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(E72-10279) INVESTIGATION USING DATA FROM ERTS TO DEVELOP AND IMPLEMENT UTILIZATION OF LIVING MARINE RESOURCES W.H. Stevenson (National Marine Fisheries Service, Bay) 8 Dec. 1972 24 p CSCL 08J G3/13 00279 N73-12377 Unclas

INVESTIGATION USING DATA FROM ERTS TO DEVELOP AND IMPLEMENT UTILIZATION OF LIVING MARINE RESOURCES

PROPOSAL NO. 240

GSFC ID - CO 321

PI: WILLIAM H. STEVENSON

TYPE I PROGRESS REPORT

REPORT NO. 2

REPORTING PERIOD: 1 SEP 72 TO 5 NOV 72

P.I. SIGNATURE William H. Stevenson

DATE SUBMITTED: 8 DECEMBER 1972

I

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1.0 INTRODUCTION

This Progress Report is the second in a series under NASA/ERTS-1 Project No. 240, GSFC ID-CO 321. The first report was submitted on 20 September 1972 and covered the period from 1 July to 31 August 1972. This report covers the contract period from 1 September through 5 November 1972, with an excess of four days over the reporting period coverage as scheduled.

The primary objective of this experiment is to demonstrate and establish the feasibility of utilizing satellite imagery to determine the availability and distribution of the adult Gulf menhaden B. patronus within Mississippi Sound and adjacent waters. Secondary objectives are: 1) determine the effectiveness and reliability of ERTS and aircraft RS data to provide fisheries significant coastal oceanographic information, and 2) ascertain the usefulness of these and other resource data for improving resource harvesting and management. Selected oceanographic meteorological, and biological parameters are being used as indirect indicators of the resource.

The study is being conducted through implementation of four sub-experiments categorized as Utilization, Living Marine Resources, Oceanographic, and Aerospace. Synoptic sea-truth, fishery sampling and weather data, as well as photo and thermal IR imagery, are being acquired as data inputs, and a computer program has been developed to manipulate these data according to user requirements.

Participants of this cooperative venture include various Federal, state and local government agencies, universities, and commercial groups. The experiment is expected to produce correlations between satellite, aircraft, fisheries, and environmental sea-truth data. The resulting information will be used to facilitate development of minimum levels of effort required to obtain data for resource distribution studies, and to provide insight into areas of investigation applicable to RS as a tool for resource assessment and monitoring.

2.0 PROGRESS TO DATE

2.1 DATA ACQUISITION OPERATIONS

All data acquisition operations, both sea-truth and aircraft remote sensing, have been completed for the remainder of CY-72. Determining factors affecting our culmination of field activities were:

A. Non-availability of schooling menhaden.

B. Termination of the commercial menhaden fishing fleet activities based on Factor A.

C. The successive build-up and projected adverse weather conditions over the test site for the remainder of the fall and winter seasons.

2.1.1 PRIMARY MISSIONS

Primary missions are defined as those field operations during which all data acquisition platforms are available for scheduled use. Primary mission dates are intentionally selected to coincide with at least one ERTS-1 pass over our test site. Table 1 identifies the schedule, status,

and associated information of each primary mission during the reporting period. Of the two missions scheduled, the 11 September 72 operation was cancelled because of inclement weather, whereas, the 29 September 72 mission was advanced one day (inclement weather forecast) and partially completed due to some equipment malfunction. The term "P-Comp" (partially complete), in reference to mission status, indicated major malfunction or continuous sporadic functioning of any field component (platform, sensor, etc.) scheduled for operation on the actual mission date. In the same sense, the term "COMP" (complete) indicates all field components were functioning to specification on the mission date.

2.1.2 SECONDARY MISSIONS

Secondary missions are defined as those field operations during which a minimum number of data acquisition platforms are available for scheduled use. Secondary mission dates are intentionally selected to fall on Tuesday of each consecutive week during the entire field operations period in order to provide a continuum of data acquisition between ERTS-1 passes and primary mission dates. Table 1 identifies the schedule, status, and associated information of each secondary mission during the reporting period. Of the nine missions scheduled, four were cancelled because of either inclement weather or primary mission preparation, three were partially completed, and two were completed. In addition to these, a non-scheduled secondary mission was run on 13 September and was partially completed.

2.1.3 MISSION EFFORTS

A summary of mission efforts during this reporting period appears in Table 2. The term "recycled" refers to postponment or advancement of a scheduled mission. For example, a scheduled 5 September secondary mission (Table 1) was "recycled" to 6 September. We have now completed our mission efforts for CY-72, and a complete synopsis of all missions will be forwarded as an integral part of the six-month Progress Report.

2.2 MEETINGS

2.2.1 ERTS-1 WORKSHOP

A three-day ERTS-1 Workshop, from 25 to 27 October 1972 was conducted at MTF by NMFS/FEL in support of our ongoing ERTS Project. A list of the participants is included as Table 3. The primary purpose of the workshop was to review the current status of all our ERTS-1 activities, determine the focus and direction for the remainder of the data acquisition phase, and to provide each participant with a sample data output product for each of the different data systems available to them. This detailed data products package allowed each participant to determine his needs for all future data processing. Agreement was reached by all participants to discontinue all data acquisition activities for the remainder of the CY-72 with a cut-off date of 6 November 1972. In addition, a briefing was given by personnel of the Gulf Universities Research Consortium (GURC) on their information management system, "ENVIR".

2.2.2 WILLOW RUN RS SYMPOSIUM

Mr. Stevenson attended and presented a paper entitled "Application of ERTS-A Data for Fishery Resource Assessment and Harvest" at the Eighth International Symposium on Remote Sensing of Environment held on 2-6 October 1972, at the Willow Run Laboratories in Ann Arbor, Michigan. Co-authors of the paper are Dr. B. H. Atwell (NASA/ERL/MTF) and Dr. P. M. Maughan (EarthSat Corp.). Copies of the abstract and the entire paper were forwarded to the cognizant NASA personnel as per our contract stipulations.

2.3 DATA PROCESSING OPERATIONS

Our data processing operations are proceeding as scheduled with minor "hold-ups" inherent to developing a Data Management Information System.

2.3.1 DATA BANK

Most of the field data acquired during the reporting period has been entered into our data management computer system. A breakdown of the field data obtained by participant and respective data acquisition dates is included as Table 4. Field data acquired on these dates are presently in our computer system and, therefore, available to each participant in any of the formats listed in our Project Plan. The data management system still has some "bugs" in it. However, the system has been sufficiently "de-bugged" to allow a certain degree of on-going analysis manipulations.

All ERTS Experiment data supplied by NFMOA/EARTHSAT has been put into our Master Data File. Successful logical queries have been accomplished utilizing the ENVIR Information Management System of the Gulf Universities Research Consortium. The Master File will not contain all ERTS Experiment data until 1 January 1973. At that point in time, all data acquired will be on our Master File at the Slidell Computer Facility. The File will not include the satellite imagery data.

2.3.2 IMAGERY CATALOGING

In order to effectively manage and control the in-house use of the ERTS-1 products received within the confines of our experiment activities, we have established an open-ended Imagery Data Cataloging System (IDCS). The system is based on a modification of the NDPF supplied imagery coding annotations marriaged with our own coding system for internal use. Imagery request codes and supplemental data are in a computer data bank separate from our ERTS Master Data File, and will be integrated at some future date. The IDCS is now completely operational and is being utilized by the project participants.

2.3.3 ERTS-1 PRODUCT STATUS

On 20 October 1972 we updated our request for ERTS-1 products and submitted a revised ERTS-1 Product Order Form to support our requirement. An Imagery Date/Orbit Number synopsis of that request is included as Table 5. In brief, we have requested imagery for each 18-day cycle over our test area from 6 August 1972 through 27 September 1973.

3.0 PLANNED ACTIVITIES

Future activities include continued refinement of software development for input, manipulation, and output of data under our Data Management Information System (DMIS). Now that our field operations have ceased, our primary efforts will be in updating our DMIS, and analysis of acquired data through utilization of the various statistical routines available at the Slidell Computer Facility.

APPENDIX - 1

REFERENCE TABLES

Table 1 - PRIMARY AND SECONDARY MISSIONS FROM 1 SEP TO 4 NOV 72.

MISSION TYPE	SCHED. DATE	OPS. DATE	ERTS SCHED. CED	ERTS SCHED. E-PASS	AIRCRAFT OPERATIONS P3A	E-18	PASC.	FEL	SPOT.	SURF. VES. OCEAN.	FISH.	MISSION STATUS
SECOND	5 SEP	6 SEP	NO	11-12 SEP	NS	YES	YES	YES	YES	YES	YES	COMP.
PRIMARY	11 SEP	NONE	-	11-12 SEP	INCLEMENT WEATHER							CANC.
SECOND	12 SEP	NONE	-	11-12 SEP	11 SEP PRIMARY MISSION PREPARATION							CANC.
SECOND	NONE	13 SEP	NO	11-12 SEP	NS	SAD	YES	YES	YES	YES	YES	P-COMP.
SECOND	19 SEP	19 SEP	NO	29-30 SEP	NS	YES	YES	NS	YES	YES	YES	COMP.
SECOND	26 SEP	NONE	-	29-30 SEP	29 SEP PRIMARY MISSION PREPARATION							CANC.
PRIMARY	29 SEP	28 SEP	NO	29-30 SEP	YES	YES	YES	NS	YES	YES	YES	P-COMP.
SECOND	3 OCT	4 OCT	NO	17-18 OCT	NS	YES	SAD	YES	TA	YES	TA	P-COMP.
SECOND	10 OCT	11 OCT	NO	17-18 OCT	NS	SAD	SAD	YES	TA	YES	TA	P-COMP.
SECOND	17 OCT	18 OCT	YES	17-18 OCT	NS	YES	SAD	NS	TA	YES	TA	P-COMP.
SECOND	24 OCT	NONE	-	4-5 NOV	INCLEMENT WEATHER							CANC.
SECOND	4 NOV	NONE	-	4-5 NOV	INCLEMENT WEATHER							CANC.

TABLE 1 ACRONYMS & ABBREVIATIONS

CANC. - Cancelled
CED - Coincident ERTS pass on ops Date
COMP. - Completion
E-18 - Beechcraft, ERL/MTF
E-PASS - ERTS Pass over Test Site
FEL - NMFS/FEL aircraft Night Flights
FISH. - Commercial Fishing Vessels
NOV - November 72
NS - Not Scheduled
OCEAN. - Oceanographic Vessels
OCT - October 72
OPS. - Operation (s)
P3A - NP3A (NASA 927), MSC, Houston
PASC. - NMFS/Pascagoula aircraft
P-COMP. - Partially Complete
PRIMARY - PRIMARY MISSION
SAD - Scheduled Aircraft Down
SCHED. - Schedule (d)
SECOND - SECONDARY MISSION
SEP - September 72
SPOT. - Spotter aircraft, Commercial
SURF. VES. - Surface Vessels
TA - Terminated Activity

Table 2 - SUMMARY OF MISSION EFFORTS FROM 1 SEP TO 4 NOV 72.

STATUS AND CONFORMANCE	MISSION TYPE	
	SECONDARY	PRIMARY
SCHEDULED	9	2
UNSCHEDULED	1	0
ATTEMPTED	10	2
COMPLETED	2	0
PARTIALLY COMPLETED	4	1
CANCELLED	4	1
RECYCLED	4	1
IN PROGRESS	0	0
COINCIDENT ERTS PASS	1	0
P3A AIRCRAFT OPS.	0	1
E-18 AIRCRAFT OPS.	4	1
PASC. AIRCRAFT OPS.	4	1
FEL AIRCRAFT OPS.	4	0
SPOTTER AIRCRAFT OPS.	3	1
OCEAN. SURF. VES. OPS.	6	1
FISH. SURF. VES. OPS.	3	1

Table 3 - WORKSHOP PARTICIPANTS

NAME	AFFILIATION
B. ATWELL	NASA/ERL/MTF
J. A. BENIGNO	NMFS/SEFC/PASCAGOULA
P. C. COOK	NMFS/FEL/MTF
C. J. COVINGTON	GE/MTF
A. J. KEMMERER	NMFS/SEFC/PASCAGOULA
E. J. LEVI	NMFS/AEFC/BEAUFORT
A. D. MARMELSTEIN	EARTHSAT CORP. (NFMOA REP.)
E. J. PASTULA	NMFS/FEL/MTF
A. PRESSMAN	NASA/ERL/MTF
R. B. ROE	NMFS/SEFC/PASCAGOULA
G. D. STEPHENSON	GE/MTF
W. H. STEVENSON	NMFS/FEL/MTF
E. L. TILTON	NASA/ERL/MTF
T. M. VANSELOUS	GE/MTF
J. WELDON	NASA/ERL/MTF

Table 4 - FIELD DATA BANKED

NMFS/FEL LLLII*	NMFS/ PASCAGOULA	NFMOA/ EARTHSAT	NASA/ ERL/MTF
6-8 AUG 72	30 JUN 72	7 JUN 72	29-30 JUN 72
	6 JUL 72	9-12 JUN 72	6 JUL 72
	11 JUL 72	15 JUN 72	11 JUL 72
	7 AUG 72	18 JUN 72	19 JUL 72
	17 AUG 72	21-29 JUN 72	25 JUL 72
		2-8 JUL 72	1 AUG 72
		10-13 JUL 72	7 AUG 72
		16-19 JUL 72	
		21 JUL 72	
		23-26 JUL 72	
		31 JUL 72	
		1-2 AUG 72	
		6-9 AUG 72	
		13-16 AUG 72	
		20-25 AUG 72	
		28-30 AUG 72	
		3 SEP 72	
		5 SEP 72	
		13-14 SEP 72	
		18-19 SEP 72	
		26-29 SEP 72	
*LLLII - Low Light Level Image Intensifer			

NOTE: Above dates correspond to field data acquisition days.

Table 5 - ERTS-1 IMAGERY REQUEST SYNOPSIS: DATE/ORBIT NUMBER.

DATES OF IMAGERY	ORBIT NOS.
6/7 AUG 72	194/208
24/25 AUG 72	445/459
11/12 SEP 72	696/710
29/30 SEP 72	947/961
17/18 OCT 72	1198/1212
4/5 NOV 72	1449/1463
22/23 NOV 72	1700/1714
10/11 DEC 72	1951/1965
28/29 DEC 72	2202/2216
15/16 JAN 73	2354/2467
3/4 FEB 73	2704/2718
21/22 FEB 73	2955/2969

DATES OF IMAGERY	ORBIT NOS.
12/13 MAR 73	3206/3220
30/31 MAR 73	3457/3471
17/18 APR 73	3708/3722
5/6 MAY 73	3959/3973
23/24 MAY 73	4210/4224
10/11 JUN 73	4461/4475
28/29 JUN 73	4712/4726
16/17 JUL 73	4963/4977
3/4 AUG 73	5214/5228
21/22 AUG 73	5465/5479
8/9 SEP 73	5716/5730
26/27 SEP 73	5967/5981

Table 6 - ERTS-1 CATALOGS RECEIVED AS OF 5 NOV 72.

UNITED STATES	NON-U.S.	16mm MICROFILM
18 AUG 72	18 AUG 72	2 ROLLS
5 SEP 72	5 SEP 72	VARIOUS
23 SEP 72	23 SEP 72	DATES

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ERTS-1 PRODUCT STATUS

APPENDIX - 2

Terms, abbreviations, and acronyms used in this appendix are as follows:

ACQ. - Acquisition

B&W - Black and White

bpi - bits per inch

COL. - Color

COMP. - Composite

CCT - Computer Compatible Tape

ID - Identification

in - inch

LOC. - Location

mm - millimeter

MSS - MultiSpectral Scanner

NMFS/FEL/MTF - National Marine Fisheries Service/Fishery Engineering Laboratory/Mississippi Test Facility

NO. - Number

PAP. - Paper

RBV - Return Beam Vidicon

RC - Received

RQ - Requested

SCCI - Scene Corrected Image (Precision)

SYCI - System Corrected Image (Bulk)

TRANS. - Transparency

(-) - Negative

(+) - Positive

**

NMFS/FEL LOC. CODES:

1 - East Mississippi Sound, Mobile Bay, Open Gulf

2 - West Mississippi Sound, Lake Pontchartrain, Chandeleur Sound & Islands

3 - Mississippi River Mouth, Chandeleur Sound & Islands, Open Gulf

4 - Mississippi River Mouth & West

**

The column headed by "RQ" denotes the number of respective products we have requested, whereas the column headed by "RC" indicates the number of respective products we have received. Blank squares denote product not received from GSFC.

REQUESTED/RECEIVED/NOT RECEIVED
BY NMFS/FEL/MTF

IMAGERY ACQ. DATE: 6 AUG 72	NDPF ID CODE: 1014-15555
ORBIT NO.: 194	NMFS/FEL LOC. CODE: 1

PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3	1	3	2	3	1	3	1
SYCI,70mm,-TRANS.,B&W	3		3		3		3	2	3	4	3	2	3	2
SYCI,9.5in,+TRANS.,B&W	3	2	3	2	3	2	3	2	3	2	3	2	3	2
SYCI,9.5in,+PAP.PRINT,B&W	3	2	3	2	3	2	3	2	3	2	3	2	3	2
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

IMAGERY ACQ. DATE: 6 AUG 72	NDPF ID CODE: 1014-15561
ORBIT NO.: 194	NMFS/FEL LOC.CODE: 3

PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3	1	3	1	3	1	3	1
SYCI,70mm,-TRANS.,B&W	3		3		3		3	2	3	2	3	2	3	2
SYCI,9.5in,+TRANS.,B&W	3	2	3	2	3	2	3	2	3	2	3	2	3	2
SYCI,9.5in,+PAP.PRINT,B&W	3	2	3	2	3	2	3	2	3	2	3	2	3	2
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

IMAGERY ACQ. DATE: 7 AUG 72	NDPF ID CODE: 1015-16013
ORBIT NO.: 208	NMFS/FEL LOC. CODE: 2

PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3	1	3	1	3	1	3	1
SYCI,70mm,-TRANS.,B&W	3		3		3		3	2	3	2	3	2	3	2
SYCI,9.5in,+TRANS.,B&W	3		3		3		3	2	3	2	3	2	3	2
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3	2	3	2	3	2	3	2
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

REQUESTED/RECEIVED/NOT RECEIVED
BY NMFS/FEL/MTF

IMAGERY ACQ. DATE: 7AUG72	NDPF ID CODE: 1015-16020													
ORBIT NO.: 208	NMFS/FEL LOC. CODE: 4													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3	1	3	1	3	1	3	2
SYCI,70mm,-TRANS.,B&W	3		3		3		3	2	3	2	3	2	3	4
SYCI,9.5in,+TRANS.,B&W	3		3		3		3	2	3	2	3	2	3	2
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3	2	3	2	3	2	3	2
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

IMAGERY ACQ. DATE: 24 AUG 72	NDPF ID CODE: 1032-15555													
ORBIT NO.: 445	NMFS/FEL LOC.CODE: 1													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3	2	3	2	3	2	3	2
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3	2	3	2	3	2	3	2
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

IMAGERY ACQ. DATE: 24 AUG 72	NDPF ID CODE: 1032-15562													
ORBIT NO.: 445	NMFS/FEL LOC. CODE: 3													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3	2	3	2	3	2	3	2
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3	2	3	2	3	2	3	2
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

REQUESTED/RECEIVED/NOT RECEIVED
BY NMFS/FEL/MTF

IMAGERY ACQ. DATE: 25 AUG 72	NDPF ID CODE: 1033-16014													
ORBIT NO.: 459	NMFS/FEL LOC. CODE: 2													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3	2	3		3	2	3	2
SYCI,70mm,-TRANS.,B&W	3		3		3		3	2	3		3	2	3	2
SYCI,9.5in,+TRANS.,B&W	3		3		3		3	2	3		3	2	3	2
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

IMAGERY ACQ. DATE: 25 AUG 72	NDPF ID CODE: 1033-16021													
ORBIT NO.: 459	NMFS/FEL LOC.CODE: 4													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3	2	3	2	3	2	3	2
SYCI,70mm,-TRANS.,B&W	3		3		3		3	2	3	2	3	2	3	2
SYCI,9.5in,+TRANS.,B&W	3		3		3		3	2	3	2	3	2	3	2
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

IMAGERY ACQ. DATE: 11 SEP 72	NDPF ID CODE:													
ORBIT NO.: 696	NMFS/FEL LOC. CODE: 1													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

REQUESTED/RECEIVED/NOT RECEIVED
BY NMFS/FEL/MTF

IMAGERY ACQ. DATE: 11 SEP 72	NDPF ID CODE:													
ORBIT NO.: 696	NMFS/FEL LOC. CODE: 3													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

IMAGERY ACQ. DATE: 12 SEP 72	NDPF ID CODE:													
ORBIT NO.: 710	NMFS/FEL LOC.CODE: 2													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

IMAGERY ACQ. DATE: 12 SEP 72	NDPF ID CODE:													
ORBIT NO.: 710	NMFS/FEL LOC. CODE: 4													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

REQUESTED/RECEIVED/NOT RECEIVED
BY NMFS/FEL/MTF

IMAGERY ACQ. DATE: 29SEP72	NDPF ID CODE:													
ORBIT NO.: 947	NMFS/FEL LOC. CODE: 1													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

IMAGERY ACQ. DATE: 29SEP72	NDPF ID CODE:													
ORBIT NO.: 947	NMFS/FEL LOC.CODE: 3													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

IMAGERY ACQ. DATE: 30SEP72	NDPF ID CODE:													
ORBIT NO.: 961	NMFS/FEL LOC. CODE: 2													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

ERTS-1 PRODUCT STATUS
REQUESTED/RECEIVED/NOT RECEIVED
BY NMFS/FEL/MTF

IMAGERY ACQ. DATE: 30 SEP 72	NDPF ID CODE:													
ORBIT NO.: 961	NMFS/FEL LOC. CODE: 4													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

IMAGERY ACQ. DATE: 17 OCT 72	NDPF ID CODE: 1086-15562													
ORBIT NO.: 1198	NMFS/FEL LOC.CODE: 1													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3	2	3	2	3	2	3	2
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

IMAGERY ACQ. DATE: 17 OCT 72	NDPF ID CODE:													
ORBIT NO.: 1198	NMFS/FEL LOC. CODE: 3													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

ERTS-1 PRODUCT STATUS
REQUESTED/RECEIVED/NOT RECEIVED
BY NMFS/FEL/MTF

IMAGERY ACQ. DATE: 18 OCT 72	NDPF ID CODE:													
ORBIT NO.: 1212	NMFS/FEL LOC. CODE: 2													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

IMAGERY ACQ. DATE: 18 OCT 72	NDPF ID CODE:													
ORBIT NO.: 1212	NMFS/FEL LOC.CODE: 4													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

IMAGERY ACQ. DATE: 4 NOV 72	NDPF ID CODE:													
ORBIT NO.: 1499	NMFS/FEL LOC. CODE: 1													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC	RQ	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

ERTS-1 PRODUCT STATUS
REQUESTED/RECEIVED/NOT RECEIVED
BY NMFS/FEL/MTF

IMAGERY ACQ. DATE: 4 NOV 72	NDPF ID CODE:													
ORBIT NO.: 1449	NMFS/FEL LOC. CODE: 3													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

IMAGERY ACQ. DATE: 5 NOV 72	NDPF ID CODE:													
ORBIT NO.: 1463	NMFS/FEL LOC.CODE: 2													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	

IMAGERY ACQ. DATE: 5 NOV 72	NDPF ID CODE:													
ORBIT NO.: 1463	NMFS/FEL LOC. CODE: 4													
PRODUCT DESCRIPTION	RBV						MSS							
	1		2		3		4		5		6		7	
	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC	RO	RC
SYCI,70mm,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,70mm,-TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,B&W	3		3		3		3		3		3		3	
SYCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SYCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	
SYCI,DIGITAL 7-TRACK CCT,556bpi	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+PAP.PRINT,B&W	1		1		1		1		1		1		1	
SCCI,9.5in,+TRANS.,COL.COMP.	3		3		3		3		3		3		3	
SCCI,9.5in,+PAP.PRINT,COL.COMP.	1		1		1		1		1		1		1	