028
8008003	030/172	8047168	030/224	8116993	030/020	8155668	021/141	8225884	018/214	8296129	023/211	8335154	024/029
8008003	030/203	8047203	030/225	8117063	030/021	8155703	021/142	8225919	018/215	8296199	023/212	8335189	024/030
8008038	030/173	8047308	030/226	8117308	030/022	8155703	021/173	8226864	018/216	8296829	023/213	8335364	024/031
8008073	030/174	8047343	030/227	8117378	030/023	8155738	018/229	8226899	018/217	8296899	023/214	8335399	024/032
8008353	030/175	8047518	030/228	8117413	030/024	8187769	021/143	8227004	018/218	8297284	023/215	8335434	024/033
8008423	030/176	8047553	030/229	8117448	030/025	8187839	021/144	8227039	018/219	8297354	023/216	8335469	024/034
8009123	030/177	8047588	030/230	8117518	030/026	8187874	021/145	8227144	018/220	8297389	023/217	8335644	024/035
8009193	030/178	8047623	031/001	8117588	030/027	8187909	021/146	8227179	018/221	8297424	023/218	8335679	024/036
8009438	030/179	8047798	031/002	8117658	030/028	8188189	021/147	8227354	018/222	8297494	023/219	8367739	029/003
8009508	030/180	8047833	031/003	8117763	030/029	8188259	021/148	8227389	018/223	8297529	023/220	8367809	029/004
8009543	030/181	8047868	031/004	8118918	030/030	8188819	021/149	8227424	018/224	8297564	023/221	8367844	029/005
8009578	030/182	8079613	029/212	8118953	030/031	8188889	021/150	8227459	018/225	8297634	023/222	8367879	029/006
8009648	030/183	8079648	029/213	8119058	034/175	8188959	021/151	8227494	018/226	8297844	023/223	8368159	029/007
8009683	030/184	8079823	029/214	8119093	034/176	8189029	021/152	8227634	018/227	8297879	023/224	8368229	029/008
8009718	030/185	8079893	029/215	8119198	030/032	8189274	021/153	8227669	018/228	8298824	023/225	8368789	029/009
8009788	030/186	8079928	029/216	8119233	030/033	8189344	021/154	8227669	019/031	8298859	023/226	8368859	029/010
8010068	030/187	8079963	029/217	8119408	030/034	8189379	021/155	8259729	019/001	8298964	023/227	8369104	029/011
8010103	030/188	8080243	029/218	8119443	030/035	8189414	021/156	8259799	019/002	8298999	023/228	8369174	029/012
8011048	030/189	8080313	029/219	8119478	030/036	8189484	021/157	8259834	019/003	8299104	023/229	8369209	029/013
8011083	030/190	8081013	029/220	8119513	030/037	8189554	021/158	8259869	019/004	8299139	023/230	8369244	029/014
8011188	030/191	8081083	029/221	8119688	030/038	8189624	021/159	8260149	019/005	8299314	024/001	8369314	029/015

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8369349	029/016	8439839	022/211	8479004	023/031	8549399	023/080	8620229	023/129	8692959	030/069	8764849	023/181
8369384	029/017	8439874	022/212	8479039	023/032	8549424	023/081	8620789	023/130	8693029	030/070	8764919	023/182
8369454	029/018	8439909	022/213	8479144	023/033	8549494	023/082	8620859	023/131	8693274	030/071	8764989	023/183
8369874	029/019	8440189	022/214	8479179	023/034	8549564	023/083	8620929	023/132	8693344	030/072	8765234	023/184
8369909	029/020	8440259	022/215	8479354	023/035	8549634	023/084	8620999	023/133	8693379	030/073	8765304	023/185
8370854	029/021	8440959	022/216	8479389	023/036	8549739	023/085	8621244	023/134	8693414	030/074	8765339	023/186
8370889	029/022	8441029	022/217	8479424	023/037	8550894	023/086	8621314	023/135	8693484	030/075	8765374	023/187
8370994	029/023	8441274	022/218	8479424	023/069	8550929	023/087	8621349	023/136	8693554	030/076	8765444	023/188
8371029	029/024	8441344	022/219	8479459	023/038	8551034	023/088	8621384	023/137	8693624	030/077	8765514	023/189
8371134	029/025	8441379	022/220	8479459	023/070	8551069	023/089	8621454	023/138	8693729	030/078	8765584	023/190
8371169	029/026	8441414	022/221	8479634	023/039	8551174	023/090	8621524	023/139	8694884	030/079	8765689	023/191
8371344	029/027	8441484	022/222	8479634	023/098	8551209	023/091	8621594	023/140	8694919	030/080	8766844	023/192
8371379	029/028	8441519	022/223	8479669	023/040	8551384	023/092	8621699	023/141	8695024	030/081	8766879	023/193
8371414	029/029	8441554	022/224	8512149	023/042	8551419	023/093	8622854	023/142	8695059	030/082	8766984	023/194
8371449	029/030	8441624	022/225	8512219	023/043	8551454	023/094	8622889	023/143	8695164	030/083	8767019	023/195
8371624	029/031	8441904	022/226	8512919	023/044	8551489	023/095	8622994	023/144	8695199	030/084	8767124	023/196
8371659	029/032	8441939	022/227	8512989	023/045	8551664	023/096	8623029	023/145	8695374	030/085	8767159	023/197
8371659	029/064	8442884	022/228	8513234	023/046	8551699	023/097	8623134	023/146	8695409	030/086	8767334	023/198
8403719	029/033	8442919	022/229	8513304	023/047	8583864	023/099	8623169	023/147	8695444	030/087	8800899	024/157
8403719	029/034	8442989	023/001	8513339	023/048	8583899	023/100	8623344	023/148	8695479	030/088	8800969	024/158
8403789	029/035	8443024	023/002	8513374	023/049	8584179	023/101	8623379	023/149	8727854	023/151	8801214	024/159
8403824	029/036	8443059	023/003	8513409	023/050	8584249	023/102	8647669	030/041	8727889	023/152	8801284	024/160
8403859	029/037	8443164	023/004	8513444	023/051	8584949	023/103	8656909	030/042	8728169	023/153	8801319	024/161
8404139	029/038	8443199	023/005	8513479	023/052	8585019	023/104	8656979	030/043	8728239	023/154	8801354	024/162
8404209	029/039	8443374	023/006	8513514	023/053	8585229	023/105	8657224	030/044	8728939	023/155	8801424	024/163
8404769	029/040	8443409	023/007	8513584	023/054	8585264	023/106	8657294	030/045	8729009	023/156	8801459	024/164
8404839	029/041	8443444	023/008	8513864	023/055	8585334	023/107	8657329	030/046	8729254	023/157	8801494	024/165
8404909	029/042	8443479	023/009	8513899	023/056	8585369	023/108	8657364	030/047	8729324	023/158	8801564	024/166
8404979	029/043	8443654	023/010	8514844	023/057	8585404	023/109	8657434	030/048	8729359	023/159	8801914	024/167
8405224	029/044	8443689	023/041	8514879	023/058	8585474	023/110	8657469	030/049	8729394	023/160	8801949	024/168
8405294	029/045	8475749	023/011	8514984	023/059	8585509	023/111	8657504	030/050	8729464	023/161	8802824	024/169
8405329	029/046	8475819	023/012	8515019	023/060	8585544	023/112	8657574	030/051	8729499	023/162	8802859	024/170
8405364	029/047	8475854	023/013	8515124	023/061	8585614	023/113	8657854	030/052	8729534	023/163	8802964	024/171
8405434	029/048	8475889	023/014	8515159	023/062	8585894	023/114	8657889	030/053	8729604	023/164	8802999	024/172
8405504	029/049	8476169	023/015	8515334	023/063	8585929	023/115	8658834	030/054	8729884	023/165	8803104	024/173
8405574	029/050	8476239	023/016	8515369	023/064	8586874	023/116	8658869	030/055	8729919	023/166	8803139	024/174
8405679	029/051	8476799	023/017	8515404	023/065	8586909	023/117	8658974	030/056	8730864	023/167	8803314	024/175
8406834	029/052	8476869	023/018	8515439	023/066	8587014	023/118	8659009	030/057	8730899	023/168	8803349	024/176
8406869	029/053	8476939	023/019	8515614	023/067	8587049	023/119	8659114	030/058	8731004	023/169	8803384	024/177
8406974	029/054	8477009	023/020	8515649	023/068	8587154	023/120	8659149	030/059	8731039	023/170	8803419	024/178
8407009	029/055	8477254	023/021	8547884	034/145	8587189	023/121	8659324	030/060	8731144	023/171	8803454	024/179
8407114	029/056	8477324	023/022	8547919	023/071	8587364	023/122	8659359	030/061	8731179	023/172	8835864	024/180
8407149	029/057	8477359	023/023	8548199	023/072	8587399	023/123	8659394	030/062	8731354	023/173	8835899	024/181
8407324	029/058	8477394	023/024	8548269	023/073	8587469	023/150	8659429	030/063	8763729	023/174	8836109	024/182
8407359	029/059	8477464	023/025	8548829	023/074	8587469	030/089	8691909	034/160	8763799	023/175	8836179	024/183
8407394	029/060	8477534	023/026	8548899	023/075	8619739	023/124	8691944	030/064	8763834	023/176	8836739	024/184
8407429	029/061	8477534	023/027	8548969	023/076	8619809	023/125	8692189	030/065	8763869	023/177	8836809	024/185
8407604	029/062	8477604	023/028	8549039	023/077	8619844	023/126	8692259	030/066	8764149	023/178	8836879	024/186
8407639	029/063	8477709	023/029	8549284	023/078	8619879	023/127	8692819	030/067	8764219	023/179	8836949	024/187
8439769	022/210	8478899	023/030	8549354	023/079	8620159	023/128	8692889	030/068	8764779	023/180	8837194	024/188

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8837299	024/190	8909084	025/078	8981394	024/142	9054579	026/022	9126749	025/134	9231119	032/141	9304794	028/112
8837334	024/191	8909154	025/079	8981499	024/143	9054684	026/023	9126924	025/135	9231189	032/142	9304864	028/113
8837404	024/192	8909189	025/080	8982654	024/144	9054719	026/024	9126959	025/136	9231224	032/143	9305179	028/114
8837474	024/193	8909224	025/081	8982689	024/145	9054824	026/025	9126994	025/137	9231259	032/144	9306124	028/115
8837544	024/194	8909294	025/082	8982794	024/146	9054859	026/026	9159229	030/114	9232309	032/145	9306159	028/116
8837649	024/195	8909364	025/083	8982829	024/147	9055034	026/027	9159299	030/115	9232379	032/146	9306264	028/117
8838804	024/196	8909434	025/084	8982934	024/148	9055069	026/028	9159334	030/116	9232624	032/147	9306299	028/118
8838839	024/197	8909609	025/085	8982969	024/149	9055104	026/029	9159369	030/117	9232694	032/148	9306404	028/119
8838944	024/198	8910694	025/086	8983144	024/150	9055139	026/030	9159649	030/118	9232764	032/149	9306439	028/120
8838979	024/199	8910729	025/087	8983179	024/151	9087094	025/093	9159719	030/119	9232834	032/150	9338989	028/121
8839084	024/200	8910834	025/088	8983214	024/152	9087339	025/094	9160734	030/120	9232904	032/151	9339059	028/122
8839119	024/201	8910869	025/089	8983249	024/153	9087409	025/095	9160804	030/121	9232974	032/152	9339094	028/123
8839294	024/202	8910974	024/130	8983424	024/154	9087444	025/096	9160874	030/122	9233289	032/153	9339129	028/124
8839329	024/203	8910974	025/090	8983459	024/155	9087479	025/097	9160944	030/123	9234234	032/154	9340179	028/125
8839364	024/204	8911009	025/091	9011739	025/216	9087759	025/098	9161014	030/124	9234269	032/155	9340249	028/126
8839399	024/205	8911184	025/092	9013279	025/217	9087829	025/099	9161084	030/125	9234374	032/156	9340494	028/127
8871774	025/044	8911219	024/156	9015449	025/218	9088844	025/100	9161399	030/126	9234409	034/161	9340634	028/128
8871809	025/045	8944749	024/108	9015519	025/219	9088914	025/101	9162344	030/127	9234514	034/162	9340704	028/129
8872089	025/046	8944819	024/109	9015554	025/220	9088984	025/102	9162379	030/128	9234549	034/163	9340774	028/130
8872159	025/047	8945064	024/110	9015589	025/221	9089054	025/103	9162484	030/129	9234724	034/164	9340844	028/131
8872859	025/048	8945134	024/111	9016639	025/222	9089124	025/104	9162519	030/130	9266819	034/165	9341019	028/132
8872929	025/049	8945169	024/112	9016709	025/223	9089194	025/105	9162624	030/131	9266854	034/166	9342104	028/133
8873174	025/050	8945204	024/113	9016954	025/224	9089509	025/106	9162659	030/132	9267099	034/167	9342139	028/134
8873244	025/051	8945274	024/114	9017024	025/225	9089789	025/107	9162834	030/133	9267169	032/157	9342244	028/135
8873279	025/052	8945309	024/115	9017094	025/226	9089824	025/108	9162869	034/177	9267204	032/158	9342279	028/136
8873314	025/053	8945344	024/116	9017164	025/227	9090454	025/109	9194929	034/178	9267239	032/159	9342384	028/137
8873384	025/054	8945414	024/117	9017234	025/228	9090489	025/110	9194964	030/134	9268289	032/160	9342419	028/138
8873419	025/055	8945694	024/118	9017304	025/229	9090594	025/111	9195209	030/135	9268359	032/161	9342594	028/139
8873454	025/056	8945729	024/119	9017619	026/001	9090629	025/112	9195279	030/136	9268604	032/162	9342629	028/140
8873524	025/057	8946674	024/120	9018564	026/002	9090734	025/113	9195314	030/137	9268674	032/163	9342664	034/152
8873804	025/058	8946709	024/121	9018599	026/003	9123039	025/114	9195349	030/138	9268744	032/164	9374619	025/138
8873839	025/059	8946814	024/122	9018704	026/004	9123074	025/115	9195489	030/139	9268814	032/165	9374654	025/139
8874784	025/060	8946849	024/123	9018739	026/005	9123319	025/116	9195559	030/140	9270354	032/166	9374899	025/140
8874819	025/061	8946954	024/124	9018844	026/006	9123389	025/117	9196714	030/141	9270389	032/167	9374969	025/141
8874924	025/062	8946989	024/125	9018879	026/007	9123424	025/118	9196784	030/142	9270494	032/168	9375004	025/142
8874959	025/063	8947164	024/126	9019159	030/158	9123459	025/119	9196854	030/143	9270529	032/169	9375039	025/143
8875029	025/064	8947199	024/127	9051569	026/008	9124509	025/120	9196924	030/144	9270704	032/170	9376439	025/144
8875064	025/065	8947234	024/128	9051639	026/009	9124579	025/121	9196994	030/145	9270739	032/171	9376509	025/145
8875099	025/066	8947269	024/129	9051674	026/010	9124824	025/122	9197064	030/146	9270774	032/172	9377069	025/146
8875134	025/067	8979539	024/131	9051709	026/011	9124894	025/123	9197239	030/147	9270809	032/173	9378014	025/147
8907579	025/068	8979609	024/132	9052059	026/012	9124964	025/124	9198324	030/148	9303009	028/102	9378049	025/148
8907649	025/069	8979644	024/133	9052129	026/013	9125034	025/125	9198359	030/149	9303079	028/103	9378154	025/149
8907684	025/070	8979679	024/134	9052934	026/014	9125104	025/126	9198464	030/150	9303114	028/104	9378189	025/150
8907719	025/071	8979959	024/135	9053004	026/015	9125174	025/127	9198499	030/151	9303149	028/105	9378294	025/151
8907999	025/072	8980029	024/136	9053074	026/016	9125279	025/128	9198604	030/152	9304199	028/106	9378329	025/152
8908069	025/073	8981044	024/137	9053144	026/017	9126434	025/129	9198639	030/153	9304269	028/107	9378504	025/153
8908629	025/074	8981114	024/138	9053214	026/018	9126469	025/130	9198814	030/154	9304514	028/108	9378539	025/154
8908699	025/075	8981184	024/139	9053284	026/019	9126574	025/131	9198849	030/155	9304584	028/109	9378574	025/155
8908769	025/076	8981254	024/140	9053389	026/020	9126609	025/132	9198884	030/156	9304654	028/110	9378784	025/176

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9411299	025/157	9484799	025/208	9592844	026/041	9734839	031/074	9880579	028/082	10022819	026/152	10171009	026/183
9411369	025/158	9484939	025/209	9592879	026/042	9734909	031/075	9880614	028/083	10023204	026/154	10171114	026/194
9411754	025/159	9485044	025/210	9593999	026/043	9735119	031/076	9881279	028/084	10023239	026/155	10171149	026/195
9412069	025/160	9485079	025/211	9626689	026/044	9735154	031/077	9881349	028/085	10024569	026/156	10203979	026/184
9412139	025/161	9486024	025/212	9626759	026/045	9736519	031/078	9881419	028/086	10024639	026/157	10204049	026/185
9412209	025/162	9486234	025/213	9626829	026/046	9736554	031/079	9882189	028/087	10024709	026/158	10204119	026/186
9412769	025/163	9486444	025/214	9628089	026/047	9736589	031/080	9882224	028/088	10026109	026/159	10204539	026/187
9412804	025/164	9486654	025/215	9628159	026/048	9736799	031/081	9882259	034/151	10026144	026/160	10204609	026/188
9412839	025/165	9518259	032/093	9628229	026/049	9736869	031/082	9914669	028/089	10058659	026/161	10204679	026/189
9413119	025/166	9518294	032/094	9628579	026/050	9736939	031/083	9914739	028/090	10058729	026/162	10204889	026/190
9413154	025/167	9518469	032/095	9628614	026/051	9770679	034/147	9914809	028/091	10058799	026/163	10204924	026/191
9413679	025/168	9518504	032/096	9628649	026/052	9770749	034/148	9915159	028/092	10059149	026/164	10204959	026/192
9413749	025/169	9518749	032/097	9628929	026/053	9770819	031/084	9915229	028/093	10059219	026/165	10205904	026/193
9413819	025/170	9518819	032/098	9628999	026/054	9771099	031/085	9915299	028/094	10059289	026/166	10239119	032/123
9414029	025/171	9518889	032/099	9666519	026/120	9771134	031/086	9916559	028/095	10060549	026/167	10239154	032/124
9414134	025/172	9519029	032/100	9666554	026/121	9772009	031/087	9916594	028/096	10060584	026/168	10239189	032/125
9414134	025/194	9519099	032/101	9666589	026/122	9772079	031/088	9916629	028/097	10060619	026/169	10239539	032/126
9414169	025/173	9519169	032/102	9666624	026/123	9772149	031/089	9917259	028/098	10061039	026/170	10239574	032/127
9414379	025/174	9519309	032/103	9666659	026/124	9772429	031/090	9917329	028/099	10061074	026/171	10241219	032/128
9414414	025/175	9519309	032/117	9666694	026/125	9772464	031/091	9917399	028/100	10061459	026/172	10241289	032/129
9446859	025/177	9519379	032/104	9666729	026/126	9772499	031/092	9917609	028/101	10061529	026/173	10241359	032/130
9446929	025/178	9519414	032/105	9666764	026/127	9806659	030/090	9950719	029/121	10094849	032/064	10275939	032/131
9446999	025/179	9520639	032/106	9666799	026/128	9806729	030/091	9950789	029/122	10095549	032/065	10276009	032/132
9448189	025/180	9520674	032/107	9666834	026/129	9806799	030/092	9950859	029/123	10095584	032/066	10276079	032/133
9448259	025/181	9520709	032/108	9666869	026/130	9807359	030/093	9953239	029/124	10096599	032/067	10276499	032/134
9448329	025/182	9522039	032/109	9666904	026/131	9807429	030/094	9953309	029/125	10096634	032/068	10276569	032/135
9448679	025/183	9554729	034/187	9666939	026/132	9807499	030/095	9953379	029/126	10096669	032/069	10276639	032/136
9448714	025/184	9554799	034/188	9666974	026/133	9807989	030/096	9953519	029/127	10097299	032/070	10277409	032/137
9448749	025/185	9556339	032/110	9698649	026/134	9808024	030/097	9953554	029/128	10097369	032/071	10277444	032/138
9449449	025/186	9556409	032/111	9698719	026/135	9808059	030/098	9953589	029/129	10097439	032/072	10277479	032/139
9449519	025/187	9556549	032/112	9698789	034/149	9842779	030/099	9953799	029/130	10097439	032/083	10277829	032/140
9449589	025/188	9556584	032/113	9698929	034/150	9842814	030/100	9953834	029/131	10098174	032/073	10310589	032/084
9450289	025/189	9556619	032/114	9698999	026/136	9843059	030/101	9954954	029/132	10098209	032/074	10310659	032/085
9450394	025/190	9557319	032/115	9699069	026/137	9843129	030/102	9986489	029/133	10131319	032/075	10310729	032/086
9450429	025/191	9557389	032/116	9699699	026/138	9843199	030/103	9986524	029/134	10132929	032/076	10311849	032/087
9451129	025/192	9557459	032/118	9699734	026/139	9844039	030/104	9986699	029/135	10132999	032/077	10311884	032/088
9451164	025/193	9557669	032/119	9699769	026/140	9844109	030/105	9986769	026/153	10133069	032/078	10311919	032/089
9482769	025/195	9557739	032/120	9700399	026/141	9844179	030/106	9986769	029/136	10133489	032/079	10313809	032/090
9482839	025/196	9557774	032/121	9700469	026/142	9844599	030/107	9986839	029/137	10133524	032/080	10313879	032/091
9482909	025/197	9557809	032/122	9700539	026/143	9844634	030/108	9988029	029/138	10133559	032/081	10346639	032/092
9483049	025/198	9590744	026/031	9701239	026/144	9844669	030/109	9988099	029/139	10133594	032/082	10386539	033/065
9483119	025/199	9590989	026/032	9701344	026/145	9845299	030/110	9988169	029/140	10166669	026/174	10386574	033/066
9483189	025/200	9591059	026/033	9701379	026/146	9845369	030/111	9988589	029/141	10166739	026/175	10386714	033/067
9483399	025/201	9591129	026/034	9702114	026/147	9845439	030/112	9988624	029/142	10166809	026/176	10386749	033/068
9483434	025/202	9592249	026/035	9702324	026/148	9845579	030/113	9988659	029/143	10167159	026/177	10386784	033/069
9484169	025/203	9592284	026/036	9702534	026/149	9878689	028/077	9989919	029/144	10167194	026/178	10386819	033/070
9484204	025/204	9592459	026/037	9734559	031/070	9878724	028/078	9989954	029/145	10167229	026/179	10386854	033/071
9484239	025/205	9592529	026/038	9734559	031/071	9880019	028/079	9989989	029/146	10169259	026/180	10386889	033/072
9484659	025/206	9592599	026/039	9734629	031/072	9880089	028/080	10022679	026/150	10169329	026/181	10386924	033/073

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10386994	033/075	10686044	028/198	11481764	033/103	11800011	033/186	12150437	032/177	12363896	032/227	12866068	033/149
10387029	033/076	10686044	028/228	11481799	033/104	11800046	033/187	12150752	032/178	12363931	032/228	12866138	033/150
10492519	030/159	10686114	028/199	11481974	033/105	11800151	033/188	12150822	032/179	12364036	032/229	12866208	033/151
10492554	030/160	10686114	028/229	11482114	033/106	11801376	033/189	12150962	032/180	12364071	032/230	12870548	033/152
10492589	028/178	10686394	028/200	11482149	033/107	11833436	033/190	12150997	032/181	12364316	032/231	12870618	033/153
10492589	030/161	10686394	029/001	11619935	033/108	11833506	033/191	12152467	032/182	12364351	033/001	12870688	033/154
10492624	030/162	10686429	029/002	11619970	033/109	11833541	033/192	12152502	032/183	12364456	033/002	12874503	033/155
10492659	030/163	10720484	028/209	11620005	033/110	11833716	033/193	12152607	032/184	12499160	033/003	12874573	033/156
10492694	030/164	10720519	028/210	11620145	033/111	11835536	033/194	12152642	032/185	12499230	033/004	12900648	033/157
10492729	030/165	10720554	028/211	11620215	033/112	11835571	033/195	12152887	032/186	12499650	033/005	12901208	033/158
10492764	030/166	10720589	028/212	11620355	033/113	11835606	033/196	12152922	032/187	12499720	033/006	12901348	033/159
10492799	030/167	10720624	028/213	11620390	033/114	11835676	033/197	12153097	032/188	12499790	033/007	12901383	033/160
10492834	030/168	10720659	028/214	11620530	033/115	11835711	033/198	12159222	032/189	12500000	033/008	12902048	033/161
10492869	030/169	10720694	028/215	11620565	033/116	11835746	033/199	12185962	032/190	12500070	033/009	12902118	033/162
10492904	030/170	10720729	028/216	11622385	033/117	11835991	033/200	12186032	032/191	12500140	033/010	12902153	033/163
10493079	028/173	10720764	028/217	11622455	033/118	11836026	033/201	12186067	032/192	12500210	033/011	12906598	033/164
10493114	028/174	10720799	028/218	11622560	033/119	11836131	033/202	12186802	032/193	12500490	033/012	12906668	033/165
10494479	028/175	10720834	028/219	11622595	033/120	11973789	033/035	12186872	032/194	12500840	033/013	12906738	033/166
10563124	028/176	10720869	028/220	11622770	033/121	11974069	033/036	12187012	032/195	12500910	033/014	12906808	033/167
10563159	028/177	10720904	028/221	11622910	033/122	11974104	033/037	12187047	032/196	12502275	033/015	12909993	033/168
10563369	028/179	10720939	028/222	11622945	033/123	11974664	033/038	12188377	032/197	12502520	033/016	12910063	033/169
10615414	028/201	10720974	028/223	11656125	033/125	11974734	033/039	12188412	032/198	12502590	033/017	12985393	034/039
10615449	028/202	10721009	028/224	11656265	033/126	11974874	033/040	12188517	032/199	12502660	033/018	12985463	034/040
10616534	028/203	11442879	033/077	11656300	033/127	11974909	033/041	12188552	032/200	12535035	033/019	12985603	034/041
10616569	028/204	11442914	033/078	11656895	033/128	11975084	033/042	12188797	032/201	12535070	033/020	12985638	034/042
10616604	028/205	11442949	033/079	11656965	033/129	11975154	033/043	12188832	032/202	12535105	033/021	12985848	034/043
10616639	028/206	11443369	033/080	11657035	033/130	11975294	033/044	12188937	032/203	12535175	033/022	12985882	034/044
10616674	028/207	11443439	033/081	11657070	033/131	11975329	033/045	12326061	032/204	12535245	033/023	12991202	034/045
10616709	028/208	11443579	033/082	11658400	033/132	11976589	033/046	12326131	032/205	12535490	033/024	12991272	034/046
10648524	028/180	11443614	033/083	11658435	033/133	11976624	033/047	12326271	032/206	12535560	033/025	12991342	034/047
10648559	028/181	11445084	033/084	11658540	033/134	11976729	033/048	12326306	032/207	12535595	033/026	12991412	034/048
10648874	028/182	11445119	033/085	11658575	033/135	11976764	033/049	12326481	032/208	12537170	033/027	12993022	034/049
10648944	028/183	11445644	033/086	11658750	033/136	11977009	033/050	12326551	032/209	12537520	033/028	12994247	034/050
10649574	028/184	11445679	033/087	11658890	033/137	11977044	033/051	12326691	032/210	12538255	033/029	12994317	034/051
10649609	028/185	11445784	033/088	11658925	033/138	11977149	033/052	12326726	032/211	12538430	033/030	12994387	034/052
10649994	028/186	11445819	033/089	11796791	033/171	11994754	033/053	12327986	032/212	12538500	033/031	12995122	034/053
10650064	028/187	11445994	033/090	11797001	033/172	12010224	033/054	12328021	032/213	12538570	033/032	12995262	034/054
10650134	028/188	11446134	033/091	11797036	033/173	12010294	033/055	12328126	032/214	12538640	033/033	12996102	034/055
10650484	028/189	11446169	033/092	11797246	033/174	12010329	033/056	12328161	032/215	12538710	033/034	13021302	034/056
10650554	028/190	11479769	033/093	11797316	033/175	12011344	033/057	12328406	032/216	12685643	033/139	13021407	034/057
10650904	028/191	11479769	033/124	11797456	033/176	12012569	033/058	12328441	032/217	12685643	033/170	13021512	034/058
10650974	028/192	11479839	033/094	11797491	033/177	12012604	033/059	12360886	032/218	12685958	033/140	13021582	034/059
10651044	028/193	11479979	033/095	11797946	033/178	12012709	033/060	12361691	032/219	12686028	033/141	13021652	034/060
10652339	028/194	11480014	033/096	11798016	033/179	12012744	033/061	12361831	032/220	12686063	033/142	13021687	034/061
10652374	028/195	11480609	033/097	11798156	033/180	12012989	033/062	12361901	032/221	12686238	033/143	13021722	034/062
10652374	028/225	11480679	033/098	11798191	033/181	12013024	033/063	12361936	032/222	12686308	033/144	13027322	034/063
10684504	028/196	11480749	033/099	11799591	033/182	12013129	033/064	12362181	032/223	12686378	033/145	13028127	034/064
10684504	028/226	11480784	033/100	11799626	033/183	12150192	032/174	12362251	032/224	12686413	033/146	13032082	034/065
10684539	028/197	11481624	033/101	11799731	033/184	12150262	032/175	12362881	032/225	12865578	033/147	13165256	034/066

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13165291	034/067	13499028	034/117
13165361	034/068	13499098	034/118
13165361	034/100	13499168	034/119
13165396	034/069	13499238	034/120
13313245	034/070	13500498	034/121
13313455	034/071	13500533	034/122
13313735	034/072	13502948	034/123
13313805	034/073	13502983	034/124
13313910	034/074	13505468	034/125
13496368	034/116	13511838	034/130

TABLE E-6

MARINER 6 AND 7 SOURCE TAPE INDEX

Table E-6 provides an index of all source tapes containing image data from the Mariner 6 and 7 missions. The conversion staff was not able to locate any documentation describing the formats of data stored on these tapes. The listing is ordered by picture identifier, a composite of the spacecraft number (6 or 7), encounter phase (F = far encounter, N = near encounter), and a sequential picture count within the encounter phase. The tape and file number of each source tape is listed, along with a field representing the processed version type for the image on this tape. In some cases the version type field identifies the data taking mode at the spacecraft (CAV, DV, and ETE) as described in Appendix B. In other cases it appears to represent a processed version identifier (MAXD for maximum discriminability, for example). The listing was generated from the "PICM69" picture catalog tape.

MARINER 6 AND 7 SOURCE TAPE CATALOG

PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS
6F01	M-109 /01	DV	6F06	M-748 /06	CAV	6F11	M-673 /09	CAV	6F16	M-737 /02	CAV	6F21	RBL-011/05	CAV
6F01	M-200 /01	CAV	6F06	M-759 /06	CAV	6F11	M-679 /07	CAV	6F16	M-737 /03	CAV	6F22	M-109 /22	DV
6F01	M-687 /01	CAV	6F06	M-812 /06	CAV	6F11	M-679 /08	CAV	6F16	M-749 /02	CAV	6F22	M-201 /06	CAV
6F01	M-687 /02	CAV	6F06	RBL-012/06	CAV	6F11	M-679 /09	CAV	6F16	M-760 /02	CAV	6F22	M-643 /04	CAV
6F01	M-687 /03	CAV	6F07	M-109 /07	DV	6F11	M-748 /11	CAV	6F16	M-813 /02	CAV	6F22	M-643 /05	CAV
6F01	M-748 /01	CAV	6F07	M-200 /07	CAV	6F11	M-759 /11	CAV	6F16	RBL-012/16	CAV	6F22	M-643 /06	CAV
6F01	M-759 /01	CAV	6F07	M-688 /07	CAV	6F11	M-812 /11	CAV	6F17	M-109 /17	DV	6F22	M-749 /08	CAV
6F01	M-812 /01	CAV	6F07	M-688 /08	CAV	6F11	RBL-012/11	CAV	6F17	M-201 /01	CAV	6F22	M-760 /08	CAV
6F01	RBL-012/01	CAV	6F07	M-688 /09	CAV	6F12	M-109 /12	DV	6F17	M-638 /01	CAV	6F22	M-813 /08	CAV
6F02	M-109 /02	DV	6F07	M-748 /07	CAV	6F12	M-200 /12	CAV	6F17	M-638 /02	CAV	6F22	RBL-011/06	CAV
6F02	M-200 /02	CAV	6F07	M-759 /07	CAV	6F12	M-673 /10	CAV	6F17	M-638 /03	CAV	6F23	M-109 /23	DV
6F02	M-687 /04	CAV	6F07	M-812 /07	CAV	6F12	M-673 /11	CAV	6F17	M-749 /03	CAV	6F23	M-201 /07	CAV
6F02	M-687 /05	CAV	6F07	RBL-012/07	CAV	6F12	M-673 /12	CAV	6F17	M-760 /03	CAV	6F23	M-643 /07	CAV
6F02	M-687 /06	CAV	6F08	M-109 /08	DV	6F12	M-679 /10	CAV	6F17	M-813 /03	CAV	6F23	M-643 /08	CAV
6F02	M-748 /02	CAV	6F08	M-200 /08	CAV	6F12	M-679 /11	CAV	6F17	RBL-011/01	CAV	6F23	M-643 /09	CAV
6F02	M-759 /02	CAV	6F08	M-688 /10	CAV	6F12	M-679 /12	CAV	6F18	M-109 /18	DV	6F23	M-749 /09	CAV
6F02	M-812 /02	CAV	6F08	M-688 /11	CAV	6F12	M-748 /12	CAV	6F18	M-201 /02	CAV	6F23	M-760 /09	CAV
6F02	RBL-012/02	CAV	6F08	M-688 /12	CAV	6F12	M-759 /12	CAV	6F18	M-638 /04	CAV	6F23	M-813 /09	CAV
6F03	M-109 /03	DV	6F08	M-748 /08	CAV	6F12	M-812 /12	CAV	6F18	M-638 /05	CAV	6F23	RBL-011/07	CAV
6F03	M-200 /03	CAV	6F08	M-759 /08	CAV	6F12	RBL-012/12	CAV	6F18	M-638 /06	CAV	6F24	M-109 /24	DV
6F03	M-687 /07	CAV	6F08	M-812 /08	CAV	6F13	M-109 /13	DV	6F18	M-749 /04	CAV	6F24	M-201 /08	CAV
6F03	M-687 /08	CAV	6F08	RBL-012/08	CAV	6F13	M-200 /13	CAV	6F18	M-760 /04	CAV	6F24	M-643 /10	CAV
6F03	M-687 /09	CAV	6F09	M-109 /09	DV	6F13	M-680 /01	CAV	6F18	M-813 /04	CAV	6F24	M-643 /11	CAV
6F03	M-748 /03	CAV	6F09	M-200 /09	CAV	6F13	M-680 /02	CAV	6F18	RBL-011/02	CAV	6F24	M-643 /12	CAV
6F03	M-759 /03	CAV	6F09	M-673 /01	CAV	6F13	M-680 /03	CAV	6F19	M-109 /19	DV	6F24	M-749 /10	CAV
6F03	M-812 /03	CAV	6F09	M-673 /02	CAV	6F13	M-748 /13	CAV	6F19	M-201 /03	CAV	6F24	M-760 /10	CAV
6F03	RBL-012/03	CAV	6F09	M-673 /03	CAV	6F13	M-759 /13	CAV	6F19	M-638 /07	CAV	6F24	M-813 /10	CAV
6F04	M-109 /04	DV	6F09	M-679 /01	CAV	6F13	M-812 /13	CAV	6F19	M-638 /08	CAV	6F24	RBL-011/08	CAV
6F04	M-200 /04	CAV	6F09	M-679 /02	CAV	6F13	RBL-012/13	CAV	6F19	M-638 /09	CAV	6F25	M-109 /25	DV
6F04	M-687 /10	CAV	6F09	M-679 /03	CAV	6F14	M-109 /14	DV	6F19	M-749 /05	CAV	6F25	M-201 /09	CAV
6F04	M-687 /11	CAV	6F09	M-748 /09	CAV	6F14	M-200 /14	CAV	6F19	M-760 /05	CAV	6F25	M-672 /01	CAV
6F04	M-687 /12	CAV	6F09	M-759 /09	CAV	6F14	M-680 /04	CAV	6F19	M-813 /05	CAV	6F25	M-672 /02	CAV
6F04	M-748 /04	CAV	6F09	M-812 /09	CAV	6F14	M-680 /05	CAV	6F19	RBL-011/03	CAV	6F25	M-672 /03	CAV
6F04	M-759 /04	CAV	6F09	RBL-012/09	CAV	6F14	M-680 /06	CAV	6F20	M-109 /20	DV	6F25	M-749 /11	CAV
6F04	M-812 /04	CAV	6F10	M-109 /10	DV	6F14	M-748 /14	CAV	6F20	M-201 /04	CAV	6F25	M-760 /11	CAV
6F04	RBL-012/04	CAV	6F10	M-200 /10	CAV	6F14	M-759 /14	CAV	6F20	M-638 /10	CAV	6F25	M-813 /11	CAV
6F05	M-109 /05	DV	6F10	M-673 /04	CAV	6F14	M-812 /14	CAV	6F20	M-638 /11	CAV	6F25	RBL-011/09	CAV
6F05	M-200 /05	CAV	6F10	M-673 /05	CAV	6F14	RBL-012/14	CAV	6F20	M-638 /12	CAV	6F26	M-109 /26	DV
6F05	M-688 /01	CAV	6F10	M-673 /06	CAV	6F15	M-109 /15	DV	6F20	M-749 /06	CAV	6F26	M-201 /10	CAV
6F05	M-688 /02	CAV	6F10	M-679 /04	CAV	6F15	M-200 /15	CAV	6F20	M-760 /06	CAV	6F26	M-672 /04	CAV
6F05	M-688 /03	CAV	6F10	M-679 /05	CAV	6F15	M-680 /07	CAV	6F20	M-813 /06	CAV	6F26	M-672 /05	CAV
6F05	M-748 /05	CAV	6F10	M-679 /06	CAV	6F15	M-680 /08	CAV	6F20	RBL-011/04	CAV	6F26	M-672 /06	CAV
6F05	M-759 /05	CAV	6F10	M-748 /10	CAV	6F15	M-680 /09	CAV	6F21	M-109 /21	DV	6F26	M-749 /12	CAV
6F05	M-812 /05	CAV	6F10	M-759 /10	CAV	6F15	M-749 /01	CAV	6F21	M-201 /05	CAV	6F26	M-760 /12	CAV
6F05	RBL-012/05	CAV	6F10	M-812 /10	CAV	6F15	M-760 /01	CAV	6F21	M-643 /01	CAV	6F26	M-813 /12	CAV
6F06	M-109 /06	DV	6F10	RBL-012/10	CAV	6F15	M-813 /01	CAV	6F21	M-643 /02	CAV	6F26	RBL-011/10	CAV
6F06	M-200 /06	CAV	6F11	M-109 /11	DV	6F15	RBL-012/15	CAV	6F21	M-643 /03	CAV	6F27	M-109 /27	DV
6F06	M-688 /04	CAV	6F11	M-200 /11	CAV	6F16	M-109 /16	DV	6F21	M-749 /07	CAV	6F27	M-201 /11	CAV
6F06	M-688 /05	CAV	6F11	M-673 /07	CAV	6F16	M-200 /16	CAV	6F21	M-760 /07	CAV	6F27	M-672 /07	CAV
6F06	M-688 /06	CAV	6F11	M-673 /08	CAV	6F16	M-737 /01	CAV	6F21	M-813 /07	CAV	6F27	M-672 /08	CAV

MARINER 6 AND 7 SOURCE TAPE CATALOG

PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS
6F27	M-672 /09	CAV	6F33	M-110 /03	DV	6F38	M-750 /10	CAV	6F44	M-202 /12	CAV	6F49	M-751 /07	CAV
6F27	M-749 /13	CAV	6F33	M-202 /01	CAV	6F38	M-761 /10	CAV	6F44	M-533 /10	CAV	6F49	M-762 /07	CAV
6F27	M-760 /13	CAV	6F33	M-540 /01	CAV	6F38	M-814 /10	CAV	6F44	M-533 /11	CAV	6F49	M-815 /07	CAV
6F27	M-813 /13	CAV	6F33	M-540 /02	CAV	6F38	RBL-022/06	CAV	6F44	M-533 /12	CAV	6F49	RBL-010/01	CAV
6F27	RBL-011/11	CAV	6F33	M-540 /03	CAV	6F39	M-110 /09	DV	6F44	M-751 /02	CAV	6F50	M-110 /20	DV
6F28	M-109 /28	DV	6F33	M-750 /05	CAV	6F39	M-202 /07	CAV	6F44	M-762 /02	CAV	6N01	69-1-1 /01	DV
6F28	M-201 /12	CAV	6F33	M-761 /05	CAV	6F39	M-539 /07	CAV	6F44	M-815 /02	CAV	6N01	69-11-1/01	CAV
6F28	M-672 /10	CAV	6F33	M-814 /05	CAV	6F39	M-539 /08	CAV	6F44	RBL-022/12	CAV	6N01	69-13-1/01	ETE
6F28	M-672 /11	CAV	6F33	RBL-022/01	CAV	6F39	M-539 /09	CAV	6F45	M-110 /15	DV	6N01	69-22-1/01	PRP
6F28	M-672 /12	CAV	6F34	M-110 /04	DV	6F39	M-750 /11	CAV	6F45	M-202 /13	CAV	6N01	69-26-1/01	PRP
6F28	M-749 /14	CAV	6F34	M-202 /02	CAV	6F39	M-761 /11	CAV	6F45	M-531 /01	CAV	6N01	69-29-1/01	PRP
6F28	M-760 /14	CAV	6F34	M-540 /04	CAV	6F39	M-814 /11	CAV	6F45	M-531 /02	CAV	6N01	69-34-1/01	PRP
6F28	M-813 /14	CAV	6F34	M-540 /05	CAV	6F39	RBL-022/07	CAV	6F45	M-531 /03	CAV	6N01	69-4-1 /01	MAX-D
6F28	RBL-011/12	CAV	6F34	M-540 /06	CAV	6F40	M-110 /10	DV	6F45	M-751 /03	CAV	6N01	M-1017 /01	MAX-D
6F29	M-109 /29	DV	6F34	M-750 /06	CAV	6F40	M-202 /08	CAV	6F45	M-762 /03	CAV	6N01	M-596 /01	MAX-D
6F29	M-201 /13	CAV	6F34	M-761 /06	CAV	6F40	M-539 /10	CAV	6F45	M-815 /03	CAV	6N01	M-596 /02	MAX-D
6F29	M-673 /01	CAV	6F34	M-814 /06	CAV	6F40	M-539 /11	CAV	6F45	RBL-022/13	CAV	6N01	M-596 /03	MAX-D
6F29	M-673 /02	CAV	6F34	RBL-022/02	CAV	6F40	M-539 /12	CAV	6F46	M-110 /16	DV	6N01	M-849 /03	PRP
6F29	M-673 /03	CAV	6F35	M-110 /05	DV	6F40	M-750 /12	CAV	6F46	M-202 /14	CAV	6N01	M-935 /01	PRP
6F29	M-750 /01	CAV	6F35	M-202 /03	CAV	6F40	M-761 /12	CAV	6F46	M-531 /04	CAV	6N02	69-1-1 /02	DV
6F29	M-761 /01	CAV	6F35	M-540 /07	CAV	6F40	M-814 /12	CAV	6F46	M-531 /05	CAV	6N02	69-11-1/02	CAV
6F29	M-814 /01	CAV	6F35	M-540 /08	CAV	6F40	RBL-022/08	CAV	6F46	M-531 /06	CAV	6N02	69-13-1/02	ETE
6F29	RBL-011/13	CAV	6F35	M-540 /09	CAV	6F41	M-110 /11	DV	6F46	M-751 /04	CAV	6N02	69-22-1/02	PRP
6F30	M-109 /30	DV	6F35	M-750 /07	CAV	6F41	M-202 /09	CAV	6F46	M-762 /04	CAV	6N02	69-26-1/02	PRP
6F30	M-201 /14	CAV	6F35	M-761 /07	CAV	6F41	M-533 /01	CAV	6F46	M-815 /04	CAV	6N02	69-34-1/02	PRP
6F30	M-673 /04	CAV	6F35	M-814 /07	CAV	6F41	M-533 /02	CAV	6F46	RBL-022/14	CAV	6N02	69-4-1 /02	MAX-D
6F30	M-673 /05	CAV	6F35	RBL-022/03	CAV	6F41	M-533 /03	CAV	6F47	M-110 /17	DV	6N02	M-476 /01	PRP
6F30	M-673 /06	CAV	6F36	M-110 /06	DV	6F41	M-750 /13	CAV	6F47	M-202 /15	CAV	6N02	M-669 /01	MAX-D
6F30	M-750 /02	CAV	6F36	M-202 /04	CAV	6F41	M-761 /13	CAV	6F47	M-531 /07	CAV	6N02	M-669 /02	MAX-D
6F30	M-761 /02	CAV	6F36	M-540 /10	CAV	6F41	M-814 /13	CAV	6F47	M-531 /08	CAV	6N02	M-669 /03	MAX-D
6F30	M-814 /02	CAV	6F36	M-540 /11	CAV	6F41	RBL-022/09	CAV	6F47	M-531 /09	CAV	6N02	M-849 /04	PRP
6F30	RBL-011/14	CAV	6F36	M-540 /12	CAV	6F42	M-110 /12	DV	6F47	M-751 /05	CAV	6N02	M-931 /01	PRP
6F31	M-110 /01	DV	6F36	M-750 /08	CAV	6F42	M-202 /10	CAV	6F47	M-762 /05	CAV	6N03	69-1-1 /03	DV
6F31	M-201 /15	CAV	6F36	M-761 /08	CAV	6F42	M-533 /04	CAV	6F47	M-815 /05	CAV	6N03	69-11-1/03	CAV
6F31	M-673 /07	CAV	6F36	M-814 /08	CAV	6F42	M-533 /05	CAV	6F47	RBL-022/15	CAV	6N03	69-13-1/03	ETE
6F31	M-673 /08	CAV	6F36	RBL-022/04	CAV	6F42	M-533 /06	CAV	6F48	M-110 /18	DV	6N03	69-22-1/03	PRF
6F31	M-673 /09	CAV	6F37	M-110 /07	DV	6F42	M-750 /14	CAV	6F48	M-202 /16	CAV	6N03	69-26-1/03	PRP
6F31	M-750 /03	CAV	6F37	M-202 /05	CAV	6F42	M-761 /14	CAV	6F48	M-532 /01	CAV	6N03	69-29-1/02	PRF
6F31	M-761 /03	CAV	6F37	M-539 /01	CAV	6F42	M-814 /14	CAV	6F48	M-532 /02	CAV	6N03	69-34-1/03	PRP
6F31	M-814 /03	CAV	6F37	M-539 /02	CAV	6F42	RBL-022/10	CAV	6F48	M-532 /03	CAV	6N03	69-4-1 /03	MAX-D
6F31	RBL-011/15	CAV	6F37	M-539 /03	CAV	6F43	M-110 /13	DV	6F48	M-751 /06	CAV	6N03	M-1017 /02	MAX-D
6F32	M-110 /02	DV	6F37	M-750 /09	CAV	6F43	M-202 /11	CAV	6F48	M-762 /06	CAV	6N03	M-596 /04	MAX-D
6F32	M-201 /16	CAV	6F37	M-761 /09	CAV	6F43	M-533 /07	CAV	6F48	M-815 /06	CAV	6N03	M-596 /05	MAX-D
6F32	M-673 /10	CAV	6F37	M-814 /09	CAV	6F43	M-533 /08	CAV	6F48	RBL-022/16	CAV	6N03	M-596 /06	MAX-D
6F32	M-673 /11	CAV	6F37	RBL-022/05	CAV	6F43	M-533 /09	CAV	6F49	M-110 /19	DV	6N03	M-849 /02	PRP
6F32	M-673 /12	CAV	6F38	M-110 /08	DV	6F43	M-751 /01	CAV	6F49	M-159 /01	CAV	6N03	M-892 /01	PRP
6F32	M-750 /04	CAV	6F38	M-202 /06	CAV	6F43	M-762 /01	CAV	6F49	M-203 /01	CAV	6N03	M-935 /02	PRP
6F32	M-761 /04	CAV	6F38	M-539 /04	CAV	6F43	M-815 /01	CAV	6F49	M-532 /04	CAV	6N04	69-1-1 /04	DV
6F32	M-814 /04	CAV	6F38	M-539 /05	CAV	6F43	RBL-022/11	CAV	6F49	M-532 /05	CAV	6N04	69-11-1/04	CAV
6F32	RBL-011/16	CAV	6F38	M-539 /06	CAV	6F44	M-110 /14	DV	6F49	M-532 /06	CAV	6N04	69-13-1/04	ETE

PIONO	TAPE/FILE	VERS	PIONO	TAPE/FILE	VERS	PIONO	TAPE/FILE	VERS	PIONO	TAPE/FILE	VERS	PIONO	TAPE/FILE	VERS
6N04	69-22-1/04	PRP	6N07	M-1017 /04	MAX-D	6N10	69-34-1/10	PRP	6N13	69-34-1/13	PRP	6N16	69-5-1 /16	MAX-D
6N04	69-26-1/04	PRP	6N07	M-519 /02	PRP	6N10	69-4-1 /10	MAX-D	6N13	69-4-1 /13	MAX-D	6N16	M-1057 /06	MAX-D
6N04	69-34-1/04	PRP	6N07	M-552 /01	FAV	6N10	M-1057 /03	MAX-D	6N13	M-1017 /07	MAX-D	6N16	M-496 /08	PRP
6N04	69-4-1 /04	MAX-D	6N07	M-552 /02	FAV	6N10	M-496 /05	PRP	6N13	M-519 /05	PRP	6N16	M-563 /04	FAV
6N04	M-496 /02	PRP	6N07	M-552 /03	FAV	6N10	M-586 /04	FAV	6N13	M-550 /01	FAV	6N16	M-563 /05	FAV
6N04	M-669 /04	MAX-D	6N07	M-609 /01	FAV	6N10	M-586 /05	FAV	6N13	M-550 /02	FAV	6N16	M-563 /06	FAV
6N04	M-669 /05	MAX-D	6N07	M-609 /02	FAV	6N10	M-586 /06	FAV	6N13	M-550 /03	FAV	6N16	M-613 /04	MAX-D
6N04	M-669 /06	MAX-D	6N07	M-609 /03	FAV	6N10	M-670 /01	MAX-D	6N13	M-589 /01	MAX-D	6N16	M-613 /05	MAX-D
6N04	M-849 /05	PRP	6N07	M-623 /01	MAX-D	6N10	M-670 /02	MAX-D	6N13	M-589 /02	MAX-D	6N16	M-613 /06	MAX-D
6N04	M-931 /02	PRP	6N07	M-623 /02	MAX-D	6N10	M-670 /03	MAX-D	6N13	M-589 /03	MAX-D	6N16	M-931 /08	PRP
6N05	69-1-1 /05	DV	6N07	M-623 /03	MAX-D	6N10	M-931 /05	PRP	6N13	M-693 /04	PRP	6N17	69-1-1 /17	DV
6N05	69-11-1/05	CAV	6N07	M-693 /01	PRP	6N11	69-1-1 /11	DV	6N14	69-1-1 /14	DV	6N17	69-12-1/04	CAV
6N05	69-13-1/05	ETE	6N08	69-1-1 /08	DV	6N11	69-11-1/11	CAV	6N14	69-12-1/01	CAV	6N17	69-13-1/17	ETE
6N05	69-22-1/05	PRP	6N08	69-11-1/08	CAV	6N11	69-13-1/11	ETE	6N14	69-13-1/14	ETE	6N17	69-23-1/04	PRP
6N05	69-26-1/05	PRP	6N08	69-13-1/08	ETE	6N11	69-22-1/11	PRP	6N14	69-23-1/01	PRP	6N17	69-27-1/04	PRP
6N05	69-29-1/03	PRP	6N08	69-22-1/08	PRP	6N11	69-26-1/11	PRP	6N14	69-27-1/01	PRP	6N17	69-29-1/09	PRP
6N05	69-34-1/05	PRP	6N08	69-26-1/08	PRP	6N11	69-29-1/06	PRP	6N14	69-35-1/01	PRP	6N17	69-35-1/04	PRP
6N05	69-4-1 /05	MAX-D	6N08	69-34-1/08	PRP	6N11	69-34-1/11	PRP	6N14	69-5-1 /14	MAX-D	6N17	69-5-1 /17	MAX-D
6N05	M-1017 /03	MAX-D	6N08	69-4-1 /08	MAX-D	6N11	69-4-1 /11	MAX-D	6N14	M-1057 /05	MAX-D	6N17	M-1017 /09	MAX-D
6N05	M-519 /01	PRP	6N08	M-1057 /02	MAX-D	6N11	M-1017 /06	MAX-D	6N14	M-496 /07	PRP	6N17	M-519 /07	PRP
6N05	M-594 /01	FAV	6N08	M-496 /04	PRP	6N11	M-519 /04	PRP	6N14	M-563 /01	FAV	6N17	M-550 /07	FAV
6N05	M-594 /02	FAV	6N08	M-586 /01	FAV	6N11	M-555 /01	FAV	6N14	M-563 /02	FAV	6N17	M-550 /08	FAV
6N05	M-594 /03	FAV	6N08	M-586 /02	FAV	6N11	M-555 /02	FAV	6N14	M-563 /03	FAV	6N17	M-550 /09	FAV
6N05	M-596 /07	MAX-D	6N08	M-586 /03	FAV	6N11	M-555 /03	FAV	6N14	M-613 /01	MAX-D	6N17	M-556 /01	FAV
6N05	M-596 /08	MAX-D	6N08	M-669 /10	MAX-D	6N11	M-597 /04	MAX-D	6N14	M-613 /02	MAX-D	6N17	M-556 /02	FAV
6N05	M-596 /09	MAX-D	6N08	M-669 /11	MAX-D	6N11	M-597 /05	MAX-D	6N14	M-613 /03	MAX-D	6N17	M-556 /03	FAV
6N05	M-849 /01	PRP	6N08	M-669 /12	MAX-D	6N11	M-597 /06	MAX-D	6N14	M-931 /07	PRP	6N17	M-589 /07	MAX-D
6N05	M-935 /03	PRP	6N08	M-931 /04	PRP	6N11	M-693 /03	PRP	6N15	69-1-1 /15	DV	6N17	M-589 /08	MAX-D
6N06	69-1-1 /06	DV	6N09	69-1-1 /09	DV	6N12	69-1-1 /12	DV	6N15	69-12-1/02	CAV	6N17	M-589 /09	MAX-D
6N06	69-11-1/06	CAV	6N09	69-11-1/09	CAV	6N12	69-11-1/12	CAV	6N15	69-13-1/15	ETE	6N17	M-693 /06	PRP
6N06	69-13-1/06	ETE	6N09	69-13-1/09	ETE	6N12	69-13-1/12	ETE	6N15	69-23-1/02	PRP	6N18	69-1-1 /18	DV
6N06	69-22-1/06	PRP	6N09	69-22-1/09	PRP	6N12	69-22-1/12	PRP	6N15	69-27-1/02	PRP	6N18	69-12-1/05	CAV
6N06	69-26-1/06	PRP	6N09	69-26-1/09	PRP	6N12	69-26-1/12	PRP	6N15	69-29-1/08	PRP	6N18	69-13-1/18	ETE
6N06	69-34-1/06	PRP	6N09	69-29-1/05	PRP	6N12	69-34-1/12	PRP	6N15	69-35-1/02	PRP	6N18	69-23-1/05	PRP
6N06	69-4-1 /06	MAX-D	6N09	69-34-1/09	PRP	6N12	69-4-1 /12	MAX-D	6N15	69-5-1 /15	MAX-D	6N18	69-27-1/05	PRP
6N06	M-1057 /01	MAX-D	6N09	69-4-1 /09	MAX-D	6N12	M-1057 /04	MAX-D	6N15	M-1017 /08	MAX-D	6N18	69-35-1/05	PRP
6N06	M-496 /03	PRP	6N09	M-1017 /05	MAX-D	6N12	M-496 /06	PRP	6N15	M-519 /06	PRP	6N18	69-5-1 /18	MAX-D
6N06	M-669 /07	MAX-D	6N09	M-519 /03	PRP	6N12	M-586 /07	FAV	6N15	M-550 /04	FAV	6N18	M-1057 /07	MAX-D
6N06	M-669 /08	MAX-D	6N09	M-552 /04	FAV	6N12	M-586 /08	FAV	6N15	M-550 /05	FAV	6N18	M-496 /09	PRP
6N06	M-669 /09	MAX-D	6N09	M-552 /05	FAV	6N12	M-586 /09	FAV	6N15	M-550 /06	FAV	6N18	M-563 /07	FAV
6N06	M-849 /06	PRP	6N09	M-552 /06	FAV	6N12	M-670 /04	MAX-D	6N15	M-589 /04	MAX-D	6N18	M-563 /08	FAV
6N06	M-931 /03	PRP	6N09	M-597 /01	MAX-D	6N12	M-670 /05	MAX-D	6N15	M-589 /05	MAX-D	6N18	M-563 /09	FAV
6N07	69-1-1 /07	DV	6N09	M-597 /02	MAX-D	6N12	M-670 /06	MAX-D	6N15	M-589 /06	MAX-D	6N18	M-613 /07	MAX-D
6N07	69-11-1/07	CAV	6N09	M-597 /03	MAX-D	6N12	M-931 /06	PRP	6N15	M-693 /05	PRP	6N18	M-613 /08	MAX-D
6N07	69-13-1/07	ETE	6N09	M-693 /02	PRP	6N13	69-1-1 /13	DV	6N16	69-1-1 /16	DV	6N18	M-613 /09	MAX-D
6N07	69-22-1/07	PRP	6N10	69-1-1 /10	DV	6N13	69-11-1/13	CAV	6N16	69-12-1/03	CAV	6N18	M-931 /09	PRP
6N07	69-26-1/07	PRP	6N10	69-11-1/10	CAV	6N13	69-13-1/13	ETE	6N16	69-13-1/16	ETE	6N19	69-1-1 /19	DV
6N07	69-29-1/04	PRP	6N10	69-13-1/10	ETE	6N13	69-22-1/13	PRP	6N16	69-23-1/03	PRP	6N19	69-12-1/06	CAV
6N07	69-34-1/07	PRP	6N10	69-22-1/10	PRP	6N13	69-26-1/13	PRP	6N16	69-27-1/03	PRP	6N19	69-13-1/19	ETE
6N07	69-4-1 /07	MAX-D	6N10	69-26-1/10	PRP	6N13	69-29-1/07	PRP	6N16	69-35-1/03	PRP	6N19	69-23-1/06	PRP

PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS
6N19	69-Z7-1/06	PRP	6NZ2	69-12-1/09	CAV	6NZ5	69-Z7-1/12	PRP	7F04	M-799 /04	CAV	7F11	M-160 /11	CAV
6N19	69-Z9-1/10	PRP	6NZ2	69-13-1/22	ETE	6NZ5	69-35-1/12	PRP	7F04	M-827 /04	CAV	7F11	M-204 /11	CAV
6N19	69-35-1/06	PRP	6NZ2	69-Z3-1/09	PRP	6NZ5	69-5-1 /25	MAX-D	7F04	RBL-006/04	CAV	7F11	M-724 /05	CAV
6N19	69-5-1 /19	MAX-D	6NZ2	69-Z7-1/09	PRP	6NZ5	M-519 /11	PRP	7F05	M-111 /05	DV	7F11	M-724 /06	CAV
6N19	M-1017 /10	MAX-D	6NZ2	69-35-1/09	PRP	6NZ5	M-611 /01	FAV	7F05	M-160 /05	CAV	7F11	M-752 /11	CAV
6N19	M-519 /08	PRP	6NZ2	69-5-1 /22	MAX-D	6NZ5	M-611 /02	FAV	7F05	M-204 /05	CAV	7F11	M-799 /11	CAV
6N19	M-550 /10	FAV	6NZ2	M-496 /11	PRP	6NZ5	M-611 /03	FAV	7F05	M-752 /05	CAV	7F11	M-827 /11	CAV
6N19	M-550 /11	FAV	6NZ2	M-564 /01	FAV	6NZ5	M-693 /10	PRP	7F05	M-799 /05	CAV	7F11	RBL-006/11	CAV
6N19	M-550 /12	FAV	6NZ2	M-564 /02	FAV	6NZ5	M-733 /01	MAX-D	7F05	M-827 /05	CAV	7F12	M-111 /12	DV
6N19	M-556 /04	FAV	6NZ2	M-564 /03	FAV	6NZ5	M-733 /02	MAX-D	7F05	RBL-006/05	CAV	7F12	M-160 /12	CAV
6N19	M-556 /05	FAV	6NZ2	M-614 /04	MAX-D	6NZ5	M-733 /03	MAX-D	7F06	M-111 /06	DV	7F12	M-204 /12	CAV
6N19	M-556 /06	FAV	6NZ2	M-614 /05	MAX-D	6NAA	69-15-1/03	MAX-D	7F06	M-160 /06	CAV	7F12	M-724 /07	CAV
6N19	M-589 /10	MAX-D	6NZ2	M-614 /06	MAX-D	6NAB	69-15-1/04	MAX-D	7F06	M-204 /06	CAV	7F12	M-724 /08	CAV
6N19	M-589 /11	MAX-D	6NZ2	M-931 /11	PRP	7F01	M-111 /01	DV	7F06	M-752 /06	CAV	7F12	M-752 /12	CAV
6N19	M-589 /12	MAX-D	6NZ3	69-1-1 /23	DV	7F01	M-160 /01	CAV	7F06	M-799 /06	CAV	7F12	M-799 /12	CAV
6N19	M-693 /07	PRP	6NZ3	69-12-1/10	CAV	7F01	M-204 /01	CAV	7F06	M-827 /06	CAV	7F12	M-827 /12	CAV
6NZ0	69-1-1 /20	DV	6NZ3	69-13-1/23	ETE	7F01	M-736 /01	CAV	7F06	RBL-006/06	CAV	7F12	RBL-006/12	CAV
6NZ0	69-12-1/07	CAV	6NZ3	69-Z3-1/10	PRP	7F01	M-736 /02	CAV	7F07	M-111 /07	DV	7F13	M-111 /13	DV
6NZ0	69-13-1/20	ETE	6NZ3	69-Z7-1/10	PRP	7F01	M-736 /03	CAV	7F07	M-160 /07	CAV	7F13	M-160 /13	CAV
6NZ0	69-Z3-1/07	PRP	6NZ3	69-Z9-1/12	PRP	7F01	M-752 /01	CAV	7F07	M-204 /07	CAV	7F13	M-204 /13	CAV
6NZ0	69-Z7-1/07	PRP	6NZ3	69-35-1/10	PRP	7F01	M-799 /01	CAV	7F07	M-752 /07	CAV	7F13	M-725 /01	CAV
6NZ0	69-35-1/07	PRP	6NZ3	69-5-1 /23	MAX-D	7F01	M-827 /01	CAV	7F07	M-799 /07	CAV	7F13	M-725 /02	CAV
6NZ0	69-5-1 /20	MAX-D	6NZ3	M-1017 /12	MAX-D	7F01	RBL-006/01	CAV	7F07	M-827 /07	CAV	7F13	M-725 /03	CAV
6NZ0	M-1057 /08	MAX-D	6NZ3	M-519 /10	PRP	7F02	M-111 /02	DV	7F07	RBL-006/07	CAV	7F13	M-752 /13	CAV
6NZ0	M-496 /10	PRP	6NZ3	M-590 /04	MAX-D	7F02	M-160 /02	CAV	7F08	M-111 /08	DV	7F13	M-799 /13	CAV
6NZ0	M-563 /10	FAV	6NZ3	M-590 /05	MAX-D	7F02	M-204 /02	CAV	7F08	M-160 /08	CAV	7F13	M-827 /13	CAV
6NZ0	M-563 /11	FAV	6NZ3	M-590 /06	MAX-D	7F02	M-736 /04	CAV	7F08	M-204 /08	CAV	7F13	RBL-006/13	CAV
6NZ0	M-563 /12	FAV	6NZ3	M-595 /04	FAV	7F02	M-736 /05	CAV	7F08	M-752 /08	CAV	7F14	M-111 /14	DV
6NZ0	M-614 /01	MAX-D	6NZ3	M-595 /05	FAV	7F02	M-736 /06	CAV	7F08	M-799 /08	CAV	7F14	M-160 /14	CAV
6NZ0	M-614 /02	MAX-D	6NZ3	M-595 /06	FAV	7F02	M-752 /02	CAV	7F08	M-827 /08	CAV	7F14	M-204 /14	CAV
6NZ0	M-614 /03	MAX-D	6NZ3	M-693 /09	PRP	7F02	M-799 /02	CAV	7F08	RBL-006/08	CAV	7F14	M-725 /04	CAV
6NZ0	M-931 /10	PRP	6NZ4	69-1-1 /24	DV	7F02	M-827 /02	CAV	7F09	M-111 /09	DV	7F14	M-725 /05	CAV
6NZ1	69-1-1 /21	DV	6NZ4	69-12-1/11	CAV	7F02	RBL-006/02	CAV	7F09	M-160 /09	CAV	7F14	M-725 /06	CAV
6NZ1	69-12-1/08	CAV	6NZ4	69-13-1/24	ETE	7F03	M-111 /03	DV	7F09	M-204 /09	CAV	7F14	M-752 /14	CAV
6NZ1	69-13-1/21	ETE	6NZ4	69-Z3-1/11	PRP	7F03	M-160 /03	CAV	7F09	M-724 /01	CAV	7F14	M-799 /14	CAV
6NZ1	69-Z3-1/08	PRP	6NZ4	69-Z7-1/11	PRP	7F03	M-204 /03	CAV	7F09	M-724 /02	CAV	7F14	M-827 /14	CAV
6NZ1	69-Z7-1/08	PRP	6NZ4	69-35-1/11	PRP	7F03	M-736 /07	CAV	7F09	M-752 /09	CAV	7F14	RBL-006/14	CAV
6NZ1	69-Z9-1/11	PRP	6NZ4	69-5-1 /24	MAX-D	7F03	M-736 /08	CAV	7F09	M-799 /09	CAV	7F15	M-111 /15	DV
6NZ1	69-35-1/08	PRP	6NZ4	M-496 /12	PRP	7F03	M-736 /09	CAV	7F09	M-827 /09	CAV	7F15	M-160 /15	CAV
6NZ1	69-5-1 /21	MAX-D	6NZ4	M-564 /04	FAV	7F03	M-752 /03	CAV	7F09	RBL-006/09	CAV	7F15	M-204 /15	CAV
6NZ1	M-1017 /11	MAX-D	6NZ4	M-564 /05	FAV	7F03	M-799 /03	CAV	7F10	M-111 /10	DV	7F15	M-636 /01	CAV
6NZ1	M-519 /09	PRP	6NZ4	M-564 /06	FAV	7F03	M-827 /03	CAV	7F10	M-160 /10	CAV	7F15	M-636 /02	CAV
6NZ1	M-590 /01	MAX-D	6NZ4	M-614 /07	MAX-D	7F03	RBL-006/03	CAV	7F10	M-204 /10	CAV	7F15	M-636 /03	CAV
6NZ1	M-590 /02	MAX-D	6NZ4	M-614 /08	MAX-D	7F04	M-111 /04	DV	7F10	M-724 /03	CAV	7F15	M-753 /01	CAV
6NZ1	M-590 /03	MAX-D	6NZ4	M-614 /09	MAX-D	7F04	M-160 /04	CAV	7F10	M-724 /04	CAV	7F15	M-828 /01	CAV
6NZ1	M-595 /01	FAV	6NZ4	M-931 /12	PRP	7F04	M-204 /04	CAV	7F10	M-752 /10	CAV	7F15	RBL-006/15	CAV
6NZ1	M-595 /02	FAV	6NZ5	69-1-1 /25	DV	7F04	M-736 /10	CAV	7F10	M-799 /10	CAV	7F16	M-111 /16	DV
6NZ1	M-595 /03	FAV	6NZ5	69-12-1/12	CAV	7F04	M-736 /11	CAV	7F10	M-827 /10	CAV	7F16	M-160 /16	CAV
6NZ1	M-693 /08	PRP	6NZ5	69-13-1/25	ETE	7F04	M-736 /12	CAV	7F10	RBL-006/10	CAV	7F16	M-204 /16	CAV
6NZ2	69-1-1 /22	DV	6NZ5	69-Z3-1/12	PRP	7F04	M-752 /04	CAV	7F11	M-111 /11	DV	7F16	M-636 /04	CAV

MARINER 6 AND 7 SOURCE TAPE CATALOG

PICNO	TAPE/FILE	VERS
7F16	M-636 /05	CAV
7F16	M-636 /06	CAV
7F16	M-753 /02	CAV
7F16	M-828 /02	CAV
7F16	RBL-006/16	CAV
7F17	M-111 /17	DV
7F17	M-161 /01	CAV
7F17	M-205 /01	CAV
7F17	M-636 /07	CAV
7F17	M-636 /08	CAV
7F17	M-636 /09	CAV
7F17	M-729 /01	CAV
7F17	M-729 /02	CAV
7F17	M-729 /03	CAV
7F17	M-753 /03	CAV
7F17	M-828 /03	CAV
7F17	RBL-020/01	CAV
7F18	M-111 /18	DV
7F18	M-161 /02	CAV
7F18	M-205 /02	CAV
7F18	M-636 /10	CAV
7F18	M-636 /11	CAV
7F18	M-636 /12	CAV
7F18	M-729 /04	CAV
7F18	M-729 /05	CAV
7F18	M-729 /06	CAV
7F18	M-753 /04	CAV
7F18	M-828 /04	CAV
7F18	RBL-020/02	CAV
7F19	M-111 /19	DV
7F19	M-161 /03	CAV
7F19	M-205 /03	CAV
7F19	M-730 /01	CAV
7F19	M-730 /02	CAV
7F19	M-730 /03	CAV
7F19	M-753 /05	CAV
7F19	M-828 /05	CAV
7F19	RBL-020/03	CAV
7F20	M-111 /20	DV
7F20	M-161 /04	CAV
7F20	M-205 /04	CAV
7F20	M-730 /04	CAV
7F20	M-730 /05	CAV
7F20	M-730 /06	CAV
7F20	M-753 /06	CAV
7F20	M-828 /06	CAV
7F20	RBL-020/04	CAV
7F21	M-111 /21	DV
7F21	M-161 /05	CAV
7F21	M-205 /05	CAV
7F21	M-730 /07	CAV
7F21	M-730 /08	CAV
7F21	M-730 /09	CAV
7F21	M-753 /07	CAV
7F21	M-828 /07	CAV
7F21	RBL-020/05	CAV
7F22	M-111 /22	DV
7F22	M-161 /06	CAV
7F22	M-205 /06	CAV
7F22	M-730 /10	CAV
7F22	M-730 /11	CAV
7F22	M-730 /12	CAV
7F22	M-753 /08	CAV
7F22	M-828 /08	CAV
7F22	RBL-020/06	CAV
7F23	M-111 /23	DV
7F23	M-161 /07	CAV
7F23	M-205 /07	CAV
7F23	M-722 /01	CAV
7F23	M-722 /02	CAV
7F23	M-722 /03	CAV
7F23	M-753 /09	CAV
7F23	M-828 /09	CAV
7F23	RBL-020/07	CAV
7F24	M-111 /24	DV
7F24	M-161 /08	CAV
7F24	M-205 /08	CAV
7F24	M-722 /04	CAV
7F24	M-722 /05	CAV
7F24	M-722 /06	CAV
7F24	M-753 /10	CAV
7F24	M-828 /10	CAV
7F24	RBL-020/08	CAV
7F25	M-111 /25	DV
7F25	M-161 /09	CAV
7F25	M-205 /09	CAV
7F25	M-722 /07	CAV
7F25	M-722 /08	CAV
7F25	M-722 /09	CAV
7F25	M-753 /11	CAV
7F25	M-828 /11	CAV
7F25	RBL-020/09	CAV
7F26	M-111 /26	DV
7F26	M-161 /10	CAV
7F26	M-205 /10	CAV
7F26	M-722 /10	CAV
7F26	M-722 /11	CAV
7F26	M-722 /12	CAV
7F26	M-734 /01	CAV
7F26	M-734 /02	CAV
7F26	M-734 /03	CAV
7F26	M-753 /12	CAV
7F26	M-828 /12	CAV
7F26	RBL-020/10	CAV
7F27	M-111 /27	DV
7F27	M-161 /11	CAV
7F27	M-205 /11	CAV
7F27	M-723 /01	CAV
7F27	M-723 /02	CAV
7F27	M-723 /03	CAV
7F27	M-753 /13	CAV
7F27	M-828 /13	CAV
7F27	RBL-020/11	CAV
7F28	M-111 /28	DV
7F28	M-161 /12	CAV
7F28	M-205 /12	CAV
7F28	M-723 /04	CAV
7F28	M-723 /05	CAV
7F28	M-723 /06	CAV
7F28	M-753 /14	CAV
7F28	M-828 /14	CAV
7F28	RBL-020/12	CAV
7F29	M-112 /01	DV
7F29	M-161 /13	CAV
7F29	M-205 /13	CAV
7F29	M-723 /07	CAV
7F29	M-723 /08	CAV
7F29	M-723 /09	CAV
7F29	M-754 /01	CAV
7F29	M-829 /01	CAV
7F29	RBL-020/13	CAV
7F30	M-112 /02	DV
7F30	M-161 /14	CAV
7F30	M-205 /14	CAV
7F30	M-723 /10	CAV
7F30	M-723 /11	CAV
7F30	M-723 /12	CAV
7F30	M-754 /02	CAV
7F30	M-829 /02	CAV
7F30	RBL-020/14	CAV
7F31	M-112 /03	DV
7F31	M-161 /15	CAV
7F31	M-205 /15	CAV
7F31	M-719 /01	CAV
7F31	M-719 /02	CAV
7F31	M-719 /03	CAV
7F31	M-754 /03	CAV
7F31	M-808 /01	CAV
7F31	M-829 /03	CAV
7F31	RBL-020/15	CAV
7F32	M-112 /04	DV
7F32	M-161 /16	CAV
7F32	M-205 /16	CAV
7F32	M-719 /04	CAV
7F32	M-719 /05	CAV
7F32	M-719 /06	CAV
7F32	M-754 /04	CAV
7F32	M-808 /02	CAV
7F32	M-829 /04	CAV
7F32	RBL-020/16	CAV
7F33	M-112 /05	DV
7F33	M-162 /01	CAV
7F33	M-206 /01	CAV
7F33	M-719 /07	CAV
7F33	M-719 /08	CAV
7F33	M-719 /09	CAV
7F33	M-754 /05	CAV
7F33	M-808 /03	CAV
7F33	M-829 /05	CAV
7F33	RBL-019/01	CAV
7F34	M-112 /06	DV
7F35	M-112 /07	DV
7F35	M-162 /02	CAV
7F35	M-206 /02	CAV
7F35	M-634 /01	CAV
7F35	M-634 /02	CAV
7F35	M-634 /03	CAV
7F35	M-754 /06	CAV
7F35	M-829 /06	CAV
7F35	RBL-019/02	CAV
7F36	M-112 /08	DV
7F36	M-162 /03	CAV
7F36	M-206 /03	CAV
7F36	M-634 /04	CAV
7F36	M-634 /05	CAV
7F36	M-634 /06	CAV
7F36	M-754 /07	CAV
7F36	M-829 /07	CAV
7F36	RBL-019/03	CAV
7F37	M-112 /09	DV
7F37	M-162 /04	CAV
7F37	M-206 /04	CAV
7F37	M-634 /07	CAV
7F37	M-634 /08	CAV
7F37	M-634 /09	CAV
7F37	M-754 /08	CAV
7F37	M-829 /08	CAV
7F37	RBL-019/04	CAV
7F38	M-112 /10	DV
7F38	M-162 /05	CAV
7F38	M-206 /05	CAV
7F38	M-634 /10	CAV
7F38	M-634 /11	CAV
7F38	M-634 /12	CAV
7F38	M-754 /09	CAV
7F38	M-829 /09	CAV
7F38	RBL-019/05	CAV
7F39	M-112 /11	DV
7F39	M-162 /06	CAV
7F39	M-206 /06	CAV
7F39	M-518 /01	CAV
7F39	M-518 /02	CAV
7F39	M-518 /03	CAV
7F39	M-754 /10	CAV
7F39	M-829 /10	CAV
7F39	RBL-019/06	CAV
7F40	M-112 /12	DV
7F40	M-162 /07	CAV
7F40	M-206 /07	CAV
7F40	M-518 /04	CAV
7F40	M-518 /05	CAV
7F40	M-518 /06	CAV
7F40	M-754 /11	CAV
7F40	M-829 /11	CAV
7F40	RBL-019/07	CAV
7F41	M-112 /13	DV
7F41	M-162 /08	CAV
7F41	M-206 /08	CAV
7F41	M-518 /07	CAV
7F41	M-518 /08	CAV
7F41	M-518 /09	CAV
7F41	M-754 /12	CAV
7F41	M-829 /12	CAV
7F41	RBL-019/08	CAV
7F42	M-112 /14	DV
7F42	M-162 /09	CAV
7F42	M-206 /09	CAV
7F42	M-518 /10	CAV
7F42	M-518 /11	CAV
7F42	M-518 /12	CAV
7F42	M-754 /13	CAV
7F42	M-829 /13	CAV
7F42	RBL-019/09	CAV
7F43	M-112 /15	DV
7F43	M-162 /10	CAV
7F43	M-206 /10	CAV
7F43	M-522 /01	CAV
7F43	M-522 /02	CAV
7F43	M-522 /03	CAV
7F43	M-754 /14	CAV

PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS
7F43	RBL-019/10	CAV	7F48	RBL-026/02	CAV	7F53	RBL-026/07	CAV	7F58	RBL-026/12	CAV	7F64	M-164 /02	CAV
7F44	M-112 /16	DV	7F49	M-112 /21	DV	7F54	M-112 /26	DV	7F59	M-113 /05	DV	7F64	M-238 /02	CAV
7F44	M-162 /11	CAV	7F49	M-163 /03	CAV	7F54	M-163 /08	CAV	7F59	M-163 /13	CAV	7F64	M-508 /04	CAV
7F44	M-206 /11	CAV	7F49	M-207 /03	CAV	7F54	M-207 /08	CAV	7F59	M-207 /13	CAV	7F64	M-508 /05	CAV
7F44	M-522 /04	CAV	7F49	M-548 /07	CAV	7F54	M-547 /10	CAV	7F59	M-523 /01	CAV	7F64	M-508 /06	CAV
7F44	M-522 /05	CAV	7F49	M-548 /08	CAV	7F54	M-547 /11	CAV	7F59	M-523 /02	CAV	7F64	M-756 /07	CAV
7F44	M-522 /06	CAV	7F49	M-548 /09	CAV	7F54	M-547 /12	CAV	7F59	M-523 /03	CAV	7F64	M-824 /07	CAV
7F44	M-755 /01	CAV	7F49	M-755 /06	CAV	7F54	M-755 /11	CAV	7F59	M-756 /02	CAV	7F64	M-831 /07	CAV
7F44	M-823 /01	CAV	7F49	M-823 /06	CAV	7F54	M-823 /11	CAV	7F59	M-824 /02	CAV	7F64	RBL-009/02	CAV
7F44	M-830 /01	CAV	7F49	M-830 /06	CAV	7F54	M-830 /11	CAV	7F59	M-831 /02	CAV	7F65	M-113 /11	DV
7F44	RBL-019/11	CAV	7F49	RBL-026/03	CAV	7F54	RBL-026/08	CAV	7F59	RBL-026/13	CAV	7F65	M-164 /03	CAV
7F45	M-112 /17	DV	7F50	M-112 /22	DV	7F55	M-113 /01	DV	7F60	M-113 /06	DV	7F65	M-238 /03	CAV
7F45	M-162 /12	CAV	7F50	M-163 /04	CAV	7F55	M-163 /09	CAV	7F60	M-163 /14	CAV	7F65	M-508 /07	CAV
7F45	M-206 /12	CAV	7F50	M-207 /04	CAV	7F55	M-207 /09	CAV	7F60	M-207 /14	CAV	7F65	M-508 /08	CAV
7F45	M-522 /07	CAV	7F50	M-548 /10	CAV	7F55	M-517 /01	CAV	7F60	M-523 /04	CAV	7F65	M-508 /09	CAV
7F45	M-522 /08	CAV	7F50	M-548 /11	CAV	7F55	M-517 /02	CAV	7F60	M-523 /05	CAV	7F65	M-756 /08	CAV
7F45	M-522 /09	CAV	7F50	M-548 /12	CAV	7F55	M-517 /03	CAV	7F60	M-523 /06	CAV	7F65	M-824 /08	CAV
7F45	M-755 /02	CAV	7F50	M-755 /07	CAV	7F55	M-755 /12	CAV	7F60	M-756 /03	CAV	7F65	M-831 /08	CAV
7F45	M-823 /02	CAV	7F50	M-823 /07	CAV	7F55	M-823 /12	CAV	7F60	M-824 /03	CAV	7F65	RBL-009/03	CAV
7F45	M-830 /02	CAV	7F50	M-830 /07	CAV	7F55	M-830 /12	CAV	7F60	M-831 /03	CAV	7F66	M-113 /12	DV
7F45	RBL-019/12	CAV	7F50	RBL-026/04	CAV	7F55	RBL-026/09	CAV	7F60	RBL-026/14	CAV	7F66	M-164 /04	CAV
7F46	M-112 /18	DV	7F51	M-112 /23	DV	7F56	M-113 /02	DV	7F61	M-113 /07	DV	7F66	M-238 /04	CAV
7F46	M-162 /13	CAV	7F51	M-163 /05	CAV	7F56	M-163 /10	CAV	7F61	M-163 /15	CAV	7F66	M-508 /10	CAV
7F46	M-206 /13	CAV	7F51	M-207 /05	CAV	7F56	M-207 /10	CAV	7F61	M-523 /07	CAV	7F66	M-508 /11	CAV
7F46	M-522 /10	CAV	7F51	M-547 /01	CAV	7F56	M-517 /04	CAV	7F61	M-523 /08	CAV	7F66	M-508 /12	CAV
7F46	M-522 /11	CAV	7F51	M-547 /02	CAV	7F56	M-517 /05	CAV	7F61	M-523 /09	CAV	7F66	M-756 /09	CAV
7F46	M-522 /12	CAV	7F51	M-547 /03	CAV	7F56	M-517 /06	CAV	7F61	M-756 /04	CAV	7F66	M-824 /09	CAV
7F46	M-755 /03	CAV	7F51	M-755 /08	CAV	7F56	M-755 /13	CAV	7F61	M-824 /04	CAV	7F66	M-831 /09	CAV
7F46	M-823 /03	CAV	7F51	M-823 /08	CAV	7F56	M-823 /13	CAV	7F61	M-831 /04	CAV	7F66	RBL-009/04	CAV
7F46	M-830 /03	CAV	7F51	M-830 /08	CAV	7F56	M-830 /13	CAV	7F61	RBL-026/15	CAV	7F67	M-113 /13	DV
7F46	RBL-019/13	CAV	7F51	RBL-026/05	CAV	7F56	RBL-026/10	CAV	7F62	M-113 /08	DV	7F67	M-164 /05	CAV
7F47	M-112 /19	DV	7F52	M-112 /24	DV	7F57	M-113 /03	DV	7F62	M-163 /16	CAV	7F67	M-238 /05	CAV
7F47	M-163 /01	CAV	7F52	M-163 /06	CAV	7F57	M-163 /11	CAV	7F62	M-523 /10	CAV	7F67	M-515 /01	CAV
7F47	M-207 /01	CAV	7F52	M-207 /06	CAV	7F57	M-207 /11	CAV	7F62	M-523 /11	CAV	7F67	M-515 /02	CAV
7F47	M-548 /01	CAV	7F52	M-547 /04	CAV	7F57	M-517 /07	CAV	7F62	M-523 /12	CAV	7F67	M-515 /03	CAV
7F47	M-548 /02	CAV	7F52	M-547 /05	CAV	7F57	M-517 /08	CAV	7F62	M-756 /05	CAV	7F67	M-756 /10	CAV
7F47	M-548 /03	CAV	7F52	M-547 /06	CAV	7F57	M-517 /09	CAV	7F62	M-824 /05	CAV	7F67	M-824 /10	CAV
7F47	M-755 /04	CAV	7F52	M-755 /09	CAV	7F57	M-755 /14	CAV	7F62	M-831 /05	CAV	7F67	M-831 /10	CAV
7F47	M-823 /04	CAV	7F52	M-823 /09	CAV	7F57	M-823 /14	CAV	7F62	RBL-026/16	CAV	7F67	RBL-009/05	CAV
7F47	M-830 /04	CAV	7F52	M-830 /09	CAV	7F57	M-830 /14	CAV	7F63	M-113 /09	DV	7F68	M-113 /14	DV
7F47	RBL-026/01	CAV	7F52	RBL-026/06	CAV	7F57	RBL-026/11	CAV	7F63	M-164 /01	CAV	7F68	M-515 /04	CAV
7F48	M-112 /20	DV	7F53	M-112 /25	DV	7F58	M-113 /04	DV	7F63	M-238 /01	CAV	7F68	M-515 /05	CAV
7F48	M-163 /02	CAV	7F53	M-163 /07	CAV	7F58	M-163 /12	CAV	7F63	M-508 /01	CAV	7F68	M-515 /06	CAV
7F48	M-207 /02	CAV	7F53	M-207 /07	CAV	7F58	M-207 /12	CAV	7F63	M-508 /02	CAV	7F69	M-113 /15	DV
7F48	M-548 /04	CAV	7F53	M-547 /07	CAV	7F58	M-517 /10	CAV	7F63	M-508 /03	CAV	7F69	M-164 /06	CAV
7F48	M-548 /05	CAV	7F53	M-547 /08	CAV	7F58	M-517 /11	CAV	7F63	M-756 /06	CAV	7F69	M-238 /06	CAV
7F48	M-548 /06	CAV	7F53	M-547 /09	CAV	7F58	M-517 /12	CAV	7F63	M-824 /06	CAV	7F69	M-515 /07	CAV
7F48	M-755 /05	CAV	7F53	M-755 /10	CAV	7F58	M-756 /01	CAV	7F63	M-831 /06	CAV	7F69	M-515 /08	CAV
7F48	M-823 /05	CAV	7F53	M-823 /10	CAV	7F58	M-824 /01	CAV	7F63	RBL-009/01	CAV	7F69	M-515 /09	CAV
7F48	M-830 /05	CAV	7F53	M-830 /10	CAV	7F58	M-831 /01	CAV	7F64	M-113 /10	DV	7F69	M-756 /11	CAV

PIONO	TAPE/FILE	VERS	PIONO	TAPE/FILE	VERS	PIONO	TAPE/FILE	VERS	PIONO	TAPE/FILE	VERS	PIONO	TAPE/FILE	VERS
7F69	M-824 /11	CAV	7F74	M-494 /12	CAV	7F79	M-239 /01	CAV	7F84	M-239 /06	CAV	7F89	M-239 /11	CAV
7F69	M-831 /11	CAV	7F74	M-510 /04	CAV	7F79	M-707 /01	CAV	7F84	M-708 /04	CAV	7F89	M-507 /07	CAV
7F69	RBL-009/06	CAV	7F74	M-510 /05	CAV	7F79	M-707 /02	CAV	7F84	M-708 /05	CAV	7F89	M-507 /08	CAV
7F70	M-113 /16	DV	7F74	M-510 /06	CAV	7F79	M-707 /03	CAV	7F84	M-708 /06	CAV	7F89	M-507 /09	CAV
7F70	M-164 /07	CAV	7F74	M-757 /02	CAV	7F79	M-757 /07	CAV	7F84	M-757 /12	CAV	7F89	M-758 /03	CAV
7F70	M-238 /07	CAV	7F74	M-825 /02	CAV	7F79	M-825 /07	CAV	7F84	M-825 /12	CAV	7F89	M-826 /03	CAV
7F70	M-515 /10	CAV	7F74	M-832 /02	CAV	7F79	M-832 /07	CAV	7F84	M-832 /12	CAV	7F89	M-833 /03	CAV
7F70	M-515 /11	CAV	7F74	RBL-009/11	CAV	7F79	RBL-021/01	CAV	7F84	RBL-021/06	CAV	7F89	RBL-021/11	CAV
7F70	M-515 /12	CAV	7F75	M-113 /21	DV	7F80	M-114 /02	DV	7F85	M-114 /07	DV	7F90	M-114 /12	DV
7F70	M-756 /12	CAV	7F75	M-164 /12	CAV	7F80	M-165 /02	CAV	7F85	M-165 /07	CAV	7F90	M-165 /12	CAV
7F70	M-824 /12	CAV	7F75	M-238 /12	CAV	7F80	M-239 /02	CAV	7F85	M-239 /07	CAV	7F90	M-239 /12	CAV
7F70	M-831 /12	CAV	7F75	M-510 /07	CAV	7F80	M-707 /04	CAV	7F85	M-708 /07	CAV	7F90	M-507 /10	CAV
7F70	RBL-009/07	CAV	7F75	M-510 /08	CAV	7F80	M-707 /05	CAV	7F85	M-708 /08	CAV	7F90	M-507 /11	CAV
7F71	M-113 /17	DV	7F75	M-510 /09	CAV	7F80	M-707 /06	CAV	7F85	M-708 /09	CAV	7F90	M-507 /12	CAV
7F71	M-164 /08	CAV	7F75	M-757 /03	CAV	7F80	M-757 /08	CAV	7F85	M-757 /13	CAV	7F90	M-758 /04	CAV
7F71	M-238 /08	CAV	7F75	M-825 /03	CAV	7F80	M-825 /08	CAV	7F85	M-825 /13	CAV	7F90	M-826 /04	CAV
7F71	M-494 /01	CAV	7F75	M-832 /03	CAV	7F80	M-832 /08	CAV	7F85	M-832 /13	CAV	7F90	M-833 /04	CAV
7F71	M-494 /02	CAV	7F75	RBL-009/12	CAV	7F80	RBL-021/02	CAV	7F85	RBL-021/07	CAV	7F90	RBL-021/12	CAV
7F71	M-494 /03	CAV	7F76	M-113 /22	DV	7F81	M-114 /03	DV	7F86	M-114 /08	DV	7F91	M-114 /13	DV
7F71	M-756 /13	CAV	7F76	M-164 /13	CAV	7F81	M-165 /03	CAV	7F86	M-165 /08	CAV	7F91	M-165 /13	CAV
7F71	M-824 /13	CAV	7F76	M-238 /13	CAV	7F81	M-239 /03	CAV	7F86	M-239 /08	CAV	7F91	M-239 /13	CAV
7F71	M-831 /13	CAV	7F76	M-525 /01	CAV	7F81	M-707 /07	CAV	7F86	M-708 /10	CAV	7F91	M-514 /01	CAV
7F71	RBL-009/08	CAV	7F76	M-525 /02	CAV	7F81	M-707 /08	CAV	7F86	M-708 /11	CAV	7F91	M-514 /02	CAV
7F72	M-113 /18	DV	7F76	M-525 /03	CAV	7F81	M-707 /09	CAV	7F86	M-708 /12	CAV	7F91	M-514 /03	CAV
7F72	M-164 /09	CAV	7F76	M-757 /04	CAV	7F81	M-757 /09	CAV	7F86	M-757 /14	CAV	7F91	M-758 /05	CAV
7F72	M-238 /09	CAV	7F76	M-825 /04	CAV	7F81	M-825 /09	CAV	7F86	M-825 /14	CAV	7F91	M-826 /05	CAV
7F72	M-494 /04	CAV	7F76	M-832 /04	CAV	7F81	M-832 /09	CAV	7F86	M-832 /14	CAV	7F91	M-833 /05	CAV
7F72	M-494 /05	CAV	7F76	RBL-009/13	CAV	7F81	RBL-021/03	CAV	7F86	RBL-021/08	CAV	7F91	RBL-021/13	CAV
7F72	M-494 /06	CAV	7F77	M-113 /23	DV	7F82	M-114 /04	DV	7F87	M-114 /09	DV	7F92	M-114 /14	DV
7F72	M-756 /14	CAV	7F77	M-164 /14	CAV	7F82	M-165 /04	CAV	7F87	M-165 /09	CAV	7F92	M-165 /14	CAV
7F72	M-824 /14	CAV	7F77	M-238 /14	CAV	7F82	M-239 /04	CAV	7F87	M-239 /09	CAV	7F92	M-239 /14	CAV
7F72	M-831 /14	CAV	7F77	M-525 /04	CAV	7F82	M-707 /10	CAV	7F87	M-507 /01	CAV	7F92	M-514 /04	CAV
7F72	RBL-009/09	CAV	7F77	M-525 /05	CAV	7F82	M-707 /11	CAV	7F87	M-507 /02	CAV	7F92	M-514 /05	CAV
7F73	M-113 /19	DV	7F77	M-525 /06	CAV	7F82	M-707 /12	CAV	7F87	M-507 /03	CAV	7F92	M-514 /06	CAV
7F73	M-164 /10	CAV	7F77	M-757 /05	CAV	7F82	M-757 /10	CAV	7F87	M-758 /01	CAV	7F92	M-758 /06	CAV
7F73	M-238 /10	CAV	7F77	M-825 /05	CAV	7F82	M-825 /10	CAV	7F87	M-826 /01	CAV	7F92	M-826 /06	CAV
7F73	M-494 /07	CAV	7F77	M-832 /05	CAV	7F82	M-832 /10	CAV	7F87	M-833 /01	CAV	7F92	M-833 /06	CAV
7F73	M-494 /08	CAV	7F77	RBL-009/14	CAV	7F82	RBL-021/04	CAV	7F87	RBL-021/09	CAV	7F92	RBL-021/14	CAV
7F73	M-494 /09	CAV	7F78	M-113 /24	DV	7F83	M-114 /05	DV	7F88	M-114 /10	DV	7F93	M-114 /15	DV
7F73	M-510 /01	CAV	7F78	M-164 /15	CAV	7F83	M-165 /05	CAV	7F88	M-165 /10	CAV	7F93	M-165 /15	CAV
7F73	M-510 /02	CAV	7F78	M-238 /15	CAV	7F83	M-239 /05	CAV	7F88	M-239 /10	CAV	7F93	M-239 /15	CAV
7F73	M-510 /03	CAV	7F78	M-525 /07	CAV	7F83	M-708 /01	CAV	7F88	M-507 /04	CAV	7F93	M-514 /07	CAV
7F73	M-757 /01	CAV	7F78	M-525 /08	CAV	7F83	M-708 /02	CAV	7F88	M-507 /05	CAV	7F93	M-514 /08	CAV
7F73	M-825 /01	CAV	7F78	M-525 /09	CAV	7F83	M-708 /03	CAV	7F88	M-507 /06	CAV	7F93	M-514 /09	CAV
7F73	M-832 /01	CAV	7F78	M-757 /06	CAV	7F83	M-757 /11	CAV	7F88	M-758 /02	CAV	7F93	M-758 /07	CAV
7F73	RBL-009/10	CAV	7F78	M-825 /06	CAV	7F83	M-825 /11	CAV	7F88	M-826 /02	CAV	7F93	M-826 /07	CAV
7F74	M-113 /20	DV	7F78	M-832 /06	CAV	7F83	M-832 /11	CAV	7F88	M-833 /02	CAV	7F93	M-833 /07	CAV
7F74	M-164 /11	CAV	7F78	RBL-009/15	CAV	7F83	RBL-021/05	CAV	7F88	RBL-021/10	CAV	7F93	RBL-021/15	CAV
7F74	M-238 /11	CAV	7F79	M-114 /01	DV	7F84	M-114 /06	DV	7F89	M-114 /11	DV	7N01	69-14-1/01	ETE
7F74	M-494 /11	CAV	7F79	M-165 /01	CAV	7F84	M-165 /06	CAV	7F89	M-165 /11	CAV	7N01	69-19-1/01	PRP

MARINER 6 AND 7 SOURCE TAPE CATALOG

PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS
7N01	69-2-1 /01	DV	7N03	ED-0006/16	DV	7N04	ED-0008/25	DV	7N06	ED-0014/03	DV	7N06	ED-0022/07	DV
7N01	69-30-1/01	PRP	7N03	ED-0006/17	DV	7N04	M-528 /02	PRP	7N06	ED-0014/05	DV	7N06	ED-0022/08	DV
7N01	69-32-1/01	PRP	7N03	ED-0006/18	DV	7N04	M-569 /01	FAV	7N06	ED-0014/06	DV	7N06	ED-0022/09	DV
7N01	69-36-1/01	PRP	7N03	ED-0006/19	DV	7N04	M-569 /02	FAV	7N06	ED-0014/07	DV	7N06	ED-0022/10	DV
7N01	69-6-1 /01	MAX-D	7N03	ED-0006/20	DV	7N04	M-569 /03	FAV	7N06	ED-0014/08	DV	7N06	ED-0022/11	DV
7N01	69-9-1 /01	CAV	7N03	ED-0006/21	DV	7N04	M-628 /04	MAX-D	7N06	ED-0014/09	DV	7N06	ED-0022/12	DV
7N01	M-534 /01	PRP	7N03	ED-0006/22	DV	7N04	M-628 /05	MAX-D	7N06	ED-0014/16	DV	7N06	ED-0022/13	DV
7N01	M-607 /01	MAX-D	7N03	ED-0006/23	DV	7N04	M-628 /06	MAX-D	7N06	ED-0014/17	DV	7N06	ED-0022/14	DV
7N01	M-607 /02	MAX-D	7N03	ED-0006/24	DV	7N04	M-775 /01	MAX-D	7N06	ED-0014/18	DV	7N06	ED-0022/15	DV
7N01	M-607 /03	MAX-D	7N03	ED-0006/25	DV	7N04	M-775 /02	MAX-D	7N06	ED-0014/19	DV	7N06	ED-0022/16	DV
7N01	M-645 /01	MAX-D	7N03	M-534 /02	PRP	7N04	M-775 /03	MAX-D	7N06	ED-0014/20	DV	7N06	M-1058 /01	MAX-D
7N01	M-651 /01	MAX-D	7N03	M-607 /04	MAX-D	7N04	M-780 /01	MAX-D	7N06	ED-0014/21	DV	7N06	M-528 /03	PRP
7N01	M-710 /10	FAV	7N03	M-607 /05	MAX-D	7N04	M-804 /02	PRP	7N06	ED-0014/22	DV	7N06	M-569 /04	FAV
7N01	M-710 /11	FAV	7N03	M-607 /06	MAX-D	7N04	M-923 /02	PRP	7N06	ED-0014/23	DV	7N06	M-569 /05	FAV
7N01	M-710 /12	FAV	7N03	M-645 /02	MAX-D	7N05	69-14-1/05	ETE	7N06	ED-0014/24	DV	7N06	M-569 /06	FAV
7N02	69-14-1/02	ETE	7N03	M-651 /02	MAX-D	7N05	69-19-1/05	PRP	7N06	ED-0014/25	DV	7N06	M-628 /07	MAX-D
7N02	69-19-1/02	PRP	7N03	M-710 /07	FAV	7N05	69-2-1 /05	DV	7N06	ED-0016/01	DV	7N06	M-628 /08	MAX-D
7N02	69-2-1 /02	DV	7N03	M-710 /08	FAV	7N05	69-30-1/03	PRP	7N06	ED-0016/02	DV	7N06	M-628 /09	MAX-D
7N02	69-36-1/02	PRP	7N03	M-710 /09	FAV	7N05	69-32-1/03	PRP	7N06	ED-0016/03	DV	7N06	M-775 /04	MAX-D
7N02	69-6-1 /02	MAX-D	7N04	69-14-1/04	ETE	7N05	69-36-1/05	PRP	7N06	ED-0016/04	DV	7N06	M-775 /05	MAX-D
7N02	69-9-1 /02	CAV	7N04	69-19-1/04	PRP	7N05	69-6-1 /05	MAX-D	7N06	ED-0016/05	DV	7N06	M-775 /06	MAX-D
7N02	M-528 /01	PRP	7N04	69-2-1 /04	DV	7N05	69-9-1 /05	CAV	7N06	ED-0016/06	DV	7N06	M-780 /02	MAX-D
7N02	M-628 /01	MAX-D	7N04	69-36-1/04	PRP	7N05	ED-0008/12	DV	7N06	ED-0016/07	DV	7N06	M-804 /03	PRP
7N02	M-628 /02	MAX-D	7N04	69-6-1 /04	MAX-D	7N05	ED-0008/13	DV	7N06	ED-0016/08	DV	7N06	M-923 /03	PRP
7N02	M-628 /03	MAX-D	7N04	69-9-1 /04	CAV	7N05	M-534 /03	PRP	7N06	ED-0016/09	DV	7N07	69-14-1/07	ETE
7N02	M-731 /01	FAV	7N04	ED-0006/11	DV	7N05	M-607 /07	MAX-D	7N06	ED-0016/10	DV	7N07	69-19-1/07	PRP
7N02	M-731 /02	FAV	7N04	ED-0006/12	DV	7N05	M-607 /08	MAX-D	7N06	ED-0016/11	DV	7N07	69-2-1 /07	DV
7N02	M-731 /03	FAV	7N04	ED-0006/13	DV	7N05	M-607 /09	MAX-D	7N06	ED-0016/12	DV	7N07	69-30-1/04	PRP
7N02	M-804 /01	PRP	7N04	ED-0008/01	DV	7N05	M-645 /03	MAX-D	7N06	ED-0016/13	DV	7N07	69-32-1/04	PRP
7N02	M-923 /01	PRP	7N04	ED-0008/02	DV	7N05	M-651 /03	MAX-D	7N06	ED-0016/14	DV	7N07	69-36-1/07	PRP
7N03	69-14-1/03	ETE	7N04	ED-0008/03	DV	7N05	M-710 /04	FAV	7N06	ED-0016/15	DV	7N07	69-6-1 /07	MAX-D
7N03	69-19-1/03	PRP	7N04	ED-0008/04	DV	7N05	M-710 /05	FAV	7N06	ED-0016/16	DV	7N07	69-9-1 /07	CAV
7N03	69-2-1 /03	DV	7N04	ED-0008/05	DV	7N05	M-710 /06	FAV	7N06	ED-0016/17	DV	7N07	M-534 /04	PRP
7N03	69-30-1/02	PRP	7N04	ED-0008/06	DV	7N06	69-14-1/06	ETE	7N06	ED-0016/18	DV	7N07	M-607 /10	MAX-D
7N03	69-32-1/02	PRP	7N04	ED-0008/07	DV	7N06	69-19-1/06	PRP	7N06	ED-0016/19	DV	7N07	M-607 /11	MAX-D
7N03	69-36-1/03	PRP	7N04	ED-0008/08	DV	7N06	69-2-1 /06	DV	7N06	ED-0016/20	DV	7N07	M-607 /12	MAX-D
7N03	69-6-1 /03	MAX-D	7N04	ED-0008/09	DV	7N06	69-36-1/06	PRP	7N06	ED-0016/21	DV	7N07	M-645 /04	MAX-D
7N03	69-9-1 /03	CAV	7N04	ED-0008/10	DV	7N06	69-6-1 /06	MAX-D	7N06	ED-0016/22	DV	7N07	M-651 /04	MAX-D
7N03	ED-0006/01	DV	7N04	ED-0008/11	DV	7N06	69-9-1 /06	CAV	7N06	ED-0016/23	DV	7N07	M-710 /01	FAV
7N03	ED-0006/02	DV	7N04	ED-0008/14	DV	7N06	ED-0012/01	DV	7N06	ED-0016/24	DV	7N07	M-710 /02	FAV
7N03	ED-0006/03	DV	7N04	ED-0008/15	DV	7N06	ED-0012/02	DV	7N06	ED-0016/25	DV	7N07	M-710 /03	FAV
7N03	ED-0006/04	DV	7N04	ED-0008/16	DV	7N06	ED-0012/03	DV	7N06	ED-0018/01	DV	7N08	69-14-1/08	ETE
7N03	ED-0006/05	DV	7N04	ED-0008/17	DV	7N06	ED-0012/04	DV	7N06	ED-0018/02	DV	7N08	69-19-1/08	PRP
7N03	ED-0006/06	DV	7N04	ED-0008/18	DV	7N06	ED-0012/05	DV	7N06	ED-0018/03	DV	7N08	69-2-1 /08	DV
7N03	ED-0006/07	DV	7N04	ED-0008/19	DV	7N06	ED-0012/06	DV	7N06	ED-0018/04	DV	7N08	69-36-1/08	PRP
7N03	ED-0006/08	DV	7N04	ED-0008/20	DV	7N06	ED-0012/07	DV	7N06	ED-0018/05	DV	7N08	69-6-1 /08	MAX-D
7N03	ED-0006/09	DV	7N04	ED-0008/21	DV	7N06	ED-0012/08	DV	7N06	ED-0018/06	DV	7N08	69-9-1 /08	CAV
7N03	ED-0006/10	DV	7N04	ED-0008/22	DV	7N06	ED-0012/09	DV	7N06	ED-0018/07	DV	7N08	M-1058 /02	MAX-D
7N03	ED-0006/14	DV	7N04	ED-0008/23	DV	7N06	ED-0014/01	DV	7N06	ED-0022/05	DV	7N08	M-528 /04	PRP
7N03	ED-0006/15	DV	7N04	ED-0008/24	DV	7N06	ED-0014/02	DV	7N06	ED-0022/06	DV	7N08	M-569 /07	FAV

PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS	PICNO	TAPE/FILE	VERS
7N08	M-569 /08	FAV	7N11	69-30-1/06	PRP	7N13	M-651 /07	MAX-D	7N16	M-584 /02	FAV	7N19	69-33-1/02	PRP
7N08	M-569 /09	FAV	7N11	69-32-1/06	PRP	7N13	M-702 /07	FAV	7N16	M-584 /03	FAV	7N19	69-37-1/06	PRP
7N08	M-628 /10	MAX-D	7N11	69-36-1/11	PRP	7N13	M-702 /08	FAV	7N16	M-629 /10	MAX-D	7N19	69-7-1 /06	MAX-D
7N08	M-628 /11	MAX-D	7N11	69-6-1 /11	MAX-D	7N13	M-702 /09	FAV	7N16	M-629 /11	MAX-D	7N19	M-534 /10	PRP
7N08	M-628 /12	MAX-D	7N11	69-9-1 /11	CAV	7N14	69-14-1/14	ETE	7N16	M-629 /12	MAX-D	7N19	M-579 /04	MAX-D
7N08	M-775 /07	MAX-D	7N11	M-534 /06	PRP	7N14	69-2-1 /14	DV	7N16	M-731 /04	FAV	7N19	M-579 /05	MAX-D
7N08	M-775 /08	MAX-D	7N11	M-565 /04	FAV	7N14	69-20-1/01	PRP	7N16	M-731 /05	FAV	7N19	M-579 /06	MAX-D
7N08	M-775 /09	MAX-D	7N11	M-565 /05	FAV	7N14	69-37-1/01	PRP	7N16	M-731 /06	FAV	7N19	M-645 /10	MAX-D
7N08	M-780 /03	MAX-D	7N11	M-565 /06	FAV	7N14	69-7-1 /01	MAX-D	7N16	M-746 /04	FAV	7N19	M-651 /10	MAX-D
7N08	M-804 /04	PRP	7N11	M-608 /04	MAX-D	7N14	69-9-1 /14	CAV	7N16	M-746 /05	FAV	7N20	69-10-1/04	CAV
7N08	M-923 /04	PRP	7N11	M-608 /05	MAX-D	7N14	M-1058 /04	MAX-D	7N16	M-746 /06	FAV	7N20	69-14-1/20	ETE
7N09	69-14-1/09	ETE	7N11	M-608 /06	MAX-D	7N14	M-528 /07	PRP	7N16	M-780 /07	MAX-D	7N20	69-2-1 /20	DV
7N09	69-19-1/09	PRP	7N11	M-645 /06	MAX-D	7N14	M-570 /04	FAV	7N16	M-804 /08	PRP	7N20	69-20-1/07	PRP
7N09	69-2-1 /09	DV	7N11	M-651 /06	MAX-D	7N14	M-570 /05	FAV	7N16	M-923 /08	PRP	7N20	69-37-1/07	PRP
7N09	69-30-1/05	PRP	7N11	M-702 /04	FAV	7N14	M-570 /06	FAV	7N17	69-10-1/01	CAV	7N20	69-7-1 /07	MAX-D
7N09	69-32-1/05	PRP	7N11	M-702 /05	FAV	7N14	M-629 /07	MAX-D	7N17	69-14-1/17	ETE	7N20	M-1058 /07	MAX-D
7N09	69-36-1/09	PRP	7N11	M-702 /06	FAV	7N14	M-629 /08	MAX-D	7N17	69-2-1 /17	DV	7N20	M-528 /10	PRP
7N09	69-6-1 /09	MAX-D	7N12	69-14-1/12	ETE	7N14	M-629 /09	MAX-D	7N17	69-20-1/04	PRP	7N20	M-571 /04	FAV
7N09	69-9-1 /09	CAV	7N12	69-19-1/12	PRP	7N14	M-718 /01	FAV	7N17	69-31-1/01	PRP	7N20	M-571 /05	FAV
7N09	M-534 /05	PRP	7N12	69-2-1 /12	DV	7N14	M-718 /02	FAV	7N17	69-33-1/01	PRP	7N20	M-571 /06	FAV
7N09	M-565 /01	FAV	7N12	69-36-1/12	PRP	7N14	M-718 /03	FAV	7N17	69-37-1/04	PRP	7N20	M-747 /04	MAX-D
7N09	M-565 /02	FAV	7N12	69-6-1 /12	MAX-D	7N14	M-780 /06	MAX-D	7N17	69-7-1 /04	MAX-D	7N20	M-747 /05	MAX-D
7N09	M-565 /03	FAV	7N12	69-9-1 /12	CAV	7N14	M-804 /07	PRP	7N17	M-534 /09	PRP	7N20	M-747 /06	MAX-D
7N09	M-608 /01	MAX-D	7N12	M-1058 /03	MAX-D	7N14	M-923 /07	PRP	7N17	M-579 /01	MAX-D	7N20	M-780 /09	MAX-D
7N09	M-608 /02	MAX-D	7N12	M-528 /06	PRP	7N15	69-14-1/15	ETE	7N17	M-579 /02	MAX-D	7N20	M-804 /10	PRP
7N09	M-608 /03	MAX-D	7N12	M-570 /01	FAV	7N15	69-2-1 /15	DV	7N17	M-579 /03	MAX-D	7N20	M-923 /10	PRP
7N09	M-645 /05	MAX-D	7N12	M-570 /02	FAV	7N15	69-20-1/02	PRP	7N17	M-645 /09	MAX-D	7N21	69-10-1/05	CAV
7N09	M-651 /05	MAX-D	7N12	M-570 /03	FAV	7N15	69-30-1/08	PRP	7N17	M-651 /09	MAX-D	7N21	69-14-1/21	ETE
7N09	M-702 /01	FAV	7N12	M-629 /04	MAX-D	7N15	69-32-1/08	PRP	7N18	69-10-1/02	CAV	7N21	69-20-1/08	PRP
7N09	M-702 /02	FAV	7N12	M-629 /05	MAX-D	7N15	69-37-1/02	PRP	7N18	69-14-1/18	ETE	7N21	69-3-1 /01	DV
7N09	M-702 /03	FAV	7N12	M-629 /06	MAX-D	7N15	69-7-1 /02	MAX-D	7N18	69-2-1 /18	DV	7N21	69-31-1/03	PRP
7N10	69-14-1/10	ETE	7N12	M-780 /05	MAX-D	7N15	69-9-1 /15	CAV	7N18	69-20-1/05	PRP	7N21	69-33-1/03	PRP
7N10	69-19-1/10	PRP	7N12	M-804 /06	PRP	7N15	M-534 /08	PRP	7N18	69-37-1/05	PRP	7N21	69-37-1/08	PRP
7N10	69-2-1 /10	DV	7N12	M-923 /06	PRP	7N15	M-565 /10	FAV	7N18	69-7-1 /05	MAX-D	7N21	69-7-1 /08	MAX-D
7N10	69-36-1/10	PRP	7N13	69-14-1/13	ETE	7N15	M-565 /11	FAV	7N18	M-1058 /06	MAX-D	7N21	M-534 /11	PRP
7N10	69-6-1 /10	MAX-D	7N13	69-19-1/13	PRP	7N15	M-565 /12	FAV	7N18	M-528 /09	PRP	7N21	M-556 /07	FAV
7N10	69-9-1 /10	CAV	7N13	69-2-1 /13	DV	7N15	M-608 /10	MAX-D	7N18	M-571 /01	FAV	7N21	M-556 /08	FAV
7N10	M-528 /05	PRP	7N13	69-30-1/07	PRP	7N15	M-608 /11	MAX-D	7N18	M-571 /02	FAV	7N21	M-556 /09	FAV
7N10	M-569 /10	FAV	7N13	69-32-1/07	PRP	7N15	M-608 /12	MAX-D	7N18	M-571 /03	FAV	7N21	M-579 /07	MAX-D
7N10	M-569 /11	FAV	7N13	69-36-1/13	PRP	7N15	M-645 /08	MAX-D	7N18	M-747 /01	MAX-D	7N21	M-579 /08	MAX-D
7N10	M-569 /12	FAV	7N13	69-6-1 /13	MAX-D	7N15	M-651 /08	MAX-D	7N18	M-747 /02	MAX-D	7N21	M-579 /09	MAX-D
7N10	M-629 /01	MAX-D	7N13	69-9-1 /13	CAV	7N16	69-14-1/16	ETE	7N18	M-747 /03	MAX-D	7N21	M-645 /11	MAX-D
7N10	M-629 /02	MAX-D	7N13	M-534 /07	PRP	7N16	69-2-1 /16	DV	7N18	M-780 /08	MAX-D	7N21	M-651 /11	MAX-D
7N10	M-629 /03	MAX-D	7N13	M-565 /07	FAV	7N16	69-20-1/03	PRP	7N18	M-804 /09	PRP	7N21	M-709 /01	FAV
7N10	M-780 /04	MAX-D	7N13	M-565 /08	FAV	7N16	69-37-1/03	PRP	7N18	M-923 /09	PRP	7N21	M-709 /02	FAV
7N10	M-804 /05	PRP	7N13	M-565 /09	FAV	7N16	69-7-1 /03	MAX-D	7N19	69-10-1/03	CAV	7N21	M-709 /03	FAV
7N10	M-923 /05	PRP	7N13	M-608 /07	MAX-D	7N16	69-9-1 /16	CAV	7N19	69-14-1/19	ETE	7N22	69-10-1/06	CAV
7N11	69-14-1/11	ETE	7N13	M-608 /08	MAX-D	7N16	M-1058 /05	MAX-D	7N19	69-2-1 /19	DV	7N22	69-14-1/22	ETE
7N11	69-19-1/11	PRP	7N13	M-608 /09	MAX-D	7N16	M-528 /08	PRP	7N19	69-20-1/06	PRP	7N22	69-20-1/09	PRP
7N11	69-2-1 /11	DV	7N13	M-645 /07	MAX-D	7N16	M-584 /01	FAV	7N19	69-31-1/02	PRP	7N22	69-3-1 /02	DV

PICNO	TAPE/FILE	VERS
7N22	69-37-1/09	PRP
7N22	69-7-1 /09	MAX-D
7N22	M-1058 /08	MAX-D
7N22	M-528 /11	PRP
7N22	M-584 /04	FAV
7N22	M-584 /05	FAV
7N22	M-584 /06	FAV
7N22	M-747 /07	MAX-D
7N22	M-747 /08	MAX-D
7N22	M-747 /09	MAX-D
7N22	M-780 /10	MAX-D
7N22	M-804 /11	PRP
7N22	M-923 /11	PRP
7N23	69-10-1/07	CAV
7N23	69-14-1/23	ETE
7N23	69-20-1/10	PRP
7N23	69-3-1 /03	DV
7N23	69-31-1/04	PRP
7N23	69-33-1/04	PRP
7N23	69-37-1/10	PRP
7N23	69-7-1 /10	MAX-D
7N23	M-534 /12	PRP
7N23	M-556 /10	FAV
7N23	M-556 /11	FAV
7N23	M-556 /12	FAV
7N23	M-579 /10	MAX-D
7N23	M-579 /11	MAX-D
7N23	M-579 /12	MAX-D
7N23	M-645 /12	MAX-D
7N23	M-651 /12	MAX-D
7N23	M-700 /01	FAV
7N23	M-700 /02	FAV
7N23	M-700 /03	FAV
7N24	69-10-1/08	CAV
7N24	69-14-1/24	ETE
7N24	69-20-1/11	PRP
7N24	69-3-1 /04	DV
7N24	69-37-1/11	PRP
7N24	69-7-1 /11	MAX-D
7N24	M-1058 /09	MAX-D
7N24	M-528 /12	PRP
7N24	M-584 /07	FAV
7N24	M-584 /08	FAV
7N24	M-584 /09	FAV
7N24	M-732 /01	FAV
7N24	M-732 /02	FAV
7N24	M-732 /03	FAV
7N24	M-746 /01	FAV
7N24	M-746 /02	FAV
7N24	M-746 /03	FAV

PICNO	TAPE/FILE	VERS
7N24	M-747 /10	MAX-D
7N24	M-747 /11	MAX-D
7N24	M-747 /12	MAX-D
7N24	M-780 /11	MAX-D
7N24	M-804 /12	PRP
7N24	M-923 /12	PRP
7N25	69-10-1/09	CAV
7N25	69-14-1/25	ETE
7N25	69-20-1/12	PRP
7N25	69-3-1 /05	DV
7N25	69-31-1/05	PRP
7N25	69-33-1/05	PRP
7N25	69-37-1/12	PRP
7N25	69-7-1 /12	MAX-D
7N25	M-534 /13	PRP
7N25	M-645 /13	MAX-D
7N25	M-651 /13	MAX-D
7N25	M-700 /04	FAV
7N25	M-700 /05	FAV
7N25	M-700 /06	FAV
7N26	69-10-1/10	CAV
7N26	69-14-1/26	ETE
7N26	69-20-1/13	PRP
7N26	69-3-1 /06	DV
7N26	69-37-1/13	PRP
7N26	69-7-1 /13	MAX-D
7N26	M-1058 /10	MAX-D
7N26	M-528 /13	PRP
7N26	M-621 /01	MAX-D
7N26	M-621 /02	MAX-D
7N26	M-621 /03	MAX-D
7N26	M-732 /04	FAV
7N26	M-732 /05	FAV
7N26	M-732 /06	FAV
7N26	M-774 /01	MAX-D
7N26	M-774 /02	MAX-D
7N26	M-774 /03	MAX-D
7N26	M-780 /12	MAX-D
7N26	M-804 /13	PRP
7N26	M-923 /13	PRP
7N27	69-10-1/11	CAV
7N27	69-14-1/27	ETE
7N27	69-21-1/01	PRP
7N27	69-3-1 /07	DV
7N27	69-31-1/06	PRP
7N27	69-33-1/06	PRP
7N27	69-38-1/01	PRP
7N27	69-8-1 /01	MAX-D
7N27	M-534 /14	PRP
7N27	M-645 /14	MAX-D

PICNO	TAPE/FILE	VERS
7N27	M-651 /14	MAX-D
7N27	M-700 /07	FAV
7N27	M-700 /08	FAV
7N27	M-700 /09	FAV
7N28	69-10-1/12	CAV
7N28	69-14-1/28	ETE
7N28	69-21-1/02	PRP
7N28	69-3-1 /08	DV
7N28	69-38-1/02	PRP
7N28	69-8-1 /02	MAX-D
7N28	M-528 /14	PRP
7N28	M-585 /01	FAV
7N28	M-585 /02	FAV
7N28	M-585 /03	FAV
7N28	M-621 /04	MAX-D
7N28	M-621 /05	MAX-D
7N28	M-621 /06	MAX-D
7N28	M-774 /04	MAX-D
7N28	M-774 /05	MAX-D
7N28	M-774 /06	MAX-D
7N28	M-780 /13	MAX-D
7N28	M-804 /14	PRP
7N28	M-923 /14	PRP
7N29	69-10-1/13	CAV
7N29	69-14-1/29	ETE
7N29	69-21-1/03	PRP
7N29	69-3-1 /09	DV
7N29	69-31-1/07	PRP
7N29	69-33-1/07	PRP
7N29	69-38-1/03	PRP
7N29	69-8-1 /03	MAX-D
7N29	M-534 /15	PRP
7N29	M-651 /15	MAX-D
7N29	M-700 /10	FAV
7N29	M-700 /11	FAV
7N29	M-700 /12	FAV
7N30	69-10-1/14	CAV
7N30	69-14-1/30	ETE
7N30	69-21-1/04	PRP
7N30	69-3-1 /10	DV
7N30	69-38-1/04	PRP
7N30	69-8-1 /04	MAX-D
7N30	M-528 /15	PRP
7N30	M-585 /04	FAV
7N30	M-585 /05	FAV
7N30	M-585 /06	FAV
7N30	M-621 /07	MAX-D
7N30	M-621 /08	MAX-D
7N30	M-621 /09	MAX-D
7N30	M-923 /15	PRP

PICNO	TAPE/FILE	VERS
7N31	69-10-1/15	CAV
7N31	69-14-1/31	ETE
7N31	69-21-1/05	PRP
7N31	69-3-1 /11	DV
7N31	69-31-1/08	PRP
7N31	69-33-1/08	PRP
7N31	69-38-1/05	PRP
7N31	69-8-1 /05	MAX-D
7N31	ED-0022/01	DV
7N31	ED-0022/02	DV
7N31	ED-0022/03	DV
7N31	ED-0022/04	DV
7N31	JAC 170/01	DV
7N31	JAC 170/02	DV
7N31	JAC 170/03	DV
7N31	JAC-138/01	DV
7N31	JAC-138/02	DV
7N31	JAC-138/03	DV
7N31	JAC-138/04	DV
7N31	JAC-138/05	DV
7N31	JAC-138/06	DV
7N31	JAC-138/07	DV
7N31	JAC-138/08	DV
7N31	JAC-138/09	DV
7N31	JAC-191/01	DV
7N31	JAC-191/02	DV
7N31	JAC-191/03	DV
7N31	JAC-191/04	DV
7N31	JAC-191/05	DV
7N31	JAC-191/06	DV
7N31	JAC-191/07	DV
7N31	JAC-191/08	DV
7N31	JAC-191/09	DV
7N31	JAC-191/10	DV
7N31	JAC-224/01	DV
7N31	JAC-224/02	DV
7N31	JAC-224/03	DV
7N31	JAC-224/04	DV
7N31	JAC-224/05	DV
7N31	JAC-224/06	DV
7N31	JAC-224/07	DV
7N31	JAC-224/08	DV
7N31	JAC-224/09	DV
7N31	JAC-224/10	DV
7N31	JAC-372/01	DV
7N31	JAC-372/02	DV
7N31	JAC-372/03	DV
7N31	JAC-372/04	DV
7N31	JAC-372/05	DV
7N31	JAC-372/06	DV

PICNO	TAPE/FILE	VERS
7N31	JAC-372/07	DV
7N31	JAC-372/08	DV
7N31	JAC-372/09	DV
7N31	JAC-372/10	DV
7N31	M-534 /16	PRP
7N31	M-645 /15	MAX-D
7N31	M-651 /16	MAX-D
7N31	M-701 /01	FAV
7N31	M-701 /02	FAV
7N31	M-701 /03	FAV
7N32	69-8-1 /06	MAX-D
7N32	M-621 /10	MAX-D
7N32	M-621 /11	MAX-D
7N32	M-621 /12	MAX-D
7NAA	69-15-1/01	MAX-D
7NAB	69-15-1/02	MAX-D

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