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TOMS Near Realtime System Design Document

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AUGUST 1981

National Aeronautics and
Space Administration
Goddard Space Flight Center
Greenbelt, Maryland 20771



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DESIGN DOCUMENT**

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**TOMS NEAR REALTIME SYSTEM
DESIGN DOCUMENT**

SECTION 1. GENERAL

1.1 Purpose. The System Design Document for the TOMS (Total Ozone Mapping Spectrometer)

Near Realtime System is written to fulfill the following objectives:

- a. To provide detailed definition of the system functions.
- b. To record the system history from a development and data processing point-of-view. Data Analysis will be the subject of future documentation.

1.2 Project References. Listed below are references pertinent to this document.

- 1.2.1 C. Madrid, editor, "The NIMBUS 7 User's Guide." Prepared by the LANDSAT/NIMBUS Project, Goddard Space Flight Center, National Aeronautics and Space Administration, August 1978.
- 1.2.2 J. Green, NIMBUS G Flight Operations Software System (FOSS) Definition Report, General Electric Space Division, Valley Forge, Pa., 4/27/77.
- 1.2.3 L. Bowlin, S. Stowe, "TOMS Near Realtime Data Processing Operations Manual," Systems and Applied Sciences Corporation, Riverdale, Md., June 81.
- 1.2.4 Author unknown, "System Memo #1, Nimbus F Tape Formats," Rev. A, 1/31/73, General Electric Memo for NIMBUS Project at Goddard Space Flight Center.
- 1.2.5 M. Hopkins, "ERB-6 Reprocessing Project Data Processing Subsystem Stack DT Program Specifications," prepared for GSFC Code 931 by Research and Data Systems, Inc., January 1981.

1.2.6 L. Bowlin, L. Basiley, "TOMREL Maintenance Manual." prepared for GSFC Code 931 by Systems and Applied Sciences Corporation, July 1981.

1.2.7 P. Smith, "User's Guide for the Total Ozone Mapping Spectrometer's Interim Data Program TOMALL." prepared for GSFC Code 931 by Systems and Applied Sciences Corporation, June 1980.

1.3 Terms and Abbreviations. The following is a list of terms and abbreviations used in this document.

DT	Data Tape
ERB	Earth Radiation Budget
FAA	Federal Aviation Administration
FOV	Field of View
GMT	Greenwich Mean Time
GSFC	Goddard Space Flight Center
ILT	Image Location Tape
ILTC	Image Location Tape (fixed)
METOCC	Meteorological Operations Control Center
NOPS	NIMBUS Observation Processing System
NSSDC	National Space Science Data Center Goddard Space Flight Center Code 601 Greenbelt, MD 20771
RUT-T	Raw Unit Tape – TOMS
SACC	Science and Applications Computing Center
SDT	Stack Data Tape
TDT	Telemetry Data Tape
TOMS	Total Ozone Mapping Spectrometer
UFO	User Formatted Output

SECTION 2. REQUIREMENTS

2.1 System Description. The objective of the TOMS (Total Ozone Mapping Spectrometer)

Near Realtime System is to demonstrate that NIMBUS 7 TOMS ozone data can be used as an aide in helping airlines meet FAA regulations concerning acceptable ozone levels within aircraft cabins. In doing this, the feasibility of processing meteorological satellite data in "near" real time will also be demonstrated.

This demonstration may be regarded as consisting of two main parts.

- 1. Collection, processing and delivery of data within a short enough time period to be useful for flight routing.**
- 2. Analysis to ascertain that in fact the data is useful for flight routing in order to avoid high ozone concentrations. In addition the data will be analyzed to see if it is useful for precise location of the jet stream and of clear air turbulence.**

This document concerns itself solely with part 1. Results of the data analysis will be presented in a separate document.

Within the context of part 1 the system addresses three main functional requirements.

- 1. Collect and process TOMS data to give daily coverage of the North American continent and Hawaii. See figure 5.3-1.**
 - 1a. Deliver map products of each orbit of data within 6 hours of ground receipt to Northwest Airlines meteorologists in Minneapolis, Minn.**
 - 2a. Deliver daily a map showing a composite of all orbits processed that same day.**
- 2. Operate the system from 3/1/81 through 5/15/81.**

In order to satisfy these functional requirements the TOMS Near Realtime System was designed to consist of three main subsystems. See figure 2-1.

The general philosophy adopted in order to implement the system by 3/1/81 (starting date was November 1980) was to reuse as much as possible the existing NIMBUS 7 TOMS data processing system. See reference 1.2.1 page 193 for details of that system.

2.1.1 Data Receipt Subsystem. The basic function of this subsystem is to capture the spacecraft data, merge predictive spacecraft ephemeris with it, do some basic quality control and produce the results on a computer compatible digital tape. See reference 1.2.2 for details. In addition the subsystem also produces time correction data (relationship between spacecraft clock times and GMT.)

This subsystem satisfied the collection requirements for the system. The tape product produced was simply a copy of that which would have normally been produced for the existing TOMS data processing system. The chief effects our requirements had on the existing system were to cause some instances of special scheduling of data dumps from the satellite as well as scheduling the data tapes to be made within 2 hours of ground receipt. No new software or hardware was required. This occasional special scheduling and increased tape production rate was maintained for our demonstration period of 3/1/81 through 5/15/81 for the four orbits each day which contained daylight data of the North American continent and Hawaii.

2.1.2 Data Processing Subsystem. The basic processing steps performed by this subsystem are:

1. Reformatting and time correction of the raw satellite data after preliminary quality control.

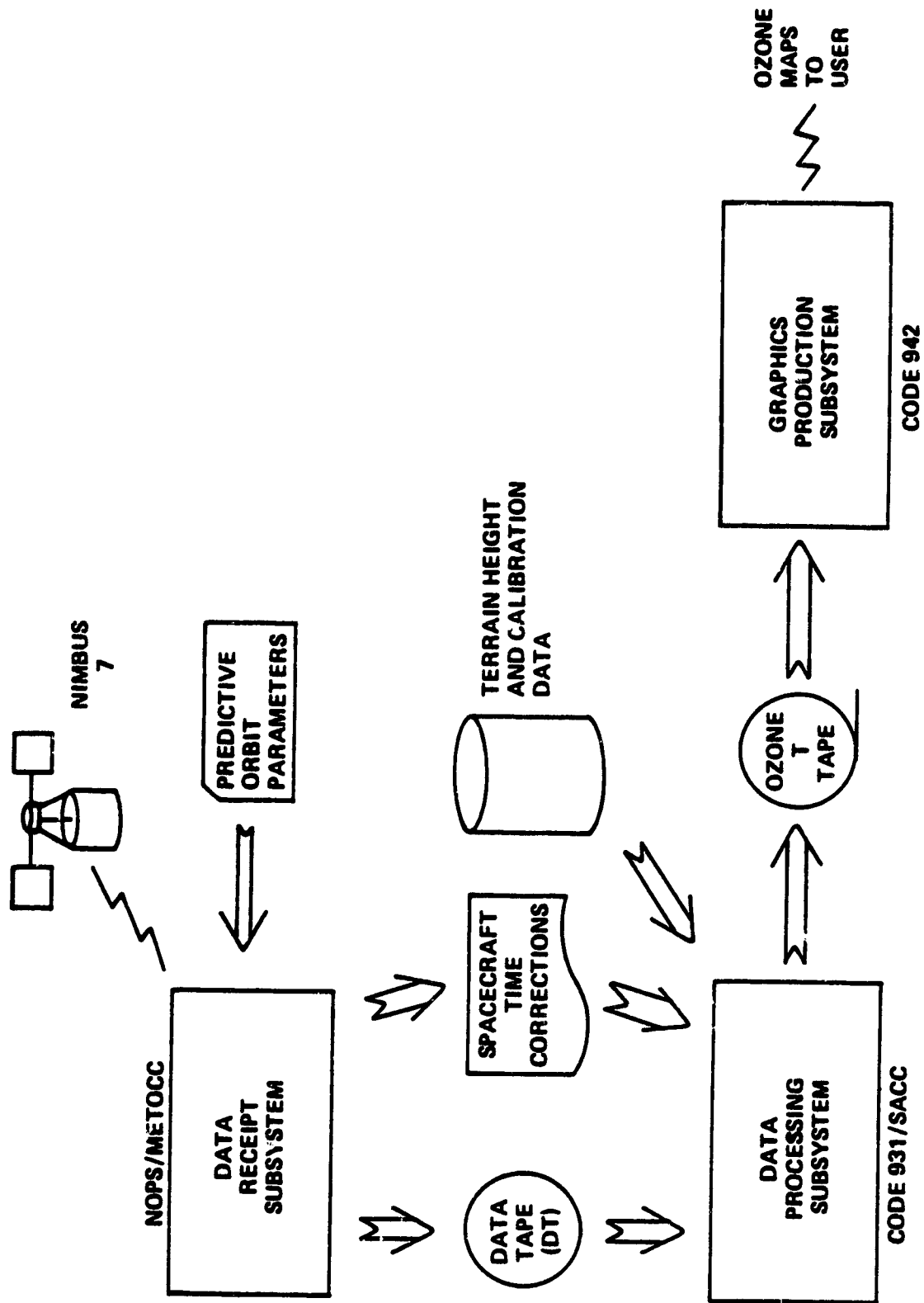


Figure 2-1. TOMS Near Realtime System Overview

2. Stripping of the TOMS experiment data from the entire satellite data stream.
3. Determining the earth location of TOMS data based on nominal attitude (pitch = roll = yaw = 0) and predictive ephemeris.
4. Computing sun angle values necessary for determining ozone. These values are measured at each field-of-view and are based on solar ephemeris and spacecraft ephemeris.
5. Calibration of the TOMS instrument data.
6. Production of ozone measurements in scientific units.
7. Formatting of the data (ozone scientific units and locations) for use in graphics production and analysis.

See reference 1.2.3 for details.

This subsystem satisfied the processing requirements for the system. A new software program had to be written which replaced the existing NIMBUS-7 processing steps that generate UFO and ILT tapes. These tapes are normally generated on the NOPS CDC 3300 computer. Since that computer was not available for use in a priority mode, the entire process was transferred to the SACC IBM 360/91 computer where subsequent processing was already being done. Thus steps 1, 2 and 3 listed above were implemented by new software. Steps 4-7 were accomplished using copies of the software already developed for the usual NIMBUS 7 TOMS processing. The new software was combined with the copied software into one multi-step computer run and priority execution was allowed by SACC in order to meet the time requirement.

2.1.3 Graphics Production Subsystem. This subsystem provided the basic functions of reformatting the data into the required map products and delivering those products to Northwest Airlines Meteorological offices in Minneapolis, Minnesota.

Modifications to existing software were made to produce a Lambert mapped projection of the total ozone data. A symbol scale was generated which provided 16 levels, 25 Dobson units per level, for the range of 200 to 600 Dobson units. Scaled mapped data were transmitted to Northwest Airlines after receipt of each single orbit Ozone T data tape. In addition, single orbit and daily composite four orbit images were displayed on a local terminal for evaluation and archiving. An 8 X 10 inch color photo was also generated for each daily composite. On "known" clear air turbulence days, the total ozone daily composite images were regenerated using a symbol scale of 16 levels, 5 Dobson units per level, for the range of 350 to 430 Dobson units and transmitted to Northwest Airlines for analysis.

To meet the time limit requirements, the Sensor Evaluation Branch granted priority processing time on their computer and data transmission equipment as well as establishing a special work schedule for operations personnel. In addition to satisfying the basic functional requirements as described above, this subsystem provided visual quality control on the map products before transmission. Contact R. Sullivan of Code 942 for details.

2.2 Accuracy. To implement the system within the available 4 months the accuracy requirements were specified as follows:

"Output products from the TOMS Near Realtime System should be identical to those which would be produced by the usual NIMBUS 7 TOMS Processing with the possible exception of minor location differences due to use of predictive spacecraft ephemeris and assumed nominal attitude."

Preliminary studies comparing predictive and definitive spacecraft ephemeris showed that the resulting differences in location of ozone data should not effect the proposed study. The historical accurate control of the spacecraft attitude by the on board Attitude Control System (ACS) was relied upon to make the simplifying assumption that attitude in each axis was a constant zero degrees.

Comparing TOMS data processed through this system with the same data processed through the existing NIMBUS 7 TOMS data processing system showed that differences in ozone values never exceeded two percent. See reference 1.2.3 for details.

2.3 Timing. There is a 6 hour (maximum) throughput time per orbit requirement. Therefore, each subsystem was allocated 2 hours to process each orbit of data. To satisfy this requirement special priorities were established on the computers used by the three subsystems.

2.4 Flexibility. The software is not readily adaptable to changes in modes of operation and operating environment. This type of flexibility was not designed into the system due to time and cost constraints.

SECTION 3. ENVIRONMENT

3.1 Equipment. The following subsections describe the equipment utilized by each subsystem.

3.1.1 Data Receipt Subsystem Equipment. This subsystem utilizes the METOCC PDP 11 and CDC 924 computers.

3.1.2 Data Processing Subsystem Equipment. This subsystem utilizes the GSFC SACC computers (IBM 360/91 and 360/75).

3.1.3 Graphics Production Subsystem Equipment. This subsystem utilizes the Sensor Evaluation Branch's Hewlett Packard 1000 computer, a COMTAL imaging system, two HP2635 line printer/terminal (one located in Minneapolis) and two RACAL-VADIC modem for transmission of the data over telephone lines from the central processor to the printer terminals.

3.2 Support Software. A description of the support software for the Data Receipt Subsystem and Graphics Production Subsystem is available from the NOPS and the Sensor Evaluation Branch respectively. The support software for the Data Processing Subsystem is documented in reference 1.2.6.

3.3 Interfaces. The following subsections describe the system interfaces. See figure 2-1.

3.3.1 Data Receipt Interfaces. The data receipt subsystem interfaces with the Data Processing Subsystem via 7 track, 556 BPI tape (DT). See figure 2-1.

3.3.2 Data Processing Interfaces. This subsystem interfaces with the Graphics Production subsystem via 9 track, 800 BPI tape (OZONE-T) and with the Data Receipt Subsystem via 7 track, 556 BPI tape (DT). See figure 2-1.

3.3.3 Graphics Production Interfaces. This subsystem interfaces with the user (Northwest Airlines) via telephone using modems. The output map products are generated on a

line printer. The subsystem also interfaces with the Data Processing subsystem via 800 BPI tape (OZONE-1). See figure 2-1.

SECTION 4. DESIGN DETAILS

4.1 System Logical Flow. Figure 4.1-1 shows the logical flow of the system.

4.2 System Data. Included in this paragraph is a description of the input, intermediate, and output data.

4.2.1 Inputs. The system's input data are the predictive orbit parameters, the spacecraft data, solar ephemeris tables, terrain height tables, calibration tables and time correction data.

4.2.2 Intermediate Data. Intermediate data consists of data passed from computer program to computer program which is neither a system input or a system output product. There are seven major programs in the system and data is passed between them via the medium of magnetic tapes. All but one of these intermediate data product magnetic tapes are identical in format to those defined in the normal NIMBUS 7 TOMS PROCESSING SYSTEM. These tape formats are named:

- a. Data Tape (DT)
- b. Stacked Data Tape (SDT)
- c. SBUV/TOMS User Formatted Output Tape (SBUV/TOMS UFO)
- d. SBUV/TOMS Image Location Tape (SBUV/TOMS ILT)
- e. SBUV/TOMS Fixed Image Location Tape (SBUV/TOMS ILTC)
- f. TOMS Raw Unit Tape (RUT-T)

The DT contains all NIMBUS 7 data for one playback (approximately one orbit of data) as well as predictive spacecraft ephemeris. See reference 1.2.4.

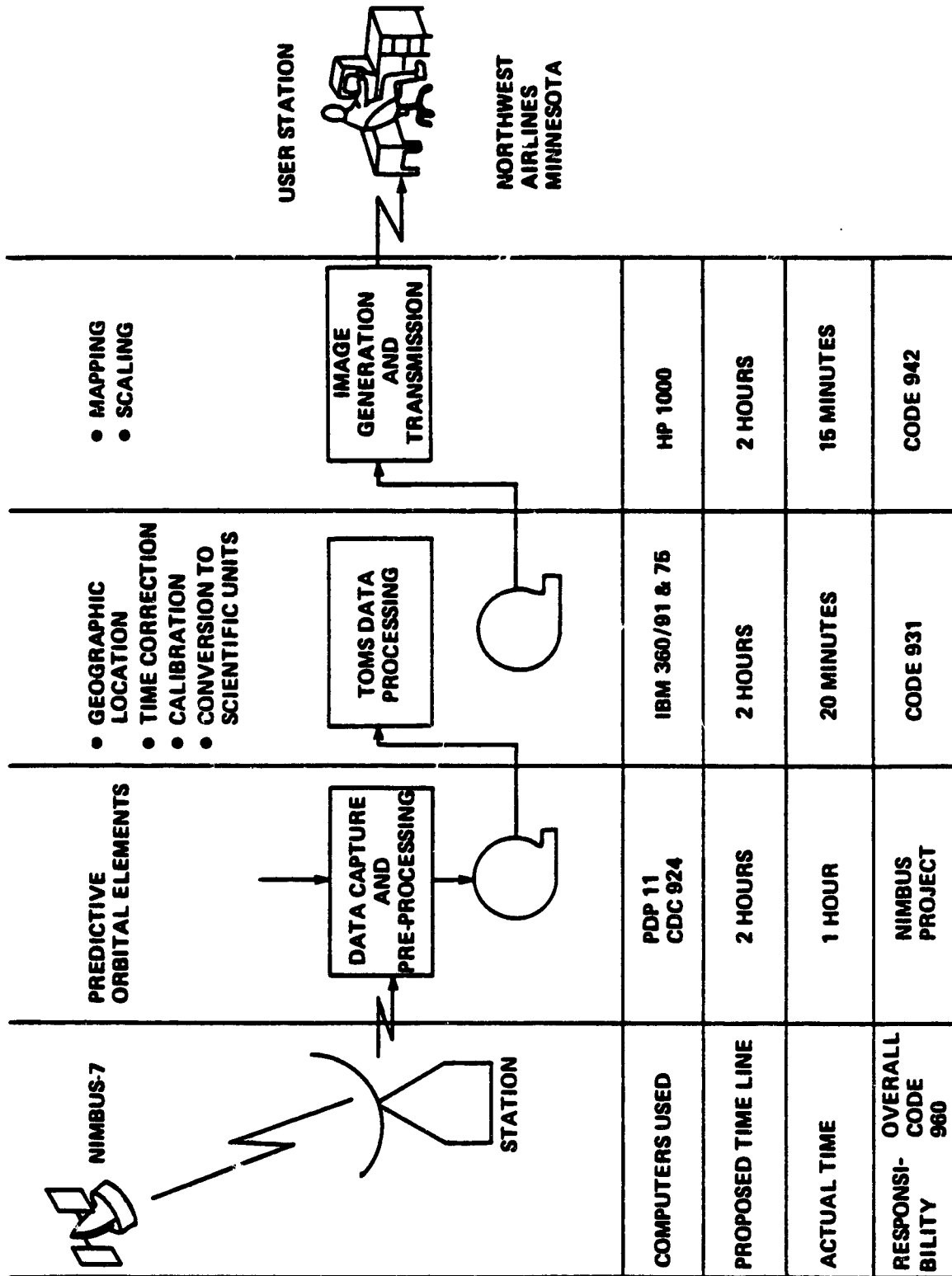


Figure 4.1.1. TOMS Data Flow

The SDT contains reformatted, quality controlled, time corrected NIMBUS 7 data as well as spacecraft ephemeris data. It is identical in format to that defined in the NIMBUS-6 ERB Reprocessing Project. See reference 1.2.5.

The SBUV/TOMS UFO tape contains only the TOMS data in the desired longitude range (equator to North Pole). See reference 1.2.6.

The SBUV/TOMS iLT tape contains locations for each TOMS field-of-view. See reference 1.2.6.

The SBUV/TOMS ILTC appends to the ILT various solar orientation angles measured at each field-of-view. See reference 1.2.6.

The TOMS RUT tape contains the calibrated radiance data along with the location of each data value. See reference 1.2.7.

4.2.3 Output. The System outputs are:

- a. Lambert projection maps showing ozone concentrations (both single orbit and daily composites). Figures 4.2.3-1 and 4.2.3-2 show reductions of actual products as received by Northwest Airlines. Figure 4.2.3-3 shows a single orbit map with latitude and longitude lines overlaid as well as the ozone values of the various gray levels.
- b. Ozone T tapes which contain total ozone profiles. See reference 1.2.7.

4.3 Program Descriptions. The programs comprising the TOMS Near Realtime System are described in the following subsections.

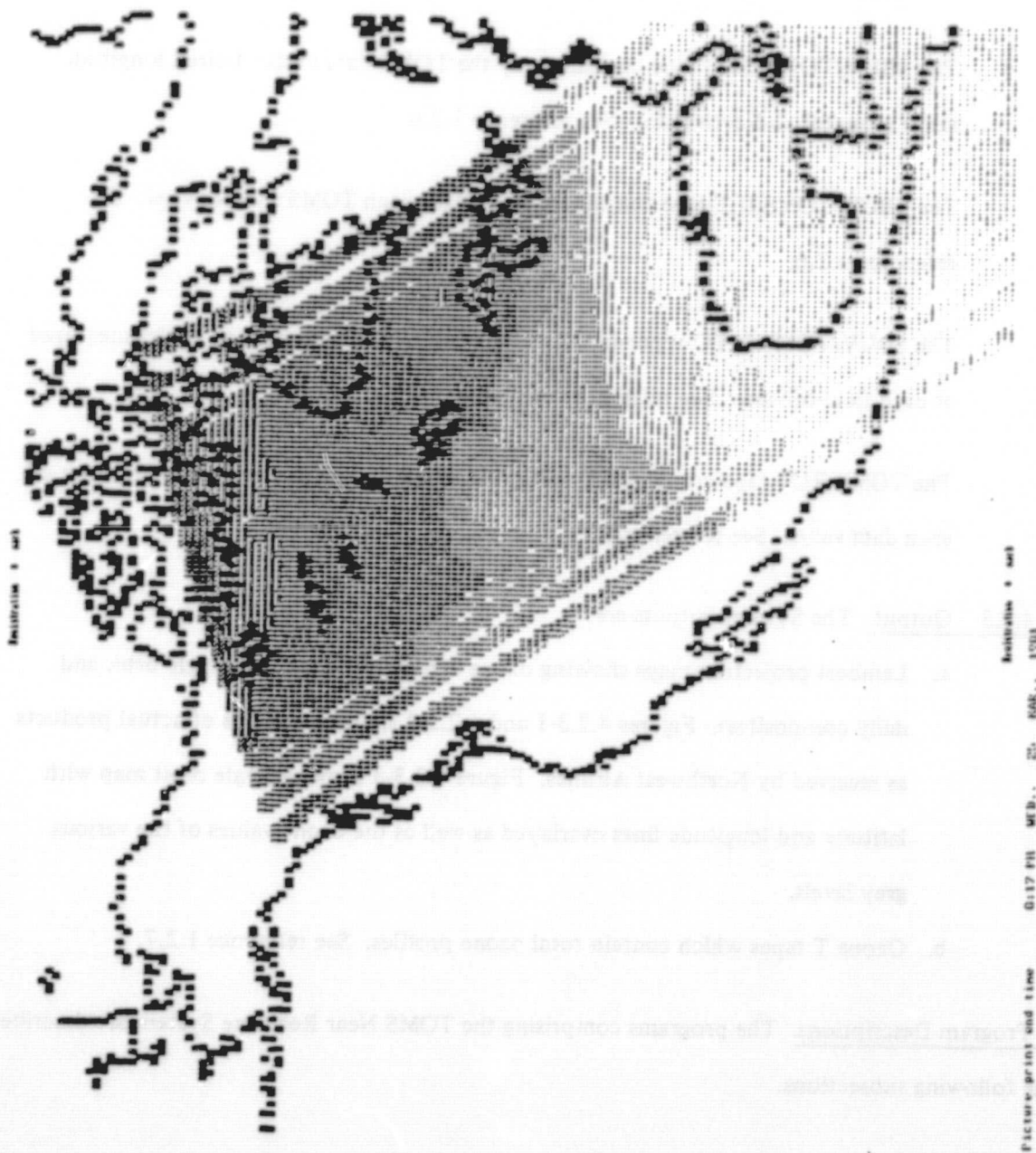


Figure 4.1.3-1. Sample Single Orbit Map Product

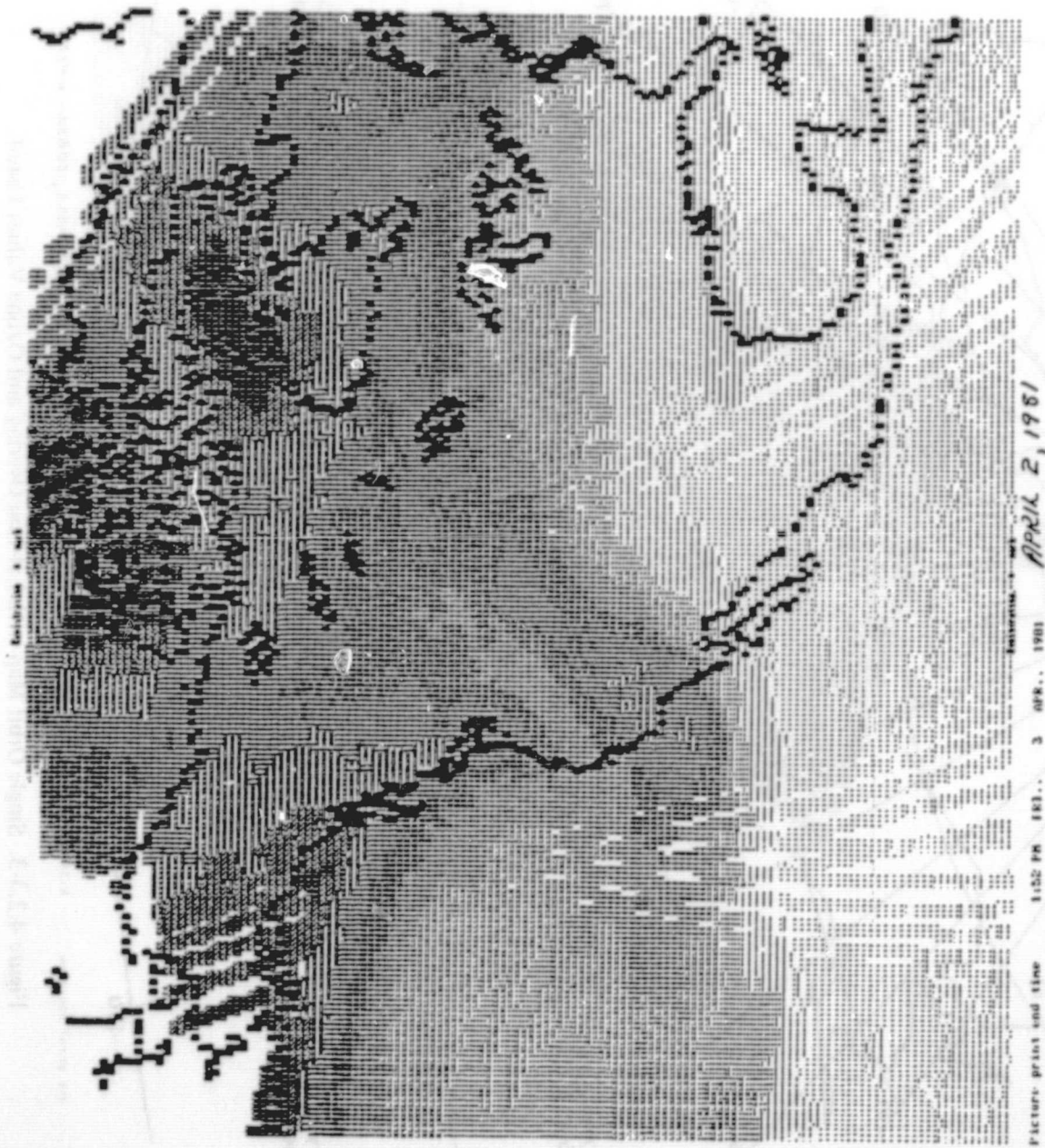
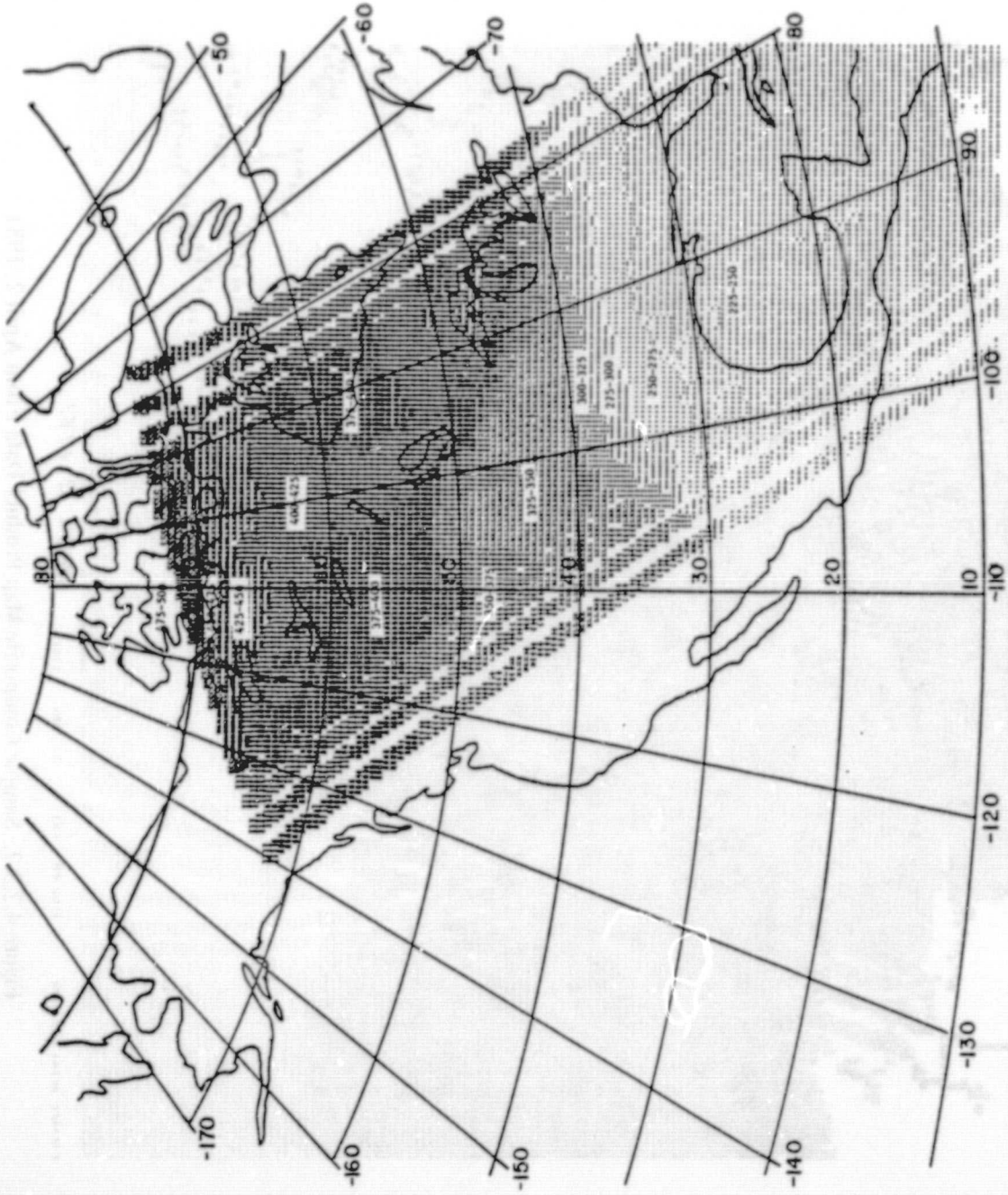


Figure 4.2.3-2. Sample Composite Map Product Data From April 2, 1981



NEW POINT AND TIME 0131 FT. ME... 20 MAR... MAGNETIC... 6, 1981 DATA, R.T. TOMS, BOBSON UNITS

Figure 4.2.3-3. Single Orbit Map with Lat-Lon Overlay and Ozone Values Listed

4.3.1 Data Receipt Subsystem Programs. There are three main programs used in this subsystem. Their main functions are to capture, decommutate, add necessary flag words and predictive spacecraft ephemeris and quality control the data. See figure 4.3.1-1 and reference 1.2.4 for details.

4.3.2 Data Processing Subsystem Programs. There are five main programs used in this subsystem. They are the Stack Data Tape Program, TOMREL Program, ILT FIX Program, INGEST Program and TOMALL Program. In aggregate, their function is to time correct the satellite data, strip out the TOMS data and then select only that data from equator to North Pole, determine locations of each field-of-view, calibrate the instrument data and produce total ozone profiles. See figure 4.3.2-1 and references 1.2.5 through 1.2.7 for details.

4.3.3 Graphics Production Subsystem. There is one main program used in this subsystem. It is called the WMAPD Program. Its main function is to produce a gray scale Lambert Projection map showing ozone concentrations. See figure 4.3.3-1. Contact R. Sullivan Code 942 for details.

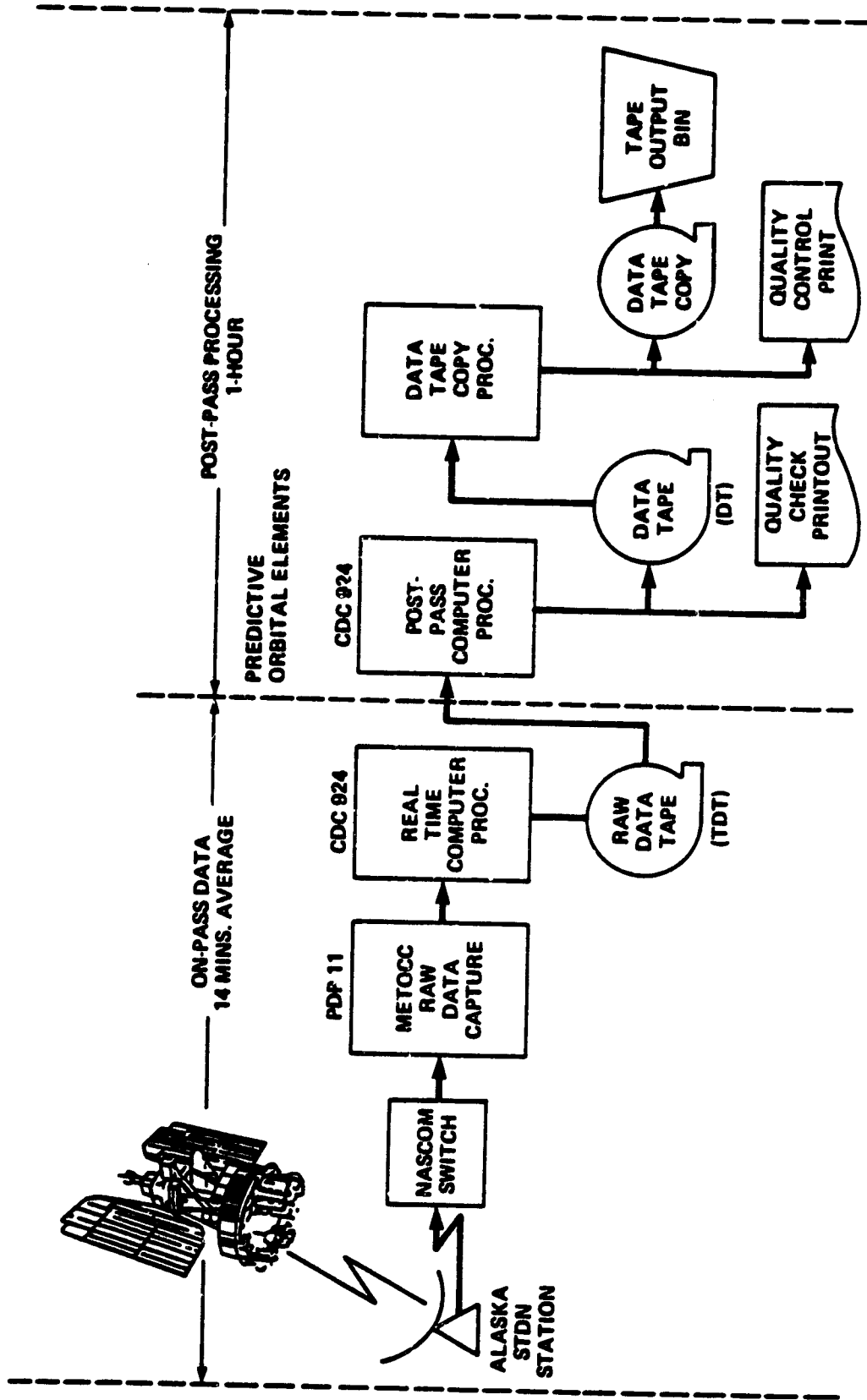


Figure 4.3.1-1. METOCC TOMS Data Acquisition and Processing Profile

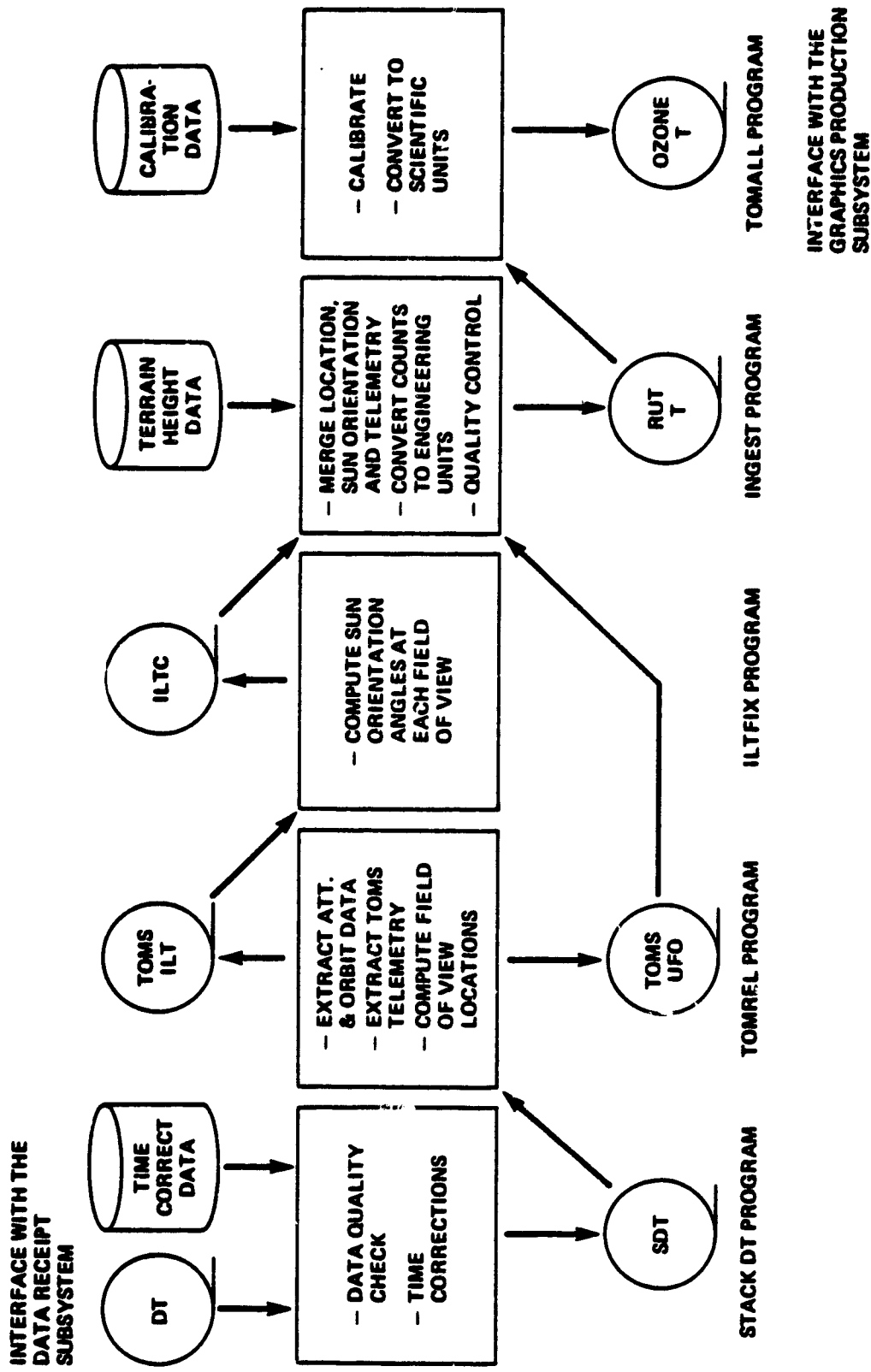


Figure 4.3.2-1. Data Processing Subsystem Detailed Processing Flow

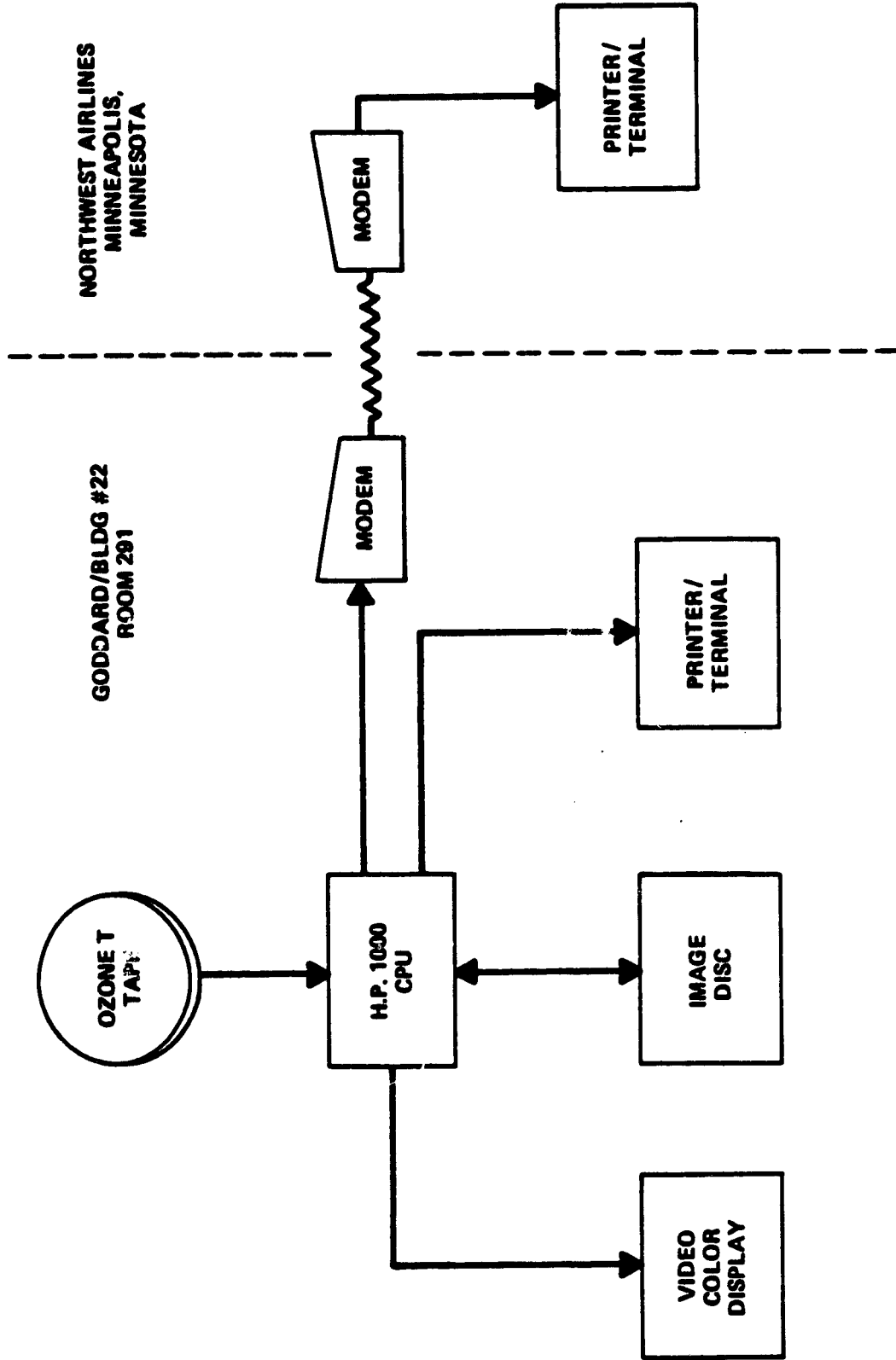


Figure 4.3.3-1. Graphics Processing and Display

SECTION 5. SYSTEM HISTORY

5.1 Definition and Design. System requirements were presented to Code 931 in a meeting in November 1980 by A. Krueger and R. Hudson of Code 963 along with a proposed design. Within the next few weeks the author showed that it would be feasible to design, implement and operate the Data Processing Subsystem. Work was begun immediately. This involved establishing schedules, interfaces among the three component subsystems, defining the responsibility of each, estimating cost and time schedules, and design and implementation of the Data Processing Subsystem. See figure 5.1-1 for the time schedule. The resulting design has been described in section 4.

5.2 Operations. The system was successfully able to meet the requirement of producing ozone maps within 6 hours of ground receipt of satellite data because the operation of each subsystem's computers was run in a priority mode. It is even more important to recognize that despite having priority access to the computers involved, the operations would not have been successful had it not been for the high degree of integrity and responsibility displayed by the operators.

Beginning with the Data Receipt Subsystem, that group established priority production of the required data tapes (DT's). In addition they modified the scheduling for the ground receipt of NIMBUS 7 data at Alaska so that our time requirements could be met.

The Data Processing Subsystem operations not only involved executing the functions of that subsystem but the operator was also required to pick up input tapes from the Data Receipt Subsystem, deliver output tapes to the Graphics Production Subsystem and be responsible for the overall flow and accounting of data between subsystems.

On weekends the requirement for delivering data within six hours of ground receipt were relaxed due to budget constraints. Saturday and Sunday data were processed and delivered to the Graphic Production Subsystem by noon on Monday.

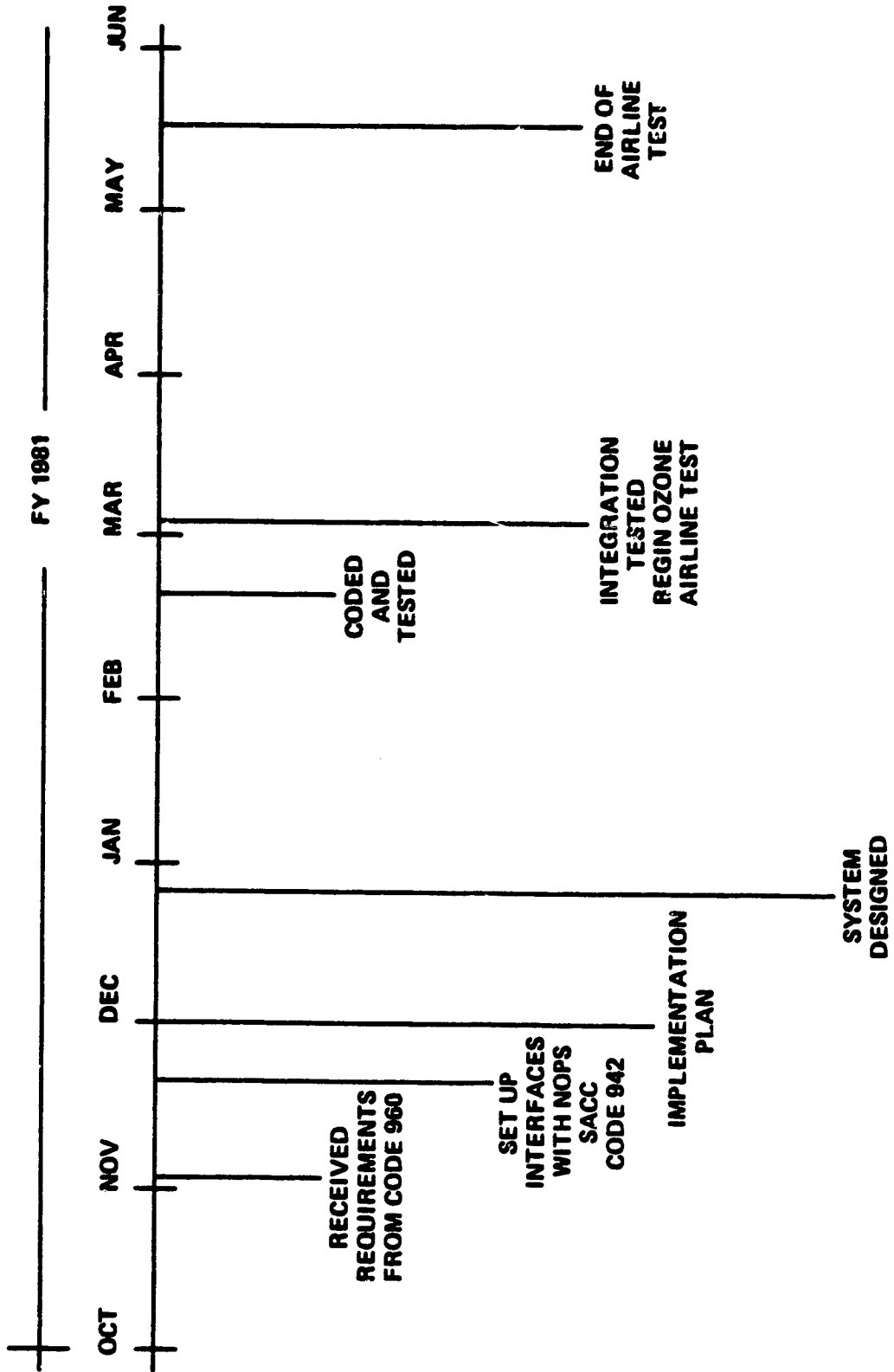


Figure 5.1-1. TMS Near Real Time Processing Schedule

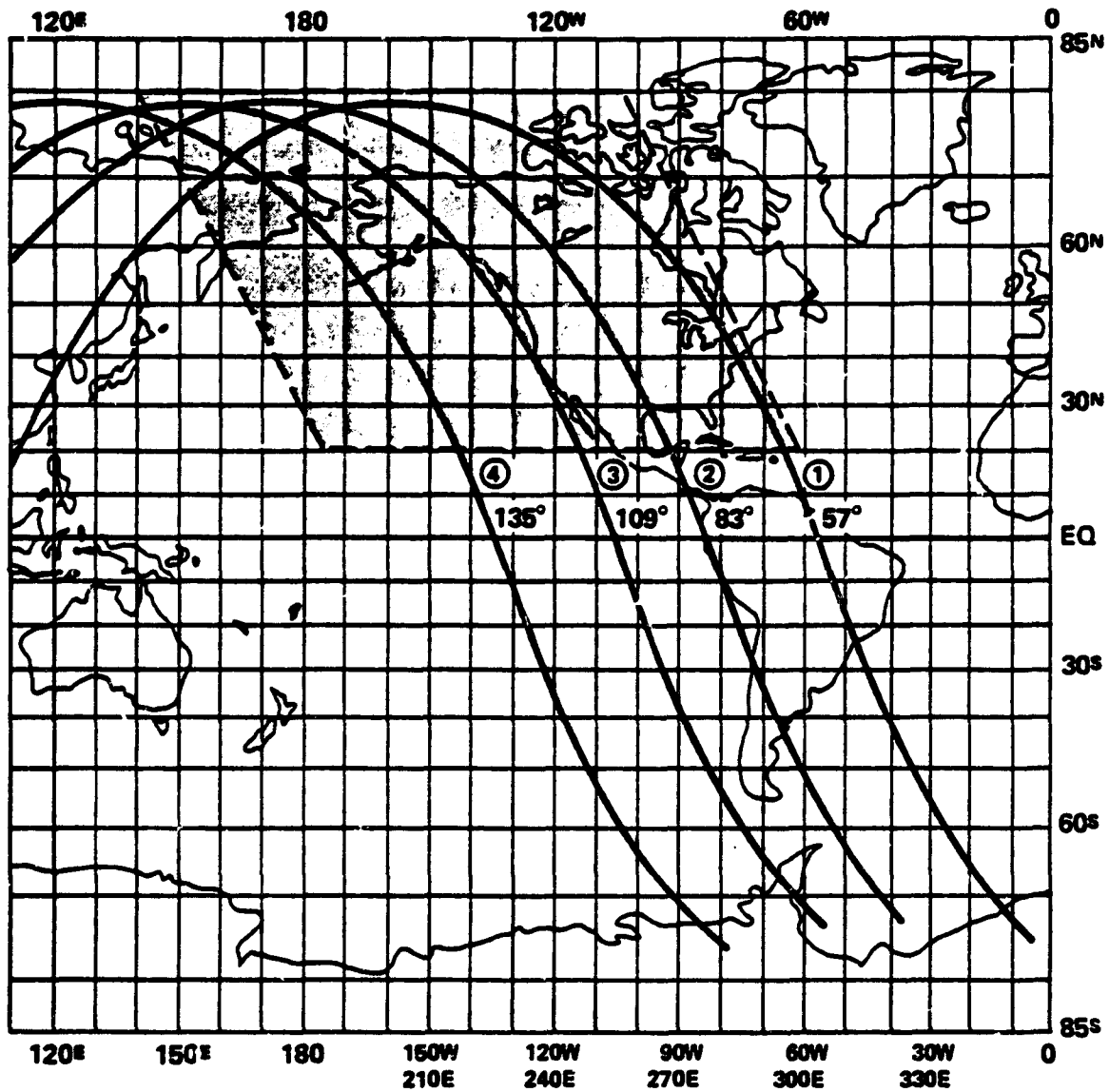
The Graphics Production Subsystem operations were specially set up to help meet our time requirements. The operator hours were set so that he would be available during the hours when the first through fourth orbits would be received (typically noon to 8 p.m.). In addition, this subsystem collected the Ozone T tapes delivered to them so that they could be archived. See section 5.4.

5.3 Log of Data Processed. The data processed ran from March 1, 1981 through May 15, 1981. The goal was to process those orbits of NIMBUS 7 which would produce coverage of the North American continent and Hawaii. See figure 5.3-1. The algorithm used to select the orbits was to process the first four orbits of the day whose ascending nodes were west of 51 W longitude. Because of the daily precession of the orbit on some days three orbits were sufficient to give the required coverage. See appendix A for a description of the orbits processed. It would be noted that during the course of operations three modifications were made to the Data Processing Subsystem software to correct minor problems. Each of those problems would occur only under certain rare circumstances and thus processing of most of the orbits was unaffected. Eight of the 297 orbits processed from March 1, 1981 through May 15, 1981 were reprocessed on May 21 to remove small blocks of bad data. The modifications made occurred on March 27, April 15 and April 30. Each modification is documented in reference 1.2.3. The reprocessed orbits are identified in appendix B.

The log kept by the Data Processing Subsystem operator is shown in appendix B. This log records the details of the processing of each orbit.

5.4 Archival. The products archived for future reference include:

- a. All of the NIMBUS 7 Data recorded by NOPS which were used for this project. Each week of data (28 orbits) in the period March 1, 1981 through May 15, 1981 was stacked onto one single high density tape using the STACKDT program described in section 4.3 and in references 1.2.3, 1.2.5 and 1.2.6. The eleven stacked tapes generated are archived at NSSDC. A copy of these eleven tapes is also stored in the Information Management Branch tape library. Note that each orbit of data on these stacked tapes has been processed by the



**DATA DAY TO START WITH 1ST ORBIT WITH ASCENDING
NODE MORE WESTERLY THAN 51° WEST**

Figure 5.3-1. Typical 4 Orbit Coverage

same program which comprises the first step of the Data Processing Subsystem. Therefore, if this data ever needs to be reprocessed through the system, step one of the Data Processing Subsystem should be skipped.

- b. All of the OZONE-T tapes output by the system. (These contain the ozone profiles.) The original OZONE-T tapes which each contain a single data file are being stacked onto fewer tapes each of which will contain multiple data files. The archival site will be selected by A. Krueger.
- c. All of the printer generated Lamuert projection maps (both single orbit and daily four orbit composites) as well as the color photographs of each daily composite. The archival site will be selected by A. Krueger.
- d. All of the SACC IBM 360 computer printouts from the jobs which created the OZONE-T tapes from the DT's. These, as well as the jobs which created the stacked tapes referred to as archival item a. above, are archived at the Federal Records Warehouse. They may be accessed by contacting the Information Management Branch librarian, J. Cleveland.
- e. All software and input data sets which comprise the Data Processing Subsystem. These are archived both at the Goddard Program Library and the Information Management Branch Library.

5.5 Conclusions. The TOMS Near Realtime System has demonstrated that it is feasible to process TOMS data quickly enough to deliver map products to an end user within 6 hours of ground receipt of the satellite data. See figure 5.5-1.

Based on the experience gained during this demonstration period it should be quite possible to modify the existing system to reduce the delivery time even further. There are many possible ways to do this. The two most significant changes which could be made are:

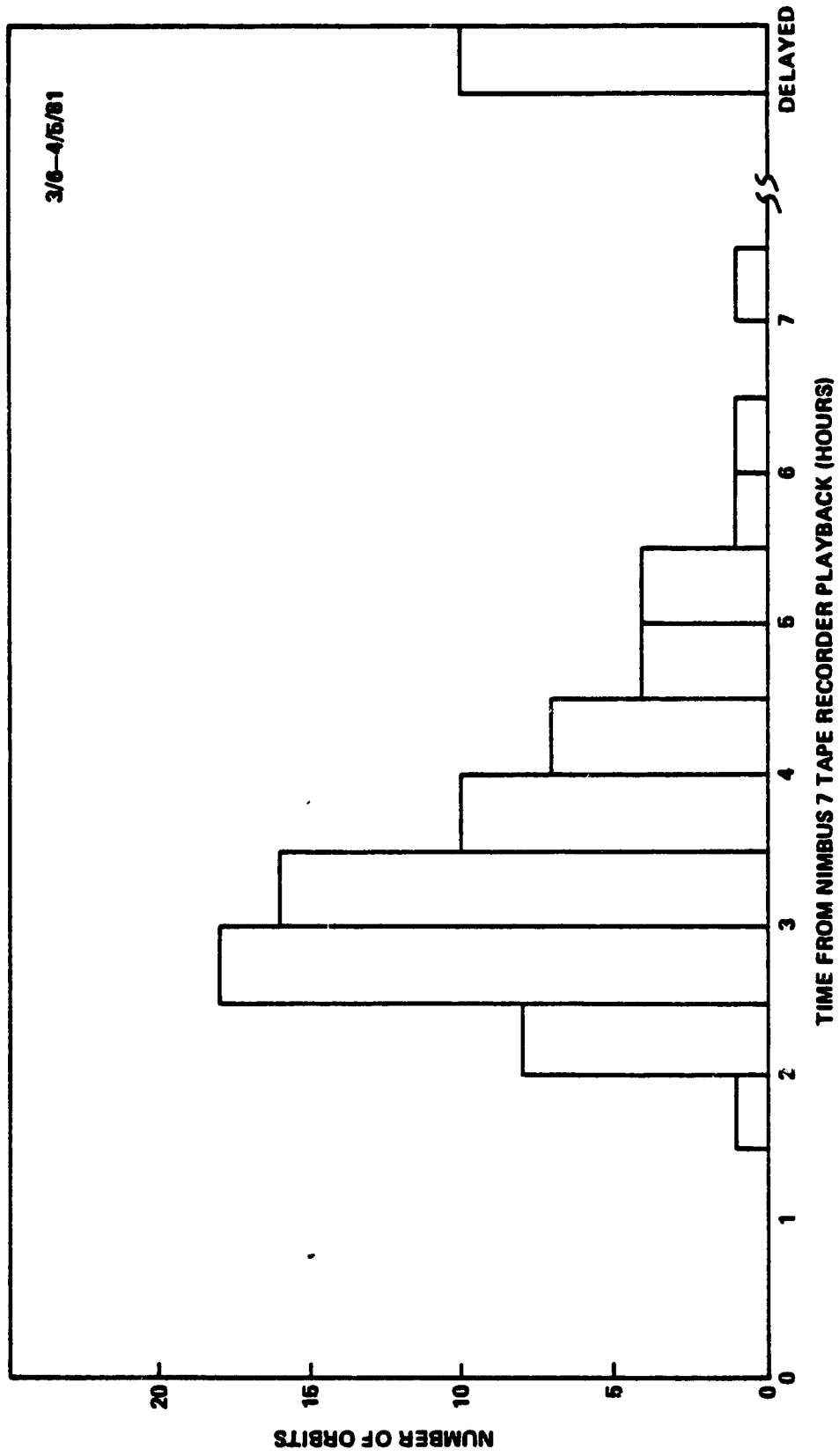


Figure 5.5-1. Delivery Time Performance

- 1. Combine the Data Processing Subsystem and the Graphics Production Subsystem so that their functions are all executed on one computer.**
- 2. Combine the five distinct job steps in the Data Processing Subsystem so that transmission of data between steps is done by using computer memory only.**

APPENDIX A

DATA LOG

JULIAN DAY	DAY OF WEEK	DATE YYMMDD	LOCAL HH MM	ORBIT NO.	GEOG. LONG. OF ASCEND. NODE	DATE PROCESSED	NOTES
60	SUN	81/3/1	10:55	11877	W61.01	3/2	
60	SUN	81/3/1	12:39	11878	W87.06	3/2	
60	SUN	81/3/1	14:23	11879	W113.11	3/2	
60	SUN	81/3/1	16:07	11880	W139.16	3/2	
61	MON	81/3/2	11:13	11891	W65.70	3/2	
61	MON	81/3/2	12:58	11892	W91.75	3/2	
61	MON	81/3/2	14:42	11893	W117.79	3/2	
61	MON	81/3/2	16:26	11894	W143.84	3/2	
62	TUES	81/3/3	11:32	11905	W70.38	3/3	
62	TUES	81/3/3	13:16	11906	W96.43	3/3	
62	TUES	81/3/3	15:01	11907	W122.48	3/3	B
62	TUES	81/3/3	16:45	11908	W148.53	3/3	A
63	MED	81/3/4	11:51	11919	W75.07	3/4	
63	MED	81/3/4	13:35	11920	W101.12	3/4	
63	MED	81/3/4	15:19	11921	W127.16	3/4	
63	MED	81/3/4	17:03	11922	W153.21	3/4	
64	THURS	81/3/5	10:25	11932	W53.70	3/5	
64	THURS	81/3/5	12:10	11933	W79.75	3/5	
64	THURS	81/3/5	13:54	11934	W105.80	3/5	
64	THURS	81/3/5	15:38	11935	W131.85	-	A

Note B - Reprocessed 5/21 to correct small block of bad data
Note A - Not processed. First 3 orbits gave desired coverage

JULIAN DAY	DAY OF WEEK	DATE YYMMDD	LOCAL HH MM	ORBIT NO.	GEOG. LONG. OF ASCEND. NODE	DATE PROCESSED	NOTES
65	FRI	81/3/6	10:44	11946	W58.39	3/6	
65	FRI	81/3/6	12:28	11947	W84.44	3/6	
65	FRI	81/3/6	14:13	11948	W110.49	3/6	
65	FRI	81/3/6	15:57	11949	W136.53	3/6	
66	SAT	81/3/7	11:03	11960	W63.07	3/9	
66	SAT	81/3/7	12:47	11961	W89.12	3/9	
66	SAT	81/3/7	14:31	11962	W115.17	3/9	
66	SAT	81/3/7	16:16	11963	W141.22	-	A
67	SUN	81/3/8	11:22	11974	W67.76	3/9	
67	SUN	81/3/8	13:06	11975	W93.81	3/9	
67	SUN	81/3/8	14:50	11976	W119.85	3/9	
67	SUN	81/3/8	16:34	11977	W145.90	3/9	
68	MON	81/3/9	11:40	11988	W72.44	3/9	
68	MON	81/3/9	13:25	11989	W98.49	3/9	
68	MON	81/3/9	15:09	11990	W124.54	3/9	
68	MON	81/3/9	16:53	11991	W150.59	3/9	
69	TUES	81/3/10	10:15	12001	W51.08	3/10	
69	TUES	81/3/10	11:59	12002	W77.13	3/10	
69	TUES	81/3/10	13:43	12003	W103.18	3/10	
69	TUES	81/3/10	15:25	12004	W129.22	3/10	

JULIAN DAY	DAY OF WEEK	DATE YYMMDD	LOCAL HH MM	ORBIT NO.	GEOG. LONG. OF ASCEND. NODE	DATE PROCESSED	NOTES
70	WED	81/3/11	10:34	12015	M55.76	3/11	
70	WED	81/3/11	12:18	12016	M81.81	3/11	
70	WED	81/3/11	14:02	12017	M107.86	3/11	
70	WED	81/3/11	15:46	12018	M133.91	3/11	
71	THURS	81/3/12	10:52	12029	M60.45	3/12	
71	THURS	81/3/12	12:37	12030	M86.50	3/12	
71	THURS	81/3/12	14:21	12031	M112.54	3/12	B
71	THURS	81/3/12	16:05	12032	M138.59	3/12	
72	FRI	81/3/13	11:11	12043	M65.13	3/13	
72	FRI	81/3/13	12:55	12044	M91.18	3/13	
72	FRI	81/3/13	14:40	12045	M117.23	3/13	
72	FRI	81/3/13	16:24	12046	M143.28	-	A
73	SAT	81/3/14	11:30	12057	M69.82	3/16	
73	SAT	81/3/14	13:14	12058	M95.86	3/16	
73	SAT	81/3/14	14:58	12059	M121.91	3/31	C
73	SAT	81/3/14	16:42	12060	M147.96	3/31	C
74	SUN	81/3/15	11:49	12071	M74.50	3/16	
74	SUN	81/3/15	13:33	12072	M100.55	3/16	
74	SUN	81/3/15	15:17	12073	M126.60	3/16	
74	SUN	81/3/15	17:01	12074	M152.65	3/16	B

Note C - Not processed until date shown due to error in software. The error did not effect other orbits.

JULIAN DAY	DAY OF WEEK	DATE YYMMDD	LOCAL HH MM	ORBIT NO.	GEOG. LONG. OF ASCEND. NODE	DATE PROCESSED	NOTES
75	MON	81/3/16	10:23	12084	W53.14	3/16	
75	MON	81/3/16	11:17	12085	W79.19	3/16	
75	MON	81/3/16	13:52	12086	W135.23	3/25	C
75	MON	81/3/16	15:36	12087	W131.28	3/25	C
76	TUES	81/3/17	10:42	12098	W57.82	3/17	
76	TUES	81/3/17	12:26	12099	W83.87	3/17	
76	TUES	81/3/17	14:10	12100	W109.92	3/17	
76	TUES	81/3/17	15:54	12101	W135.97	3/31	C
77	MED	81/3/18	11:01	12112	W62.50	3/18	
77	MED	81/3/18	12:45	12113	W88.55	3/18	
77	MED	81/3/18	14:29	12114	W114.60	3/18	
77	MED	81/3/18	16:13	12115	W140.65	3/18	
78	THURS	81/3/19	11:10	12126	W67.19	3/19	
78	THURS	81/3/19	13:04	12127	W93.24	3/19	
78	THURS	81/3/19	14:48	12128	W119.28	3/19	
78	THURS	81/3/19	16:32	12129	W145.33	3/31	C
79	FRI	81/3/20	11:38	12140	W71.87	3/20	
79	FRI	81/3/20	13:22	12141	W97.97	3/20	
79	FRI	81/3/20	15:07	12142	W123.97	3/20	
79	FRI	81/3/20	16:51	12143	W150.02	3/20	

JULIAN DAY	DAY OF WEEK	DATE YYMMDD	LOCAL HH MM	ORBIT NO.	GEOG. LONG. OF ASCEND. NODE	DATE PROCESSED	NOTES
80	SAT	81/3/21	11:57	12154	W76.56	3/23	
80	SAT	81/3/21	13:41	12155	W102.60	3/23	
80	SAT	81/3/21	15:25	12156	W128.65	3/23	
80	SAT	81/3/21	17:09	12157	W154.70	3/23	
81	SUN	81/3/22	10:31	12167	W55.19	3/23	
81	SUN	81/3/22	12:16	12168	W81.24	3/23	
81	SUN	81/3/22	14:00	12169	W107.29	3/23	
81	SUN	81/3/22	15:44	12170	W133.34	3/23	
82	MON	81/3/23	10:50	12181	W59.87	3/23	
82	MON	81/3/23	12:34	12182	W85.92	3/23	
82	MON	81/3/23	14:19	12183	W111.97	3/23	
82	MON	81/3/23	16:03	12184	W138.02	3/23	
83	TUES	81/3/24	11:09	12195	W64.56	3/24	
83	TUES	81/3/24	12:53	12196	W90.61	3/24	
83	TUES	81/3/24	14:37	12197	W116.65	3/24	
83	TUES	81/3/24	16:21	12198	W142.70	3/24	
84	WED	81/3/25	11:28	12209	W69.24	3/25	
84	WED	81/3/25	13:12	12210	W95.29	3/25	
84	WED	81/3/25	14:56	12211	W121.34	3/25	B
84	WED	81/3/25	16:40	12212	W147.39	3/25	

JULIAN DAY	DAY OF WEEK	DATE YYMMDD	LOCAL HH MM	ORBIT NO.	GEOG. LONG. OF ASCEND. NODE	DATE PROCESSED	NOTES
85	THURS	81/3/26	11:46	12223	W73.92	3/26	
85	THURS	81/3/26	13:31	12224	W99.97	"	
85	THURS	81/3/26	15:15	12225	W126.02	"	
85	THURS	81/3/26	16:59	12226	W152.07	"	
86	FRI	81/3/27	10:21	12236	W52.56	3/27	
86	FRI	81/3/27	12:05	12237	W78.61	"	
86	FRI	81/3/27	13:49	12238	W104.66	"	
86	FRI	81/3/27	15:33	12239	W130.70	"	
87	SAT	81/3/28	10:40	12250	W57.24	3/27	
87	SAT	81/3/28	12:24	12251	W83.29	"	
87	SAT	81/3/28	14:08	12252	W109.34	"	
87	SAT	81/3/28	15:52	12253	W135.39	"	
88	SUN	81/3/29	10:58	12264	W61.93	3/30	
88	SUN	81/3/29	12:43	12265	W87.97	"	
88	SUN	81/3/29	14:27	12266	W114.02	"	
88	SUN	81/3/29	16:11	12267	W140.07	"	
89	MON	81/3/30	11:17	12278	W66.61	3/30	
89	MON	81/3/30	13:01	12279	W92.66	"	
89	MON	81/3/30	14:45	12280	W118.70	"	
89	MON	81/3/30	16:30	12281	W144.75	"	
90	TUES	81/3/31	11:36	12292	W71.29	3/31	
90	TUES	81/3/31	13:20	12293	W97.34	"	
90	TUES	81/3/31	15:04	12294	W123.39	"	
90	TUES	81/3/31	16:48	12295	W149.44	"	C

JULIAN DAY	DAY OF WEEK	DATE YYMMDD	LOCAL HI MI	ORBIT NO.	GEOG. LONG. OF ASCEND. NODE	DATE PROCESSED	NOTES
91	WED	81/4/1	11:54	12306	W75.90	4/1	
91	WED	81/4/1	13:38	12307	W101.94	"	
91	WED	81/4/1	15:23	12308	W127.99	"	
91	WED	81/4/1	17:07	12309	W154.04	"	
92	THURS	81/4/2	10:29	12319	W54.53	4/2	
92	THURS	81/4/2	12:13	12320	W80.57	"	
92	THURS	81/4/2	13:57	12321	W106.62	"	
92	THURS	81/4/2	15:41	12322	W132.67	"	
93	FRI	81/4/3	10:47	12333	W59.21	4/3	
93	FRI	81/4/3	12:32	12334	W85.25	"	
93	FRI	81/4/3	14:16	12335	W111.30	"	B
93	FRI	81/4/3	16:00	12336	W137.35	"	
94	SAT	81/4/4	11:06	12347	W63.89	4/6	
94	SAT	81/4/4	12:50	12348	W89.93	"	
94	SAT	81/4/4	14:35	12349	W115.98	"	
94	SAT	81/4/4	16:19	12350	W142.03	"	
95	SUN	81/4/5	11:25	12361	W68.57	4/6	
95	SUN	81/4/5	13:09	12362	W94.61	"	
95	SUN	81/4/5	14:53	12363	W120.66	"	
95	SUN	81/4/5	16:37	12364	W146.71	"	

JULIAN DAY	DAY OF WEEK	DATE YYMMDD	LOCAL HH MM	ORBIT NO.	GEOG. LONG. OF ASCEND. NODE	DATE PROCESSED	NOTES
96	MON	81/4/6	11:44	12375	W73.25	4/6	
96	MON	81/4/6	13:28	12376	W99.29	"	
96	MON	81/4/6	15:12	12377	W125.34	"	
96	MON	81/4/6	16:56	12378	W151.39	"	
97	TUES	81/4/7	10:18	12388	W51.88	4/7	
97	TUES	81/4/7	12:02	12389	W77.92	"	
97	TUES	81/4/7	13:47	12390	W105.97	"	
97	TUES	81/4/7	15:31	12391	W130.02	"	
98	WED	81/4/8	10:37	12402	W56.56	4/8	
98	WED	81/4/8	12:21	12403	W82.60	"	
98	WED	81/4/8	14:05	12404	W108.65	"	
98	WED	81/4/8	15:49	12405	W134.70	"	
99	THURS	81/4/9	15:56	12416	W61.24	4/9	
99	THURS	81/4/9	12:40	12417	W87.28	"	
99	THURS	81/4/9	14:24	12418	W113.33	"	
99	THURS	81/4/9	16:08	12419	W139.88	"	
100	FRI	81/4/10	11:14	12430	W65.92	4/10	
100	FRI	81/4/10	12:58	12431	W91.96	"	
100	FRI	81/4/10	14:43	12432	W118.01	"	
100	FRI	81/4/10	16:27	12433	W144.06	"	

JULIAN DAY	DAY OF WEEK	DATE YYYMMDD	LOCAL HH MM	ORBIT NO.	GEOG. LONG. OF ASCEND. NODE	DATE PROCESSED	NOTES
101	SAT	81/4/11	11:33	12444	W70.59	4/13	
101	SAT	81/4/11	13:17	12445	W95.64	"	
101	SAT	81/4/11	15:01	12446	W122.69	"	
101	SAT	81/4/11	16:46	12447	W148.74	-	A
102	SUN	81/4/12	11:52	12458	W75.27	4/13	
102	SUN	81/4/12	13:36	12459	W101.32	"	
102	SUN	81/4/12	15:23	12460	W127.37	"	B
102	SUN	81/4/12	17:04	12461	W153.42	"	
103	MON	81/4/13	11:26	12471	W53.90	4/13	
103	MON	81/4/13	12:10	12472	W79.95	"	
103	MON	81/4/13	13:55	12473	W106.00	"	
103	MON	81/4/13	15:39	12474	W132.05	"	
104	TUES	81/4/14	10:45	12485	W58.58	4/14	
104	TUES	81/4/14	12:29	12486	W84.63	"	B
104	TUES	81/4/14	14:13	12487	W110.68	"	B
104	TUES	81/4/14	15:58	12488	W136.73	"	
105	WED	81/4/15	11:04	12499	W62.26	4/15	
105	WED	81/4/15	12:48	12500	W89.31	"	
105	WED	81/4/15	14:32	12501	W115.36	"	
105	WED	81/4/15	16:16	12502	W141.41	"	

JULIAN DAY	DAY OF WEEK	DATE YYMMDD	LOCAL HH MM	ORBIT NO.	GEOG. LONG. OF ASCEND. NODE	DATE PROCESSED	NOTES
106	THURS	81/4/16	11:22	12513	W67.94	4/16	
106	THURS	81/4/16	13:07	12514	W93.99	"	
106	THURS	81/4/16	14:51	12515	W120.04	"	
106	THURS	81/4/16	16:35	12516	W146.08	4/17	D
107	FRI	81/4/17	11:41	12527	W72.62	4/17	
107	FRI	81/4/17	13:25	12528	W98.67	"	
107	FRI	81/4/17	15:09	12529	W124.71	"	
107	FRI	81/4/17	16:54	12530	W150.76	"	
108	SAT	81/4/18	11:16	12540	W51.25	4/20	
108	SAT	81/4/18	12:00	12541	W77.30	"	
108	SAT	81/4/18	13:44	12542	W103.34	"	
108	SAT	81/4/18	15:28	12543	W129.39	"	
109	SUN	81/4/19	10:34	12554	W55.93	4/20	
109	SUN	81/4/19	12:19	12555	W81.97	"	
109	SUN	81/4/19	14:03	12556	W108.02	"	
109	SUN	81/4/19	15:47	12557	W134.07	"	
110	MON	81/4/20	10:53	12568	W60.60	4/20	
110	MON	81/4/20	12:37	12569	W86.65	"	
110	MON	81/4/20	14:21	12570	W112.70	"	
110	MON	81/4/20	16:06	12571	W138.75	"	

Note D - Delay caused by computer failure

JULIAN DAY	DAY OF WEEK	DATE YYYMMDD	LOCAL HH MM	ORBIT NO.	GEOG. LONG. OF ASCEND. NODE	DATE PROCESSED	NOTES
111	TUES	81/4/21	11:12	12582	W65.28	4/21	
111	TUES	81/4/21	12:56	12583	W91.33	"	
111	TUES	81/4/21	14:40	12584	W117.38	"	
111	TUES	81/4/21	16:24	12585	W143.43	"	
112	MED	81/4/22	11:30	12596	W69.96	4/22	
112	MED	81/4/22	13:15	12597	W96.01	"	
112	MED	81/4/22	14:59	12598	W122.06	"	
112	MED	81/4/22	16:43	12599	W148.10	-	A
113	THURS	81/4/23	11:49	12610	W74.64	4/23	
113	THURS	81/4/23	13:33	12611	W100.69	"	
113	THURS	81/4/23	15:18	12612	W126.73	"	
113	THURS	81/4/23	17:02	12613	W152.78	"	
114	FRI	81/4/24	10:24	12623	W53.27	4/24	
114	FRI	81/4/24	12:08	12624	W79.32	"	
114	FRI	81/4/24	13:52	12625	W105.36	"	
114	FRI	81/4/24	15:36	12626	W131.41	"	
115	SAT	81/4/25	10:42	12637	W57.95	4/27	
115	SAT	81/4/25	12:27	12638	W83.99	"	
115	SAT	81/4/25	14:11	12639	W110.04	"	
115	SAT	81/4/25	15:55	12640	W136.09	"	

JULIAN DAY	DAY OF WEEK	DATE YYYMMDD	LOCAL HH MM	ORBIT NO.	GEOG. LONG. OF ASCEND. NODE	DATE PROCESSED	NOTES
116	SUN	81/4/26	11:01	12651	M62.62	4/27	
116	SUN	81/4/26	12:45	12652	M88.67	"	
116	SUN	81/4/26	14:29	12653	M114.72	"	
116	SUN	81/4/26	16:14	12654	M140.77	"	
117	MON	81/4/27	11:20	12665	M67.30	4/27	
117	MON	81/4/27	13:04	12666	M93.35	"	
117	MON	81/4/27	14:48	12667	M119.40	"	
117	MON	81/4/27	16:32	12668	M145.44	"	
118	TUES	81/4/28	11:39	12679	M71.98	4/28	
118	TUES	81/4/28	13:23	12680	M98.03	"	
118	TUES	81/4/28	15:07	12681	M124.07	"	
118	TUES	81/4/28	16:51	12682	M150.12	"	
119	WED	81/4/29	11:57	12693	M76.65	4/29	
119	WED	81/4/29	13:41	12694	M102.70	"	
119	WED	81/4/29	15:26	12695	M128.75	"	
119	WED	81/4/29	17:10	12696	M154.80	-	A
120	THURS	81/4/30	10:32	12706	M55.28	4/30	
120	THURS	81/4/30	12:16	12707	M81.33	"	
120	THURS	81/4/30	14:00	12708	M107.38	5/1	E
120	THURS	81/4/30	15:44	12709	M133.43	"	

Note E - Delayed due to equipment failure at ground station

JULIAN DAY	DAY OF WEEK	DATE YYMMDD	LOCAL HH MM	ORBIT NO.	GEOG. LONG. OF ASCEND. NODE	DATE PROCESSED	NOTES
121	FRI	81/5/1	10:50	12720	W59.91	5/4	E
121	FRI	81/5/1	12:34	12721	W85.96	"	E
121	FRI	81/5/1	14:19	12722	W112.01	"	E
121	FRI	81/5/1	16:03	12723	W138.05	"	E
122	SAT	81/5/2	11:09	12734	W64.59	5/4	
122	SAT	81/5/2	12:53	12735	W90.63	"	
122	SAT	81/5/2	14:37	12736	W116.68	"	
122	SAT	81/5/2	16:22	12737	W142.73	"	
123	SUN	81/5/3	11:28	12748	W69.26	5/4	
123	SUN	81/5/3	13:12	12749	W95.31	"	
123	SUN	81/5/3	14:56	12750	W121.35	"	
123	SUN	81/5/3	16:40	12751	W147.40	"	
124	MON	81/5/4	11:46	12762	W73.93	5/4	
124	MON	81/5/4	13:31	12763	W99.98	"	
124	MON	81/5/4	15:15	12764	W126.03	"	
124	MON	81/5/4	16:59	12765	W152.08	"	
125	TUES	81/5/5	10:21	12775	W52.56	5/5	
125	TUES	81/5/5	12:05	12776	W78.61	"	
125	TUES	81/5/5	13:49	12777	W104.65	"	
125	TUES	81/5/5	15:33	12778	W130.70	"	

JULIAN DAY	DAY OF WEEK	DATE YYMMDD	LOCAL HH MM	ORBIT NO.	GEOG. LONG. OF ASCEND. NODE	DATE PROCESSED	NOTES
126	WED	81/5/6	10:40	12789	W57.23	5/6	
126	WED	81/5/6	12:24	12790	W83.28	"	
126	WED	81/5/6	14:08	12791	W109.33	"	
126	WED	81/5/6	15:52	12792	W135.38	"	
127	THURS	81/5/7	10:58	12803	W61.91	5/7	
127	THURS	81/5/7	12:42	12804	W87.95	"	
127	THURS	81/5/7	14:27	12805	W114.00	"	
127	THURS	81/5/7	16:11	12806	W140.05	"	
128	FRI	81/5/8	11:17	12817	W66.58	5/8	
128	FRI	81/5/8	13:01	12818	W92.63	"	
128	FRI	81/5/8	14:45	12819	W116.67	"	
128	FRI	81/5/8	16:30	12820	W144.72	"	
129	SAT	81/5/9	11:36	12831	W71.25	5/11	
129	SAT	81/5/9	13:20	12832	W97.30	"	
129	SAT	81/5/9	15:04	12833	W123.35	"	
129	SAT	81/5/9	16:48	12834	W149.40	"	
130	SUN	81/5/10	11:54	12845	W75.93	5/11	
130	SUN	81/5/10	13:39	12846	W101.97	"	
130	SUN	81/5/10	15:23	12847	W128.02	"	
130	SUN	81/5/10	17:07	12848	W154.07	"	

JULIAN DAY	DAY OF WEEK	DATE YYMMDD	LOCAL HH MM	ORBIT NO.	GEOG. LONG. OF ASCEND. NODE	DATE PROCESSED	NOTES
131	MON	81/5/11	10:29	12858	W54.55	5/15	F
131	MON	81/5/11	12:13	12859	W80.60	5/15	F
131	MON	81/5/11	13:57	12860	W106.65	5/11	
131	MON	81/5/11	15:41	12861	W132.69	5/11	
132	TUES	81/5/12	10:47	12872	W59.22	5/13	G
132	TUES	81/5/12	12:32	12873	W85.27	"	G
132	TUES	81/5/12	14:16	12874	W111.32	"	G
132	TUES	81/5/12	16:00	12875	W137.37	"	G
133	MED	81/5/13	11:06	12886	W63.90	5/13	
133	MED	81/5/13	12:50	12887	W89.94	"	
133	MED	81/5/13	14:35	12888	W115.99	"	
133	MED	81/5/13	16:19	12889	W142.04	"	
134	THURS	81/5/14	11:25	12900	W68.57	5/14	
134	THURS	81/5/14	13:09	12901	W94.62	"	
134	THURS	81/5/14	14:53	12902	W120.66	"	
134	THURS	81/5/14	16:37	12903	W146.71	"	
135	FRI	81/5/15	11:44	12914	W73.24	5/15	
135	FRI	81/5/15	13:28	12915	W99.29	"	
135	FRI	81/5/15	15:12	12916	W125.34	"	
135	FRI	81/5/15	16:56	12917	W151.38	"	

Note F - Unresolved error in software caused delay. Error was not reproducible. Data processed normally on date shown.

Note G - Delay due to time spent analyzing output to assure good data. (See note F)

APPENDIX B

OPERATOR'S LOG

Date: 3/2/81
 Comments: JB

PLAYBACK		11872	11878	11879	11880
1	Start Date	3/1	3/1	3/1	3/1
1	DT Start Time	14/55	16/17	17/50	19/40
1	DT End Time	16/02	17/57	19/17	20/03
M	Pct. of DT	825 1/2	825 1/2	825 1/2	825 1/2
E	Time of Processing	941 1/2	841 1/2	841 1/2	841 1/2
S	Pct. of Printer	1100	1100	1100	1100
	Time of Delivery for Loading	1123	1123	1123	1123
	Transmission Time	1334	1400	1423	1444
P	Computer Used	75	75	91	91
R	Input Drive	—	—	—	—
D	STACK	0%	0%	0%	0%
C	TOMREL	0%	0%	0%	0%
E	ILTFIX	0%	0%	0%	0%
S	INGEST	0%	0%	0%	0%
S	OZONE	0%	0%	0%	0%
I	TRANSFER	2	2	2	2
N	COMMENTS	OK	OK	OK	OK
G					

Date: 3/2/81
 Comments: JB

PLAYBACK		11891	11892	11893	11894
1	Start Date	3/2	3/2	3/2	3/2
1	DT Start Time	14/54	16/16	17/58	19/40
1	DT End Time	16/50	17/49	19/03	20/03
M	Pct. of DT	1303	1410	1635	1810
E	Time of Processing	1309	1415	1700	1815
S	Pct. of Printer	1334	1517	1749	1848
	Time of Delivery for Loading	1343	1527	1758	1900
	Transmission Time	1507	1534	1805	1917
P	Computer Used	91	91	91	91
R	Input Drive	—	—	—	—
D	STACK	0%	0%	0%	0%
C	TOMREL	0%	0%	0%	0%
E	ILTFIX	0%	0%	0%	0%
S	INGEST	0%	0%	0%	0%
S	OZONE	0%	0%	0%	0%
I	TRANSFER	2	2	2	2
N	COMMENTS	OK	OK	OK	OK
G					

Date: 3/3/81
Operator: JB

Date: 3/4/81
Operator: RB

PLAYBACK		11905	11906	11907	11708
Generation date on DT	3/3	3/3	3/3	3/3	3/3
DT Start Time	15:12:27	14:55:07	14:55:07	14:55:07	14:55:07
DT End Time	1246	1440	1620	1810	
P.U. of DT	1251	1450	1629	1820	
Time of Processing Job Submission	1354	1522	1720	1850	
P.U. of Printout	1408	1535	1730		
Time of Delivery for Imaging	1429	1740	1756		
Transmission Time					
Computer Used	91	91	91	91	
Input Drive					
STACK	%	%	%	%	
TOMREL	%	%	%	%	
ILTFIX	%	%	%	%	
INGEST	%	%	%	%	
OZONE	%	%	%	%	
TAPESCAN	2	2	2	2	
COMMENTS	OK	OK	OK	OK	USER 46 Ingest
					30 bits Perished full coverage

PLAYBACK		11919	11920	11921	11922
Generation date on DT	3/4/81	3/4/81	3/4/81	3/4/81	3/4/81
DT Start Time	15:00:51	14:59:09	16:50	18:37	
DT End Time	1358	1505	1733	1905	
P.U. of DT	1438	1519	1742	1900	
Time of Processing Job Submission	1505	1633	1709	1801	
P.U. of Printout	1519	1633	1709	1801	
Time of Delivery for Imaging					
Transmission Time					
Computer Used	91	91	91	91	
Input Drive					
STACK	%	%	%	%	
TOMREL	%	%	%	%	
ILTFIX	%	%	%	%	
INGEST	%	%	%	%	
OZONE	%	%	%	%	
TAPESCAN	2	2	2	2	
COMMENTS					Maybe full coverage 16/16
					2 HAVE 24500 of RAT

Full Coverage
Delivered

Date: 3/5/81
Operator: *[Signature]*

PLAYBACK		11933	11934	11935	11937
Generation date on DT		3/5/81	3/5/81	3/5/81	3/5/81
DT Start Time		17:40:27	17:40:27	17:40:27	17:40:27
DT End Time		17:40:27	17:40:27	17:40:27	17:40:27
P.U. of DT		15:10	15:10	15:10	15:10
Time of Processing Job Submission		15:35	15:20	15:15	15:18
P.U. of Printout		14:23	15:48	17:51	17:47
Time of Delivery for Imaging		14:35	16:00	18:17	—
Transmission Time		1603	1634	1926	—
Computer Used		11	91	91	91
Input Drive		OD4	OD3	OD1	OD3
STACH		0/0	0/0	0/0	0/0
TOMREL		0/0	0/0	0/0	0/0
ILTFIX		0/0	0/0	0/0	0/0
INGEST		0/0	0/0	0/0	0/0
OZONE		0/0	0/0	0/0	0/0
TAPESCAN		2	2	2	2
COMMENTS					Bombard probably time seq. (Salvaged from NOPS with another orbit)
P					
R					
D					
C					
E					
S					
S					
I					
N					
G					

[Handwritten note: Bombard probably time seq. (Salvaged from NOPS with another orbit)]

Date: 3/5/81
Operator: *[Signature]*

PLAYBACK		11946	11947	11949	11949
Generation date on DT		3/5/81	3/5/81	3/5/81	3/5/81
DT Start Time		14:25:35	14:02:24	14:02:24	14:02:24
DT End Time		14:04:25	13/47/47	14/02/24	14/02/24
P.U. of DT		12:00	14:23	17:10	17:0
Time of Processing Job Submission		12:08	14:42	17:26	17:26
P.U. of Printout		13:00	15:10	18:00	18:03
Time of Delivery for Imaging		13:22	15:17	18:28	18:08
Transmission Time		1344	1344	1944	1944
Computer Used		91	91	91	91
Input Drive		OC1	OC0	OC0	OC1
STACH		0/0	0/0	0/0	0/0
TOMREL		0/0	0/0	0/0	0/0
ILTFIX		0/0	0/0	0/0	0/0
INGEST		0/0	0/0	0/0	0/0
OZONE		0/0	0/0	0/0	0/0
TAPESCAN		2	2	2	2
COMMENTS		ok	ok	ok	ok
P					
R					
D					
C					
E					
S					
S					
I					
N					
G					

Date: 3/7/81
Operator: GJR

PLAYBACK		11960	11961	11962	11963
T	Generation date on DT	3/7/81 13/7/81	3/8/81 14/8/81	3/9/81 15/8/81	3/10/81 16/8/81
I	DT Start Time	14/08/81 14/08/81	15/08/81 15/08/81	16/08/81 16/08/81	17/08/81 17/08/81
E	DT End Time	15/25/81	16/08/81 17/08/81	17/08/81	18/08/81
M	P.U. of DT	1800	1800	1800	1800
E	Time of Processing Job Submission	1827	1827	1827	1827
S	P.U. of Printout	1924	1939	1959	2001
	Time of Delivery for Imaging	2054	2054	2054	2054
	Transmission Time	90A	91A	93B	—
P	Computer Used	91	91	91	91
R	Input Drive	000	001	000	000
D	STACK	0/0	0/0	0/0	0/0
C	TOMREL	0/0	0/0	0/0	0/0
E	ILTFIN	0/0	0/0	0/0	0/0
S	INGEST	0/0	0/0	0/0	0/0
S	OZONE	0/0	0/0	0/0	16/
T	TAPESCAN PIN	2	2	2	2
N	COMMENTS	OK	OK	OK	Jobsite found. Full coverage
G					

Date: 3/11/81
Operator: GJR

PLAYBACK		11974	11975	11977	11977
T	Generation date on DT	3/8/81 13/8/81	3/8/81 13/8/81	3/8/81 13/8/81	3/8/81 13/8/81
I	DT Start Time	14/08/81 14/08/81	15/08/81 15/08/81	16/08/81 16/08/81	17/08/81 17/08/81
E	DT End Time	15/25/81	16/08/81 17/08/81	17/08/81	18/08/81
M	P.U. of DT	815 1/4	815 3/4	815 3/4	816 3/4
E	Time of Processing Job Submission	910	910	910	895
S	P.U. of Printout	929	929	929	1014
	Time of Delivery for Imaging	1045	1045	1045	1045
	Transmission Time	1196	1207	1230	1259
P	Computer Used	91	91	91	75
R	Input Drive	001	000	001	000
D	STACK	0/0	0/0	0/0	0/0
C	TOMREL	0/0	0/0	0/0	0/0
E	ILTFIN	0/0	0/0	0/0	0/0
S	INGEST	0/0	0/0	0/0	0/0
S	OZONE	0/0	0/0	0/0	0/0
T	TAPESCAN PIN	2	2	2	2
N	COMMENTS	OK	OK	OK	OK
G					

Date: 3/19/81
 Operator: SB
 TMS NEAR FIVE FROM CHECK
 OPERATOR: SB

PLAYBACK		11989	11989	11990	11991
Generation date on DT		3/9	3/9	3/9	3/9
T	DT Start Time	1524/15	1702/6	1844/10	2064/9
I	DT End Time	1702/19	1944/10	2064/15	2409/10
M	P.V. of DT	1730	1452	1650	1815
E	Time of Processing Job Submission	1718	1810	1703	1830
S	P.V. of Printout	1424	1549	1747	1907
	Time of Delivery for Imaging	1435	1556	1800	1789
	Transmission Time	1522	1658	1821	1955
P	Computer Used	91	91	91	91
R	Input Drive	0D0	0D0	0C1	0D0
D	STACK	0/0	0/0	0/0	0/0
C	TOMREL	0/0	0/0	0/0	0/0
E	ILTFIX	0/0	0/0	0/0	0/0
S	INGEST	0/0	0/0	0/0	0/0
S	OZONE	0/0	0/0	0/0	0/0
T	TAPESCAN	2	2	2	2
N	COMMENTS	OK	OK	OK	OK
G					

PLAYBACK		12001	12001	12001	12004
Generation date on DT		3/10	3/10	3/10	3/10
T	DT Start Time	1750/19	1840/10	1740/10	1903/07
I	DT End Time	1939/23	1949/19	1903/10	2070/23
M	P.V. of DT	1810	1815	1715	1715
E	Time of Processing Job Submission	1820	1820	1728	1728
S	P.V. of Printout	1837	1720	1739	1739
	Time of Delivery for Imaging	1845	1735	1745	1745
	Transmission Time	1900	1826	1837	1847
P	Computer Used	91	91	91	91
R	Input Drive				
D	STACK	0/0	0/0	0/0	0/0
C	TOMREL	0/0	0/0	0/0	0/0
E	ILTFIX	0/0	0/0	0/0	0/0
S	INGEST	0/0	0/0	0/0	0/0
S	OZONE	0/0	0/0	0/0	0/0
T	TAPESCAN	2	2	2	2
N	COMMENTS	OK	OK	OK	OK
G					

DIFFERENTIAL
TOMS NEAR REAL TIME LOGS FOR CHECK
Date 3-11-81
OPERATOR SHS

PLAYBACK		12015	12016	12017	12018	12019
T	Generation date on DT	3-11-81	3-11-81	3-11-81	3-11-81	3-11-81
I	DT Start Time	14:07	15:57	17:32	19:21	19:21
M	DT End Time	15:57	17:32	19:21	21:10	21:10
E	P.V. of DT	11.59	14.05	16.00	17.10	17.45
S	Time of Processing Job Submission	12.13	15.00	16.10	17.29	18.35
	P.V. of Printout	17.22	15.39	18.25	17.44	18.51
	Time of Delivery for Imaging	13.42	15.50	18.35	18.44	19.20
	Transmission Time	14:08	16:30	18:41	20:51	22:00

DIFFERENTIAL
TOMS NEAR REAL TIME LOGS FOR CHECK
Date 3-11-81
OPERATOR SHS

PLAYBACK		12015	12016	12017	12018	12019
T	Generation date on DT	3-11-81	3-11-81	3-11-81	3-11-81	3-11-81
I	DT Start Time	14:07	15:57	17:32	19:21	19:21
M	DT End Time	15:57	17:32	19:21	21:10	21:10
E	P.V. of DT	11.59	14.05	16.00	17.10	17.45
S	Time of Processing Job Submission	12.13	15.00	16.10	17.29	18.35
	P.V. of Printout	17.22	15.39	18.25	17.44	18.51
	Time of Delivery for Imaging	13.42	15.50	18.35	18.44	19.20
	Transmission Time	14:08	16:30	18:41	20:51	22:00

Computer Used	Input Drive	STACK	TOMAREL	ILTFIX	INGEST	OZONE	TAPESCAN	PERN	COMMENTS
P	91	0	0	0	0	0	0	2	OK
R	91	0	0	0	0	0	0	2	OK
D	91	0	0	0	0	0	0	2	OK
C	91	0	0	0	0	0	0	2	OK
E	91	0	0	0	0	0	0	2	OK
S	91	0	0	0	0	0	0	2	OK
S	91	0	0	0	0	0	0	2	OK
I	91	0	0	0	0	0	0	2	OK
N	91	0	0	0	0	0	0	2	OK
G	91	0	0	0	0	0	0	2	OK

Computer Used	Input Drive	STACK	TOMAREL	ILTFIX	INGEST	OZONE	TAPESCAN	PERN	COMMENTS
P	91	0	0	0	0	0	0	2	OK
R	91	0	0	0	0	0	0	2	OK
D	91	0	0	0	0	0	0	2	OK
C	91	0	0	0	0	0	0	2	OK
E	91	0	0	0	0	0	0	2	OK
S	91	0	0	0	0	0	0	2	OK
S	91	0	0	0	0	0	0	2	OK
I	91	0	0	0	0	0	0	2	OK
N	91	0	0	0	0	0	0	2	OK
G	91	0	0	0	0	0	0	2	OK

Date: 3/12/81
Operator: AB

PLAYBACK		12029	12030	12031	12032
Generation date on DT		3/12/81	3/12	3/12	2/82
DT Start Time		14/19/81	16/19/81	17/19/81	19/19/81
DT End Time		16/19/81	17/19/81	18/19/81	20/19/81
P.V. of DT		1300	1407	1603	1753
Time of Processing Job Submission		1310	1440	1610	1803
P.V. of Printout		1457	1510	1715	1928
Time of Delivery for Printing		1505	1535	1730	1895
Transmission Time		1528	1602	1824	1915
Computer Used	91	91	91	91	91
Input Drive	OCI	OD0	OD0	OD0	OD1
STACH	RE %	0/0	0/0	0/0	0/0
TOMREL	RE %	0/0	0/0	0/0	0/0
ILTFIX	RE %	0/0	0/0	0/0	0/0
INGEST	RE %	0/0	0/0	0/0	0/0
OZONE	RE %	0/0	0/0	0/0	0/0
TABESCHM	PER	2	2	2	2
COMMENTS		OK	OK	OK	OK
		91	Down 30 min		

Date: 3/17/81
Operator: AB

PLAYBACK		12043	12044	12045	12046
Generation date on DT		3/17	3/17	3/17	3/17
DT Start Time		14/18/81	14/18/81	14/18/81	19/18/81
DT End Time		16/18/81	17/18/81	18/18/81	19/18/81
P.V. of DT		1240	1420	1650	1800
Time of Processing Job Submission		1248	1428	1703	1820
P.V. of Printout		1309	1494	1743	1840
Time of Delivery for Printing		1320	1509	1800	
Transmission Time		1447	1538	1830	
Computer Used	91	91	91	91	91
Input Drive	OCI	OD1	OD1	OD0	OD0
STACH	RE %	0/0	0/0	0/0	0/0
TOMREL	RE %	0/0	0/0	0/0	0/0
ILTFIX	RE %	0/0	0/0	0/0	0/0
INGEST	RE %	0/0	0/0	0/0	0/0
OZONE	RE %	0/0	0/0	0/0	0/0
TABESCHM	PER	2	2	2	2
COMMENTS		OK	OK	OK	OK
					Same Problem
					3 units provide full coverage

Date: 3/14/81
Operator: J.S.

PLAYBACK		12057	12059	12059	12060
Generation date on DT	3/14	3/14	3/14	3/14	3/14
DT Start Time	1800/25	1800/11	1800/25	1800/25	1800/25
DT End Time	1805/07	1805/17	1805/17	1805/17	1805/17
P.V. of DT	1800	1800	1800	1800	1800
Time of Processing Job Submission	1820	1820	1820	1820	1820
P.V. of Printout	900 3/16	900 3/16	900 3/16	900 3/16	900 3/16
Time of Delivery Job Submission	910 3/16	910 3/16	910 3/16	910 3/16	910 3/16
Transmission Time	936 3/16	936 3/16	936 3/16	936 3/16	936 3/16
Computer Used	91	91	91	91	91
Input Drive	OC1	OC0	OD0	OD1	
STACK	REF 0/0	0/0	0/0	0/0	0/0
TOMREL	REF 0/0	0/0	0/0	0/0	0/0
ILTFIN	REF 0/0	0/0	0/0	0/0	0/0
INGEST	REF 0/0	0/0	0/0	0/0	0/0
OZONE	REF 0/0	0/0	0/0	0/0	0/0
TAPESCAN	PLW 2	2	2	2	2
COMMENTS	OK	OK	OK	OK	OK
P					
R					
D					
C					
E					
S					
S					
T					
N					
G					

Resubmitted 3/31 and Transmitted to NW.

Date: 3/15/81
Operator: J.S.

PLAYBACK		12071	12072	12073	12074
Generation date on DT	3/15	3/15	3/15	3/15	3/15
DT Start Time	1207/07	1207/07	1207/07	1207/07	1207/07
DT E A Time	1207/19	1207/19	1207/19	1207/19	1207/19
P.V. of DT	805	805	805	805	805
Time of Processing Job Submission	805	805	805	805	805
P.V. of Printout	1040	1040	1130	1130	1130
Time of Delivery Job Submission	1200	1200	1200	1200	1200
Transmission Time	1251	1303	1315	1340	
Computer Used	91	91	91	91	91
Input Drive					
STACK	REF 0/0	0/0	0/0	0/0	0/0
TOMREL	REF 0/0	0/0	0/0	0/0	0/0
ILTFIN	REF 0/0	0/0	0/0	0/0	0/0
INGEST	REF 0/0	0/0	0/0	0/0	0/0
OZONE	REF 0/0	0/0	0/0	0/0	0/0
TAPESCAN	PLW 2	2	2	2	2
COMMENTS	OK	OK	OK	OK	OK
P					
R					
D					
C					
E					
S					
S					
T					
N					
G					

Resubmitted 3/16 ok 5/17

Date: 3/16/81
Operator: 68

PLAYBACK						
Generation date on DT	12085	12086	12087	12088	12089	12090
DT Start Time	17/25/81	17/25/81	17/25/81	17/25/81	17/25/81	17/25/81
DT End Time	17/25/81	17/25/81	17/25/81	17/25/81	17/25/81	17/25/81
P.U. of DT	1345	1501	1651	1830	1847	—
Time of Processing Job Submission	1325	1510	1657	1847	—	—
P.U. of Printout for Imaging	1490	1630	1756	—	—	—
Time of Delivery for Imaging	1490	1630	1756	—	—	—
Transmission Time	1545	1645	1836 3/4	1850 3/4	—	—
Computer Used	91	91	91	91	91	91
Input Drive	ODI	OCO	OCI	OCO	—	—
STACK	0%	0%	0%	0%	0%	0%
TOMREL	0%	0%	0%	0%	0%	0%
ILTFIX	0%	0%	0%	0%	0%	0%
INGEST	0%	0%	0%	0%	0%	0%
OZONE	0%	0%	16	16	—	—
TAPESCHN	2	2	2	2	—	—
COMMENTS	OK	OK	OK	OK	OK	OK
P						
R						
D						
C						
E						
S						
S						
T						
N						
G						

Date: 3/17/81
Operator: 98

PLAYBACK						
Generation date on DT	12098	12099	12100	12101	12102	12103
DT Start Time	17/23/81	17/23/81	17/23/81	17/23/81	17/23/81	17/23/81
DT End Time	17/23/81	17/23/81	17/23/81	17/23/81	17/23/81	17/23/81
P.U. of DT	1222	1325	1610	1610	1710	—
Time of Processing Job Submission	1232	1333	1620	1648	1720	—
P.U. of Printout for Imaging	1300	1407	1633	1659	—	—
Time of Delivery for Imaging	1312	1410	—	1708	—	—
Transmission Time	1351	1441	—	1711	1838 3/4	—
Computer Used	91	91	91	91	91	91
Input Drive	ODI	OCO	OCO	ODI	OCI	—
STACK	0%	0%	0%	0%	0%	0%
TOMREL	0%	0%	0%	0%	0%	0%
ILTFIX	0%	0%	0%	0%	0%	0%
INGEST	0%	0%	0%	0%	0%	0%
OZONE	0%	0%	0%	0%	0%	0%
TAPESCHN	2	2	2	2	2	2
COMMENTS	OK	OK	OK	Bad DT	OK	Bad DT
P						
R						
D						
C						
E						
S						
S						
T						
N						
G						

Date: 3/16/81
Operator: GJR

PLAYBACK		12112	12113	12112	12113	12114	12115
T	Generation date on DT	3/18	3/18	"	"	3/18	3/18
I	DT Start Time	1423	1437	"	"	1431	1435
I	DT End Time	1423	1431	"	"	1433	1439
A	P.U. of DT	1430	1430	"	"	1443	1430
E	Time of Processing Job Submission	1242	1445	1650	1650	1650	1840
S	P.U. of Printout	1420	1525	1744	1750	1742	1906
	Time of Delivery for Imaging	1430	1535	1800	1800	1800	1910
	Transmission Time			1843	1856	1903	1926
P	Computer Used	91	71	91	91	91	91
R	Input Drive	ODI	OCO	OCO	ODI	ODO	ODL
D	STACH	RS % 0%	0/0	0/0	0/0	0/0	0/0
C	TOMREL	RS % 0%	0/0	0/0	0/0	0/0	0/0
E	ILTFIX	RS % 0%	0/0	0/0	0/0	0/0	0/0
S	JNGEST	RS % 0%	0/0	0/0	0/0	0/0	0/0
S	OZONE	RS % 0%	0/0	0/0	0/0	0/0	0/0
T	TABSCAN	PM	2	2	2	2	2
N	COMMENTS	OK	OK	OK	OK	OK	OK
G		91 down 55 min OVB DATA					

Date: 3/16/81
Operator: GJR

PLAYBACK		12126	12127	12128	12129
T	Generation date on DT	3/19	3/19	3/19	3/19
I	DT Start Time	1430	1431	1430	1430
I	DT End Time	1431	1437	1430	1437
A	P.U. of DT	1425	1400	1610	1810
E	Time of Processing Job Submission	1635	1635	1635	1822
S	P.U. of Printout	1730	1735	1735	1920
	Time of Delivery for Imaging	1742	1742	1742	
	Transmission Time	1850	1903	1930	1900
P	Computer Used	91	91	91	91
R	Input Drive	ODI	ODL	OCO	ODO
D	STACH	RS % 0%	0/0	0/0	0/0
C	TOMREL	RS % 0%	0/0	0/0	0/0
E	ILTFIX	RS % 0%	0/0	0/0	0/0
S	JNGEST	RS % 0%	0/0	0/0	0/0
S	OZONE	RS % 0%	0/0	0/0	0/0
T	TABSCAN	PM	2	2	2
N	COMMENTS	OK	OK	OK	Some Prob.
G		91 up Edgewood from 1700 to 1600			Rebuilt 7/11 and Manufactured D.M.M.

Date: 2/20/81
 Operator: WJY

PLAYBACK		12150	12155	12158	12158
T	Generation date on DT	3/20	3/20	3/20	3/20
I	DT Start Time	1712:10	1712:13	1712:14	1712:19
E	DT End Time	1712:15	1712:17	1712:17	1712:19
M	P.U. of DT	2000	2000	2000	2000
E	Time of Processing Job Submission	15:31	15:33	15:34	15:30
S	P.U. of Printout	1800	1800	1800	1800
	Time of Delivery for Imaging	115:34	115:34	115:34	115:34
	Transmission Time	1938	1938	1938	1938
P	Computer Used	91	91	91	91
R	Input Drive	ODI	ODI	ODI	ODI
D	STACK	REF	REF	REF	REF
C	TOMREL	REF	REF	REF	REF
E	ILTFIX	REF	REF	REF	REF
S	INGEST	REF	REF	REF	REF
S	OZONE	REF	REF	REF	REF
T	TABSCAN	PLN	PLN	PLN	PLN
N	COMMENTS	OK	OK	OK	OK
G					

Date: 3/20/81
 Operator: 98B

PLAYBACK		12149	12141	12142	12145
T	Generation date on DT	3/20	3/20	3/20	3/20
I	DT Start Time	1710:03	1710:27	1710:15	1710:27
E	DT End Time	1710:27	1710:31	1710:31	1710:39
M	P.U. of DT	1243	1450	1650	1732
E	Time of Processing Job Submission	1253	1700	1700	1739
S	P.U. of Printout	1690	1743	1743	1820
	Time of Delivery for Imaging	1640	1759	1759	1730
	Transmission Time	1709	1832	2030	2041
P	Computer Used	91	91	91	91
R	Input Drive	ODI	ODI	ODI	ODI
D	STACK	REF	REF	REF	REF
C	TOMREL	REF	REF	REF	REF
E	ILTFIX	REF	REF	REF	REF
S	INGEST	REF	REF	REF	REF
S	OZONE	REF	REF	REF	REF
T	TABSCAN	PLN	PLN	PLN	PLN
N	COMMENTS	OK	OK	OK	OK
G					

Date: 3/22/87

Operator: WLS

PLAYBACK		12185	12186	12187	12188
Generation Date on DT		3/22	3/22	3/22	3/22
T	DT Start Time	15:55/12	15:55/12	15:55/12	15:55/12
I	DT End Time	15:55/12	15:55/12	15:55/12	15:55/12
M	P.V. of DT	1500	1500	1500	1500
E	Time of Processing Job Submission	1515	1515	1515	1515
S	P.V. of Printout	1611	1611	1611	1611
Time of Delivery for Imaging		1625	1625	1625	1625
Transmission Time		1715	1715	1715	1715
Computer Used		91	91	91	91
P	Input Drive	OC1	OC1	OC1	OC1
R	STACH	0/0	0/0	0/0	0/0
D	TOMREL	0/0	0/0	0/0	0/0
C	ILTFIN	0/0	0/0	0/0	0/0
E	INGEST	0/0	0/0	0/0	0/0
S	OZONE	0/0	0/0	0/0	0/0
T	TAPESCH	2	2	2	2
COMMENTS		OK	OK	OK	OK
N					
G					

1012 (Rev 3)

Date: 3/23/87

Operator: WLS

PLAYBACK		12189	12190	12191	12192
Generation Date on DT		3/23	3/23	3/23	3/23
T	DT Start Time	17:55/19	17:55/19	17:55/19	17:55/19
I	DT End Time	17:55/19	17:55/19	17:55/19	17:55/19
M	P.V. of DT	1500	1500	1500	1500
E	Time of Processing Job Submission	1515	1515	1515	1515
S	P.V. of Printout	1611	1611	1611	1611
Time of Delivery for Imaging		1625	1625	1625	1625
Transmission Time		1715	1715	1715	1715
Computer Used		91	91	91	91
P	Input Drive	OC2	OC1	OC1	OC1
R	STACH	0/0	0/0	0/0	0/0
D	TOMREL	0/0	0/0	0/0	0/0
C	ILTFIN	0/0	0/0	0/0	0/0
E	INGEST	0/0	0/0	0/0	0/0
S	OZONE	0/0	0/0	0/0	0/0
T	TAPESCH	2	2	2	2
COMMENTS		OK	OK	OK	OK
N					
G					

Date: 3/24/81
Operator: SR

PLAYBACK		12195	12196	12197	12198
Generation date on DT		3/24	3/24	3/24	3/24
DT Start Time		14150/14	14151/14	14152/14	14153/14
DT End Time		14151/23	14152/23	14153/23	14154/23
P.V. of DT		1240	1245	1250	1255
Time of Processing Job Submission		1250	1255	1260	1265
P.V. of Printout		1334	1339	1344	1349
Time of Delivery for Imaging		1345	1350	1355	1360
Transmission Time		1455	1460	1465	1470
Computer Used	91	91	91	91	91
Input Drive	OD1	OD1	OD1	OD1	OD1
STACK	REF	0/0	0/0	0/0	0/0
TOMREL	REF	0/0	0/0	0/0	0/0
ILTFIX	REF	0/0	0/0	0/0	0/0
INGEST	REF	0/0	0/0	0/0	0/0
OZONE	REF	0/0	0/0	0/0	0/0
TAPESCAN	PER	2	2	2	2
COMMENTS		OK	OK	OK	OK
			91 DOWN 1hr.		

Date: 3/25/81
Operator: SR

PLAYBACK		12209	12210	12211	12212
Generation date on DT		3/25	3/25	3/25	3/25
DT Start Time		14154/14	14155/14	14156/14	14157/14
DT End Time		14155/23	14156/23	14157/23	14158/23
P.V. of DT		1240	1245	1250	1255
Time of Processing Job Submission		1252	1257	1262	1267
P.V. of Printout		1323	1328	1333	1338
Time of Delivery for Imaging		1343	1348	1353	1358
Transmission Time		1447	1452	1457	1462
Computer Used	91	91	91	91	91
Input Drive	OD2	OD2	OD2	OD2	OD2
STACK	REF	0/0	0/0	0/0	0/0
TOMREL	REF	0/0	0/0	0/0	0/0
ILTFIX	REF	0/0	0/0	0/0	0/0
INGEST	REF	0/0	0/0	0/0	0/0
OZONE	REF	0/0	0/0	0/0	0/0
TAPESCAN	PER	2	2	2	2
COMMENTS		OK	OK	OK	OK

Date: 3/23/61
 Operator: YB

PLAYBACK		12236	12237	12238	12239
T	Generation date on DT	3/27	3/27	3/27	3/27
I	DT Start Time	1400/67	1540/27	1704/19	1902/07
M	DT End Time	1443/59	1729/07	1904/31	2204/11
E	P.U. of DT	1145	1315	1510	1800
S	Time of Processing Job Submission	1158	1350	1521	1810
	P.U. of Printout	1230	1415	1737	1842
	Time of Delivery for Taping	1242	1425	1750	1855
	Transmission Time	1256	1491	1510	1920
P	Computer Used	91	91	91	91
R	Input Drive	OD2	OCO	OCO	OD2
D	STACK	0/0	0/0	0/0	0/0
C	TOMREL	0/0	0/0	0/0	0/0
E	ILTFIX	0/0	0/0	0/0	0/0
S	INGEST	0/0	0/0	0/0	0/0
S	OZDNE	0/0	0/0	0/0	0/0
I	TAPESCAN	2	2	2	2
N	COMMENTS	OK	OK	OK	OK
G		Prod2	Prod2	Prod2	Prod2
			91 down		
			20 min.		

Date: 3/23/61
 Operator: YB

PLAYBACK		12223	12224	12225	12226
T	Generation date on DT	3/26	3/26	3/26	3/26
I	DT Start Time	1924/63	1707/51	1840/18	2034/10
M	DT End Time	1907/23	1849/11	1925/27	2102/13
E	P.U. of DT	1320	1500	1625	1805
S	Time of Processing Job Submission	1390	1510	1635	1816
	P.U. of Printout	1505	1642	1747	1842
	Time of Delivery for Taping	1515	1555	1759	1856
	Transmission Time	1543	1622	1803	1925
P	Computer Used	75	91	91	91
R	Input Drive	OC3	OC1	ODD	ODD
D	STACK	0/0	0/0	0/0	0/0
C	TOMREL	0/0	0/0	0/0	0/0
E	ILTFIX	0/0	0/0	0/0	0/0
S	INGEST	0/0	0/0	0/0	0/0
S	OZDNE	0/0	0/0	0/0	0/0
I	TAPESCAN	2	2	2	2
N	COMMENTS	OK	OK	OK	OK
G					

APPEARANCE

TOMS NEAR REALTIME PROS FOR CHECKING

Date: 3/29/81
OPERATOR: JH

PLAYBACK		12250	12251	12252	12253
Generation date on DT	3/29	3/28	3/28	3/28	3/28
DT Start Time	14/01/81	14/01/81	17/40/81	17/24/81	
DT End Time	14/03/81	17/05/81	17/24/81	24/08/81	
P.V. of DT	1800	1800	1800	1800	
Time of Processing Job Submission	1815	1815	1815	1815	
P.V. of Printout	800 3/80	800 3/80	800 3/80	800 3/80	
Time of Delivery for Imaging	815 3/81	815 3/81	815 3/81	815 3/81	
Transmission Time	1116	1136	1148	1218	

Computer Used		91	91	91	91
Input Drive	ODD	OC2	OD1	OD2	
STACK	0/0	0/0	0/0	0/0	
TOMREL	0/0	0/0	0/0	0/0	
ILTFIX	0/0	0/0	0/0	0/0	
INGEST	0/0	0/0	0/0	0/0	
OZONE	0/0	0/0	0/0	0/0	
TAPESCAN	2	2	2	2	
COMMENTS	OK	OK	OK	OK	
	prod2	prod2	prod2	prod2	

APPEARANCE

TOMS NEAR REALTIME PROS FOR CHECKING

Date: 3/30/81
OPERATOR: JH

PLAYBACK		12264	12265	12266	12267
Generation date on DT	3/29	3/29	3/29	3/29	3/29
DT Start Time	14/01/81	14/24/81	14/01/81	14/01/81	14/01/81
DT End Time	14/24/81	14/03/81	14/01/81	14/24/81	
P.V. of DT	820 3/80	820 3/80	820 3/80	820 3/80	
Time of Processing Job Submission	851 3/80	851 3/80	851 3/80	851 3/80	
P.V. of Printout	915	917	923	935	
Time of Delivery for Imaging	950	950	950	950	
Transmission Time	1249	1308	1340	1401	

Computer Used		91	91	91	91
Input Drive	OCO	ODO	OD2	OD3	
STACK	0/0	0/0	0/0	0/0	
TOMREL	0/0	0/0	0/0	0/0	
ILTFIX	0/0	0/0	0/0	0/0	
INGEST	0/0	0/0	0/0	0/0	
OZONE	0/0	0/0	0/0	0/0	
TAPESCAN	2	2	2	2	
COMMENTS	OK	OK	OK	OK	
	prod2	prod2	prod2	prod2	

Date: 3/30/81
Operator: SR

PLAYBACK									
Generation date on DT	3/30	3/30	3/30	3/30	3/30	3/30	3/30	3/30	3/30
T	DT Start Time	145203	145203	145203	145203	145203	145203	145203	145203
I	DT End Time	145203	145203	145203	145203	145203	145203	145203	145203
P	P.U. of DT	1420	1400	1642	1830				
E	Time of Processing Job Submission	1420	1654	1839					
S	P.U. of Printer	1310	1445	1810	1923				
	Time of Delivery for Imaging	1525	1455	1820	1935				
	Transmission Time	1602	1619	1827	1946				
P	Computer Used	91	91	91	91				
R	Input Drive	DD3	DD0	DD0	DD0	DD0	DD0	DD0	DD0
D	TRACK	0%	0%	0%	0%	0%	0%	0%	0%
C	TOMRE	0%	0%	0%	0%	0%	0%	0%	0%
E	ILTFIX	0%	0%	0%	0%	0%	0%	0%	0%
S	INGEST	0%	0%	0%	0%	0%	0%	0%	0%
S	CLONE	0%	0%	0%	0%	0%	0%	0%	0%
T	TRANSFER PER	2	2	2	2	2	2	2	2
N	COMMENTS	OK	OK	OK	OK	OK	OK	OK	OK
G		Prod2	Prod2	Prod2	Prod2	Prod2	Prod2	Prod2	Prod2

Date: 3/31/81
Operator: SR

PLAYBACK									
Generation date on DT	3/31	3/31	3/31	3/31	3/31	3/31	3/31	3/31	3/31
T	DT Start Time	145203	145203	145203	145203	145203	145203	145203	145203
I	DT End Time	145203	145203	145203	145203	145203	145203	145203	145203
P	P.U. of DT	1700	430	1630	1810				
E	Time of Processing Job Submission	1712	1440	1640	1820				
S	P.U. of Printer	1355	519	1780	1932				
	Time of Delivery for Imaging	1405	1529	1740					
	Transmission Time	1456	1519	1755					
P	Computer Used	91	91	91	91	91	91	91	91
R	Input Drive	DD2	DD1	DD1	DD1	DD1	DD1	DD1	DD1
D	TRACK	0%	0%	0%	0%	0%	0%	0%	0%
C	TOMRE	0%	0%	0%	0%	0%	0%	0%	0%
E	ILTFIX	0%	0%	0%	0%	0%	0%	0%	0%
S	INGEST	0%	0%	0%	0%	0%	0%	0%	0%
S	CLONE	0%	0%	0%	0%	0%	0%	0%	0%
T	TRANSFER PER	2	2	2	2	2	2	2	2
N	COMMENTS	OK	OK	OK	OK	OK	OK	OK	OK
G		Prod2	Prod2	Prod2	Prod2	Prod2	Prod2	Prod2	Prod2
									U446 Direct
									Prod2
									3 orbits provided per coverage

Date: 9/1/81
Operator: YB

PLAYBACK									
Generation date on DT	12305	12306	12307	12308					
DT Start Time	14/1/81	15/1/81	16/1/81	17/1/81					
DT End Time	15/1/81	16/1/81	17/1/81	18/1/81					
P.V. of DT	1230	1410	1542	1649					
Time of Processing Job Submission	1250	1422	1554	1700					
P.V. of Printout	1340	1528	1632	1732					
Time of Delivery for Imaging	1350	1540	1648	1742					
Transmission Time	1423	1551	1704	1747					
Computer Used	91	91	91	91					
Input Drive	ODD	ODD	ODD	ODD					
STACH	0%	0%	0%	0%					
TOMRES	0%	0%	0%	0%					
ILTFIX	0%	0%	0%	0%					
INGEST	0%	0%	0%	0%					
OZONE	0%	0%	0%	0%					
TAPERSON	2	2	2	2					
COMMENTS	OK	OK	OK	OK					
	Prod. Prod2	Prod2	Prod2	Prod2					

Date: 9/2/81
Operator: YB

PLAYBACK									
Generation date on DT	12319	12320	12321	12322					
DT Start Time	14/2/81	15/2/81	16/2/81	17/2/81					
DT End Time	15/2/81	16/2/81	17/2/81	18/2/81					
P.V. of DT	1150	1325	1505	1635					
Time of Processing Job Submission	1200	1338	1512	1643					
P.V. of Printout	1238	1405	1550	1712					
Time of Delivery for Imaging	1250	1416	1600	1720					
Transmission Time	1524	1544	1712	1846					
Computer Used	91	91	91	91					
Input Drive	ODI	ODI	ODI	ODI					
STACH	0%	0%	0%	0%					
TOMRES	0%	0%	0%	0%					
ILTFIX	0%	0%	0%	0%					
INGEST	0%	0%	0%	0%					
OZONE	0%	0%	0%	0%					
TAPERSON	2	2	2	2					
COMMENTS	OK	OK	OK	OK					
	Prod2	Prod2	Prod2	Prod2					

Date: 4/6/61
Operator: YR

PLAYBACK				
Generation date on DT	4/5	4/5	4/5	4/5
DT Start Time	12/23/59	12/23/59	12/23/59	12/23/59
DT End Time	12/23/59	12/23/59	12/23/59	12/23/59
P.V. of DT	200	1000	1000	1000
Time of Processing Job Submission	915	815	815	815
P.V. of Printer	859	903	908	909
Time of Delivery for Imaging	930	930	930	930
Transmission Time	1208	1222	1453	1510
Computer Used	91	91	91	91
Input Drive	OC1	OC0	OD1	MDA
STACK %	0/0	0/0	0/0	0/0
TOMREL %	0/0	0/0	0/0	0/0
ILTFIN %	0/0	0/0	0/0	0/0
INGEST %	0/0	0/0	0/0	0/0
OLDNE %	0/0	0/0	0/0	0/0
TAPER:IN PER	2	2	2	2
COMMENTS	OK	OK	OK	OK
	Prod2	Prod1	Prod2	Prod1

Date: 4/6/61
Operator: YR

PLAYBACK				
Generation date on DT	4/6	4/6	4/6	4/6
DT Start Time	12/23/59	12/23/59	12/23/59	12/23/59
DT End Time	12/23/59	12/23/59	12/23/59	12/23/59
P.V. of DT	1320	1500	1500	1600
Time of Processing Job Submission	1333	1507	1530	1640
P.V. of Printer	1415	1617	1617	1646
Time of Delivery for Imaging	1430	1630	1630	1910
Transmission Time	1551	1655	1722	1937
Computer Used	91	91	91	91
Input Drive	OC1	OC1	OC1	OD1
STACK %	0/0	500	0/0	0/0
TOMREL %	0/0	0/0	0/0	0/0
ILTFIN %	0/0	0/0	0/0	0/0
INGEST %	0/0	0/0	0/0	0/0
OLDNE %	0/0	0/0	0/0	0/0
TAPER:IN PER	2	2	2	2
COMMENTS	OK	OK	OK	OK
	Prod2	Prod3	Prod2	Prod2
			Original DT	OK
			Cancelled by oper. excessive talk checks	OK
			Some had gone to B Bar	OK

Date: 4/7/81
Operator: GR

PLAYBACK									
Generation date on DT	4/7	4/7	4/7	4/7	4/7	4/7	4/7	4/7	4/7
T	DT Start Time	1400	1435	1470	1505	1540	1575	1610	1645
I	DT End Time	1400	1435	1470	1505	1540	1575	1610	1645
M	P.V. of DT	1200	1330	1500	1630				
E	Time of Processing Job Submission	1215	1340	1510	1640				
S	P.V. of Printout	1255	1420	1617	1730				
	Time of Delivery for Imaging	1305	1430	1628	1745				
	Transmission Time	1329	1622	1648	1842				
P	Computer Used	91	91	91	91	91	91	91	91
R	Input Drive	OC1	OD1	OC1	OC1	OC1	OC1	OC1	OC1
D	STACK	%/EF	0/0	0/0	0/0	0/0	0/0	0/0	0/0
C	TOMREL	%/EF	0/0	0/0	0/0	0/0	0/0	0/0	0/0
E	ILTFIX	%/EF	0/0	0/0	0/0	0/0	0/0	0/0	0/0
S	INGEST	%/EF	0/0	0/0	0/0	0/0	0/0	0/0	0/0
S	OZDNF	%/EF	0/0	0/0	0/0	0/0	0/0	0/0	0/0
T	TRANSFER	PLN	2	2	2	2	2	2	2
N	COMMENTS		OK	OK	OK	OK	OK	OK	OK
G			Prod2	Prod2	Prod2	Prod2	Prod2	Prod2	Prod2

Date: 4/8/81
Operator: GR

PLAYBACK									
Generation date on DT	4/8	4/8	4/8	4/8	4/8	4/8	4/8	4/8	4/8
T	DT Start Time	1400	1435	1470	1505	1540	1575	1610	1645
I	DT End Time	1400	1435	1470	1505	1540	1575	1610	1645
M	P.V. of DT	1200	1330	1500	1630				
E	Time of Processing Job Submission	1204	1350	1555	1712				
S	P.V. of Printout	1235	1420	1624	1757				
	Time of Delivery for Imaging	1245	1450	1648	1810				
	Transmission Time	1305	1504	1706	1828				
P	Computer Used	91	91	91	91	91	91	91	91
R	Input Drive	OC0	OC1	OC0	OC0	OC0	OC0	OC0	OC0
D	STACK	%/EF	0/0	0/0	0/0	0/0	0/0	0/0	0/0
C	TOMREL	%/EF	0/0	0/0	0/0	0/0	0/0	0/0	0/0
E	ILTFIX	%/EF	0/0	0/0	0/0	0/0	0/0	0/0	0/0
S	INGEST	%/EF	0/0	0/0	0/0	0/0	0/0	0/0	0/0
S	OZDNF	%/EF	0/0	0/0	0/0	0/0	0/0	0/0	0/0
T	TRANSFER	PLN	2	2	2	2	2	2	2
N	COMMENTS		OK	OK	OK	OK	OK	OK	OK
G			Prod2	Prod2	Prod2	Prod2	Prod2	Prod2	Prod2

Date: 4/9/81
Operator: JB

PLAYBACK												
Generation date	12416	12417	12418	12419								
DT	4/9	4/9	4/9	4/9								
DT Start Time	1412/16	1412/17	1412/18	1412/19								
DT End Time	1412/35	1412/33	1412/33	1412/31								
P.V. of DT	1410	1410	1410	1410								
Time of Processing Job Submission	1420	1423	1423	1423								
P.V. of Printout	1332	1506	1631	1805								
Time of Delivery for Imaging	1345	1517	1645	1815								
Transmission Time	1415	1546	1656	1840								
P	Computer Used	91	91	91	91							
R	Input Drive	OC1	ODO	OCO	ODI							
D	STACK	0/0	0/0	0/0	0/0							
C	TOMRE	0/0	0/0	0/0	0/0							
E	ILTEX	0/0	0/0	0/0	0/0							
S	INGEST	0/0	0/0	0/0	0/0							
S	OZONE	0/0	0/0	0/0	0/0							
T	TRESCOM REV	1	1	1	1							
N	COMMENTS	OK	OK	OK	OK							
G		Prod	Prod	Prod	Prod							

Date: 4/10/81
Operator: JB

PLAYBACK												
Generation date	12410	12410	12431	12433	12431	12432						
DT	4/10	4/10	4/10	4/10	4/10	4/10						
DT Start Time	1410/39	1410/39	1410/39	1410/39	1410/39	1410/39						
DT End Time	1410/37	1410/37	1410/37	1410/37	1410/37	1410/37						
P.V. of DT	1420	1420	1420	1420	1420	1420						
Time of Processing Job Submission	1430	1430	1430	1430	1430	1430						
P.V. of Printout	1506	1655	1750	1858	1842	2005						
Time of Delivery for Imaging	1518	1800	1910	1910	2015							
Transmission Time	1755	1805	1959		2058							
P	Computer Used	91	91	91	91	91						
R	Input Drive	OC1	OCO	OC1	ODI	ODI						
D	STACK	0/0	0/0	0/0	0/0	0/0						
C	TOMRE	0/0	0/0	0/0	0/0	0/0						
E	ILTEX	0/0	0/0	0/0	0/0	0/0						
S	INGEST	0/0	0/0	0/0	0/0	0/0						
S	OZONE	0/0	0/0	0/0	0/0	0/0						
T	TRESCOM REV	1	1	1	1	1						
N	COMMENTS	OK	Prod	Prod	Prod	Prod						
G		Prod	Prod	Prod	Prod	Prod						

Date: 4/13/81
Operator: JB

PLAYBACK											
Generation date on DT	12458	12459	12460	12461							
T Start Time	15/17/80	17/17/80	19/15/80	19/15/80	19/15/80	19/15/80	19/15/80	19/15/80	19/15/80	19/15/80	19/15/80
I DT End Time	17/12/80	19/15/80	19/17/80	19/17/80	19/17/80	19/17/80	19/17/80	19/17/80	19/17/80	19/17/80	19/17/80
PI P.U. of DT	1875 3/4	1875 3/4	1875 3/4	1875 3/4	1875 3/4	1875 3/4	1875 3/4	1875 3/4	1875 3/4	1875 3/4	1875 3/4
Time of Processing Job Submission	830	830	830	830	830	830	830	830	830	830	830
P.U. of Printer	920	922	923	928							
Time of Delivery for Imaging	940	940	940	940							
Transmission Time	1442	1458	1515								
Computer Used	91	91	91	91							
Input Drive	OCO	OD1	OCI	OCO							
STACK %/EF	0%	0%	0%	0%							
TOMREL %/EF	0%	0%	0%	0%							
ILTFIN %/EF	0%	0%	0%	0%							
INGEST %/EF	0%	0%	0%	0%							
OZONE %/EF	0%	0%	0%	0%							
TRANSFER PIN	2	2	2	2							
COMMENTS	OK	OK	OK	OK							
	Prod2	Prod2	Prod2	Prod2							

Date: 4/13/81
Operator: JB

PLAYBACK											
Generation date on DT	12444	12445	12446	12447	12448						
T Start Time	15/17/80	16/15/80	16/17/80	16/17/80	16/17/80	16/17/80	16/17/80	16/17/80	16/17/80	16/17/80	16/17/80
I DT End Time	16/15/80	16/17/80	16/17/80	16/17/80	16/17/80	16/17/80	16/17/80	16/17/80	16/17/80	16/17/80	16/17/80
PI P.U. of DT	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Time of Processing Job Submission	1920	1920	1920	1920	2130						
P.U. of Printer	800 3/4	800 3/4	800 3/4	800 3/4	800 3/4						
Time of Delivery for Imaging	815 3/4	815 3/4	815 3/4	815 3/4	815 3/4						
Transmission Time	1236	1249	1303								
Computer Used	91	91	91	91	91						
Input Drive	OCI	OCO	OD1	OCO	ODD						
STACK %/EF	0%	0%	0%	0%	0%						
TOMREL %/EF	0%	0%	0%	0%	0%						
ILTFIN %/EF	0%	0%	0%	0%	0%						
INGEST %/EF	0%	0%	0%	0%	0%						
OZONE %/EF	0%	0%	0%	0%	0%						
TRANSFER PIN	2	2	2	2	2						
COMMENTS	OK	OK	OK	OK	USER46 ABEND						
	Prod2	Prod2	Prod2	Prod2	Prod2						
					306:11 provided full coverage						

Date: 9/13/81
Operator: GR

PLAYBACK									
Generation date on DT	12471	12472	12473	12474	12475	12476	12477	12478	12479
T	DT Start Time	1400	1415	1430	1445	1500	1515	1530	1545
I	DT End Time	1415	1430	1445	1500	1515	1530	1545	1600
M	P.O. of DT	1405	1415	1430	1445	1500	1515	1530	1545
E	Time of Processing Job Submission	1419	1445	1500	1619	1734			
S	P.O. of Printout	1320	1419	1445	1500	1619	1734		
	Time of Delivery for Imaging	1342	1419	1445	1558	1800			
	Transmission Time	1602				1815			
						1825			
						1960			
P	Computer Used	91	91	91	91	91	91	91	91
R	Input Drive	OC0	OD0	OD0	OD0	OD0	OD0	OD0	OD0
D	STACK	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
C	TOMRES	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
E	ILTFIN	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
S	INGEST	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
S	OZONE	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
T	TAPER/IN	2	2	2	2	2	2	2	2
N	COMMENTS	OK	OK	OK	OK	OK	OK	OK	OK
G		Prodz	Prodz	Prodz	Prodz	Prodz	Prodz	Prodz	Prodz
			excessive DATA checks ON DT		excessive DATA checks ON DT		excessive DATA checks ON DT		excessive DATA checks ON DT
			excessive DATA checks ON DT		excessive DATA checks ON DT		excessive DATA checks ON DT		excessive DATA checks ON DT
			excessive DATA checks ON DT		excessive DATA checks ON DT		excessive DATA checks ON DT		excessive DATA checks ON DT

Date: 9/14/81
Operator: GR

PLAYBACK									
Generation date on DT	12485	12486	12487	12488					
T	DT Start Time	1419	1419	1419					
I	DT End Time	1420	1420	1420					
M	P.O. of DT	1419	1419	1419					
E	Time of Processing Job Submission	1425	1410	1521					
S	P.O. of Printout	1345	1455	1548					
	Time of Delivery for Imaging	1356	1505	1559					
	Transmission Time	1429	1515	1615					
				1859					
P	Computer Used	91	91	91					
R	Input Drive	OC1	OC0	OC0					
D	STACK	0/0	0/0	0/0					
C	TOMRES	0/0	0/0	0/0					
E	ILTFIN	0/0	0/0	0/0					
S	INGEST	0/0	0/0	0/0					
S	OZONE	0/0	0/0	0/0					
T	TAPER/IN	2	2	2					
N	COMMENTS	OK	OK	OK					
G		Prodz	Prodz	Prodz					

Date: 4/16/81
Operator: JB

PLAYBACK		12513	12514	12515	12516
Generation date on DT		4/16	4/16	4/16	4/16
DT Start Time		1553	1603	1613	1623
DT End Time		1644	1654	1704	1714
P.U. of DT		1225	1430	1620	
Time of Processing Job Submission		1233	1440	1630	
P.U. of Printout		1350	1556	1728	
Time of Delivery for Imaging		1400	1605	1738	
Transmission Time		1416	1637	1748	

Computer Used	91	91	91	91
Input Drive	OC0	OC1	OC0	OC0
STACK %	0/0	0/0	0/0	0/0
TOMRES %	0/0	0/0	0/0	0/0
ILTFIX %	0/0	0/0	0/0	0/0
INGEST %	0/0	0/0	0/0	0/0
OZONE %	0/0	0/0	0/0	0/0
TAPER/IN/PLN	2	2	2	2
COMMENTS		OK Prod 3	OK Prod 3	OK Prod 3

Power out Bldg 1 unable to get 4th orb!

Date: 4/15/81
Operator: JB

PLAYBACK		12499	12500	12501	12502
Generation date on DT		4/15	4/15	4/15	4/15
DT Start Time		1405	1420	1430	1450
DT End Time		1604	1614	1624	1634
P.U. of DT		1221	1458	1610	1820
Time of Processing Job Submission		1652	1745	1715	1832
P.U. of Printout		1722	1740	1740	1905
Time of Delivery for Imaging		1735	1755	1915	
Transmission Time		1839	1901	2124	

Computer Used	91	91	91	91
Input Drive	OD2	OC1	OD0	OC0
STACK %	0/0	0/0	0/0	0/0
TOMRES %	0/0	0/0	0/0	0/0
ILTFIX %	0/0	0/0	0/0	0/0
INGEST %	0/0	0/0	0/0	0/0
OZONE %	0/0	0/0	0/0	0/0
TAPER/IN/PLN	2	2	2	2
COMMENTS	OK Prod 2	OK Prod 2	OK Prod 2	OK Prod 3

OK Prod 3

OK Prod 2
91 & 75
Crash down
Till 1700

Date: 4/17/81
Operator: YB

PLAYBACK		12516	12527	12529	12529	12530
Generation date on DT		4/16	4/17	4/17	4/17	4/17
DT Start Time		1200	1310	1435	1619	1845
DT End Time		1327	1428	1555	1746	1938
P.U. of DT		1750	1300	1428	1610	1835
Time of Processing Job Submission		1200	1310	1435	1619	1845
P.U. of Printout		1320	1500	1555	1746	1938
Time of Delivery for Imaging		1418	1518	1710	1710	1938
Transmission Time		1455	1551	1603	1723	1911
Computer Used		91	91	91	91	91
Input Drive		OC0	OD0	DC1	OC0	OC0
SEARCH %/EFF		0/0	0/0	0/0	0/0	0/0
TOMRES %/EFF		0/0	0/0	0/0	0/0	0/0
ILTFIN %/EFF		0/0	0/0	0/0	0/0	0/0
INGEST %/EFF		0/0	0/0	0/0	0/0	0/0
OLONE %/EFF		0/0	0/0	0/0	0/0	0/0
TABSCAN PIN		2	2	2	2	2
COMMENTS		OK	OK	OK	OK	OK
		Prod3	Prod3	Prod3	Prod3	Prod3

Date: 4/17/81
Operator: YB

PLAYBACK		12540	12541	12542	12543
Generation date on DT		4/16	4/16	4/14	4/16
DT Start Time		1345	1427	1544	1723
DT End Time		1523	1623	1723	1846
P.U. of DT		1900	1900	1800	1600
Time of Processing Job Submission		1815	1815	1815	1815
P.U. of Printout		800	800	800	800
Time of Delivery for Imaging		815	815	815	815
Transmission Time		1152	1200	1213	1225
Computer Used		91	91	91	91
Input Drive		OC0	OC0	OC0	OC0
SEARCH %/EFF		0/0	0/0	0/0	0/0
TOMRES %/EFF		0/0	0/0	0/0	0/0
ILTFIN %/EFF		0/0	0/0	0/0	0/0
INGEST %/EFF		0/0	0/0	0/0	0/0
OLONE %/EFF		0/0	0/0	0/0	0/0
TABSCAN PIN		2	2	2	2
COMMENTS		OK	OK	OK	OK
		Prod3	Prod3	Prod3	Prod3

Date: 4/20/81
Operator: JLB

PLAYBACK 12554 12555 12556 12557									
Generation date on DT	4/19	4/19	4/19	4/19	4/19	4/19	4/19	4/19	4/19
DT Start Time	14/04/81	15/04/81	16/04/81	17/04/81	18/04/81	19/04/81	20/04/81	21/04/81	22/04/81
DT End Time	15/04/81	16/04/81	17/04/81	18/04/81	19/04/81	20/04/81	21/04/81	22/04/81	23/04/81
Pl. of DT	800	800	800	800	800	800	800	800	800
Time of Processing Job Submission	530	830	830	830	830	830	830	830	830
Pl. of Printout	1200	1200	1200	1200	1200	1200	1200	1200	1200
Time of Delivery for Imaging	1000	1000	1000	1000	1000	1000	1000	1000	1000
Transmission Time	1236	1246	1259	1310					
Computer Used	71	91	91	91	91	91	91	91	91
Input Drive	0C0	0C4	0D0	0D1					
STACH	0%	0%	0%	0%	0%	0%	0%	0%	0%
TOMRE	0%	0%	0%	0%	0%	0%	0%	0%	0%
ILTF	0%	0%	0%	0%	0%	0%	0%	0%	0%
INGST	0%	0%	0%	0%	0%	0%	0%	0%	0%
OZNE	0%	0%	0%	0%	0%	0%	0%	0%	0%
TRESCRY	2	2	2	2	2	2	2	2	2
COMMENTS	OK	OK	OK	OK	OK	OK	OK	OK	OK
	Prints	Prints	Prints	Prints	Prints	Prints	Prints	Prints	Prints

Date: 4/20/81
Operator: JLB

PLAYBACK 12568 12569 12570 12571									
Generation date on DT	4/20	4/20	4/20	4/20	4/20	4/20	4/20	4/20	4/20
DT Start Time	19/04/81	20/04/81	21/04/81	22/04/81	23/04/81	24/04/81	25/04/81	26/04/81	27/04/81
DT End Time	20/04/81	21/04/81	22/04/81	23/04/81	24/04/81	25/04/81	26/04/81	27/04/81	28/04/81
Pl. of DT	1300	1415	1350	1730					
Time of Processing Job Submission	1308	1438	1606	1740					
Pl. of Printout	1600	1630	1900	1900					
Time of Delivery for Imaging	1348	1530	1646	1815					
Transmission Time	1422	1557	1740	1841					
Computer Used	91	91	91	91	91	91	91	91	91
Input Drive	0C1	0C0	0C0	0C0	0C0	0C0	0C0	0C0	0C0
STACH	0%	0%	0%	0%	0%	0%	0%	0%	0%
TOMRE	0%	0%	0%	0%	0%	0%	0%	0%	0%
ILTF	0%	0%	0%	0%	0%	0%	0%	0%	0%
INGST	0%	0%	0%	0%	0%	0%	0%	0%	0%
OZNE	0%	0%	0%	0%	0%	0%	0%	0%	0%
TRESCRY	2	2	2	2	2	2	2	2	2
COMMENTS	OK	OK	OK	OK	OK	OK	OK	OK	OK
	Prints	Prints	Prints	Prints	Prints	Prints	Prints	Prints	Prints

Date: 4/21/81
Operator: CAR

PLAYBACK 12582 12583 12584 12585									
Generation date on DT	4/21	4/21	4/21	4/21	4/21	4/21	4/21	4/21	4/21
T DT Start Time	14/52/81	14/53/81	14/54/81	14/55/81	14/56/81	14/57/81	14/58/81	14/59/81	14/60/81
I DT End Time	14/53/81	14/54/81	14/55/81	14/56/81	14/57/81	14/58/81	14/59/81	14/60/81	14/61/81
A P.P. of DT	1225	1405	1550	1735	1844	1846	1846	1846	1846
E Time of Processing Job Submitted on	1236	1415	1600	1744	1846	1846	1846	1846	1846
S P.P. of Printout	1420	1600	1735	1846	1846	1846	1846	1846	1846
Time of Delivery for Imaging	1328	1530	1700	1805	1846	1846	1846	1846	1846
Transmission Time	1330	1543	1714	1822	1846	1846	1846	1846	1846
Computer Used	91	91	91	91	91	91	91	91	91
Input Drive	OC1	OCO	OCO	OCO	OCO	OCO	OCO	OCO	OCO
D STACK %FEI	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
C TOMRES %FEI	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
E ILTFIN %FEI	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
S INGEST %FEI	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
S OZPNE %FEI	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
T TAPERSON PLY	1	2	2	2	2	2	2	2	2
COMMENTS	OK	OK	OK	OK	OK	OK	OK	OK	OK
N	Prod3	Prod3	Prod3	Prod3	Prod3	Prod3	Prod3	Prod3	Prod3
G									

Date: 4/21/81
Operator: CAR

PLAYBACK 12576 12577 12578 12579 12579									
Generation date on DT	4/22	4/22	4/22	4/22	4/22	4/22	4/22	4/22	4/22
T DT Start Time	14/61/81	14/62/81	14/63/81	14/64/81	14/65/81	14/66/81	14/67/81	14/68/81	14/69/81
I DT End Time	14/62/81	14/63/81	14/64/81	14/65/81	14/66/81	14/67/81	14/68/81	14/69/81	14/70/81
A P.P. of DT	1250	1430	1615	1800	1806	1806	1806	1806	1806
E Time of Processing Job Submitted on	1303	1438	1625	1806	1806	1806	1806	1806	1806
S P.P. of Printout	1442	1600	1756	1806	1806	1806	1806	1806	1806
Time of Delivery for Imaging	1320	1520	1710	1806	1806	1806	1806	1806	1806
Transmission Time	1354	1528	1738	1806	1806	1806	1806	1806	1806
Computer Used	91	91	91	91	91	91	91	91	91
Input Drive	100	OC1	OD2	OD2	OD2	OD2	OD2	OD2	OD2
D STACK %FEI	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
C TOMRES %FEI	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
E ILTFIN %FEI	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
S INGEST %FEI	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
S OZPNE %FEI	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
T TAPERSON PLY	1	1	2	2	2	2	2	2	2
COMMENTS	OK	OK	OK	OK	OK	OK	OK	OK	OK
N	Prod3	Prod3	Prod3	Prod3	Prod3	Prod3	Prod3	Prod3	Prod3
G									

Date: 4/23/81
Operator: CAB

PLAYBACK										
Generation date on DT	DT Start Time	DT End Time	P.V. of DT	Time of Processing Job Submission	P.V. of Printout	Time of Delivery for Imaging	Transmission Time	Computer Used	Input Drive	REEL %
12610	12611	12612	12617	4/23	4/23	4/27		91	000	000
				15/15/81	17/15/81	18/15/81				
				1300	1440	1730	1818			
				1304	1448	1740	1826			
				1449	1700	1900	1901			
				1510	1535	1810	1910			
				1350	1548	1825	1915			
P	Computer Used	91	91	91	91					
R	Input Drive	000	000	000	000					
D	REEL %	0/0	0/0	0/0	0/0					
C	TOMREEL %	0/0	0/0	0/0	0/0					
E	ILTFIL %	0/0	0/0	0/0	0/0					
S	INGEST %	0/0	0/0	0/0	0/4					
S	OZONE %	0/0	0/0	0/0	0/0					
T	TRANSFER %	2	2	2	2					
N	COMMENTS	OK	OK	OK	OK					
G		Needs	Needs	Needs	Needs					

Date: 4/24/81
Operator: CAB

PLAYBACK										
Generation date on DT	DT Start Time	DT End Time	P.V. of DT	Time of Processing Job Submission	P.V. of Printout	Time of Delivery for Imaging	Transmission Time	Computer Used	Input Drive	REEL %
12623	12624	12625	12626	4/24	4/24	4/24		91	000	000
				15/15/81	17/15/81	18/15/81				
				1150	1340	1500	1650			
				1200	1351	1510	1656			
				1449	1508	1625	1902			
				1240	1430	1550	1718			
				1257	1432	1555	1731			
P	Computer Used	91	91	91	91					
R	Input Drive	001	000	001	000					
D	REEL %	0/0	0/0	0/0	0/0					
C	TOMREEL %	0/0	0/0	0/0	0/0					
E	ILTFIL %	0/0	0/0	0/0	0/0					
S	INGEST %	0/0	0/0	0/0	0/0					
S	OZONE %	0/0	0/0	0/0	0/0					
T	TRANSFER %	2	2	2	2					
N	COMMENTS	OK	OK	OK	OK					
G		Needs	Needs	Needs	Needs					

Date: 9/25/81
Operator: YB

PLAYBACK		12637	12636	12639	12640
Generation date on DT		9/25	9/25	9/25	9/25
DT Start Time		14:20	14:20	14:20	14:20
DT End Time		16:25	17:17	16:25	16:25
P.V. of DT		1730	1730	1730	1733
Time of Processing Job Submission		1800	1800	1800	1800
P.V. of Printer		805	805	805	805
Time of Delivery for Imaging		890	890	890	890
Transmission Time		1029	1029	1055	1107
Computer Used	91	91	91	91	91
Input Drive	002	001	000	001	001
STACK	0%	0%	0%	0%	0%
TOMREL	0%	0%	0%	0%	0%
ILTFIX	0%	0%	0%	0%	0%
INVEST	0%	0%	0%	0%	0%
OLONE	0%	0%	0%	0%	0%
TAPESCAN	2	2	2	2	2
COMMENTS	OK	OK	OK	OK	OK
		Prints	Prints	Prints	Prints
N					
G					

Date: 9/27/81
Operator: YB

PLAYBACK		12651	12652	12653	12659
Generation date on DT		9/26	9/26	9/26	9/26
DT Start Time		14:20	14:20	14:20	14:20
DT End Time		16:25	16:25	16:25	16:25
P.V. of DT		800	800	800	800
Time of Processing Job Submission		870	870	870	870
P.V. of Printer		1000	1000	1000	1000
Time of Delivery for Imaging		1010	1010	1010	1010
Transmission Time		1120	1132	1152	1205
Computer Used	91	91	91	91	91
Input Drive	1001	000	002	000	000
STACK	0%	0%	0%	0%	0%
TOMREL	0%	0%	0%	0%	0%
ILTFIX	0%	0%	0%	0%	0%
INVEST	0%	0%	0%	0%	0%
OLONE	0%	0%	0%	0%	0%
TAPESCAN	2	2	2	2	2
COMMENTS	OK	OK	OK	OK	OK
		Prints	Prints	Prints	Prints
N					
G					

Date: 9/27/81
Operator: YB

Date: 9/27/81
Operator: YB

2nd 1st 3rd

PLAYBACK	12666	12667	12668	12669	12670	12671	12672	12673	
Generation date on DT	9/27	9/27	9/27	9/27	9/27	9/27	9/27	9/27	
DT Start Time	1400	1400	1400	1400	1400	1400	1400	1400	
DT End Time	1455	1455	1455	1455	1455	1455	1455	1455	
P.V. of DT	01	01	01	01	01	01	01	01	
Time of Processing Job Submitted	12:30	12:30	12:30	12:30	12:30	12:30	12:30	12:30	
P.V. of Printout	1455	1455	1455	1455	1455	1455	1455	1455	
Time of Delivery for Imaging	1455	1455	1455	1455	1455	1455	1455	1455	
Transmission Time	1820	1820	1820	1820	1820	1820	1820	1820	
Computer Used	91	91	91	91	91	91	91	91	
Input Drive	002	002	002	002	002	002	002	002	
STACK	0%	0%	0%	0%	0%	0%	0%	0%	
TOMREL	0%	0%	0%	0%	0%	0%	0%	0%	
ILTFX	0%	0%	0%	0%	0%	0%	0%	0%	
INGEST	0%	0%	0%	0%	0%	0%	0%	0%	
OL2AE	0%	0%	0%	0%	0%	0%	0%	0%	
TAPERSON PER	2	2	2	2	2	2	2	2	
COMMENTS	1000 3001 1000 3001 Submitt City DT	1000 3001 1000 3001 Submitt City DT	1000 3001 1000 3001 Submitt City DT	1000 3001 1000 3001 Submitt City DT	1000 3001 1000 3001 Submitt City DT	1000 3001 1000 3001 Submitt City DT	1000 3001 1000 3001 Submitt City DT	1000 3001 1000 3001 Submitt City DT	1000 3001 1000 3001 Submitt City DT

Save DT i only Back to B. Barnett

4th

PLAYBACK	17463	17464	17465	17466	17467	17468	17469	17470
Generation date on DT	9/27	9/27	9/27	9/27	9/27	9/27	9/27	9/27
DT Start Time	1905	1905	1905	1905	1905	1905	1905	1905
DT End Time	1950	1950	1950	1950	1950	1950	1950	1950
P.V. of DT	01	01	01	01	01	01	01	01
Time of Processing Job Submitted	1842	1842	1842	1842	1842	1842	1842	1842
P.V. of Printout	1905	1905	1905	1905	1905	1905	1905	1905
Time of Delivery for Imaging	1950	1950	1950	1950	1950	1950	1950	1950
Transmission Time	1950	1950	1950	1950	1950	1950	1950	1950
Computer Used	91	91	91	91	91	91	91	91
Input Drive	001	001	001	001	001	001	001	001
STACK	0%	0%	0%	0%	0%	0%	0%	0%
TOMREL	0%	0%	0%	0%	0%	0%	0%	0%
ILTFX	0%	0%	0%	0%	0%	0%	0%	0%
INGEST	0%	0%	0%	0%	0%	0%	0%	0%
OL2AE	0%	0%	0%	0%	0%	0%	0%	0%
TAPERSON PER	2	2	2	2	2	2	2	2
COMMENTS	OK	OK	OK	OK	OK	OK	OK	OK

Re-submit New copy of DT

Date: 9/29/91
Operator: JB

PLAYBACK 12672 12681 12672									
Generation date 9/29 9/29 9/29									
on DT									
DT Start Time 19/5/83 19/5/83 19/5/83									
DT End Time 19/5/83 19/5/83 19/5/83									
P.V. of DT 1938 1730 2135 2147									
Time of Processing Job 1535 1740 2153 2153									
P.V. of Printer 1930 1930 1930 1930									
Time of Behavior 1535 1830 2138 2138									
Termination Time 1550 1910 2114 2114									
P	Computer Used	91	91	91	91	91	91	91	91
R	Input Drive	OC0	OC1	OC0	OC1	OC0	OC1	OC0	OC1
D	STACK	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
C	TOMREI	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
E	ILTFIX	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
S	IN65T	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
S	OZONE	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
T	TAPERSON	2	2	2	2	2	2	2	2
N	COMMENTS	OK	OK	OK	OK	OK	OK	OK	OK
G		Probs	Probs	Probs	Probs	Probs	Probs	Probs	Probs

UWA down after 1700 can't get monthly maintenance

Date: 9/29/91
Operator: JB

PLAYBACK 12692 12693 12699 12695 12693									
Generation date 9/29 9/29 9/29 9/29 9/29									
on DT									
DT Start Time 19/5/83 19/5/83 19/5/83 19/5/83 19/5/83									
DT End Time 19/5/83 19/5/83 19/5/83 19/5/83 19/5/83									
P.V. of DT 1940 1352 1605 1700 1700									
Time of Processing Job 1450 1490 1612 1605 1920									
P.V. of Printer 1300 1690 1920 1930 2050									
Time of Behavior 1510 1700 1700 1700 1700									
Termination Time 1522 1734 1808 1955 1955									
P	Computer Used	91	91	91	91	91	91	91	91
R	Input Drive	OC0	OC0	OC0	OC0	OC0	OC0	OC0	OC0
D	STACK	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
C	TOMREI	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
E	ILTFIX	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
S	IN65T	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
S	OZONE	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
T	TAPERSON	2	2	2	2	2	2	2	2
N	COMMENTS	OK	OK	OK	OK	OK	OK	OK	OK
G		Probs	Probs	Probs	Probs	Probs	Probs	Probs	Probs

Other Tape not printed for a Base copy. It wasn't printed until tape was printed. That, with it on it.

12692 submitted
12692 submitted
Credit out of Region. Total of 4 times.
Have full coverage.

Date: 9/30/61
Operator: YB

PLAYBACK		12700	12709	12708
Generation date on DT	9/30	9/30	9/30	9/30
DT Start Time	1413	1415	1417	1419
DT End Time	1557	1559	1557	1557
P.V. of DT	1257	1430	1755	
Time of Processing Job Submitted	1205	1436	1800	
P.V. of Printout	1415	1555	1943	
Time of Delivery for Imaging	1350	1520	1900	
Transmission Time	1359	1536	1920	
Computer Used	91	91	71	
Input Drive	OC1	OCO	OCO	
STACK	0/0	0/0	0/0	
TOMREL	0/0	0/0	0/0	
ILTFIX	0/0	0/0	0/0	
INVEST	0/0	0/0	0/0	
OZONE	0/0	0/0	0/0	
TABSCN	PLV 3	PLV 2	PLV 2	
COMMENTS	Prod 3	Prod 4	Prod 4	Playback Delayed 6 hours on over. I will process if returned.

ALA MD power out when stimulus sent by and was unable to retrieve data at that time.

Date: 9/30/61
Operator: YB

PLAYBACK		12708	12709
Generation date on DT	9/30	9/30	9/30
DT Start Time	1413	1415	1417
DT End Time	1557	1559	1557
P.V. of DT	1257	1430	1755
Time of Processing Job Submitted	1205	1436	1800
P.V. of Printout	1415	1555	1943
Time of Delivery for Imaging	1350	1520	1900
Transmission Time	1359	1536	1920
Computer Used	91	91	71
Input Drive	OCO	OCO	OCO
STACK	0/0	0/0	0/0
TOMREL	0/0	0/0	0/0
ILTFIX	0/0	0/0	0/0
INVEST	0/0	0/0	0/0
OZONE	0/0	0/0	0/0
TABSCN	PLV 3	PLV 2	PLV 2
COMMENTS	Prod 3	Prod 4	Prod 4
			Power out in ALA will arrive then Sp.

Date: 5/2/81
Operator: gls

PLAYBACK		12720	12721	12722	12723
T	Generation date on DT	5/1	5/1	5/1	5/1
I	DT Start Time	1414	1415	1416	1417
I	DT End Time	1424	1425	1426	1427
A	P.V. of DT	1830	1830	1830	1830
E	Time of Processing Job Submitted	1845	1845	1845	1845
S	P.V. of Printout	200 1/2	200 1/2	200 1/2	200 1/2
	Time of Delivery for Imaging	815	815	815	815
	Transmission Time	1950	1950	1950	1950
P	Computer Used	91	91	91	91
R	Input Drive	0C0	0C1	0C0	0C0
D	TRACK	0%	0%	0%	0%
C	TORREL	0%	0%	0%	0%
E	ILTFIX	0%	0%	0%	0%
S	INGEST	0%	0%	0%	0%
S	OZONE	0%	0%	0%	0%
T	TARGET	2	2	2	2
N	COMMENTS	OK	OK	OK	OK
G		Ready	Ready	Ready	Ready

Date: 5/2/81
Operator: gls

PLAYBACK		12735	12736	12737
T	Generation date on DT	5/2	5/2	5/2
I	DT Start Time	1414	1415	1416
I	DT End Time	1424	1425	1426
A	P.V. of DT	1830	1830	1835
E	Time of Processing Job Submitted	1845	1845	1845
S	P.V. of Printout	200 1/2	200 1/2	200 1/2
	Time of Delivery for Imaging	815	815	815
	Transmission Time	1950	1950	1950
P	Computer Used	91	91	91
R	Input Drive	0C0	0C1	0C0
D	TRACK	0%	0%	0%
C	TORREL	0%	0%	0%
E	ILTFIX	0%	0%	0%
S	INGEST	0%	0%	0%
S	OZONE	0%	0%	0%
T	TARGET	2	2	2
N	COMMENTS	OK	OK	OK
G		Ready	Ready	Ready

Date: 5/1/91
Operator: GJB

PLAYBACK 12738 12738 12749 12750 12751										
Generation date on DT 5/2 5/1 5/1 5/1 5/1										
T	DT Start Time	12738	12738	12749	12750	12751				
I	DT End Time	12738	12738	12749	12750	12751				
1	P.V. of DT	800 3/4	800 3/4	800 3/4	800 3/4	800 3/4				
E	Time of Processing Job Submission	1330	230	230	230	230				
S	P.V. of Printout	1000	1000	1000	1000	1000				
	Time of Delivery for Imaging	1015	1015	1015	1015	1015				
	Transmission Time	1443 1/4	1531	1543	1559	1606				
P	Computer Used	91	91	91	91	91				
R	Input Drive	OC1	OC0	OC0	OC1	OC1				
D	TRACK	100%	0%	0%	0%	0%				
C	TOMAREL	100%	0%	0%	0%	0%				
E	ILTFIR	100%	0%	0%	0%	0%				
S	INBEST	100%	0%	0%	0%	0%				
S	OZONE	100%	0%	0%	0%	0%				
Z	TAPERSCAN	REV 2	2	2	2	2				
N	COMMENTS	OK	OK	OK	OK	OK				
G		Ready	Ready	Ready	Ready	Ready				

Date: 5/1/91
Operator: GJB

PLAYBACK 12762 12762 12774 12775										
Generation date on DT 5/4 5/4 5/4 5/4										
T	DT Start Time	12762	12762	12774	12775					
I	DT End Time	12762	12762	12774	12775					
1	P.V. of DT	1500	1530	1730	1700					
E	Time of Processing Job Submission	1410	1540	1730	1705					
S	P.V. of Printout	1498	1619	1825	1813					
	Time of Delivery for Imaging	1553	1628	1825	1820					
	Transmission Time	1616	1712	1844	2038					
P	Computer Used	91	91	91	91					
R	Input Drive	OC0	OC0	OC2	OC0					
D	TRACK	100%	0%	0%	0%					
C	TOMAREL	100%	0%	0%	0%					
E	ILTFIR	100%	0%	0%	0%					
S	INBEST	100%	0%	0%	0%					
S	OZONE	100%	0%	0%	0%					
Z	TAPERSCAN	REV 4	4	4	4					
N	COMMENTS	OK	OK	OK	OK					
G		Ready	Ready	Ready	Ready					

Date: 5/5/81
Operator: YB

PLAYBACK		12775	12776	12777	12778		
Generation date on DT		5/5	5/5	5/5	5/5		
T	DT Start Time	1258	1259	1260	1261		
I	DT End Time	1258	1259	1260	1261		
M	P.N. of DT	1258	1259	1260	1261		
E	Time of Processing Job Submitted	1303	1310	1638	1737		
S	P.N. of Printout	1340	1716	1719	1806		
	Time of Delivery for Imaging	1350	1726	1726	1812		
	Transmission Time	1431	1749	1759	1842		
P	Computer Used	91	91	91	91		
R	Input Drive	000	000	000	000		
D	STACK	0%	0%	0%	0%		
C	TOMRE	0%	0%	0%	0%		
E	ILTFX	0%	0%	0%	0%		
S	INGEST	0%	0%	0%	0%		
S	OZONE	0%	0%	0%	0%		
T	TAPERON	2	2	2	2		
N	COMMENTS	OK	OK	OK	OK		
G		Study	Study	Study	Study		

Date: 5/6/81
Operator: YB

PLAYBACK		12779	12780	12781	12782		
Generation date on DT		5/6	5/6	5/6	5/6		
T	DT Start Time	1258	1259	1260	1261		
I	DT End Time	1258	1259	1260	1261		
M	P.N. of DT	1258	1259	1260	1261		
E	Time of Processing Job Submitted	1254	1500	1628	1809		
S	P.N. of Printout	1353	1538	1702	1890		
	Time of Delivery for Imaging	1400	1547	1720	1850		
	Transmission Time	1425	1608	1843	1955		
P	Computer Used	91	91	91	91		
R	Input Drive	000	000	000	000		
D	STACK	0%	0%	0%	0%		
C	TOMRE	0%	0%	0%	0%		
E	ILTFX	0%	0%	0%	0%		
S	INGEST	0%	0%	0%	0%		
S	OZONE	0%	0%	0%	0%		
T	TAPERON	2	2	2	2		
N	COMMENTS	OK	OK	OK	OK		
G		Study	Study	Study	Study		

Date: 5/2/61
 Creator: [Signature]

PLAYBACK		1220	1229	1250	1256
Generation date	DT	5/7	5/7	5/2	5/2
DT Start Time		1220	1229	1250	1256
DT End Time		1234	1253	1256	1256
P.N. of DT		1334	1538	1630	1947
Time of Processing		1344	1543	1630	1952
Time of Submission		1420	1610	1917	2039
P.N. of Printout		1432	1626	1930	2059
Time of Delivery for Printing		1453	1706	1942	2110
Transmission Time					

Computer Used	91	91	91	91	91
Input Drive	000	000	001	000	000
STACK	0%	0%	0%	0%	0%
TOMREL	0%	0%	0%	0%	0%
ILTFIX	0%	0%	0%	0%	0%
INGEST	0%	0%	0%	0%	0%
OZPNE	0%	0%	0%	0%	0%
TAFESCH	2	2	2	2	2
COMMENTS	OK	OK	OK	OK	OK
	Ready	Ready	Ready	Ready	Ready
			91 Done		
			2 hrs.		2 hrs
					to get DT

Date: 5/2/61
 Creator: [Signature]

PLAYBACK		1087	1088	1089	1090
Generation date	DT	5/8	5/8	5/8	5/8
DT Start Time		1087	1088	1089	1090
DT End Time		1091	1092	1093	1094
P.N. of DT		1397	1530	1650	1915
Time of Processing		1352	1540	1655	1925
Time of Submission		1432	1616	1745	1945
P.N. of Printout		1440	1625	1755	2052
Time of Delivery for Printing		1458	1643	1803	1930
Transmission Time					

Computer Used	91	91	91	91	91
Input Drive	000	000	002	000	000
STACK	0%	0%	0%	0%	0%
TOMREL	0%	0%	0%	0%	0%
ILTFIX	0%	0%	0%	0%	0%
INGEST	0%	0%	0%	0%	0%
OZPNE	0%	0%	0%	0%	0%
TAFESCH	2	2	2	2	2
COMMENTS	OK	OK	OK	OK	OK
	Ready	Ready	Ready	Ready	Ready

Date: 5/9/81
Operator: JB

PLAYBACK 12831 12832 12833 12834									
Generation Date	5/9	5/9	5/9	5/9	5/9	5/9	5/9	5/9	5/9
DT Start Time	15/00	15/00	15/00	15/00	15/00	15/00	15/00	15/00	15/00
DT End Time	15/00	15/00	15/00	15/00	15/00	15/00	15/00	15/00	15/00
P.P. of DT	1900	1900	1900	1900	1900	1900	1900	1900	1900
Time of Printing	1915	1915	1915	1915	1915	1915	1915	1915	1915
P.P. of Printout	200	200	200	200	200	200	200	200	200
Time of Delivery	205	205	205	205	205	205	205	205	205
Transmission Time	1047%	110%	110%	110%	110%	110%	110%	110%	110%

Computer Used	91	91	91	91	91	91	91	91	91
Input Drive	OCO	OCO	OCO	OCO	OCO	OCO	OCO	OCO	OCO
STACK	0%	0%	0%	0%	0%	0%	0%	0%	0%
TOMREL	0%	0%	0%	0%	0%	0%	0%	0%	0%
ILTFIX	0%	0%	0%	0%	0%	0%	0%	0%	0%
INGEST	0%	0%	0%	0%	0%	0%	0%	0%	0%
OZONE	0%	0%	0%	0%	0%	0%	0%	0%	0%
TAPESCAN	2	2	2	2	2	2	2	2	2
COMMENTS	OK	OK	OK	OK	OK	OK	OK	OK	OK
	Prod 4	Prod 4	Prod 4	Prod 4	Prod 4	Prod 4	Prod 4	Prod 4	Prod 4

Date: 5/11/81
Operator: JB

PLAYBACK 12845 12846 12847 12848									
Generation Date	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10	5/10
DT Start Time	15/00	15/00	15/00	15/00	15/00	15/00	15/00	15/00	15/00
DT End Time	15/00	15/00	15/00	15/00	15/00	15/00	15/00	15/00	15/00
P.P. of DT	215	215	215	215	215	215	215	215	215
Time of Printing	1900	1900	1900	1900	1900	1900	1900	1900	1900
P.P. of Printout	1023	1035	1035	1035	1035	1035	1035	1035	1035
Time of Delivery	1100	1100	1100	1100	1100	1100	1100	1100	1100
Transmission Time	1159	1210	1222	1222	1222	1222	1222	1222	1222

Computer Used	75	91	91	91	91	91	91	91	91
Input Drive	OD2	OCO	OCO	OCO	OCO	OCO	OCO	OCO	OCO
STACK	0%	0%	0%	0%	0%	0%	0%	0%	0%
TOMREL	0%	0%	0%	0%	0%	0%	0%	0%	0%
ILTFIX	0%	0%	0%	0%	0%	0%	0%	0%	0%
INGEST	0%	0%	0%	0%	0%	0%	0%	0%	0%
OZONE	0%	0%	0%	0%	0%	0%	0%	0%	0%
TAPESCAN	2	2	2	2	2	2	2	2	2
COMMENTS	OK	OK	OK	OK	OK	OK	OK	OK	OK
	Prod 4	Prod 4	Prod 4	Prod 4	Prod 4	Prod 4	Prod 4	Prod 4	Prod 4

Date: 5/11/69
 Counter: 28

R-3 RT-2

PLAYBACK 12858 12859 12860 12861										
Generation Date	5/11	5/11	5/11	5/11	5/11	5/11	5/11	5/11	5/11	5/11
BT Start Time	1410	1415	1420	1425	1430	1435	1440	1445	1450	1455
BT End Time	1415	1420	1425	1430	1435	1440	1445	1450	1455	1460
P.V. of BT	1345	1435	1600	1930						
Time of Processing	1357	1445	1700	1940						
P.V. of Pinpoint	1440	1600	1908	2023						
Time of Delivery for Target	515	515	1515	2030						
Transmission Time	1706%	1712%	1714	2050						

P	Computer Used	91	91	91	91	91	91	91	91	91
R	Input Drive	OCO	OCI	OCO	OCO	OCO	OCO	OCO	OCO	OCO
D	STACK	0%	0%	0%	0%	0%	0%	0%	0%	0%
C	TOMREL	0%	0%	0%	0%	0%	0%	0%	0%	0%
E	ILTRIX	0%	0%	0%	0%	0%	0%	0%	0%	0%
S	INGEST	0%	0%	0%	0%	0%	0%	0%	0%	0%
S	OZONE	16%	16%	16%	16%	16%	16%	16%	16%	16%
I	TAPESCH	2	2	2	2	2	2	2	2	2
N	COMMENTS	Schedule 3 times	Schedule 3 times	Schedule 3 times	Schedule 3 times	Schedule 3 times	Schedule 3 times	Schedule 3 times	Schedule 3 times	Schedule 3 times
G										

Revised 5/15
 Rev. 017

Date: 5/12/69
 Counter: 28

PLAYBACK 12872 12873 12874 12875										
Generation Date	5/12	5/12	5/12	5/12	5/12	5/12	5/12	5/12	5/12	5/12
BT Start Time	1410	1415	1420	1425	1430	1435	1440	1445	1450	1455
BT End Time	1415	1420	1425	1430	1435	1440	1445	1450	1455	1460
P.V. of BT	1315	1500	1700	1830						
Time of Processing	1325	1510	1750	1900						
P.V. of Pinpoint	1400	1553	1848	1938						
Time of Delivery for Target	1800	1800	1900	1900						
Transmission Time	1910%	1911%	2047%	1930%						

P	Computer Used	91	91	91	91	91	91	91	91	91
R	Input Drive	OCO	OCI	OCO	OCO	OCO	OCO	OCO	OCO	OCO
D	STACK	0%	0%	0%	0%	0%	0%	0%	0%	0%
C	TOMREL	0%	0%	0%	0%	0%	0%	0%	0%	0%
E	ILTRIX	0%	0%	0%	0%	0%	0%	0%	0%	0%
S	INGEST	0%	0%	0%	0%	0%	0%	0%	0%	0%
S	OZONE	16%	16%	16%	16%	16%	16%	16%	16%	16%
I	TAPESCH	2	2	2	2	2	2	2	2	2
N	COMMENTS	R16	R16	R16	R16	R16	R16	R16	R16	R16
G										

TAPESCH SCHEDULED DATA on R16
 SO Delivery was week on R16

Date: 5/17/81
 Operator: JB

PLAYBACK		12896	12288	12508	12899
Generation Date	5/13	5/13	5/13	5/13	5/13
DT Start Time	1417	1420	1423	1426	1429
DT End Time	1432	1435	1438	1441	1444
PU of DT	1323	1600	1800	1800	
Time of Processing	1340	1620	1810	1810	
Time of Printout	1530	1700	1908	1908	
Time of Delivery for Imaging	1540	1710	1915	1915	
Transmission Time	1733	1848	2030	2054	

Computer Used	91	91	91	91	91
Input Drive	000	000	000	000	000
STACK	0%	0%	0%	0%	0%
TOMREL	0%	0%	0%	0%	0%
ILTFIX	0%	0%	0%	0%	0%
INGEST	0%	0%	0%	0%	0%
OZONE	0%	0%	0%	0%	0%
PERFORM	2	2	2	2	2
COMMENTS	OK	OK	OK	OK	OK
	Prod2	Prod2	Prod2	Prod2	Prod2

Date: 5/19/81
 Operator: JB

PLAYBACK		12900	12901	12902	12903
Generation Date	5/19	5/19	5/19	5/19	5/19
DT Start Time	1550	1553	1556	1559	1562
DT End Time	1605	1608	1611	1614	1617
PU of DT	1400	1600	1720	1840	
Time of Processing	1420	1605	1728	1848	
Time of Printout	1541	1720	1752	1933	
Time of Delivery for Imaging	1550	1730	1800	1949	
Transmission Time	1705	1836	1945	2006	

Computer Used	91	91	91	91
Input Drive	000	000	000	000
STACK	0%	0%	0%	0%
TOMREL	0%	0%	0%	0%
ILTFIX	0%	0%	0%	0%
INGEST	0%	0%	0%	0%
OZONE	0%	0%	0%	0%
PERFORM	2	2	2	2
COMMENTS	OK	OK	OK	OK
	Prod4	Prod4	Prod4	Prod4

Date: 5/15/81
 Operator: JG

Computer Used	91	75	91	91
Input Drive	OC0	OD3	OC0	OC1
SWACH	9%	9%	0%	0%
TOMREL	9%	9%	0%	0%
ILTFIX	9%	9%	0%	0%
INGEST	9%	9%	0%	0%
OICNE	9%	9%	0%	0%
TRANSM PLY	J	2	2	2
COMMENTS	ok	ok	ok	ok
	Ready	Ready	Ready	Ready

PLAYBACK	12914	12915	12916	12917
Start Time	5/15	5/15	5/15	5/15
End Time	1500	1706	1840	1855
Time of Printing	1742	1713	1800	1909
Time of Delivery for Printing	1822	1810	1942	1947
Transmission Time	1830	1820	1930	1950
	1853	1905	2039	2051