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I-MRD-001
APPENDIX B

APPENDIX B

MISSION REQUIREMENTS

MANNED SPACECRAFT CENTER

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PAGE 227

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GEORGE C. MARSHALL SPACE FLIGHT CENTER

HUNTSVILLE, ALABAMA

DECEMBER 1972

EARTH RESOURCES REQUIREMENTS

SKYLAB MISSIONS
SL-1/SL-2, SL-3, AND SL-4

National Aeronautics and Space Administration

NASA

227 pp

APPENDIX B
MISSION REQUIREMENTS

EARTH RESOURCES REQUIREMENTS

SKYLAB MISSIONS

SL-1/SL-2, SL-3, AND SL-4

December, 1972

SKYLAB PROGRAM OFFICES
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
MANNED SPACECRAFT CENTER
AND
MARSHALL SPACE FLIGHT CENTER

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FLAG SHEET

MISSION REQUIREMENTS DOCUMENT

APPENDIX B

The purpose of the flag sheet is to identify portions of the Mission Requirements Document (MRD) which are affected by either approved changes or changes pending approval.

I. UNINCORPORATED DATA

None

II. SIGNIFICANT ITEMS UNDER REVISION

A. This MRD contains finalized data on 153 experiment proposals. Some of these have multiple-study disciplines and are considered as more than one task. Each task and test site for each task are listed herein. Spacecraft requirements and requirements for MSC flown or directly funded aircraft are included.

It is particularly important that users of this book read the written material at the beginning of this volume to understand the EREP overall requirements and guidelines for the requirements matrices entries.

B. Missing data, except for priorities, is denoted by the * symbol. It is essential that this data be supplied as early as practical.

C. A value indice will be included in the next update to the MRD and placed in the column now titled "FO Value Index." This column will be retitled to "Task/Site Value Index."

DOCUMENT CHANGE RECORD

Document Title:	Appendix B, Mission Requirements, Earth Resources Requirements, Skylab Missions SL-1/SL-2, SL-3, and SL-4
Original Document Number:	I-MRD-001, Appendix B
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B1.0 EARTH RESOURCES EXPERIMENT PACKAGE

B1.1 GENERAL

The Skylab Earth Resources Experiment Package (EREP), which is composed of six electronic and photographic remote sensors is designed as a facility with the vantage point of space for use by a variety of users in a wide range of applications to earth resources management. Its use will be an extension of existing broadly based international investigations of the application of sensor characteristics to earth remote sensing. These programs encompass multispectral sensing at ground level, by low and high altitude aircraft, by unmanned spacecraft, and from Skylab.

Skylab EREP will provide additional and more precise data on spacecraft sensing capabilities, allowing a more thorough evaluation of data applications and correlation and of sensor techniques. Also, the manned facility offers unique capabilities not presently possible with automated systems. These are the ability to evaluate test site conditions and alter data acquisition activities as conditions warrant and to acquire and track small uniform test sites for precise data returns.

The EREP sensors can be operated singly or in various combinations depending on the scientific requirements or other factors such as weather and/or vehicle capability limits. Data will be recorded on tape and film and returned to MSC for initial processing. There is no real-time telemetered experiment housekeeping or scientific data.

This MRD appendix contains all of the known and defined requirements for EREP investigations selected to maximize the returns of earth observation activities on Skylab. It is expected however, that some minor changes will continue to occur to this listing up to and even during the Skylab missions. Changes to this document shall be accomplished by the submittal, and approval by Level II change board action, of a Request for Engineering Change Proposal (RECP), MSC form 645A (Rev. Feb'66). No changes to this document will be accomplished in other than this manner prior to the start of the Skylab Missions. Requirements changes during the Skylab missions will be handled through the MSC Skylab senior representative in the Flight Operations Management Room (FOMR).

Based on current design, the Skylab Orbital Assembly will allow adequate Z-LV profiles for the performance of most of the objectives herein, weather permitting, in the 60 total Z-LV and 5 total solar inertial passes assigned for EREP activities. The above Z-LV passes are apportioned as 14, 26, and 20 for the SL-2, SL-3, and SL-4 missions, respectively. The solar inertial passes are correspondingly scheduled 1, 2, and 2. Calibration maneuvers (moon, deep space and earth limb viewing) are considered to be included in the solar inertial passes shown.

Operation of S190B is assigned to 10 of the Z-LV passes scheduled for SL-2, at least 20 passes on SL-3, and at least 15 passes on SL-4.

B1.2 EREP TASKS

The Skylab earth resources program has been structured into ten major disciplines and 47 subdisciplines as outlined in Table B1-1. Each investigation has been given a task number according to the subdiscipline in which work is being done. A cross reference of Experiment Proposal Numbers and Task numbers is given in Table B1-2 and B1-3. Note that some experiments are several tasks. Every EREP site has been given a three digit designation according to the geographic locale as shown in Figure B1-1. Every task, and every site for each task, is listed herein with the mission and aircraft requirements, if any, for that task/site. An explanatory example of the task/site requirements matrix is given in Figure B1-2. Also, detailed information on the matrix entries are provided in paragraph B1-6. In cases where alternate sites with identical requirements are satisfactory, these requirements are listed for the required site only and referenced for the alternate sites. In cases where several tasks/sites may be completed by satisfying any one of the alternate sites, a cross reference to that effect is noted.

Priorities are to be provided for each task/site defining the relative merit level of each and allowing a basis for decision making where conflicts of requirements achievement exists. The manner in which these priorities will be presented and utilized is still in work.

The previous Sensor Performance Evaluation category is now a subdiscipline of the Remote Sensing Techniques Development series. The previous General Studies listing is renamed as User Agency Tasks. The sites for the User Agency Tasks are considered as targets of opportunity only. For these, data will be taken if no other conflicts exist in consumables usage. These task/sites will have a zero priority and may be used in determining sensor on-off times during passes previously selected for other purposes. These sites will not be used in the pass selection process nor in determining pass success.

B1.3 OVERALL EREP REQUIREMENTS

a) Vehicle attitude and drift rates affect the utility and analysis of EREP data. The actual effects or limitations depend on the type of investigation being performed. As an overall EREP requirement, the vehicle attitude must be maintained within $\pm 2°$ of the Z-axis along the nadir and vehicle rate must not exceed .05°/sec. in any axis.

b) Aperture doors and experiment optics (including their windows) must be closed except during the data taking periods of the sensors involved.

c) In order for a site to be considered covered during an EREP pass, it will be required either 1) that the centerline of the field-of-view of all of the required sensors passes over some portion of the site, or, 2) that for small sites, more than 50% of the site area will fall within the field-of-view of the required sensor. A small site is one for which the total area can fall between the centerline and outer limits of the field-of-view being considered.

Table B1-1. Skylab EREP - Task Numbering System

1st Digit — Major Discipline

Subdiscipline — 2nd & 3rd Digits

100 AGRICULTURE/RANGE/FORESTRY

- 01 to 15 CROP INVENTORY
- 16 to 30 INSECT INFESTATION
- 31 to 45 SOIL TYPE
- 46 to 60 SOIL MOISTURE
- 61 to 75 RANGE INVENTORY
- 76 to 90 FOREST INVENTORY
- 91 to 99 FOREST INSECT DAMAGE

200 GEOLOGICAL APPLICATIONS

- 01 to 20 MAPPING
- 21 to 40 METALS EXPLORATION
- 41 to 55 HYDRO CARBON EXPLORATION
- 56 to 70 ROCK TYPES
- 71 to 85 VOLCANOS
- 86 to 99 EARTH MOVEMENTS

300 CONTINENTAL WATER RESOURCES

- 01 to 15 GROUND WATER
- 16 to 30 SNOW MAPPING
- 31 to 45 DRAINAGE BASINS
- 46 to 60 WATER QUALITY

400 OCEAN INVESTIGATIONS

- 01 to 15 SEA STATE
- 16 to 30 SEA/LAKE ICE
- 31 to 45 CURRENTS
- 46 to 60 TEMPERATURE
- 61 to 75 GEODESY
- 76 to 90 LIVING MARINE RESOURCES

500 ATMOSPHERIC INVESTIGATIONS

- 01 to 15 STORMS, FRONTS, AND CLOUDS
- 16 to 30 RADIANT ENERGY BALANCE
- 31 to 45 AIR QUALITY
- 46 to 60 ATMOSPHERIC EFFECTS

600 COASTAL ZONES, SHOALS, AND BAYS

- 01 to 15 CIRCULATION AND POLLUTION IN BAYS
- 16 to 30 UNDERWATER TOPOGRAPHY AND SEDIMENTATION
- 31 to 45 BATHMETRY
- 46 to 60 COASTAL CIRCULATION
- 61 to 75 WETLANDS ECOLOGY

700 REMOTE SENSING TECHNIQUES DEVELOPMENT

- 01 to 15 PATTERN RECOGNITION
- 16 to 30 MICROWAVE SIGNATURES
- 31 to 45 DATA PROCESSING
- 46 to 60 SENSOR PERFORMANCE EVALUATION

800 REGIONAL PLANNING AND DEVELOPMENT

- 01 to 15 LAND USE CLASSIFICATION TECHNIQUES
- 16 to 30 ENVIRONMENTAL IMPACTS - SPECIAL TOPICS
- 31 to 50 STATE AND FOREIGN RESOURCES
- 51 to 65 URBAN APPLICATIONS
- 66 to 80 COASTAL/PLAINS APPLICATIONS
- 81 to 95 MOUNTAIN/DESERT APPLICATIONS

900 CARTOGRAPHY

- 01 to 15 PHOTOMAPPING
- 16 to 30 MAP REVISION
- 31 to 45 MAP ACCURACY
- 46 to 60 THEMATIC MAPPING

000 USER AGENCY TASKS

- 01 DEPARTMENT OF THE ARMY
- 02 DEPARTMENT OF THE INTERIOR

EXAMPLES:

Task 117 is an Ag/Range/For. Discipline, studying insect infestation.
Task 903 is Cartography, Photomapping

Table B1-2. Correlation List - EPN's to Assigned Task Number

EPN	Task No.	EPN	Task No.	EPN	Task No.	EPN	Task No.	EPN	Task No.	EPN	Task No.	EPN	Task No.
008	- 505	384	- 404	454-6	- 853	527	- 229	9610	- 212	9636-3	- 434	9688	- 135
009-3	- 209	385	- 852	454-9	- 881	528-1	- 134	9611	- 504	9639	- 202	9693	- 276
018	- 832	391	- 346	455	- 301	530	- 242	9620	- 834	9641	- 259	9694-3	- 806
021	- 818	393	- 203	456M	- 703	531	- 228	9625	- 932	9657-1	- 227	9696	- 807
022	- 506	397	- 802	457-4	- 417	535	- 831	9626	- 838	9657-2	- 289	9697	- 136
023-1	- 416	398	- 804	458	- 647	540A-2	- 146	9636-1	- 104	9657-3	- 616	9698	- 230
064B	- 332	399-1	- 105	459	- 931	540-G1	- 347	9636-2	- 224	9659	- 271	9699	- 243
069	- 701	401-1	- 837	460	- 403	541	- 222			9666	- 662		
070	- 646	409	- 617	463	- 286	549-IM	- 716			9669	- 816		
089	- 338	410M	- 548	469-IM	- 867	550	- 401			9670	- 337		
108	- 431	413M	- 718	469-2M	- 854	556-1	- 503			9674	- 618		
219	- 851	416-2	- 477	470	- 402	557	- 204						
240	- 478	417	- 348	472-2	- 102	558-1	- 903						
319a	- 116	418-1	- 161	473	- 176	558-2	- 917						
323	- 317	418-2	- 177	475-8	- 223	560M	- 731						
325	- 288	418-3	- 191	477/447	- 603	565	- 433						
328-1	- 206	420	- 318	485	- 661	568-1	- 479						
330	- 302	422	- 446	486	- 866	568-2	- 405						
332	- 273	423/504	- 258	487	- 257	568-3	- 133						
341	- 817	427	- 331	489	- 335	568-4	- 117						
348	- 336	433	- 839	491	- 303	568-5	- 147						
349	- 274	434	- 201	492	- 648	568-6	- 178						
350	- 210	435	- 820	495	- 241	581	- 803						
351	- 211	438	- 287	496B	- 902	582	- 502						
356-1	- 132	439	- 547	497	- 933	584	- 546						
357	- 208	440	- 461	498	- 901	586-3	- 476						
358	- 805	442M	- 221	499	- 916	587	- 518						
361	- 225	443	- 819	501	- 946	596	- 272						
363	- 717	444M	- 256	507	- 835	599	- 501						
370	- 833	446	- 631	510-1	- 108	9604-1	- 107						
373	- 836	448	- 601	517	- 602	9606	- 207						
380	- 205	450	- 516	518	- 481	9609-1	- 103						
381	- 517	452	- 148	520	- 801								
382	101	454-3	- 333	523	- 349								

Sensor Performance, User Agency, and Student Tasks

Investigation No.	Task No.	Area of Study
S190	746	
S191	747	
S192	748	
S193	749	
S194	750	
D. A. (Dept. of Army)	001	Corps of Engineers, Dept. of the Army
D. I. (Dept. of Inter.)	002	Dept. of Interior
ED11	519	Heat Absorption (Student Experiment)
ED12	275	Volcanoes (Student Experiment)

Table B1-3. Correlation List - Tasks to EPN's

Task	EPN	Task	EPN	Task	EPN	Task	EPN	Task	EPN	Task	EPN	Task	EPN	Task	EPN
101	382	201	434	271	9659			478	240	616	9657-3	801	520		
102	472-2	202	9639	272	596			479	568-1	617	409	802	397		
103	9609-1	203	393	273	332	346	391	480		618	9674	803	581	881	454-9
104	9636-1	204	557	274	349	347	540G-1	481	518			804	398		
105	399-1	205	380	275	ED12	348	417					805	358		
106	528-2	206	328-1	276	9693	349	523			631	446	806	9694-3	901	498
107	9604-1	207	9606					501	599			807	9696	902	496B
108	510-1	208	357					502	582					903	558-1
116	319-a							503	556-1	646	070	816	9669		
117	568-4	209	009-3	286	463	401	550	504	9611	647	458	817	341		
		210	350	287	438	402	470	505	008	648	492	818	021	916	499
132	356-1	211	351	288	325	403	460	506	022			819	443	917	558-2
133	568-3	212	9610	289	9657-2	404	384					820	435		
134	528-1					405	568-2								
135	9688	221	442M							661	485				
136	9697	222	541	301	455			516	450	662	9666			931	459
		223	475-8	302	330	416	023-1	517	381			831	535	932	9625
146	540A-2	224	9636-2	303	491	417	457-4	518	587			832	018	933	497
147	568-5	225	361					519	ED11	701	069	833	370		
148	452	226	-							702	-	834	9620		
149	9694	227	9657-1	317	323	431	108	531	-	703	456M	835	507	946	501
		228	531	318	420	432	-					836	373		
		229	527			433	565					837	401-1		
161	418-1	230	9698			434	9636-3			716	549-1M	838	9626	001	D.A.
162	-			331	427			546	584	717	363	839	433	002	D.I.
		241	495	332	064B			547	439	718	413M	840	-		
176	473	242	530	333	454-3	446	422	548	410M						
177	418-2	243	9699	334	-										
178	568-6			335	489					731	560M	851	219		
179	-			336	348	461	440	601	448			852	385		
180	-	256	444M	337	9670			602	517			853	454-6		
181	-	257	487	338	089			603	477/447	746	S190	854	469-2M		
		258	423/504	339	-	476	586-3			747	S191				
191	418-3	259	9641	340	9688	477	416-2			748	S192				
										749	S193	866	486		
										750	S194	867	469-1M		

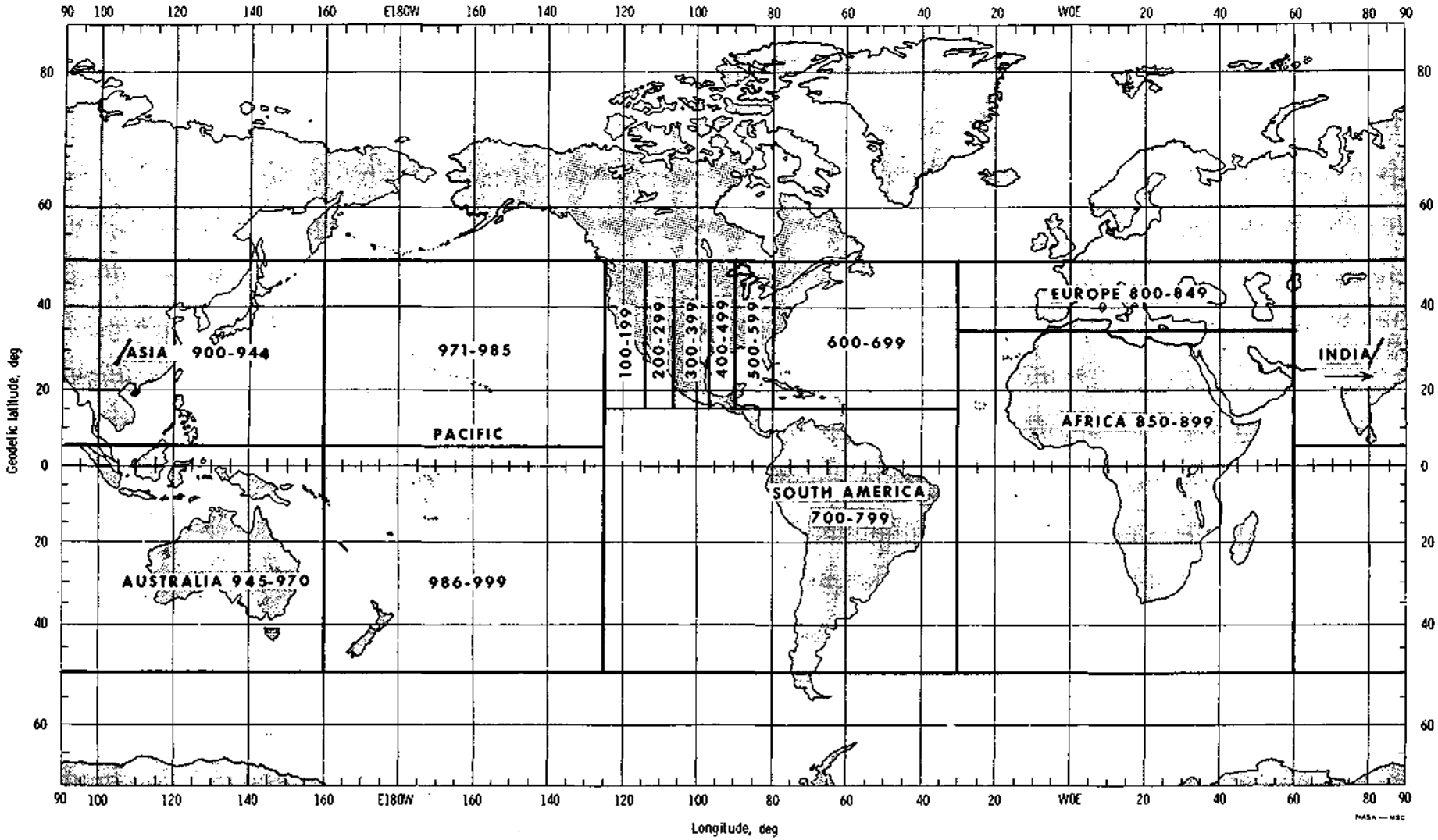

Figure B1-1. EREP Site Regions

(1) SITE TASK-IDENT	(2) SUPP REQ	(3) TEST SITE	(4) TEST SITE COORDINATES	(5) FO VALUE INDEX		(6) SENSOR REQUIREMENTS: S190A	S190B	S191	S192	S193	S194	(7) TEST CONDITIONS: SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	(8) UNIQUE TEST CONDITIONS
146998 (EPN-2)		NORTHERN UNITED STATES	TARGET OF OPPORTUNITY		DESIRED	PHOTOS: 4 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 15% FILM: SO242 FILTER: NONE	—	60 SEC	RAD/SCAT 60 SEC ALL POLARIZATIONS CTC	60 SEC	OCT - DEC	1	>30°	0%	ORDER OF PRIORITY AND WEIGHTING FACTORS TASK/SITES 146399, 146326 AND 146327 1. 146327 - 35% 2. 146326 - 35% 3. 146998 - 30%
					MANDATORY	PHOTOS: 4 O.L.: 10% OR FILM: ANY FILTER: ANY	PHOTOS: 6 O.L.: 15% FILM: ANY FILTER: ANY	—	—	RAD/SCAT 40 SEC ALL POLARIZATIONS CTC	—	OCT - DEC	1	>20°	<50%	SNOW COVER DESIRED RANGES FROM ZERO ON THE FREEZE-THAW LINE TO 100 FOR A SNOW COVERED STUDY ON ONE SKYLAB PASS. THE FREEZE-THAW LINE IS TO BE DETERMINED IN REAL TIME.
146326 - (EPN-2)	A/C	TEXAS	31°30'-33°20'N 99°40'-102°00'W		DESIRED	PHOTOS: 3 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 15% FILM: SO242 FILTER: NONE	—	40 SEC	RAD/SCAT 40 SEC ALL POLARIZATIONS CTC	40 SEC	MAY AUG - SEP	1 1	>30°	0%	SEE PRIORITY AND WEIGHTING FACTORS COMMENT ABOVE UNDER 146998. S190A OR S190B DATA MANDATORY. WEIGHTING FACTORS: 35%
	A/C AND GT				MANDATORY	PHOTOS: 3 O.L.: 15% OR FILM: ANY FILTER: ANY	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	—	—	RAD/SCAT 20 SEC ALL POLARIZATIONS CTC	—	MAY AUG - SEP	1 1	>20°	<50%	COVERAGE OF TASK/SITES 146326 AND 146327 ON THE SAME MISSION IS DESIRED (MAY PREFERRED).
146327 (EPN-2)	A/C	OKLAHOMA	36°30'-37°15'N 98°00'-98°30'W		DESIRED	PHOTOS: 3 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 15% FILM: SO242 FILTER: NONE	—	40 SEC	RAD/SCAT 40 SEC ALL POLARIZATIONS CTC	40 SEC	MAY AUG - SEP	1 1	>30°	0%	SEE PRIORITY AND WEIGHTING FACTORS COMMENT ABOVE UNDER 146399 WEIGHTING FACTOR: 35%
	A/C AND GT				MANDATORY	PHOTOS: 3 O.L.: 15% OR FILM: ANY FILTER: ANY	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	—	—	RAD/SCAT 20 SEC ALL POLARIZATIONS CTC	—	MAY AUG - SEP	1 1	>20°	<60%	COVERAGE OF TASK/SITES 146326 AND 146327 ON THE SAME MISSION IS DESIRED (MAY PREFERRED).

NOTES:

(1) TASK-SITE IDENTIFICATION - EACH TASK IS ACCORDED A THREE-DIGIT DESIGNATOR ACCORDING TO TYPE OF DISCIPLINE AND SUB-DISCIPLINE INVOLVED. EACH SITE IS ACCORDED A THREE-DIGIT NUMBER ACCORDING TO GEOGRAPHIC LOCALE. THE COMBINATION OF THESE FORMS IS A SIX-DIGIT IDENTIFICATION FOR EACH TASK/SITE. ALL TASKS AND ALL SITES FOR ALL TASKS WILL BE LISTED. EXCEPT FOR TASK/SITES WHERE S191 DATA ARE THE MAJOR EFFORT, SIX-DIGIT IDENTIFIERS WILL BE USED IN MSC OPERATIONAL ACTIVITIES AND COMPUTER PROGRAMS FOR TRACEABILITY AND ACCOUNTABILITY OF REQUIREMENTS. THIS CODE WILL BE ASSIGNED BY THE SKYLAB PROGRAM OFFICE - KM. EXPERIMENT PROPOSAL NUMBERS (EPN) APPEAR IN PARENTHESES BELOW THE TASK/SITE IDENTIFICATION NUMBERS.

(2) SUPPORT REQUIRED - AIRCRAFT AND GROUND TRUTH SUPPORT REQUIREMENTS FOR SPECIFIC TASK/SITES ARE IDENTIFIED. DESIRED AND MANDATORY REQUIREMENTS ARE INDICATED BY A/C AND/OR GT SYMBOLS.

(3) TEST SITE - GEOGRAPHICAL WORD DESCRIPTION OF TEST SITE LOCATION, PREFERRABLY INCLUDING STATE OR COUNTRY OF LOCATION AND GENERAL LOCATION WITHIN SAME, e.g., COASTAL WATERS OFF S.E. COAST OF INDIA.

(4) TEST SITE COORDINATES - SPECIFIC BOUNDARY POINT COORDINATES FOR UP TO TEN POINTS OR CENTER POINT COORDINATES AND ACCEPTABLE RADIUS FOR DEFINED POINT OR CIRCULAR TARGETS.

(5) FO VALUE INDEX - RELATIVE MERIT VALUE OF THIS TASK/SITE. ALL TASK/SITES MUST HAVE A VALUE INDEX. THIS INDEX WILL BE USED IN DECISION MAKING WHERE CONFLICTS EXIST IN THE ABILITY TO SATISFY LISTED REQUIREMENTS OF VARIOUS TASK/SITES. A VALUE IS TO BE PROVIDED FOR BOTH DESIRED AND MANDATORY REQUIREMENTS.

(6) SENSOR REQUIREMENTS - INDICATES THE DESIRED AND MANDATORY SENSOR REQUIREMENTS. GENERALLY, SENSOR OPERATING TIMES ARE SPECIFIED AND ALL ENTRIES ARE ON A PER-PASS/PER-SITE BASIS UNLESS OTHERWISE INDICATED. S191 ENTRIES INCLUDE SPECIFIC SITE IDENTIFICATION UNLESS ENTIRE TASK/SITE REQUIREMENT IS FOR S191 DATA, IN WHICH CASE, THE SITES WILL BE LISTED IN THE SAME MANNER AS ALL OTHER TASK SITES, TIME ON TARGET IN SECONDS, OR TIME ALONG NADIR TRACK IF OPERATION IN THIS MODE IS SPECIFIED. S192 ENTRIES INCLUDE THE NUMBER OF SECONDS ALONG THE GROUND TRACK FOR WHICH DATA ARE REQUIRED. S193 ENTRIES INCLUDE THE MODE AND POLARIZATION REQUIRED.

(7) TEST CONDITIONS - TEST SITE CONDITIONS AND NUMBER OF EREP PASSES REQUISITE TO THE SUCCESSFUL PERFORMANCE OF EACH TASK/SITE. SEASONAL REQUIREMENTS ARE IDENTIFIED BY EITHER MONTHS OR SL MISSION. THE NUMBER OF PASSES SPECIFIED ARE ON A PER-PASS/PER-SITE BASIS UNLESS OTHERWISE INDICATED. SUN ANGLE ENTRIES ARE LOCAL SUN ANGLE LIMITS AT THE GROUND SITE. CLOUD COVER ENTRIES ARE THE DEGREE OF CLOUD COVER REQUESTED OR PERMITTED AT THE TIME OF DATA TAKING. SHOULD BE IN TERMS CONSISTENT WITH THE MANNER IN WHICH WEATHER BUREAU DATA IS PROVIDED IN REAL-TIME, e.g., 0%, <30%, <70%, OR LESS THAN 100%.

(8) UNIQUE TEST CONDITIONS - ANY ADDITIONAL OR UNIQUE TEST CONDITIONS REQUIRED TO SATISFY THE TASK/SITE SCIENTIFIC DATA REQUIREMENTS ARE LISTED HERE. DESIRED AND MANDATORY SNOW COVER REQUIREMENTS ARE SPECIFIED WHERE APPLICABLE.

Figure B1-2. Sample Task/Site Matrix Format and Explanations

d) Passes utilized primarily or solely for the coverage of real-time targets of opportunity will count against the total allowable EREP passes.

e) Any EREP pass requiring in excess of 6-1/2 hours of total crew time for preparation, setup, pass performance, and postpass activities will be charged as two passes. This does not include time required for film transport mechanism film loading and unloading. Total EREP crew time for SL-2 will not exceed 90 hours. This total time includes all time charged to EREP activities.

f) Site coverage will primarily be scheduled on the basis of assigned priorities as compatible with other mission constraints. However,in the final selection of passes of nearly equal merit, the completion minimum requirements for tasks already started will be given preference over the initial gathering of data for new tasks.

B1.4 GENERAL EREP TEST CONDITIONS

a) Venting from the following controllable external OA vents: contingency condensate dump; CSM RCS firings; EVA vent; and M-512 experiment vent must be completed 15 minutes prior to and avoided during experiment performance for S190A and S190B, S191, and S192.

b) The South Atlantic Anomally and Van Allen Belt horns are not EREP constraints on data taking. However, where reasonable, the exposure of EREP film to these radiation areas should be avoided or minimized.

c) Voice recorded annotations will be made for each EREP data pass noting such items as equipment problems, meteorological descriptions, unusual occurrences and time at start and finish of each data pass.

d) For most situations S190A and S190B data will be taken using a standard set of camera film/filter combinations. This standard set for SL-2 is as follows:

S190A

Camera Station	1	2	3	4	5	6
Film*	EK2424	EK2424	S0127	S0356	S0022	S0022
Filter	CC	DD	EE	FF	BB	AA

S190B S0242 with no filter

B1.5 MINIMUM EREP PERFORMANCE GUIDELINES IN THE EVENT OF REDUCED SKYLAB OPERATIONS

a) S190A and S190B - One roll of film should be exposed concurrently at each of the camera stations. The standard film/filter set may be used. Observations should be made in Z-LV and should include farm and urban areas, inland and coastal water areas,

* S022, S0242, and S0127 are interchangeable with EK3400, S0356, and EK2443 films respectively; one being a thin base version of the other.

and some areas of geological and hydrological interest. Depending on the choice of orbits available these requirements can probably be met by one or two passes. The 20° minimum sun illumination restriction should be observed.

b) S191 - Data should be acquired for two or three sites within the regions covered by S190A and/or S190B.

c) S192 - Data should be acquired continuously during the above S190 passes. Any coverage of coastal areas should be extended to provide oceanic data.

d) S193 - Radiometer/Scatterometer data should be acquired over ocean areas both along track and cross-track. Data are required for both contiguous and non-contiguous modes and both horizontal and vertical polarizations. The pass duration should provide several minutes of data for each combination of parameters.

At least five minutes of altimeter data should be acquired over ocean areas.

Radiometer/scatterometer and altimeter data should be acquired over land only when other data acquisition is planned.

e) S194 - Data should be acquired over reasonably homogenous areas, preferably all of the following:

1) deserts
2) vegetation
3) lakes
4) oceans

f) In the event that Z-LV operations are not possible, EREP data should be acquired for all sensors during at least one pass. The pass should be selected to most nearly meet nominal EREP operation requirements.

B1.6 DETAIL EREP MATRIX INFORMATION

a) Mandatory requirements are the minimum quantities of data with which the investigator can perform a reasonable amount of the assigned analysis efforts. When a clear indication exists that the Skylab Program cannot meet these minimums, other than hardware failure situations, the task/site will be dropped from consideration.

b) Mandatory aircraft or ground truth notations in the Support Requirement's column indicate that this task/site has no scientific merit (in terms of obtaining spacecraft data) unless the associated A/C or GT data can also be obtained. Where NASA aircraft are involved in such situations the mandatory requirements listed in the aircraft section will be considered as the minimums necessary to meet this requirement. In all other cases, aircraft data is not considered mandatory to the overall investigation. In the cases stated above, if the mandatory requirements listed in the aircraft section cannot be met, then it is not beneficial to schedule the aircraft for that

task/site flight. In the above cases of mandatory A/C or GT requirements, the task/site will not be considered for coverage unless all mandatory requirements can be met. If data is taken by the spacecraft, however, then the task/site requirements will not be considered as accomplished.

c) S190A and S190B - Where the number of frames and overlap requested are less than that required for coverage of the site, it is assumed that all areas of the site are equally good for photographic purposes unless otherwise stated. Where these same requirements exceed the ground track length for a particular pass over a site, it is assumed that the intent was to obtain site coverage only.

d) S191 - The only S191 sites for crew tracking which are or will be listed are those for which crew training aids are available or easily made available. For S191, nadir track is assumed if no other specific instructions are given. The S191 time shown is the time over the site or the time locked on to each specific target where identified for crew tracking.

e) S193 - The operating mode for S193 is assumed to be 0° pitch, 0° roll and any polarization unless otherwise stated.

100 Series

AGRICULTURE/RANGE/FORESTRY

Studies of crops, forests and rangelands, including management, resource evaluation, mapping and inventory information, crop identification, acreage estimation, irrigation needs, land productivity and crop vigor, soil surveys, soil conditions, soil distribution of insect infestations and freeze-thaw line/snow cover supportive studies.

Purposes

Task

101 Assess usefulness of Skylab data in agricultural resource evaluation and inventories, including (1) accuracy with which agricultural areas can be delineated from other land use categories, (2) feasibility of performing quarterly tabulations of predominant agricultural use per square mile, and (3) accuracy with which acreage of selected crops can be estimated.

102 Evaluate the utility of manually interpreting satellite imagery for crop inventory on a regional scale, and to test an automated pattern recognition, cover mapping, and area computation system. Compare EREP multispectral scanner (S192) data with the Statistical Reporting Service data of the USDA for cost and accuracy of crop acreage mensuration.

103 Assess Skylab imagery usefulness in contributing significant data to agriculture, forestry and rangeland inventory in Iran. Supplement existing studies of resource inventories and provide information for developing the resources of nonproductive or inaccessible lands.

104 Obtain data to identify crops and crop areas of Brazil, including (1) optimum sensor selection, (2) pattern recognition of principal crop, land use, and crop mapping, (3) soil mapping into major groups, and (4) pasture and forestry management.

105 Identify the procedures and techniques required for crop discrimination using EREP data. Based on pattern recognition capability using S192 data and statistical production records, the crop yield will be forecasted for use in planning by the agricultural community.

106
134 Improve present knowledge of the natural and agriculture-livestock resources of the Humid Pampa. Data will be analyzed to identify the land use classifications and vegetation for delineation of drainage basins features and soil types.

107 Study the Sudan, North Africa; Columbia, South America; and the Philippine Islands with participation of the Food and Agriculture Organization of the United Nations as the consulting coordinator. Areas of interest include crop inventory, forest inventory, and insect or disease damage.

108 Develop a uniform legend and procedure for the mapping and classification of the natural resources on a global basis. Identified procedures will be demonstrated by the classification of rice and rangelands.

116 Determine methods for the early detection of insect infestations on a variety of plants in the lower Rio Grande Valley of Texas. Plant density and distribution, as related to insect migration and degree of infestation, will be identified.

117 133 147 178 A multidiscipline study of geology, hydrology, limnology, oceanography, and agriculture. Establish spectral signatures, taking into account atmospheric effects as measured by S191. Sea state and thermal patterns in the eastern Mediterranean through the radiometer-scatterometer and IR sensor on board Skylab. Sense agricultural crops and native vegetation with the multispectral scanner and cameras. Multiple objectives include extension of wheat lands and date palm production areas; more productivity through location of drainage areas into the desert; more productive fishing efforts; detection of plant stress; identification of rock outcroppings for geological exploration; and application of remote sensing to the Israeli Government drought insurance plan.

132 134 Identify the techniques and procedures required to map saline soils by use of remotely sensed multiscanner and photographic data.

135 Locate land areas affected by flood conditions, identify croplands usage, and determine new areas suitable to agricultural production.

136 Identify soil types and land use, locate areas of improper land use, erosion, etc., determine locations suitable for land or forest reclamation projects all in southern Mexico.

146 Determine the techniques and procedures required to use microwave data for the identification of available moisture, either in the soil or snow packs. Evaluate the microwave system and provide a management and scheduling instrument for the available water for agriculture and potential for flood forecasting.

148 Develop techniques and procedures, using multispectral systems, to identify from remotely sensed data the physical and thermal characteristics of plants and soil. Developed procedures will provide the capability to monitor evapotranspiration and a general irrigation management and scheduling instrument.

149 Identify areas in Mexico where cropland irrigation is or should be used and when such irrigation should be applied.

161 177 191 Classify forest and land use and measure changes; detect insect infestations within forest stands; identify micro-ecosystems of mountain valley area for rangeland inventory from data collected at orbital altitude.

176 Design a multistage automatic pattern recognition system to perform forest inventories. Develop coordinate transforms to transfer boundaries and point data between SL, A/C and ground maps, providing the capability to inventory large area of forest, and general land use features.

Table B2-1. Agriculture/Range/Forestry (100 Series)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	SENSOR REQUIREMENTS S191	SENSOR REQUIREMENTS S192	SENSOR REQUIREMENTS S193	SENSOR REQUIREMENTS S194	TEST CONDITIONS SEASONAL REQUIREMENTS	TEST CONDITIONS NUMBER PASSES	TEST CONDITIONS SUN ANGLE	TEST CONDITIONS CLOUD COVER	UNIQUE TEST CONDITIONS
101106 (382)	A/C	SAN JOAQUIN COUNTY, CALIFORNIA	37°20'- 38°20'N, 120°45'-121°45'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: EK3449 FILTER: W-12	--	18 SEC.	--	--	APR - JUN JUL - SEP	1 1	>30°	0%	0% SNOW COVER.
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	--	--	--	--	--	APR - JUN JUL - SEP	1 1	>20°	<50%	
101104 (382)	A/C	SOUTHERN SAN JOAQUIN VALLEY. CALIFORNIA	36°00'N, 120°15'W 36°40'N, 119°15'W 36°10'N, 118°40'W 35°30'N, 119°40'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: EK3443 FILTER: W-12	--	18 SEC.	--	--	APR - JUN JUL - SEP	1 1	>30°	0%	0% SNOW COVER.
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	--	--	--	--	--	APR - JUN JUL - SEP	1 1	>20°	<50%	
102511 (472-2)	A/C	SOUTHERN MICHIGAN	42°10'-43°00'N, 83°30'-85°10'W		DESIRED	PHOTOS: 1 O.L.: 0% FILM: STD FILTER: STD	PHOTOS: 1 O.L.: 0% FILM: S0242 FILTER: --	5 SEC. 42°41'N, 84°30'W 102535	11 SEC.	--	--	MAY AUG SEP	1 1 1	>30°	0%	PRIORITY AND WEIGHTING FACTORS OF DATA TAKING PERIODS - EARLY SL-3 (AUG) 60%, DURING SL-2 (MAY) 20%, AND LATE SL-3 (SEP) 20% IN ORDER OF PRIORITY. 0% SNOW COVER.
					MANDATORY	PHOTOS: 1 O.L.: 0% FILM: STD FILTER: STD	OR PHOTOS: 1 O.L.: 0% FILM: ANY FILTER: ANY	--	11 SEC.	--	--	MAY - SEP	1	>20°	<50%	S190B FILM ORDER OF PRIORITY S0242, EK 3414 EK 3443, EK 3400
103841 (9609-1)		IRAN	33°30'-37°30'N, 45°00'-56°00'E		DESIRED	PHOTOS: 14 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 19 O.L.: 60% FILM: S0242 FILTER: --	--	105 SEC.	--	--	MAY JUL - SEP OCT - DEC	1 1 1	>30°	0%	SNOW COVER 0%-DESIRED; "ANY" MANDATORY DESIRE TRACK 10.
					MANDATORY	PHOTOS: 7 O.L.: 15% FILM: ANY FILTER: ANY	OR PHOTOS: 10 O.L.: 15% FILM: EK3443 FILTER: W-12	--	--	--	--	ANY	1	>20°	<50%	
104738 (9636-1)		BRAZIL	17°00'-23°00'S, 47°00'-50°00'W		DESIRED	PHOTOS: 6 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 15% FILM: EK3443 FILTER: W-12	--	100 SEC.	100 SEC RAD/SCAT H-H CTC	100 SEC.	MAY NOV - DEC	1 1	>30°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	PHOTOS: 4 O.L.: 15% FILM: S0242 FILTER: --	--	45 SEC.	--	--	ANY	1	>20°	<30%	
104739 (9636-1)		BRAZIL	19°00'-22°00'W, 53°00'-56°00'W		DESIRED	PHOTOS: 4 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 15% FILM: EK3443 FILTER: W-12	--	60 SEC.	60 SEC RAD/SCAT H-H CTC	60 SEC.	MAY NOV-DEC	1 1	>30°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: ANY FILTER: ANY	PHOTOS: 3 O.L.: 15% FILM: S0242 FILTER: --	--	30 SEC.	--	--	ANY	1	>20°	<30%	
104741 (9636-1)		BRAZIL	22°00'-25°00'S, 50°00'-53°00'W		DESIRED	PHOTOS: 4 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 15% FILM: S0242 FILTER: --	--	60 SEC.	60 SEC. RAD/SCAT H-H CTC	60 SEC.	MAY NOV - DEC	1 1	>30°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: ANY FILTER: ANY	PHOTOS: 3 O.L.: 15% FILM: S0242 FILTER: --	--	30 SEC.	--	--	ANY	1	>20°	<30%	
104742 (9636-1)		BRAZIL	28°00'-31°00'S, 53°00'-56°00'W		DESIRED	PHOTOS: 4 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 15% FILM: EK3443 FILTER: W-12	--	60 SEC.	60 SEC RAD/SCAT H-H CTC	60 SEC.	APR - JUN OCT - DEC	1 1	>30°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: ANY FILTER: ANY	PHOTOS: 3 O.L.: 15% FILM: S0242 FILTER: --	--	30 SEC.	--	--	ANY	1	>20°	<30%	

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FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B2-1. Agriculture/Range/Forestry (100 Series) (Continued)

SITE TASK-IDENT	FO	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	SENSOR REQUIREMENTS S191	SENSOR REQUIREMENTS S192	SENSOR REQUIREMENTS S193	SENSOR REQUIREMENTS S194	TEST CONDITIONS SEASONAL REQUIREMENTS	TEST CONDITIONS NUMBER PASSES	TEST CONDITIONS SUN ANGLE	TEST CONDITIONS CLOUD COVER	UNIQUE TEST CONDITIONS
105417 (399-1)	A/C	MISSISSIPPI	32°15'-34°15'N, 90°15'-91°15'W		DESIRED	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 15% FILM: EK3443 FILTER: W-12	5 SEC. 33°31'N, 90°59'W 105460	22 SEC.	--	--	APR - JUN JUL - SEP OCT - DEC	1 1 1	>30°	0%	S191 SITE 105460 - GREENVILLE COTTON FIELD. 0% SNOW COVER. WEIGHTING FACTORS: APR - SEP 60% JUL - SEP 20% OCT - DEC 20%
					MANDATORY	PHOTOS: -- O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:	--	10 SEC.	--	--	APR - SEP	1	>30°	<30°	
107874 (9604-1)		SUDAN, NORTH AFRICA	10°20'-13°30'N, 23°40'-27°20'E		DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 14 O.L.: 60% FILM: S0242 FILTER: NONE	--	--	--	--	APR - JUN OCT - DEC	1 1	>30°	0%	PRIORITY AND WEIGHTING FACTORS TASK/SITES 107874 - 50%, 107737 - 25%, 107921 - 25%.
					MANDATORY	PHOTOS: 5 O.L.: 15% FILM: ANY FILTER: ANY OR	PHOTOS: 7 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	<50%	DESIRE TRACK 10 OR 59.
107737 (9604-1)		COLOMBIA, SOUTH AMERICA	02°00'S-11°40'N, 68°40'W-80°00'W		DESIRED	PHOTOS: 25 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 34 O.L.: 60% FILM: S0242 FILTER: NONE	--	--	--	--	APR - JUN OCT - DEC	1 1	>30°	0%	SEE PRIORITY AND WEIGHTING FACTORS COMMENT UNDER 107874 ABOVE. S190A OR S190B DATA MANDATORY.
					MANDATORY	PHOTOS: 12 O.L.: 15% FILM: ANY FILTER: ANY OR	PHOTOS: 17 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	<50%	
107921 (9604-1)		PHILIPPINES	05°00'- 19°40'N, 116°20'-127°00'E		DESIRED	PHOTOS: 14 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 21 O.L.: 60% FILM: S0242 FILTER: NONE	--	--	--	--	APR - JUN OCT - DEC	1 1	30°	0%	SEE PRIORITY AND WEIGHTING FACTORS COMMENT UNDER 107874 ABOVE.
					MANDATORY	PHOTOS: 7 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 11 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	<50%	DESIRE TRACK 69.
108226 (510-1)	A/C	COLORADO PLATEAU	38°20'N, 110°00'W 39°30'N, 109°00'W 37°45'N, 106°00'W 36°00'N, 109°00'W 37°00'N, 110°00'W 37°45'N, 109°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: EK3443 FILTER: W-12	--	40 SEC.	--	--	MAY - JUN AUG - SEP	1 1	>30°	0%	NONE SPECIFIED. WEIGHTING FACTOR 10%. TASK/SITES 108226 AND 108138 ARE MANDATORY DURING THE SAME MISSION (EXCEPT SL-4).
					MANDATORY	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY OR	PHOTOS: 4 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	<70%	
108138. (510-1)	A/C	STERRA-LAHONTON	38°50'N, 122°15'W 41°00'N, 121°00'W 39°00'N, 117°30'W 38°00'N, 119°30'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 60% FILM: EK3443 FILTER: W-12	--	40 SEC.	--	--	MAY AUG - SEP OCT - DEC	1 1 1	>30°	0%	NONE SPECIFIED. WEIGHTING FACTOR 10% TASK/SITES 108226 AND 108138 ARE MANDATORY DURING THE SAME MISSION (EXCEPT SL-4).
					MANDATORY	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY OR	PHOTOS: 4 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	MAY - DEC	1	>20°	<70%	
108141. (510-1)	A/C	NORTHERN GREAT VALLEY	38°50'N, 122°15'W 38°30'N, 134°00'W 38°00'N, 119°30'W 37°00'N, 121°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: EK3443 FILTER: W-12	--	40 SEC.	--	--	MAY AUG - SEP	1 1	>20°	0%	NONE SPECIFIED. WEIGHTING FACTOR 40% TASK/SITES 108141 AND 108433 ARE MANDATORY DURING THE SAME MISSION.
					MANDATORY	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY OR	PHOTOS: 4 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	MAY - SEP	1	>20°	<20%	
108433 (510-1)	A/C	COASTAL PLAIN	30°30'N, 93°50'W 31°30'N, 92°45'W 30°00'N, 91°00'W 29°10'N, 92°15W		DESIRED	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 60% FILM: EK3443 FILTER: W-12	--	30 SEC.	--	--	MAY AUG - SEP	1 1	>30°	0%	NONE SPECIFIED. WEIGHTING FACTOR 40%.
					MANDATORY	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY OR	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	MAY - SEP	1	>20°	<70%	TASK/SITES 108141 AND 108433 ARE MANDATORY DURING THE SAME MISSION.

FOLDOUT FRAME 1

FOLDOUT FRAME 2

FOLDOUT FRAME 3

Table B2-1. Agriculture/Range/Forestry (100 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
116301 (319a)		LOWER RIO GRANDE VALLEY, TEXAS	25°45'-26°40'N, 97°10'-99°05'W		DESIRED	PHOTOS: 2 O.L.: 15% FTLM: STD FILTER: STD	PHOTOS: 2 O.L.: 15% FTLM: EK3443 FILTER: W-12	5 SEC. 26°25'N, 97°58'W 116380	12 SEC.	--	--	APR - JUN JUL - SEP OCT - DEC	1 1 1	>30°	0%	ORDER OF PRIORITY AND WEIGHTING FACTORS, DATA TAKING PERIODS: 1. OCT - DEC 60% 2. JUL - SEP 10% 3. APR - JUN 30%
					MANDATORY	PHOTOS: 1 O.L.: 0% FTLM: ANY FILTER: ANY	OR PHOTOS: 1 O.L.: 0% FTLM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	<50%	
117961 (568-4)		ISRAEL	29°00'-33°00'N, 34°00'-36°00'E		DESIRED	PHOTOS: 16 O.L.: 60% FTLM: STD FILTER: STD	PHOTOS: 18 O.L.: 60% FTLM: EK3443 FILTER: W-12	5 SEC. SITE *	50 SEC.	50 SEC. RAD/SCAT H-H CTC 0° ROLL 0° PITCH	50 SEC.	APR - JUN AUG - SEP NOV - DEC	1 1 1	>30°	0%	SNOW COVER "ANY" THIS TASK ASSOCIATED WITH TASKS 133, 147 AND 178. DESIRE TRACK 53. WEIGHTING FACTORS: NOV - DEC 50% APR - JUN 30% AUG - SEP 20%
					MANDATORY	PHOTOS: 6 O.L.: 60% FTLM: ANY FILTER: ANY	--	--	25 SEC.	--	--	ANY	1	>30°	<30%	
						PHOTOS: O.L.: FTLM: FILTER:	PHOTOS: O.L.: FTLM: FILTER:									
						PHOTOS: O.L.: FTLM: FILTER:	PHOTOS: O.L.: FTLM: FILTER:									
132306 (356-1)	A/C	SE RIO GRANDE VALLEY - HILDALGO AND CAMERON COUNTIES, TEXAS	25°50'-26°47'N, 97°12'-98°38'W		DESIRED	PHOTOS: 2 O.L.: 15% FTLM: STD FILTER: STD	PHOTOS: 3 O.L.: 15% FTLM: SO242 FILTER: W-12	10 SEC * 26°25'N, 97°57'W 132385 ** 26°21'N, 97°52'W 132390 ***	28 SEC	--	--	APR - JUN AUG - SEP NOV - DEC	1 1 1	>30°	0%	* S191 SITES DURING SL-2 (APR - JUN) AND SL-4 (NOV - DEC) ** DELTA LAKE, TEXAS *** FIELD, DELTA LAKE, TEXAS 0% SNOW COVER. PRINCIPAL INVESTIGATOR DESIRES DATA TAKEN ON DESCENDING ORBITS CROSSING BOTH COUNTIES IN ONE PASS. ORDER OF PRIORITY AND WEIGHTING FACTORS. 1. APR - JUN - 33% 2. NOV - DEC - 33% 3. AUG - SEP - 33%
					MANDATORY	--	--	--	28 SEC	--	--	ANY	1	>20°	<50%	
					DESIRED	PHOTOS: O.L.: FTLM: FILTER:	PHOTOS: O.L.: FTLM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FTLM: FILTER:	PHOTOS: O.L.: FTLM: FILTER:									
134727 (528-1)		PAMPAS OF ARGENTINA	30°00'-40°00'S, 56°00'-64°00'W		DESIRED	PHOTOS: 10 O.L.: 15% FTLM: STD FILTER: STD	PHOTOS: 16 O.L.: 15% FTLM: SO242 FILTER: NONE	--	190 SEC	--	--	MAY AUG - SEP NOV - DEC	2* 2* 2*	>30°	0%	* PASSES SHOULD NOT BE REPETITIVE WEIGHTING FACTORS ASSIGNED DATA PASSES MAY TWO PASSES 10% AND 10% RESPECTIVELY AUG - SEP TWO PASSES 15% AND 15% RESPECTIVELY NOV - DEC TWO PASSES 25% AND 25% RESPECTIVELY SNOW COVER 0% DESIRED; "ANY" MANDATORY
					MANDATORY	PHOTOS: 5 O.L.: 15% FTLM: STD FILTER: STD	OR PHOTOS: 8 O.L.: 15% FTLM: ANY FILTER: NONE	--	--	--	--	ANY	1	>20°	<50%	
135946 (9688)		WEST MALAYSIA	01°45'- 06°45'N, 99°40'-104°35'E		DESIRED	PHOTOS: 6 O.L.: 15% FTLM: STD FILTER: STD	PHOTOS: 9 O.L.: 15% FTLM: EK3443 FILTER: W-12	--	--	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>30°	0%	WEIGHTING FACTORS: MAY - 50% AUG - SEP - 40% NOV - DEC - 10% DESIRE TRACK 56
					MANDATORY	PHOTOS: 3 O.L.: 15% FTLM: ANY FILTER: ANY	OR PHOTOS: 5 O.L.: 15% FTLM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	<50%	
136487 (9697)		SOUTHEAST MEXICO	14°00'-18°00'N, 90°00'-95°00'W		DESIRED	PHOTOS: 11 O.L.: 60% FTLM: STD FILTER: STD	PHOTOS: 15 O.L.: 60% FTLM: SO242 FILTER: -	--	50 SEC.	--	--	NOV - DEC	2	>30°	0%	
					MANDATORY	PHOTOS: 6 O.L.: 15% FTLM: ANY FILTER: ANY	PHOTOS: 8 O.L.: 15% FTLM: EK3443 FILTER: W-12	--	--	--	--	NOV - DEC	1	>20°	<30%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B2-1. Agriculture/Range/Forestry (100 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
146994 (540A-2)		NORTHERN UNITED STATES	TARGET OF OPPORTUNITY		DESIRED	PHOTOS: 4 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 15% FILM: SO242 FILTER: NONE	--	60 SEC	RAD/SCAT 60 SEC *	60 SEC	OCT - DEC	1	>30°	0%	ORDER OF PRIORITY AND WEIGHTING FACTORS TASK/SITES 146399, 146326 AND 146327 1. 146327 - 35% 2. 146326 - 35% 3. 146994 - 30%
					MANDATORY	PHOTOS: 4 O.L.: 15% FILM: ANY FILTER: ANY	OR PHOTOS: 6 O.L.: 15% FILM: ANY FILTER: ANY	--	--	RAD/SCAT 40 SEC *	--	OCT - DEC	1	>20°	<50%	SNOW COVER DESIRED RANGES FROM ZERO ON THE FREEZE THAW LINE TO 100% FOR A SNOW COVERED STUDY ON ONE SKYLAB PASS. THE FREEZE-THAW LINE IS TO BE DETERMINED IN REAL TIME.
146326 (540A-2)	A/C	TEXAS	31°30'-33°20'N 99°40'-102°00'W		DESIRED	PHOTOS: 3 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 15% FILM: SO242 FILTER: NONE	--	40 SEC	RAD/SCAT 40 SEC *	40 SEC	MAY AUG - SEP	1 1	>30°	0%	SEE PRIORITY AND WEIGHTING FACTORS COMMENT ABOVE UNDER 146994. S190A OR S190B DATA MANDATORY. WEIGHTING FACTORS: 35%
	A/C AND GT				MANDATORY	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	OR PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	--	--	RAD/SCAT 20 SEC *	--	MAY - SEP	1	>20°	<50%	COVERAGE OF TASK/SITES 146326 AND 146327 ON THE SAME MISSION IS DESIRED (MAY PREFERRED).
146327 (540A-2)	A/C	OKLAHOMA	35°30'-37°15'N 94°00'-96°30'W		DESIRED	PHOTOS: 3 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 15% FILM: SO242 FILTER: NONE	--	40 SEC	RAD/SCAT 40 SEC *	40 SEC	MAY AUG - SEP	1 1	>30°	0%	SEE PRIORITY AND WEIGHTING FACTORS COMMENT ABOVE UNDER 146399 WEIGHTING FACTOR: 35%!
	A/C AND GT				MANDATORY	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	OR PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	--	--	RAD/SCAT 20 SEC *	--	MAY - SEP	1	>20°	<50%	COVERAGE OF TASK/SITES 146326 AND 146327 ON THE SAME MISSION IS DESIRED (MAY PREFERRED).
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
148316 (452)	A/C	SOUTH DAKOTA	45°00'- 45°40'N, 99°50'-100°40'W		DESIRED	PHOTOS: 1 O.L.: 0% FILM: STD FILTER: STD	PHOTOS: 1 O.L.: 0% FILM: SO242 FILTER: NONE	5 SEC. 45°20'N-100°01'W 148375	13 SEC.	5 SEC. RAD/SCAT H-H CTC 0° PITCH 0° ROLL	5 SEC	LATE MAY 40% JUL - SEP 40% NOV - DEC 20%	2* 2* 1	>30°	0%	SNOW COVER <80%. *1 DAYTIME AND 1 NIGHT TIME PASS. DATA TO BE TAKEN APPROXIMATELY ONE HOUR BEFORE LOCAL SUNRISE - NIGHT PASSES.
					MANDATORY	PHOTOS: -- O.L.: FILM: FILTER:	PHOTOS: -- O.L.: FILM: FILTER:	5 SEC. 45°20'N - 100°01'W 148375	13 SEC.	--	--	LATE MAY - SEP	1	>20°	<50%	
149386 (9694)		CENTRAL MEXICO	25°08'- 26°48'N, 107°45'-109°39'W		DESIRED	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 7 O.L.: 60% FILM: EK3443 FILTER: W-12	--	35 SEC.	--	--	MAY AUG - SEP OCT - DEC	1 1 1	>30°	0%	
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: ANY FILTER: ANY	OR PHOTOS: 4 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	<50%	
149188 (9694)		NORTHWESTERN MEXICO	31°23'- 32°41'N, 114°46'-116°20'W		DESIRED	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 7 O.L.: 60% FILM: EK3443 FILTER: W-12	--	35 SEC.	--	--	MAY AUG - SEP OCT - DEC	1 1 1	>30°	0%	
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: ANY FILTER: ANY	OR PHOTOS: 4 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	<50%	
149402 (9694)		SOUTHWESTERN MEXICO	17°28'-18°43'N, 96°08'-97°26'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 60% FILM: EK3443 FILTER: W-12	--	24 SEC.	--	--	MAY AUG - SEP OCT - DEC	1 1 1	>30°	0%	
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: ANY FILTER: ANY	OR PHOTOS: 4 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	<50%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B2-1. Agriculture/Range/Forestry (100 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
161313 (418-1)	A/C	MANITOU COLORADO	38°30'- 39°30'N, 104°40'-105°50'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 60% FILM: EK3443 FILTER: W-12	70 SEC. 38°57'N, 105°08'00"W 161345	17 SEC	--	--	MAY AUG	1 1	>30°	0%	LATE MAY PREFERRED. * DESIRE MAXIMUM ALLOWABLE TRACKING TIME TO SAMPLE WIDEST AZIMUTH ANGLES POSSIBLE. SNOW COVER 0% DESIRED; <40% MANDATORY.
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	--	--	--	--	--	MAY AUG	1 1	>20°	<50%	
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
176127 (473)	A/C	NORTHERN CALIFORNIA FOREST	41°20'N, 123°49'W 40°06'N, 123°45'W 40°01'N, 121°52'W 37°34'N, 120°07'W 37°55'N, 119°01'W 41°23'N, 121°01'W		DESIRED	PHOTOS: 7 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 20 O.L.: 80% FILM: EK3443 FILTER: W-12	--	25 SEC.	--	--	MAY AUG - SEP	1 1	>30°	0%	* LATE MAY PREFERRED. SNOW COVER 0% DESIRED; <40% MANDATORY.
					MANDATORY	PHOTOS: 4 O.L.: 15% OR FILM: ANY FILTER: ANY	PHOTOS: 6 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	*MAY - SEP	1	>20°	<50%	
177512 (418-2)	A/C	ATLANTA GEORGIA	32°50'-34°00'N, 84°00'-86°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 60% FILM: EK3443 FILTER: W-12	70 SEC. 33°30'N, 84°49'W 177530	25 SEC.	--	--	MAY - JUN SEP - DEC	1 1	>30°	0%	PRIORITY AND WEIGHTING FACTORS TASK/SITES 161512, 161313 AND 161312 SNOW COVER 0% DESIRED; <40% MANDATORY. * DESIRE MAXIMUM ALLOWABLE TRACKING TIME TO SAMPLE WIDEST AZIMUTH ANGLES POSSIBLE.
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	--	--	--	--	--	MAY - JUN SEP - DEC	1 1	>20°	<50%	
178861 (568-6)		ISRAEL	29°00'-34°00'N 33°00'-36°00'E		DESIRED	PHOTOS: 18 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 20 O.L.: 60% FILM: EK3443 FILTER: W-12	--	115 SEC.	115 SEC. RAD/SCAT H-H CTC 0° ROLL 0° PITCH	--	APR - JUN JUL - SEP OCT - DEC	1 1 1	>30°	0%	SNOW COVER "ANY". THIS TASK ASSOCIATED WITH TASKS 117, 133, AND 147.
					MANDATORY	PHOTOS: O.L.: * FILM: FILTER:	PHOTOS: O.L.: * FILM: FILTER:	--	*	*	--	APR - JUN JUL - SEP OCT - DEC	1 1 1	>30°	<30%	
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
191312 (418-3)	A/C	BLACK HILLS SOUTH DAKOTA	43°35'- 44°35'N, 103°00'-104°10'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: EK3443 FILTER: W-12	70 SEC. 44°16'N 103°08'W 191365	13 SEC.	--	--	** JUL - SEP	1	>30°	0%	SEE PRIORITY AND WEIGHTING FACTORS COMMENT UNDER 161512 ABOVE. * DESIRE MAXIMUM ALLOWABLE TRACKING TIME TO SAMPLE WIDEST AZIMUTH ANGLES POSSIBLE. ** MID AUGUST OPTIMUM AND SL-3 IS MANDATORY. SNOW COVER 0% DESIRED; <40% MANDATORY. TASK 161 ASSOCIATED WITH TASKS 177 AND 191.
					MANDATORY	PHOTOS: 1 O.L.: - FILM: STD FILTER: STD	--	--	--	--	--	** JUL - SEP	1	>20°	<50%	
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

200 Series

GEOLOGY

Geomorphology, soil erosion, volcanic activity, resources and environment, geothermal anomalies, lithology, surface water loss, fault tectonics, earthquake hazards, geologic mapping, mineral exploration, highway engineering.

Purposes

Task

201 Analyze S190A, S190B, and S192 imagery using stereoscopic viewers and color additive viewers for a first-look evaluation of the data. Utilize information derived from field studies prior to and during the Skylab flight in conjunction with detailed studies of selected frames of imagery to accomplish each investigative task. Illustrate positive and negative results of the analyses with appropriate annotations, overlays, and reports.

202 Evaluate the potential of EREP data for geological mapping in Spain. Carry out visual interpretation of processed images on a special multi-image viewer for geological mapping. Compare results of EREP data analysis with geologic maps.

203 Interpret S190A, S190B, and S192 imagery of northeast Wyoming to detect and map: (a) major east-west lineations that may represent rejuvenated crustal fractures; (b) suspected township-sized structural blocks; (c) regional patterns and correlations of glacial land forms and ancient nonglacial surfaces; and (d) major rock types. Compare interpretations of medium and high-altitude aerial photographs of selected areas with the results of field study and the interpretation of ERTS and EREP imagery to evaluate atmospheric effects and to determine the optimum type and scale of imagery desirable for mapping regional structural geology in the northern Rocky Mountains.

204 Evaluate the use of EREP imagery for agricultural, forestry, geologic, hydrologic, and geographical studies in three geographic areas of Australia. Considerable ground truth and aircraft data exists and will be compared with the satellite imagery. Prepare maps showing geology, mineral distribution, land use, and forestry studies.

205 Use photointerpretation of S190A, S190B, and S192 imagery, field checking, and previously existing information to map geological features in the Silverton-Ouray, Salida, and Leadville-Climax areas. Compare EREP data to high-altitude aircraft photos and ERTS imagery to determine the optimum type, scale, and resolution of imagery for detecting and mapping large geologic features. Study EREP S191 data to determine the effects of atmospheric attenuation on rock spectra.

206 Analyze (with multispectral techniques) geological structures, distribution of rock types, marine sediment transport, interaction between industrial and urban pollution and land use, distribution of

glacial sediments and their soils. Investigate the suitability of space imagery for small scale map production. Study automatic image processing for mapping and calibration purposes.

207 Study type, pattern, color, lateral variations, form, spacing, orientation, and the geologic factors which control dune fields in the Namib and Kalahari Deserts of southwest Africa.

208 Use field studies, RB-57 multiband photographs, and EREP S190 photographs to evaluate the utility of multiband photographs for distinguishing between geological units, mapping geological structures, and identification of major drainage basins features in Nevada.

209 Assess aircraft, balloon and EREP imagery at various scales and interpret same to develop a synthesis of the major geologic alignments while at the same time delimiting the mutual influence zones of the tectonic systems in the area between the Eastern Pyrenees to the Southern Alps.

Compare seasonal scale and lighting effects between the EREP data and field geomorphological and geological surveys for improved interpretation.

Prepare geomorphological and geological maps at various scales for better knowledge of the structural relations between Quaternary faulting and volcanism and between the tectonics of the Alps and Pyrenees mountains.

210 Use S190A, S190B, and S192 data for prepration of geologic and geomorphic maps. Visually interpret imagery using color enhancement and compare with field data which have been collected over an 8-year period, the main interest being geomorphology and the factors such as vegetation, hydrology, type of soil, and erosion which affect the landscape. Use the geologic and geomorphic maps for land use planning, location of ground water for irrigation, forestation programs, and protection of wildlife.

211 Interpret enhanced imagery for a photogeology study of the Afar Triangle Area of Ethiopia. Make 1:500,000-scale geological and tectonic maps from the interpretation and compare to existing field geology and geophysical maps, with special interest in mapping the intersection of the Red Sea, Gulf of Aden, and the Ethiopian Rift Valley structures.

221 Interpret S190 and S192 imagery, visually and by means of densitometry and additive color viewing, to identify fracture patterns, offset of formations, rock color differences, and vegetation patterns. Correlate features identified with known mineral deposits. Study other areas that seem to contain features diagnostic of mineral deposits (but which are now known to contain economic deposits) intensively using RB-57 photographs, previous geological and geophysical information, and limited field checking.

222 Evaluate and compare EREP data and its correlation with existing data including Apollo earth-looking photography, ERTS-A imagery, NIMBUS High Resolution Infrared data, geophysical data, X-15 photography, SLAR, and other information to be used in the interpretation of geology and tectonics in eastern California, southern Nevada, northwestern Arizona, and southwestern Utah.

223 Study the various scales of EREP, ERTS and aircraft imagery of the Susquehanna River Basin to characterize and classify gross geologic structure and tectonic features.

Utilize tonal variation and spectral characteristics to detect large structural elements and features that may be discernable due to fracture density, moisture content, soil thickness and vegetation type and quantity. Correlate the observable features to ground truth to develop information and recognition techniques for geologic interpretation.

Identify and correlate known mineral resources to discernable geologic structures. Examine lineaments, fracture patterns and circular structures or fold traces together with vegetation patterns. Evaluate the use of spacecraft remote sensing for geologic interpretations and for predicting favorable locations for mineral exploration.

224 Perform sensor evaluations and inventory agricultural resources in Brazil.

225 Study and develop the uses to which satellite imagery can be used for geological purposes. Interpret satellite imagery for development of methods to map structure by enhancing photo-characteristics of specific features. Prepare structural and lithological maps of a large area of Ethiopa. Study photo-linear features and their relationship to major structures. Compare the results with ERTS data.

226 Obtain data for mapping and developing natural resources in Greece.

227/289 Analyze data by standard photointerpretation techniques with possibly selected portions of imagery subjected to enhancement techniques, and prepare the following overlays:

a) Universal Transverse Mercator grid

b) Water-borne pollution and sediment sources and dispersions

c) Shoreline geometry, surf zone morphology

d) Submarine morphology and anomalous ocean circulation patterns

e) Beach mineral composition

f) Freshwater/saltwater interface adjacent to the Orinoco Delta

g) Regional geologic and tectonic features

h) Seismic related geologic hazards in the Central Area

i) Area of potential economic interest

Compare the results of the various analyses to regional geologic and oceanographic data and to results of analysis of ERTS-1 data.

228 Investigate the use of imagery for regional geologic mapping and exploration for mineral deposits. Interpret enhanced photography and compare with aerial photographs and existing geologic maps. Use mapping of regional faults, fractures, and structures for the location of minerals.

229 Investigate the use of multispectral photography for the exploration of the natural resources of northern Argentina. Interpret the imagery for structure and its relation to mineral deposits and compare to interpretations from aerial photography.

230 Determine the usefulness of Skylab data for metals exploration and mining activities in Mexico.

241 Compare the content of geological information in S190A, S190B, S192, and S193 imagery of the Anadarko Basin, Oklahoma and Texas, with that of ERTS-A and aircraft imagery. Use visual interpretation, optical enhancement, and electronic enhancement to evaluate the imagery with geological and geophysical information obtained previously, to evaluate the usefulness of EREP imagery for the location of potential accumulations of hydrocarbons.

242 Investigate the use of imagery in the exploration for petroleum. Visually interpret photography to identify and outline structures lithologis and fracture systems which may control the accumulation of petroleum. Compare the photogeologic interpretation to existing aerial photographs, geological and geophysical maps.

243 Determine the application of space remote sensing data to hydrocarbon exploration.

256 Determine whether or not EREP data can be used to differentiate silicate rock types and produce recognition maps of ferric and ferrous compounds in exposed rocks and soils.

Analyze S191 data from two lava flows at Pisgah Crater, California, to determine the utility of the 6.2 to 15.5 micron channels in distinguishing silicate rock types and the 0.7 to 2.4 micron channels in distinguishing ferrous and ferric compounds. Use channels 6 through 12 of the S192 data to prepare recognition maps of iron-bearing rocks using ratio comparisons of several channels by analogue computer analysis and a limited amount of digital analysis. Compare the results of this mapping to maps resulting from analysis of S190 data and to maps previously prepared from aerial photographs and field work.

257 Discriminate rock and soil units and zones of mineralization; determine their physical characteristics and develop criteria for remote identification of these units in two sites that offer excellent exposures of materials having a broad range of composition and surface states.

Use photo interpretation of S190 photos and field checking to select specific small areas for detailed analysis of S192 data. Use field checking and correlation with existing information to confirm associations of iron-rich rocks with certain types of mineralization in southern California.

Study daytime and nighttime S192 thermal imagery and analyze digital data to distinguish between various rock types in southern California. Correlate thermal properties with field and laboratory-derived engineering properties (density, particle size, mineralology) to determine the feasibility of automatically mapping large bodies of different rock types and construction materials.

258 Calibrate S190A, S190B, S192 imagery and S191 data radiometrically with spectral data from an aircraft underflight simultaneous with the EREP pass and ground-based spectral data to solve problems in (1) the mapping of individual geologic units based on spectral reflectivity, (2) defining structures such as fault and joint patterns, and (3) discovery and mapping of subtle geomorphic features such as ancient abandoned drainage systems.

Compare EREP imagery with ERTS and high-altitude aerial imagery to determine the usefulness of the various types and scales of imagery for geological mapping.

259 Test the feasibility of determining the composition of geological targets when seen through a long atmospheric column (S191), which will lend to the development of design criteria for a satellite system for determining the surface composition of geologic units in large, vegetation-free areas of the earth's surface.

Use the S191 Spectrometer to determine the effects of the total atmosphere on signals received from a lake and one or two selected geologic features near the lake.

271 Evaluate the utility of EREP data for geologic mapping by correlation to existing ground control, geological maps, aerial photos, and IR imaging.

Compare interpretation of the spacecraft imagery to the actual situation in the field to enable control of the extension of volcanic and related phenomena, tectonic characteristics and environmental quality.

Prepare a series of thematic maps showing evaluation of the primary volcanic activity and related phenomena, together with maps showing correlation of the investigation analysis with volcanic activity, and comparison between tectonic characteristics as seen from EREP versus airborne and ground surveys.

272 Interpret nighttime S192 thermal infrared imagery of Central America to identify hot water, lava, and steam associated with volcanos. Interpret the regional infrared pattern to determine the

relationship between volcanos, active faults, and hydrothermal features. Study repeated nighttime imagery to detect changes that may occur during the mission. Visually interpret daytime S190 photographs to obtain a better understanding of the relationships of volcanos and geothermal features to regional geologic structure.

273 Investigate the use of EREP data for the geologic, hydrological and oceanographic interpretation of the Tuscan Appenine Region of Italy. Investigate the possibilities of automatic terrain mapping in connection with rock and soil identification. Evaluate the color and density enhanced imagery, multispectral imagery, automatic produced maps, and thematic maps.

274 Identify the different lithological and structural units of the Tibesti Mountains of Chad, and determine if the mountains are located at the junction of two major fracture systems. Perform differentiation of basaltic material and desert varnish covered rocks. Verify the analysis by existing aerial photo and ground maps.

275 Investigate the feasibility of predicting volcano eruptions using thermal infrared data obtained by remote sensors.

276 Study volcanic activity and thermal patterns in Mexico.

286 Detect and map previously unrecognized faults in southern California and develop criteria for the detection of active versus inactive fault zones.

Visually interpret S190A photographs and S192 imagery to (1) compare the appearance of the continually moving San Jacinto Fault and the presently inactive Elsinore Fault; (2) map lineations that may represent previously unknown faults; and (3) look for tonal and color clues that may indicate the presence and amount of lateral displacement along fault zones. Prepare maps and overlays to illustrate fracture systems, active versus inactive faults, and zones of relatively high earthquake hazards.

287 Determine the utility of Skylab S190 photographs for the detection of fault and tectonic line intersections, and analyze the resulting observations in terms of their bearing on theories of crustal structure, the distribution of mineral deposits, and the location of active fault zones. Compare the color, CIR, and black-and-white photographs with ERTS imagery, Gemini and Apollo photographs, preflight aircraft photographs, and postflight field checking.

288 Visually analyze S190A, S190B, and S192 imagery, by additive color techniques and by density coding techniques, to detect geologically significant structural lineaments. Compare existing aerial photographs, U-2 and C-130 photographs, and ERTS-1 imagery to determine the optimum type, scale, and resolution of imagery for the purpose. Compile information on mine safety, roof and wall collapses, known underground fractures, and basic geology of the test site. Determine the relationship of fracture patterns, size, and density to areas of known mining hazards.

Table B3-1. Geology (200 Series)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
201296 (434)		WYOMING	41°00'- 45°00'N, 104°00'-111°00'W		DESIRED	PHOTOS: 10 O.L.: 60% FILM: * FILTER: *	PHOTOS: 12 O.L.: 60% FILM: **EK3443 FILTER: W-3	17 SEC.*** 42°23'N, 107°50'W 201285	64 SEC.	--	--	MAY AUG SEP	2 2 2	>30°	0%	SNOW COVER - DESIRED <25%, MANDATORY <60%. *DESIRED COLOR FILM/FILTER CONFIGURATION: S0356/✱, S0127/W15. DESIRED B&W FILM/FILTER CONFIGURATION: S0022/NN, S0022/OO, EK2424/PP, EK2424/QQ, AA, BB, CC, DD FILTERS ARE ACCEPTABLE. **S190B - DESIRED FILM MAY BE S0242 WITH MINUS-BLUE FILTER. ***S191 - VIEW AT MAXIMUM MAGNIFICATION WHILE TAKING DATA.
					MANDATORY	PHOTOS: 6 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<60%	
202821 (9639)		SPAIN	40°00'-41°05'N, 00°10'-02°00'E		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 7 O.L.: 60% FILM: S0242 FILTER: --	--	34 SEC.	34 SEC. ALT MODE 1	--	JUN - OCT	2	>30°	0%	SNOW COVER - DESIRED 0%, MANDATORY <50%. OBLIQUE EREP AND HANDHELD PHOTOGRAPHS ARE USEFUL.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<50%	
203393 (393)	A/C	BIG HORN MTS. REGION, WYOMING/MONTANA	43°00'- 45°00'N, 103°00'-110°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 9 O.L.: 60% FILM: S0242 FILTER: --	--	50 SEC.	--	--	LATE MAY AUG - SEP NOV - DEC	1 1 1	>20°	0	SNOW COVER - DESIRED 0%, MANDATORY <30%. HANDHELD PHOTOGRAPHS OF THE TEST SITE ANYTIME DURING THE MISSION ARE HIGHLY DESIRABLE.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<30%	
204952 (557)		AUSTRALIA - ALICE SPRINGS	23°00'- 23°45'S, 133°30'-135°00'E		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 10 O.L.: 60% FILM: S0242 FILTER: --	--	--	--	--	APR - JUN JUL - SEP OCT - DEC JAN - MAR	1 1 1 1	>30°	0	SNOW COVER - DESIRED 0%.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<30%	
204953 (557)		AUSTRALIA - KALGOORLIE	30°00'- 33°00'S, 121°00'-122°30'E		DESIRED	PHOTOS: 7 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 11 O.L.: 60% FILM: S0242 FILTER: --	--	--	--	--	APR - JUN JUL - SEP OCT - DEC JAN - MAR	1 1 1 1	>30°	0%	SNOW COVER - DESIRED 0%.
					MANDATORY	PHOTOS: 4 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<30%	
204954 (557)		AUSTRALIA - CANBERRA	35°00'- 36°00'S, 148°30'-150°00'E		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 10 O.L.: 60% FILM: S0242 FILTER: --	--	--	--	--	APR - JUN JUL - SEP OCT - DEC JAN - MAR	1 1 1 1	>30°	0%	SNOW COVER - DESIRED 0%.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<30%	
204959 (557)		NORTH EAST AUSTRALIA	20°00'- 21°30'S, 139°00'-140°15'E		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 10 O.L.: 60% FILM: S0242 FILTER: --	--	--	--	--	APR - JUN JUL - SEP OCT - DEC JAN - MAR	1 1 1 1	>30°	0%	SNOW COVER - DESIRED 0%.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<30%	
205392 (380)	A/C	COLORADO	37°00'- 40°15'N, 102°00'-109°00'W		DESIRED	PHOTOS: 9 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 14 O.L.: 60% FILM: S0242 FILTER: --	17 SEC. 37°47'N, 105°33'W 205335	--	--	--	MAY - SEP	5*	>30°	0%	SNOW COVER - WITH OR WITHOUT SNOW COVER. *DESIRE 2 ASCENDING PASSES AND 3 DESCENDING PASSES THROUGH WESTERN COLORADO.
					MANDATORY	PHOTOS: 5 O.L.: 10% FILM: ANY FILTER: ANY	PHOTOS: 8 O.L.: 10% FILM: S0242 FILTER: --	--	--	--	--	ANY	1	>20°	<30%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B3-1. Geology (200 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
206808 (328-1)		GERMANY	46°00'-50°00'N, 05°45'-14°00'E		DESIRED	PHOTOS: 21 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 34 O.L.: 60% FILM: S0242 FILTER: —	--	25 SEC.	--	--	ANY	2	>30°	<30%	SNOW COVER - DESIRED <30%, MANDATORY ANY HANDHELD PHOTOGRAPHY OF TEST SITE ANY TIME DURING THE MISSION IS HIGHLY DESIRABLE.
					MANDATORY	PHOTOS: 11 O.L.: 15% FILM: ANY FILTER: ANY	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	ANY	1	>20°	<60%	
207876 (9606)		SOUTHWEST AFRICA	22°35'-28°45'S, 14°00'-21°00'E		DESIRED	PHOTOS: 12 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 19 O.L.: 60% FILM: * S0242 FILTER: —	--	--	--	--	ANY	3 **	20-40°	<10%	HANDHELD OR OBLIQUE EREP PHOTOGRAPHS WILL BE ACCEPTABLE. * S190B - EK3443 IS AN ACCEPTABLE SUBSTITUTE FOR S0242 FILM. **3 DIFFERENT GROUND TRACKS DESIRED.
					MANDATORY	PHOTOS: 8 O.L.: 10% FILM: ANY FILTER: ANY	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	ANY	1	20-60°	<40%	
208101 (357)	A/C	GREAT BASIN, NEVADA	37°48'- 39°41'N, 114°50'-118°10'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 9 O.L.: 60% FILM: S0242 FILTER: —	--	50 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	20-30°	<20%	SNOW COVER - DESIRED 0%, MANDATORY <10%.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: ANY FILTER: ANY	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	ANY	1	20-60°	<20%	
209806 (009-3)		SOUTHERN FRANCE	41°00'-45°30'N, 00°10'-10°25'E		DESIRED	PHOTOS: 29 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 45 O.L.: 60% FILM: S0242 FILTER: —	--	50 SEC.	--	--	APR - JUN	2*	>30°	<10%	SNOW COVER - DESIRED <40%, MANDATORY <40%. * PRIME PASS DESIRED, TRACK 41 TO COVER THE PYRENEES AND ALPS. 43°30'N, 02°30'E to 44°30'N, 07°00'E *1 ASCENDING (TRACK 41 PREFERRED) AND 1 DESCENDING PASS DESIRED.
					MANDATORY	PHOTOS: 15 O.L.: 10% FILM: ANY FILTER: ANY	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	ANY	ANY	>25°	<50%	
210853 (350)		TUNISIA	30°00'-37°30'N, 07°30'-11°30'E		DESIRED	PHOTOS: 9 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 15 O.L.: 60% FILM: S0242 FILTER: —	--	25 SEC.	--	--	SL-2 SL-3	1 1	>30°	0%	SNOW COVER - DESIRED 0%, LIGHT COVER ACCEPTABLE. ONE ASCENDING AND ONE DESCENDING PASS ARE DESIRED.
					MANDATORY	PHOTOS: 4 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<30%	
211862 (351)		ETHIOPIA - AFAR TRIANGLE	08°00'-16°00'N, 39°00'-44°00'E		DESIRED	PHOTOS: 26 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 42 O.L.: 60% FILM: S0242 FILTER: —	--	25 SEC.	--	--	OCT - JAN	2 *	>30°	<15%	*ONE ASCENDING PASS AND ONE DESCENDING PASS ARE DESIRED. TASK 211862 AND 225862 ARE IDENTICAL, SATISFYING THE REQUIREMENTS OF EITHER TASK SATISFIES BOTH.
					MANDATORY	PHOTOS: 14 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<30%	
212818 (9610)		GREECE	37°20'-41°40'N, 20°15'-25°15'E		DESIRED	PHOTOS: 15 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 23 O.L.: 60% FILM: S0242 FILTER: —	--	25 SEC.	--	--	ANY	2	>30°	0%	SNOW COVER - DESIRED 0%, MANDATORY 30%.
					MANDATORY	PHOTOS: 8 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<30%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B3-1. Geology (200 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	SENSOR REQUIREMENTS S191	SENSOR REQUIREMENTS S192	SENSOR REQUIREMENTS S193	SENSOR REQUIREMENTS S194	TEST CONDITIONS SEASONAL REQUIREMENTS	TEST CONDITIONS NUMBER PASSES	TEST CONDITIONS SUN ANGLE	TEST CONDITIONS CLOUD COVER	UNIQUE TEST CONDITIONS
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
221196 (442M)	A/C	NEVADA - UTAH	37°00'- 42°00'N, 109°00'-118°00'W		DESIRED	PHOTOS: 11 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 17 O.L.: 60% FILM: SO242 FILTER: —	--	90 SEC.	--	--	ANY MISSION	2*	>30°	0%	SNOW COVER - DESIRED 0%, MANDATORY <30%. *ONE ASCENDING AND ONE DESCENDING PASS DESIRED.
					MANDATORY	PHOTOS: 6 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<30%	
222198 (541)		ARIZONA - NEVADA CALIFORNIA - UTAH	35°00'- 38°00'N, 113°00'-119°00'W		DESIRED	PHOTOS: 12 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 24 O.L.: 60% FILM: SO242 FILTER: —	17 SEC 6 SITES	129 SEC.	129 SEC. RAD/SCAT CTC 2*POLARIZATIONS	129 SEC	ANY	ALL AVAIL.	>30°	<10%	SNOW COVER - NO LIMITS. OBLIQUE EREP AND HANDHELD PHOTOGRAPHS ARE USEFUL. *ANY TWO POLARIZATIONS ON DIFFERENT PASSES. SENSOR PRIORITY (IN DESCENDING ORDER) - S190A; S190B; S192; S193; S194; S191. MANDATORY REQUIREMENT IS ANY ONE OF S190A, S190B, or S192. 222175 35°19'N, 115°45'W 222190 35°17'N, 114°39'W 222180 35°40'N, 115°00'W 222193 36°22'N, 114°14'W 222185 35°33'N, 114°54'W 222195 36°12'N, 114°11'W
					MANDATORY	PHOTOS: 7 O.L.: 0% FILM: ANY FILTER: ANY	OR PHOTOS: 13 O.L.: 0% FILM: ANY FILTER: —	-- OR	5 SEC.	--	--	ANY	1	>20°	<50%	
223662 (475-8)	A/C	PENNSYLVANIA	42°35'N, 75°05'W 42°35'N, 80°30'W 39°20'N, 80°30'W 39°20'N, 77°00'W 40°30'N, 75°05'W		DESIRED	PHOTOS: 11 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 17 O.L.: 60% FILM: EK3443 FILTER: W-12	--	--	--	--	SL-2 SL-3 SL-4	2* 2* 2*	>30°	<10%	SNOW COVER - DESIRED 0%, LIGHT COVER IS ACCEPTABLE. *ONE ASCENDING AND ONE DESCENDING PASS DESIRED.
					MANDATORY	PHOTOS: 6 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<30%	
224743 (9636-2)		BRAZIL	17°00'-20°00'S, 45°00'-48°00'W		DESIRED	PHOTOS: 8 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 11 O.L.: 60% FILM: EK3414 FILTER: W-12	--	64 SEC.	64 SEC. RAD/SCAT CTC H-H	64 SEC.	AUG - SEP NOV - DEC	1 1	>30°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 4 O.L.: 15% FILM: ANY FILTER: ANY	PHOTOS: 6 O.L.: 15% FILM: SO242 FILTER: —	--	30 SEC.	--	--	AUG - OCT	1	>20°	<30%	
224744 (9636-2)		BRAZIL	19°00'-21°00'S, 42°30'-45°00'W		DESIRED	PHOTOS: 11 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 16 O.L.: 60% FILM: EK3414 FILTER: W-12	--	98 SEC.	98 SEC. RAD/SCAT CTC H-H	98 SEC.	AUG - SEP NOV - DEC	1 1	>30°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 6 O.L.: 15% FILM: ANY FILTER: ANY	PHOTOS: 8 O.L.: 15% FILM: SO242 FILTER: —	--	45 SEC.	--	--	AUG - OCT	1	>20°	<30%	
224748 (9636-2)		BRAZIL	30°00'-32°00'S, 51°00'-54°00'W		DESIRED	PHOTOS: 8 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 11 O.L.: 60% FILM: EK3414 FILTER: W-12	--	64 SEC.	64 SEC. RAD/SCAT CTC H-H	64 SEC.	AUG - SEP NOV - DEC	1 1	>30°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 4 O.L.: 15% FILM: ANY FILTER: ANY	PHOTOS: 6 O.L.: 15% FILM: SO242 FILTER: —	--	30 SEC.	--	--	AUG - OCT	1	>20°	<30%	
224753 (9636-2)		BRAZIL	14°00'-16°00'S, 48°00'-50°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: EK3414 FILTER: W-12	--	43 SEC.	43 SEC. RAD/SCAT CTC H-H	43 SEC.	AUG NOV - DEC	1 1	>30°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	PHOTOS: 4 O.L.: 15% FILM: SO242 FILTER: —	--	20 SEC.	--	--	AUG - OCT	1	>20°	<30%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B3-1. Geology (200 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
224757 (9636-2)		BRAZIL	12°00'-14°00'S, 42°00'-44°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: EK3414 FILTER: W-12	--	43 SEC.	43 SEC. RAD/SCAT CTC H-H	43 SEC.	AUG NOV - DEC	1 1	>30°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	PHOTOS: 4 O.L.: 15% FILM: S0242 FILTER: —	--	20 SEC.	--	--	AUG - OCT	1	>20°	<30%	
224759 (9636-2)		BRAZIL	09°00'-11°00'S, 62°00'-64°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: EK3414 FILTER: W-12	--	43 SEC.	43 SEC. RAD/SCAT CTC H-H	43 SEC.	AUG NOV - DEC	1 1	>30°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	PHOTOS: 4 O.L.: 15% FILM: S0242 FILTER: —	--	20 SEC.	--	--	AUG - OCT	1	>20°	<30%	
224762 (9636-2)		BRAZIL	04°00'-07°00'S, 49°00'-52°00'W		DESIRED	PHOTOS: 8 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 11 O.L.: 60% FILM: EK3414 FILTER: W-12	--	64 SEC.	64 SEC. RAD/SCAT CTC H-H	64 SEC.	AUG - SEP NOV - DEC	1 1	>30°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 4 O.L.: 15% FILM: ANY FILTER: ANY	PHOTOS: 6 O.L.: 15% FILM: S0242 FILTER: —	--	30 SEC.	--	--	AUG - OCT	1	>20°	<30%	
225862 (361)		ETHIOPIA AFAR TRIANGLE	08°00'-16°00'N, 39°00'-44°00'E		DESIRED	PHOTOS: 26 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 42 O.L.: 60% FILM: S0242 FILTER: —	--	25 SEC.	--	--	OCT - JAN	2*	>30°	<15%	SNOW COVER - DESIRED 0%, MANDATORY <30%. *ONE ASCENDING PASS AND ONE DESCENDING PASS ARE DESIRED. TASK 211862 AND 225862 ARE IDENTICAL, SATISFYING THE REQUIREMENTS OF EITHER TASK SATISFIES BOTH.
					MANDATORY	PHOTOS: 14 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<30%	
227768 (9657-1)		VENEZUELA	12°45'-13°30'N, 71°10'-73°25'W		DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 15 O.L.: 60% FILM: S0242 FILTER: —	--	12 SEC.	--	--	JAN - EARLY APR OR SEP - NOV	1	>30°	<20%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 6 O.L.: 10% FILM: ANY FILTER: ANY	PHOTOS: O.L.: FILM: FILTER: --	--	--	--	--	ANY	1	>20°	<30%	
227769 (9657-1)		VENEZUELA	09°30'-13°30'N, 66°00'-71°10'W		DESIRED	PHOTOS: 12 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 18 O.L.: 60% FILM: S0242 FILTER: —	--	12 SEC.	--	--	JAN - EARLY APR OR SEP - NOV	1	>30°	<20%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 6 O.L.: 10% FILM: ANY FILTER: ANY	PHOTOS: O.L.: FILM: FILTER: --	--	--	--	--	ANY	1	>20°	<30%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B3-1. Geology (200 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS: S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS: SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
227771 (9657-1)		VENEZUELA	07°25'-12°00'N, 59°40'-64°55'W		DESIRED	PHOTOS: 12 O.L.: 60% FILM: STD FILTER: ANY	PHOTOS: 20 O.L.: 60% FILM: SO242 FILTER: —	--	--	--	--	JAN - EARLY APR OR SEP - NOV	1	>30°	<20%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 6 O.L.: 10% FILM: ANY FILTER: ANY	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	ANY	1	>20°	<30%	
228731 (531)		ARGENTINA	25°30'-29°45'S, 64°20'-68°40'W		DESIRED	PHOTOS: 30 O.L.: 60% FILM: ANY FILTER: ANY	PHOTOS: 47 O.L.: 60% FILM: SO242 FILTER: —	--	--	--	--	SEP - APR	2	>30°	0%	SNOW COVER - DESIRED 0%, MANDATORY "LIGHT COVER".
					MANDATORY	PHOTOS: 13 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<50%	
228734 (531)		ARGENTINA	40°00'-49°30'S, 64°30'-72°00'W		DESIRED	PHOTOS: 17 O.L.: 60% FILM: ANY FILTER: ANY	PHOTOS: 28 O.L.: 60% FILM: SO242 FILTER: —	--	--	--	--	SEP - APR	2	>30°	0%	SNOW COVER - DESIRED 0%, MANDATORY "LIGHT COVER".
					MANDATORY	PHOTOS: 7 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<50%	
229723 (527)		ARGENTINA	23°20'-31°00'S, 61°30'-68°40'W		DESIRED	PHOTOS: 30 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 47 O.L.: 60% FILM: SO242 FILTER: —	--	--	--	--	SEP - APR	2	>30°	0%	SNOW COVER - DESIRED 0%, MANDATORY <10%.
					MANDATORY	PHOTOS: 16 O.L.: 10% FILM: ANY FILTER: ANY	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	ANY	1	>20°	<30%	
230343 (9698)		MEXICO (DURANGO).	20°00'- 22°00'N, 103°00'-107°10'W		DESIRED	PHOTOS: 12 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 20 O.L.: 60% FILM: SO242 FILTER: —	--	50 SEC.	--	--	ANY	2	>30°	<10%	SNOW COVER - DESIRED <10%, MANDATORY <30%. HANDHELD PHOTOGRAPHS OF THE TEST SITE ARE DESIRABLE.
					MANDATORY	PHOTOS: 6 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<30%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
241328 (495)	A/C	ANADARKO BASIN, OKLAHOMA	34°45'- 37°00'N, 97°35'-101°35'W		DESIRED	PHOTOS: 7 O.L.: 60% FILM: STD FILTER: ANY	PHOTOS: 11 O.L.: 60% FILM: SO242 FILTER: —	--	70 SEC.	60 SEC. *RAD/SCAT CTC 15.6° PITCH	--	SL-2 SL-3	2 1	20- 60°	0%	*DESIRE S193 DAY PASS AND 1 NIGHT PASS ON EITHER MISSION, ALSO WITH S192 DATA TAKE ON NIGHT PASS. PRE-DAWN AT TEST SITE DESIRE TRACK 48 ON SL-2 (DAY AND NIGHT) AND TRACK 48 OR TRACK 1 SL-3 (DAYTIME PASS).
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	20°	<30%	
242728 (530)		ARGENTINA	43°25'-47°00'S, 65°30'-72°00'W		DESIRED	PHOTOS: 17 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 28 O.L.: 60% FILM: SO242 FILTER: —	--	--	--	--	SEP - APR	2	>30°	<10%	SNOW COVER - DESIRED 0%, MANDATORY "LIGHT COVER".
					MANDATORY	PHOTOS: 7 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<50%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B3-1. Geology (200 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
242729 (530)		ARGENTINA	32°00'-35°00'S, 66°45'-70°05'W		DESIRED	PHOTOS: 11 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 19 O.L.: 60% FILM: S0242 FILTER: —	—	—	—	—	SEP - APR	2	>30°	<10%	SNOW COVER - DESIRED 0%, MANDATORY "LIGHT COVER".
					MANDATORY	PHOTOS: 5 O.L.: 10% FILM: ANY FILTER: ANY	—	—	—	—	—	ANY	1	>20°	<50%	
243278 (9699)		MEXICO (CHIHUAHUA)	31°47'N, 108°12'W 31°33'N, 106°17'W 30°08'N, 106°17'W 30°08'N, 108°12'W		DESIRED	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 7 O.L.: 60% FILM: S0242 FILTER: —	—	37 SEC.	—	—	ANY	2	>30°	<10%	SNOW COVER - DESIRED <10%, MANDATORY <30%. HANDHELD PHOTOGRAPHS OF THE TEST SITE ARE DESIRABLE.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: ANY FILTER: ANY	—	—	—	—	—	ANY	1	>20°	<30%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
256112 (444M)	A/C	PISGAH CRATER, CALIFORNIA	34°23'- 35°33'N, 115°45'-117°27'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: EK3443 FILTER: W-12	15 SEC. 34°39'N, 116°22'W 256160 34°39'N, 116°25'W 256155	25 SEC.	—	—	MAY - SEP	1	>45°	<10%	NONE SPECIFIED.
					MANDATORY	—	—	10 SEC. 34°39'N, 116°22'W 256160 34°39'N, 116°25'W 256155	25 SEC.	—	—	MAY - SEP	1	>30°	<30%	
257112 (487)	A/C	PISGAH CRATER, CALIFORNIA	34°23'- 35°33'N, 115°45'-117°27'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	—	50 SEC.	100 SEC. RAD/SCAT CTC	100 SEC.	JAN - MAR	2*	>30°	<10%	SNOW COVER - DESIRED 0%, MANDATORY 0%. * ONE PASS 1200 - 1400 HOURS, ONE PASS 2400 - 0500 HOURS. ** ONE PASS 0900 - 1500 HOURS. *** S190A OR S190B MANDATORY. **** S190B - FILM MAY BE S0242 OR EK3443 † IR B&W (.8 - .9), IR COLOR, & HI-RES COLOR
	A/C				MANDATORY	PHOTOS: *** 3 O.L.: 10% FILM: † FILTER: † OR PHOTOS: *** 4 O.L.: 10% FILM: **** FILTER: STD		—	25 SEC.	—	—	ANY	1**	>20°	<30%	
258294 (423/504)	A/C	NORTHWEST ARIZONA	34°00'- 37°00'N, 111°20'-114°30'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 10 O.L.: 60% FILM: S0242 FILTER: —	17 SEC. SITE 35°40'N, 114°04'W 258197	50 SEC.	—	—	MAY - OCT	2	>30°	<30%	SNOW COVER - DESIRED 0%, MANDATORY <30%.
					MANDATORY	PHOTOS: 4 O.L.: 10% FILM: ANY FILTER: ANY	—	—	—	—	—	ANY	1	>20°	<30%	
259140 (9641)	A/C	MONO LAKE	38°00'N, 119°02'W (1 NM RAD)		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	—	40 SEC.	—	—	—	SEP OR MAY (PREFER SEP)	1	>50°	<10%	NONE SPECIFIED.
					MANDATORY	—	—	15 SEC.	—	—	—	ANY	1	>20°	<10%	
259145 (9641)	A/C	WALKER LAKE	38°41'N, 118°43'W (1 NM RAD)		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	—	40 SEC.	—	—	—	SEP OR MAY (PREFER SEP)	1	>50°	<10%	NONE SPECIFIED.
					MANDATORY	—	—	15 SEC.	—	—	—	ANY	1	>20°	<10%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B3-1. Geology (200 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
271822 (9659)		ITALY	41°20'-47°00'N, 06°00'-17°00'E		DESIRED	PHOTOS: 9 O.L.: 30% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 30% FILM: S0242 FILTER: —	—	15 SEC.	—	—	MAY - SEP	3	>30°	<30%	SNOW COVER, MOUNTAINS - ANY SNOW COVER, PLAINS - DESIRED <20%, MANDATORY <30%. SNOW COVER, ADRIATIC SEA - NOT APPLICABLE.
					MANDATORY	PHOTOS: 4 O.L.: 20% FILM: ANY FILTER: ANY	—	—	—	—	—	ANY	2	>30°	<30%	
271823 (9659)		ITALY	37°00'-39°20'N, 13°30'-17°00'E		DESIRED	PHOTOS: 9 O.L.: 30% FILM: STD FILTER: STD	PHOTOS: 14 O.L.: 30% FILM: S0242 FILTER: —	—	25 SEC.	—	—	AUG - OCT	1	>30°	<30%	SNOW COVER - DESIRED <20%, MANDATORY <30%.
					MANDATORY	PHOTOS: 8 O.L.: 20% FILM: ANY FILTER: ANY	—	—	—	—	—	ANY	1	>20°	<30%	
271824 (9659)		ITALY	40°00'-41°40'N, 13°00'-15°30'E		DESIRED	PHOTOS: 9 O.L.: 30% FILM: STD FILTER: STD	PHOTOS: 14 O.L.: 30% FILM: S0242 FILTER: —	—	25 SEC.	—	—	AUG - OCT	1	>30°	<30%	SNOW COVER - DESIRED <20%, MANDATORY <30%.
					MANDATORY	PHOTOS: 8 O.L.: 20% FILM: ANY FILTER: ANY	—	—	—	—	—	ANY	1	>20°	<30%	
272596 (596)		CENTRAL AMERICA	16°00'N, 89°00'W 12°00'N, 85°00'W 14°30'N, 89°00'W 10°30'N, 85°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 9 O.L.: 60% FILM: EK3443 FILTER: W-12	*	45 SEC.**	—	—	JUL - DEC	3**	>30°	<10%	SNOW COVER - DESIRED <20%, MANDATORY <30%. HANDHELD PHOTOGRAPHS OF TEST SITE ANYTIME ARE HIGHLY DESIRABLE. *THE FOLLOWING ARE S191 SITES WITHIN THE MAJOR CENTRAL AMERICA TEST SITE, AND ARE FOR THE SUPPORT OF TASK/SITE 275596 WHICH WILL ALSO RECEIVE PORTIONS OF ALL OTHER DATA COLLECTED UNDER THIS TASK: 272564, CONCEPCION, NICARAGUA (11°32'N, 86°37'W) 272565, MASAYA, NICARAGUA (11°57'N, 86°09'W) 272566, CERRO NEGRO, NICARAGUA (12°30'N, 86°40'W) 272567, TELICA, NICARAGUA (12°37'N, 86°50'W) **TWO NIGHTTIME PASSES DESIRED AND 1 NIGHTTIME PASS MANDATORY. REQUIRES ONLY S192 DATA FOR NIGHTTIME PASSES. NO S192 DATA REQUIRED FOR DAYTIME PASSES.
					MANDATORY	PHOTOS: 4 O.L.: 10% FILM: ANY FILTER: ANY	—	*	45 SEC.**	—	—	ANY	2**	>20°	<30%	
273811 (332)		ITALY	43°30'N, 10°00'E 43°30'N, 12°00'E 40°24'N, 14°00'E 40°30'N, 15°30'E		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 10 O.L.: 60% FILM: S0242 FILTER: —	—	50 SEC.	—	50 SEC.	APR - JUN JUL - SEP JAN - MAR	1 1 1	>30°	<20%	SNOW COVER - DESIRED <20%, MANDATORY <30%. HANDHELD PHOTOGRAPHS OF TEST SITE ANYTIME HIGHLY DESIRABLE.
					MANDATORY	PHOTOS: 2 O.L.: — FILM: ANY FILTER: ANY	—	—	—	—	—	ANY	1	>20°	<30%	
273812 (332)		ITALY	39°00'N, 14°30'E 39°00'N, 15°30'E 37°30'N, 15°30'E 37°30'N, 14°30'E		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	—	25 SEC.	—	25 SEC.	APR - JUN JUL - SEP JAN - MAR	1 1 1	>30°	<20%	SNOW COVER - DESIRED <20%, MANDATORY <30%.
					MANDATORY	PHOTOS: 2 O.L.: 0% FILM: ANY FILTER: ANY	PHOTOS: — O.L.: FILM: FILTER:	—	—	—	—	ANY	1	>20°	<30%	
274852 (349)		TIBESTI MTS. CENTRAL AFRICA	19°30'-22°10'N, 16°00'-19°00'E		DESIRED	PHOTOS: 8 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 11 O.L.: 60% FILM: S0242 FILTER: —	—	—	—	—	ANY	2*	>30°	0%	*COVERAGE DESIRED ON TWO OF THREE MISSIONS WITH PREFERENCE ON SL-2 FOLLOWED BY SL-3. DESIRE TRACK 59.
					MANDATORY	PHOTOS: 4 O.L.: 15% FILM: ANY FILTER: ANY	OR PHOTOS: 6 O.L.: 15% FILM: STD FILTER: STD	—	—	—	—	ANY	1	>20°	<50%	
275596 * (ED12)		CENTRAL AMERICA	16°00'N, 89°00'W 12°00'N, 85°00'W 14°30'N, 89°00'W 10°30'N, 85°00'W		DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									TASK/SITE 275596 REPRESENTS THE STUDENT EXPERIMENT ED12 (REFERENCE MRD SECTION 3.2.5) *THIS TASK WILL ACQUIRE S191 DATA FROM ONE OR MORE OF THE FOLLOWING S191 SITES TO BE DETERMINED IN REAL TIME. OTHER SENSOR DATA WILL BE ACQUIRED AS REQUIRED BY TASK/SITE 272596. 275564, CONCEPCION, NICARAGUA (11°32'N, 86°37'W) 275565, MASAYA, NICARAGUA (11°57'N, 86°09'W) 275566, CERRO NEGRO, NICARAGUA (12°30'N, 86°40'W) 275567, TELICA, NICARAGUA (12°37'N, 86°50'W)
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B3-1. Geology (200 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	SENSOR REQUIREMENTS S191	SENSOR REQUIREMENTS S192	SENSOR REQUIREMENTS S193	SENSOR REQUIREMENTS S194	TEST CONDITIONS SEASONAL REQUIREMENTS	TEST CONDITIONS NUMBER PASSES	TEST CONDITIONS SUN ANGLE	TEST CONDITIONS CLOUD COVER	UNIQUE TEST CONDITIONS
276187 (9693)		NW MEXICO (BAJA CALIF.)	31°30'N, 114°04'W 32°42'N, 114°38'W 32°33'N, 116°40'W 30°54'N, 116°34'W		DESIRED	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 7 O.L.: 60% FILM: SO242 FILTER: —	—	37 SEC.	—	—	ANY	2*	>30°	<10%	SNOW COVER - DESIRED <10%, MANDATORY <30%. *ONE DAY AND ONE NIGHT PASS ARE DESIRED. HANDHELD PHOTOGRAPHS OF THE TEST SITE ANYTIME ARE DESIRABLE.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: ANY FILTER: ANY	—	—	—	—	—	ANY	1	>20°	<30%	
276348 (9693)		NW MEXICO (LAGO DE CHAPALA)	19°25'N, 102°02'W 20°04'N, 102°02'W 20°06'N, 103°54'W 19°26'N, 103°54'W		DESIRED	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 7 O.L.: 60% FILM: SO242 FILTER: —	—	37 SEC.	—	—	ANY	2*	>30°	<10%	SNOW COVER - DESIRED <10%, MANDATORY <30%. * ONE DAY AND ONE NIGHT PASS ARE DESIRED. HANDHELD PHOTOGRAPHS OF THE TEST ANYTIME ARE DESIRABLE.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: ANY FILTER: ANY	—	—	—	—	—	ANY	1	>20°	<30%	
286121 (463)		SOUTHERN CALIFORNIA	33°00'- 36°00'N, 115°00'-119°00'W		DESIRED	PHOTOS: 8 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 15 O.L.: 60% FILM: SO242 FILTER: —	—	54 SEC.	—	—	APR - JUN OCT - DEC JAN - MAR	1 1 1	>30°	0%	SNOW COVER - DESIRED <30%, MANDATORY <30%.
					MANDATORY	PHOTOS: 8 O.L.: 60% FILM: ANY FILTER: ANY	—	—	—	—	—	ANY	1	>30°	0%	
287171 (438)		SOUTHERN CALIFORNIA	31°00'- 35°35'N, 112°00'-120°00'W		DESIRED	PHOTOS: 18 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 28 O.L.: 60% FILM: SO242 FILTER: —	—	—	—	—	SL-3	1	>30°	<10%	SNOW COVER - DESIRED 0%, MANDATORY 0%. HANDHELD PHOTOGRAPHS OF TEST SITE ANYTIME ARE HIGHLY DESIRABLE.
					MANDATORY	PHOTOS: 7 O.L.: 10% FILM: STD FILTER: ANY	—	—	—	—	—	ANY	1	>20°	<30%	
287182 (438)		SOUTHERN NEVADA	35°00'- 36°55'N, 113°00'-118°15'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: ANY	PHOTOS: 9 O.L.: 60% FILM: SO242 FILTER: —	—	—	—	—	SL-3	1	>30°	<10%	SNOW COVER - DESIRED 0%, MANDATORY 0%. HANDHELD PHOTOGRAPHS OF TEST SITE ANYTIME ARE HIGHLY DESIRABLE.
					MANDATORY	PHOTOS: 4 O.L.: 10% FILM: ANY FILTER: ANY	—	—	—	—	—	ANY	1	>20°	<30%	
287398 (438)		NEW MEXICO	29°30'- 33°15'N, 107°15'-112°15'W		DESIRED	PHOTOS: 9 O.L.: 60% FILM: STD FILTER: ANY	PHOTOS: 15 O.L.: 60% FILM: SO242 FILTER: —	—	—	—	—	SL-3	1	>30°	<10%	SNOW COVER - DESIRED 0%, MANDATORY 0%. HANDHELD PHOTOGRAPHS OF TEST SITE ANYTIME ARE HIGHLY DESIRABLE.
					MANDATORY	PHOTOS: 5 O.L.: 10% FILM: ANY FILTER: ANY	—	—	—	—	—	ANY	1	>20°	<30%	
289503 (325)		INDIANA	37°30'-39°15'N, 85°30'-88°30'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: ANY	PHOTOS: 9 O.L.: 60% FILM: SO242 FILTER: —	—	45 SEC.	—	—	MAY SEP	1 1	20°- 60°	<20%	SNOW COVER - DESIRED 0%, LIGHT COVER ACCEPTABLE.
					MANDATORY	PHOTOS: 4 O.L.: 10% FILM: ANY FILTER: ANY	PHOTOS: — O.L.: FILM: FILTER:	—	—	—	—	ANY	1	>20°	<20%	
289768 (9657-2)		REFERENCE TASK 227 SITE 768	REFERENCE 227768		DESIRED*	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									* COMPLETION OF REQUIREMENTS FOR TASK 227 SATISFIES THE REQUIREMENTS FOR TASK 289.
					MANDATORY*	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B3-1. Geology (200 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS						TEST CONDITIONS				UNIQUE TEST CONDITIONS
						S190A	S190B	S191	S192	S193	S194	SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	
289769 (9657-2)		REFERENCE TASK 227 SITE 769	REFERENCE 227769		DESIRED*	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									* COMPLETION OF REQUIREMENTS FOR TASK 227 SATISFIES THE REQUIREMENTS FOR TASK 289.
					MANDATORY*	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
289771 (9657-2)		REFERENCE TASK 227 SITE 771	REFERENCE 227771		DESIRED*	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									* COMPLETION OF REQUIREMENTS FOR TASK 227 SATISFIES THE REQUIREMENTS FOR TASK 289.
					MANDATORY*	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

 FOLDOUT FRAME 2

300 Series

CONTINENTAL WATER RESOURCES

Mapping snow field distribution and water equivalent, investigating soil moisture distribution in plains area, measuring ice parameters, charting and cataloging estuary effluents, measuring changes in migratory bird habitats, delineation of good quality ground water and areas of high saline, and monitoring of flood control.

Purposes

Task

301 Investigate S190 photographs and S192 images of the Great Smoky Mountains National Park to identify lineations, and compare these features with the known faults to determine their geological significance. Correlate regional fracture zones as identified from S190 photographs with the location of abundant ground-water supplies as indicated by flow rates in existing wells, and verify the correlation by drilling test holes in locations geologically favorable for ground water supplies.

302 Search for fresh ground water in the Pampa of Argentina using vegetation as an indicator of fresh or salt water aquifers and saline soils and using imagery from the S190A, S190B, and S192 Skylab instruments.

303 Identify and map:

a) End-moraine systems of the last glaciation

b) End-moraine systems which may be buried by younger glacial drift and loesses

c) Buried river valleys, and four middle and early Pleistocene river terrace sequences along the main rivers.

Use the multispectral and S190B photography from Skylab to extend the knowledge of the above features, verifying the photointerpretive mapping from ground field studies and from surface and subsurface data available in state geological surveys. Produce a series of overlays which will indicate: poor construction sites; potential sanitary land-fill sites; sand and gravel supplies; and ground water aquifers.

317 Determine the areal extent of snow cover in the Alps and Pre-Alps for standard data according to the objectives of the International Hydrological Decade (IHD), develop a model of the relation between snow cover and vegetation growth and between snow cover and surface runoff with regards to differentiation of different types of snow and ice, vegetation types, and application by cloud coverage. Study surface temperatures of lakes, glaciers and snowfields, determine national glacier inventory, and for avalanche prediction.

318 Compare and evaluate the Skylab/EREP spectral regions and operating modes for mapping of snow cover. Assess the extent of snow cover in the United States to aid in predicting runoff and better management of the U.S. water resources. Perform visual interpretation of S190 photographs to map areas that are snow covered. Compare S192 imagery and digital printouts, S193 data, and S194 data to the S190 photographs to determine how much additional information on areal extent of snow can be obtained from various spectral bands, thermal data, and microwave data.

331 Perform a land use and standing-water inventory of portions of the Lake Ontario drainage basin, measure soil moisture content in selected areas of the basin, and map the pattern of surface currents in the western part of the Lake.

Compare and correlate S190 and S192 data with complimentary A/C and ground truth data using standard image interpretations, film densitometry, data calibration with appropriate references, and analog and digital computer processing of S192 data tapes.

Obtain radiance information to extract spectral signatures for features and conditions of hydrological interest, including landforms, soils and sediment trends, aquifers, and land use patterns and their change.

332 Perform a stream network analysis of the Guadalupe River Basin in Central Texas.

333 Classify data to indicate general management zones, vegetation/terrain types, vegetation cover, boundaries of watershed and stream channels, geology/soils, and sequential boundaries of snow-covered areas. Evaluate the degree to which these parameters can be mapped or otherwise extracted from Skylab data, both by means of human interpretations and by automatic feature classification.

334 Obtain data for the mapping and development of water resources in Greece.

335 Identify and map large areas of recent gully erosion in south-central Arizona by means of photo interpretation of S190 photographs, comparison with high-altitude aerial photographs obtained in the Arizona Regional Ecological Test Site, and field checking. Detect and identify areas susceptable to rapid soil erosion and sheetwash, for use in planning urban development, zoning, and in reclamation of watersheds, farmlands, and rangelands.

336 Interpret color enhanced imagery and annotate with results of field studies for mapping of fossil drainage systems in Niger. Map structures, lithology, ground and surface water, and drainage patterns for land use studies.

337 Delineate small vegetational communities and associated plant-water relationships and animal species. Define geometric characteristics of small drainage basins, and subenvironments by mapping vegetation

communities. Measure area, subdivisions, stream length, slope, and stream order numbers to estimate the water available for each significant location within the basin. Field checking, visual observation from light aircraft, oblique aerial photographs, and interpretation of S192 thermal infrared imagery will be used.

338 Correlate the apparent extent of floods as shown on EREP imagery with data from an extensive network of stream and reservoir gauging stations, ERTS, and aircraft data to determine the utility of EREP photography for flood/land use/vegetation in Connecticut and Merrimack River Valleys.

340 Map the extent and cartography of Malaysian drainage basins, water sources, runoff areas, etc., for application to agricultural and population purposes.

346 Develop interpretation techniques for satellite monitoring of lake turbidity and eutrophication. Obtain accurate turbidity measures of recreational fresh-water lakes and study eutrophication processes of three lakes important to New York State water resources (Lake Ontario, Conesus Lake, and Chautauqua Lake) using photometric analyses of S190 imagery and aircraft imagery.

347 Determine the spectral reflectance of several Kansas reservoirs from S190A, S190B, S191, and S192 data, and determine the correlation of water color with water depth, turbidity, and algae content. Establish correlations between EREP imagery and fresh water quality parameters in these reservoirs. Develop a system for the inventory of reservoirs to optimize management for flood control and recreation.

348 Determine the feasibility of using remote sensing from space to detect, locate, and map the areal extent of oil slicks on water resulting from illegal or in-effective shipping practices and from major pollution incidents. Demonstrate the advantages of large area coverage from space and help determine important operational parameters involving resolution and spectral regions. Evaluate remote sensing from space as one part of a complete operational system to accomplish the mission of the U. S. Coast Guard.

349 Evaluate Skylab data for limnological research and water management studies in order to use satellite acquired data to supplement, and in some cases replace, data collected by ship surveys and thereby reduce the frequency of ship surveys, particularly in remote regions.

Construct mosaics and/or maps using the S192 thermal channel to provide a synoptic surface temperature map for the western basin of Lake Ontario, and the S194 data to form a map of brightness temperature.

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Table B4-1. Continental Water Resources (300 Series)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
301531 (455)		SMOKY MOUNTAINS NATIONAL PARK - TENNESSEE	35°30'-35°50'N, 82°52'-84°00'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	--	5 SEC.	--	--	APR - JUN OR JUL - SEP	1	>30°	0%	SNOW COVER - 0% DESIRED, <10% MANDATORY. DATA DESIRED DURING GROWING SEASON.
					MANDATORY	PHOTOS: 1 O.L.: 0% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>30°	<20%	
302701 (330)		ARGENTINE PAMPAS	30°40'-32°20'S, 59°30'-64°30'W		DESIRED	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 15% FILM: *EK3443 FILTER: *W-12	--	20 SEC.	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>30°	0%	S190A AND S190B NUMBER OF PHOTOS SHOWN ARE FOR EACH MISSION. ORDER OF MISSION PRIORITY SL-3, SL-4, SL-2 WEIGHTED 50%, 40%, 10% RESPECTIVELY. *THE FILM/FILTER COMBINATION SPECIFIED FOR S190B IS APPLICABLE FOR MAY AND AUG - SEP BUT IS S0242/NONE FOR NOV - DEC.
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	--	--	--	--	--	ANY	1	>20°	<50%	
303495 (491)	A/C	GREAT PLAINS - USA	37°00'- 44°00'N, 88°00'-102°00'W		DESIRED	PHOTOS: 18 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 28 O.L.: 60% FILM: * FILTER: WR-15	--	--	--	--	MAR - MAY	1	>30°	<35%	SNOW COVER - 0% DESIRED, <3% MANDATORY. *S190B - 2445 FILM IS PREFERRED, BUT S0242 IS ACCEPTABLE. DO NOT USE S0397 FILM. HAND HELD PHOTOGRAPHS OF TEST SITE AT ANY TIME ARE HIGHLY DESIRABLE.
					MANDATORY	PHOTOS: 10 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<35%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
317807 (323)		SWITZERLAND	46°00'-48°00'N, 08°00'-10°00'E		DESIRED	PHOTOS: 4 O.L.: 60-70% FILM: *STD/S0356 FILTER: * STD/CC	PHOTOS: 6 O.L.: 60-70% FILM: EK3443 FILTER: W-12	40 SEC.	40 SEC.	40 SEC. RAD/SCAT ITC	--	APR - JUN AND NOV - MAR	3	>40°	≤30%	SNOW COVER DESIRED IN ALPS AND PRE-ALPS FOR MODELING RELATION BETWEEN SNOW COVER/VEGETATION AND SNOW COVER/SURFACE RUNOFF. * USE STANDARD FILTER, STANDARD FILM EXCEPT S0356 WITH CC FILTER.
					MANDATORY	--	PHOTOS: 3 O.L.: 20% FILM: EK3443/S0242 FILTER: W-12	--	20 SEC.	--	--	APR - JUN OR NOV - MAR	1	>25°	<60%	
318107 (420)		SIERRA NEVADA	36°00'- 38°30'N, 117°00'-120°00'W		DESIRED	PHOTOS: 2 O.L.: >50% FILM: S0022 FILTER: BLUE	PHOTOS: 2 O.L.: >50% FILM: EK3414 FILTER: W-12	30 SEC.	10 SEC.	25 SEC. RAD CTC	35 SEC.	MAY - JUN AND NOV - APR	1 1	>30°	<10%	SNOW COVER - >50% DESIRED, >25% MANDATORY - PREFER THAT DATA BE COLLECTED ACROSS A SNOW BOUNDARY. MANDATORY DATA CONSISTS OF S190A OR S190B AND ANY ONE OF S192, S193, OR S194 DATA. PREFER THAT S191 OPERATE POINTED IN VERTICAL AS SPACECRAFT PASSES FROM NON-SNOW COVERED TO SNOW COVERED TERRAIN - NOT NECESSARY TO "LOCK ON" TO A SPECIFIC TARGET. S193 RADIOMETER MODE AT 0° ELEVATION. * ANY VISIBLE FILM IS ACCEPTABLE. THIS SITE MOST DESIRABLE, HOWEVER 1 PASS FROM ANY OF THE FOLLOWING 4 SITES WILL SATISFY MINIMUM REQUIREMENTS.
					MANDATORY	PHOTOS: 2 O.L.: 10% OR FILM: * FILTER: *	PHOTOS: 2 O.L.: 10% FILM: ANY FILTER: ANY	15 SEC.	6 SEC.	25 SEC. RAD CTC	25 SEC.	NOV - MAY	1	>20°	<50%	

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FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B4-1. Continental Water Resources (300 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS						TEST CONDITIONS				UNIQUE TEST CONDITIONS
						S190A	S190B	S191	S192	S193	S194	SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	
318108 (420)		LOWER COLUMBIA BASIN	44°00'- 48°00'N, 119°30'-122°00'W		DESIRED	PHOTOS: 2 O.L.: >50% FILM: * S0022 FILTER: BLUE	PHOTOS: 2 O.L.: >50% FILM: EK3414 FILTER: W-12	--	10 SEC.	25 SEC. RAD CTC	35 SEC.	MAY - JUN AND NOV - APR	2	>30°	<10%	SNOW COVER >50% DESIRED, >25% MANDATORY - PREFER THAT DATA BE COLLECTED ACROSS A SNOW BOUNDARY. S193 RADIOMETER MODE AT 0° ELEVATION.
					MANDATORY	--	--	--	--	--	--	--	--	--	--	* ANY VISIBLE FILM IS ACCEPTABLE.
318191 (420)		UPPER COLUMBIA BASIN	44°20'- 48°00'N, 113°00'-117°00'W		DESIRED	PHOTOS: 2 O.L.: >50% FILM: * S0022 FILTER: BLUE	PHOTOS: 2 O.L.: >50% FILM: EK3414 FILTER: W-12	--	10 SEC.	25 SEC. RAD CTC	35 SEC.	MAY - JUN AND NOV - APR	2	>30°	<10%	SNOW COVER >50% DESIRED, >25% MANDATORY - PREFER THAT DATA BE COLLECTED ACROSS A SNOW BOUNDARY. S193 RADIOMETER MODE AT 0° ELEVATION.
					MANDATORY	--	--	--	--	--	--	--	--	--	--	* ANY VISIBLE FILM IS ACCEPTABLE.
318208 (420)		SALT RIVER PROJECT	33°20'- 35°00'N, 110°00'-112°30'W		DESIRED	PHOTOS: 2 O.L.: >50% FILM: * S0022 FILTER: BLUE	PHOTOS: 2 O.L.: >50% FILM: EK3414 FILTER: W-12	--	10 SEC.	25 SEC. RAD CTC	35 SEC.	NOV - MAY	1	>30°	<10%	SNOW COVER >50% DESIRED, >25% MANDATORY - PREFER THAT DATA BE COLLECTED ACORSS A SNOW BOUNDARY. S193 RADIOMETER MODE AT 0° ELEVATION.
					MANDATORY	--	--	--	--	--	--	--	--	--	--	* ANY VISIBLE FILM IS ACCEPTABLE.
318592 (420)		UPPER MISSISSIPPI - MISSOURI RIVER BASIN	42°00'- 47°00'N, 87°00'-100°00'W		DESIRED	PHOTOS: 2 O.L.: >50% FILM: * S0022 FILTER: BLUE	PHOTOS: 2 O.L.: >50% FILM: EK3414 FILTER: W-12	--	10 SEC.	25 SEC. RAD CTC	35 SEC.	NOV - MAY	1	>30°	<10%	SNOW COVER >50% DESIRED, >25% MANDATORY - PREFER THAT DATA BE COLLECTED ACROSS A SNOW BOUNDARY. S193 RADIOMETER MODE AT 0° ELEVATION.
					MANDATORY	--	--	--	--	--	--	--	--	--	--	* ANY VISIBLE FILM IS ACCEPTABLE.
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
331695 (427)	A/C	LAKE ONTARIO	42°35'-44°30'N, 76°00'-80°30'W		DESIRED	PHOTOS: 3 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 15% FILM: EK3414 FILTER: W-12	--	20 SEC.	--	--	SL-2 SL-3	1 1	ANY	<10%	DATA OVER WESTERN END OF LAKE IS MOST DESIRED. LIGHT SNOW ACCEPTABLE ON SECOND PASS ONLY. WILL ACCEPT OBLIQUE (EREP OR HAND HELD) PHOTOS OVER WESTERN END OF LAKE.
	A/C				MANDATORY	PHOTOS: 3 O.L.: 10% FILM: * FILTER: *	OR PHOTOS: 3 O.L.: 10% FILM: ANY FILTER: ANY	--	20 SEC.	--	--	SL-2	1	ANY	<30%	* USE EITHER IR COLOR AND HIGH RESOLUTION COLOR OR ONE PAN X AND ONE IR BLACK & WHITE.
332391 (064B)	A/C	GUADALUPE RIVER BASIN, TEXAS	28°15'-30°35'N, 96°10'-98°45'W		DESIRED	PHOTOS: 7 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 15 O.L.: 60% FILM: S0242 FILTER: —	--	58 SEC.	--	--	NOV - DEC	1	>30°	<15%	SNOW COVER <30%. HANDHELD PHOTOS ARE DESIRABLE.
					MANDATORY	PHOTOS: 4 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<15%	
— OR — 332388 (064B)	A/C	COLORADO RIVER BASIN, TEXAS	28°30'- 32°30'N, 95°00'-100°00'W		DESIRED	PHOTOS: 7 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 15 O.L.: 60% FILM: S0242 FILTER: —	--	58 SEC.	--	--	NOV - DEC	1	>30°	<15%	SNOW COVER <30% HANDHELD PHOTOS ARE DESIRABLE.
					MANDATORY	PHOTOS: 4 O.L.: 10% FILM: ANY FILTER: ANY	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	ANY	1	>20°	<15%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B4-1. Continental Water Resources (300 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	SENSOR REQUIREMENTS S191	SENSOR REQUIREMENTS S192	SENSOR REQUIREMENTS S193	SENSOR REQUIREMENTS S194	TEST CONDITIONS SEASONAL REQUIREMENTS	TEST CONDITIONS NUMBER PASSES	TEST CONDITIONS SUN ANGLE	TEST CONDITIONS CLOUD COVER	UNIQUE TEST CONDITIONS
333113 (454-3)	A/C	FEATHER RIVER WATERSHED, CALIFORNIA	39°20'- 40°30'N, 120°00'-121°45'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: S0242 FILTER: —	--	30 SEC.	--	--	MAY AUG NOV	1 1 1	>45°	0%	INVESTIGATOR ASSIGNED WEIGHTING FACTORS TO TASK/SITES 333113, 333109, 333124 DATA OF 50%, 30%, 20%, RESPECTIVELY. *15% O.L. IS ACCEPTABLE, BUT 60% O.L. IS PREFERRED.
					MANDATORY	PHOTOS: 1 O.L.: * 15% FILM: STD FILTER: STD	OR PHOTOS: 1 O.L.: * 15% FILM: S0242 FILTER: —	--	--	--	--	ANY	1	>20°	<15%	
333109 (454-3)	A/C	DEL NORTE COUNTY, CALIFORNIA	41°00'- 42°00'N, 123°30'-124°30'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: S0242 FILTER: —	--	20 SEC.	--	--	MAY AUG NOV	1 1 1	>45°	0%	INVESTIGATOR ASSIGNED WEIGHTING FACTORS TO TASK/SITES 333113, 333109, 333124 DATA OF 50%, 30%, 20%, RESPECTIVELY. *15% O.L. IS ACCEPTABLE, BUT 60% O.L. IS PREFERRED.
					MANDATORY	PHOTOS: 1 O.L.: * 15% FILM: STD FILTER: STD	OR PHOTOS: 1 O.L.: * 15% FILM: S0242 FILTER: —	--	--	--	--	ANY	1	>20°	<15%	
333124 (454-3)	A/C	SONOMA COUNTY, CALIFORNIA	38°50'N, 124°15'W 39°20'N, 123°40'W 36°20'N, 122°00'W 37°40'N, 122°40'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: S0242 FILTER: —	--	20 SEC.	--	--	MAY AUG NOV	1 1 1	>45°	0%	INVESTIGATOR ASSIGNED WEIGHTING FACTORS TO TASK/SITES 333113, 333109, 333124 DATA OF 50%, 30%, 20%, RESPECTIVELY.
					MANDATORY	PHOTOS: 1 O.L.: 15% FILM: STD FILTER: STD	OR PHOTOS: 1 O.L.: 15% FILM: S0242 FILTER: —	--	--	--	--	ANY	1	>20°	<15%	
335217 (489)	A/C	ARIZONA REGIONAL ECOLOGICAL TEST SITE, ARIZONA	31°30'- 34°00'N, 109°00'-113°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 10 O.L.: 60% FILM: S0242 FILTER: —	--	--	--	--	MAY - JUN NOV - DEC	2	>30°	<10%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 6 O.L.: 10% FILM: STD FILTER: STD	--	--	--	--	--	ANY	1	>20°	<30%	
336851 (348)		NIGER	13°00'-20°30'N, 00°00'-08°25'E		DESIRED	PHOTOS: 29 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 46 O.L.: 60% FILM: S0242 FILTER: —	--	25 SEC.	--	--	MAY AUG - SEP	1 1	>30°	0%	ONE ASCENDING AND ONE DESCENDING PASS OVER THE TEST SITE ARE DESIRED.
					MANDATORY	PHOTOS: 15 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<30%	
337227 (9670)		ARIZONA	34°00'- 35°00'N, 111°30'-112°30'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 60% FILM: S0242 FILTER: —	--	15 SEC.	--	--	MAY AUG SEP	1 1 1	>30°	<20%	SNOW COVER <20% DESIRED, <30% MANDATORY. HANDHELD PHOTOGRAPHS OF TEST SITE AT ANY TIME ARE HIGHLY DESIRABLE.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<20%	
338613 (089)	A/C	CONNECTICUT RIVER BASIN, NEW ENGLAND	41°30'-45°00'N, 70°50'-74°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 9 O.L.: 60% FILM: EK3443 FILTER: W-12	--	45 SEC.	--	--	MAY-SEP ANY	1 2*	>30°	<30%	* TWO OF THE PASSES REQUIRE FLOOD/HURRICANE CONDITIONS ON A "TARGET OF OPPORTUNITY" BASIS. HANDHELD PHOTOGRAPHS OF TEST SITE AT ANY TIME ARE HIGHLY DESIRABLE.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20	<75%	
340947 (9688)		WEST MALAYSIA	01°00'- 06°30'N, 101°30'-103°30'E		DESIRED	PHOTOS: 12 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 20 O.L.: 60% FILM: S0242 FILTER: —	--	25 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>30°	<20%	SNOW COVER <10% DESIRED, <30% MANDATORY. HANDHELD PHOTOS OF TEST SITE ARE HIGHLY DESIRABLE.
					MANDATORY	PHOTOS: 6 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	--	ANY	1	>20°	<50%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B4-1. Continental Water Resources (300 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
346622 (391)		LAKE ONTARIO, ANY PORTION	42°43'-44°00'N, 76°00'-80°00'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: SO242 FILTER: —	--	--	--	--	SL-2 SL-3 SL-4	1 1 1	>50°	<10%	DATA FROM TASK/SITES 346622 AND 346623 ARE OF EQUAL PRIORITY, TASK/SITE 346626 IS OF LOWER PRIORITY - ONLY ONE PASS OVER ANY OF THE SITES WILL SATISFY MANDATORY REQUIREMENT.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	OR PHOTOS: 2 O.L.: 10% FILM: SO242 FILTER: —	--	--	--	--	ANY	1*	>30°	<30%	
346623 (391)		CONESUS LAKE	42°45'N, 77°40'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: SO242 FILTER: —	--	--	--	--	SL-2 SL-3 SL-4	1 1 1	>50°	<10%	* SEE ABOVE COMMENT UNDER 346622.
	GT				MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	OR PHOTOS: 2 O.L.: 10% FILM: SO242 FILTER: —	--	--	--	--	ANY	1*	>30°	<30%	
346626 (391)		CHAUTAUQUA LAKE	42°10'N, 79°20'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: SO242 FILTER: —	--	--	--	--	SL-2 SL-3 SL-4	1 1 1	>50°	<10%	* SEE ABOVE COMMENT UNDER 346622.
	GT				MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	OR PHOTOS: 2 O.L.: 10% FILM: SO242 FILTER: —	--	--	--	--	ANY	1*	>30°	<30%	
347423 (540-61)		NW KANSAS	37°45'-39°35'N, 95°00'-98°15'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 60% FILM: SO242 FILTER: —	--	40 SEC.	--	--	SL-2 SL-3	2 2	>45°	<10%	* PREFER TRACK 58
					MANDATORY	--	--	--	25 SEC.	--	--	SL-2 * SL-3 *	1 1	>20°	<50%	
347416 (540-61)		TUTTLE CREEK RESERVOIR, KANSAS	39°18'N, 96°40'W 39°30'N, 96°40'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: SO242 FILTER: —	40 SEC.*	5 SEC.	--	--	SL-2*** SL-3***	2 2	>45°	<10%	S191 SITES: TUTTLE CREEK RESERVOIR - MILLER COVE, 39°18'N, 96°40'W (347406). TUTTLE CREEK RESERVOIR - MAIN RESERVOIR, 39°19'N, 96°39'W (347407). * 20 SEC. EACH S191 SITE. ** 10 SEC. EACH S191 SITE. *** DURING ALGAE GROWING SEASON.
	GT				MANDATORY	--	--	20 SEC.**	--	--	--	SL-2*** SL-3***	1 1	>20°	<50%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
348129 (417)		LOS ANGELES, COASTAL WATERS	33°00'- 34°00'N, 118°00'-119°00'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: EK3414 FILTER: W-12	--	25 SEC.	--	--	ANY	3*	>30°	<10%	*TASK/SITES 348129 AND 348442 DATA ARE CONCERNED WITH OIL POLLUTION SURVEY. IN ADDITION TO DATA GATHERED FROM THESE SPECIFIC SITES, PRINCIPAL INVESTIGATOR DESIRES DATA OVER A KNOWN OIL SLICK ON A "TARGET OF OPPORTUNITY" BASIS.
					MANDATORY	--	--	--	12.5 SEC.	--	--	ANY	1*	>30°	<30%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B4-1. Continental Water Resources (300 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
348442 (417)		GULF OF MEXICO OFF LOUISIANA	28°00'-29°00'N, 90°00'-92°00'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: EK3414 FILTER: W-12	--	25 SEC.	--	--	ANY	3*	>30°	<10%	*SEE ABOVE COMMENT UNDER 348129.
					MANDATORY	--	--	--	12.5 SEC.	--	--	ANY	1*	>30°	<30%	
349677 (523)		LAKE ONTARIO	42°30'-43°45'N, 78°00'-80°00'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: SO242 FILTER: --	--	20 SEC.	--	20 SEC.	SL-2 SL-3	1 1	≥25° ≤35°	<10%	PRINCIPAL INVESTIGATOR CONSIDERS DATA OVER WESTERN END OF LAKE ONTARIO MOST IMPORTANT. DATA DURING ANY ICE FREE PERIOD. * ONE CHANNEL IR AND ONE CHANNEL VISIBLE, WITH STD. FILTER.
					MANDATORY	PHOTOS: 1 O.L.: 30% FILM: * FILTER: * OR	PHOTOS: 2 O.L.: 30% FILM: ANY FILTER: ANY	--	10 SEC.	--	--	ANY	1	≥20° ≤40°	<20%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

400 Series

OCEAN INVESTIGATIONS

Obtain data on ocean currents, potential fish abundance, geoidal undulation, sea surface conditions, sea and lake ice, water depth, estuarine and coastal processes, water color and circulations and plankton population in upwelling areas.

Purposes

Task

401 Demonstrate that simultaneously measured values of the radar scattering cross-section matrix and microwaves temperatures will provide data from which the surface winds over the ocean can be inferred. Correlate sea state and sea foam with wind velocities. Evaluate cloud and sea surface (white caps and foam) characteristics from which general weather conditions can be inferred.

402 Determine the utility and accuracy of radar backscattering as a means for measuring ocean surface parameters (RMS surface roughness, surface wind speed, and wave height spectral properties) using S193 altimetry (radar cross-section and wave-form information), and S190B photography coincident with detailed oceanographic surface information.

403 Provide a variety of sea surface and atmospheric data acquired by multi-level aircraft flights to the EREP investigators analyzing S193 and S194 data and relate the EREP S193/S194/S190A data and A/C measurements to photographic and model determinations of white caps and foam densities.

404 Establish the degree to which quantitative measurements of sea surface roughness and related wind fields can be made from the L-band and K-band radiometers using S190 photographs collected for a first-order estimate of weather condition and L-band radiometer (S194) and K-band (S193) data acquired repeatedly for sea-state analysis.

405
479 A multidiscipline study of geology, hydrology, limnology, oceanography, and agriculture. Establish spectral signatures, taking into account atmospheric effects as measured by S191. Study sea state and thermal patterns in the eastern Mediterranean through the radiometer-scatterometer and IR sensor on board Skylab. Sense agricultural crops and native vegetation with the multispectral scanner and cameras. Multiple objectives include extension of wheat lands and date palms production areas; more productivity through location of drainage areas into the desert; more productive fishing efforts; detection of plant stress; identification of rock outcroppings for geological exploration; and application of remote sensing to the Israeli Government drought insurance plan.

416 Study the detailed structure of ice coverage, i.e., its closeness, surface roughness of each ice-field, and the distribution of sea-ices of various types. Study the empirical relationship between the distribution of surface roughness of an ice-field and its mean thickness, with major interest on the estimation of the total volume of sea-ice in the Sea of Okhotsk. Verify the concept of the sudden change in the flow pattern of sea-currents in the southern region of the Sea of Okhotsk prior to the first arrival of southward drifting pack-ice of north origin to the northeastern coast of Hokkaido Island. Study the influence of the total volume of sea-ice borne in the Sea of Okhotsk upon the Oyashio Current. Use S190A and S190B photography to delineate edges of sea-ice and surface roughness of winter ice.

417 Determine the feasibility of using passive microwave systems in space to measure and monitor the characteristics of sea and lake-ice and to compare ice parameters with numerical models. Analyze the information content of sequential, synoptic passive microwave data with variations in types and location of ice. Determine the feasibility of a Skylab EREP passive microwave system to obtain significant information on type, areal extent, thickness and condition of ice on Lake Ontario and the Gulf of St. Lawrence. Compare measured results with contemporary models of microwave emission from ice. Evaluate the differences in information content between aircraft and EREP passive microwave data. Determine instrumentation needs for synoptic ice monitoring systems.

431 Detect and locate a major ocean current in the absence of significant sea surface thermal gradients in the Gulf of Mexico where the Gulf Stream system forms a deeply penetrating anti-cyclonic flow (the Loop Current). Obtain simultaneous measurements across the surface boundary layer of the Loop Current by ship, aircraft and satellite. Test several theoretical and empirical questions about the remote sensing of this phenomenon. Answer certain questions about the optics and kinematics of the juxtaposed water masses.

432 Study the boundaries between the Oyashio and Kuroshio Currents along the Northeast coast of Japan.

433 Use EREP satellite information for locating currents, studying thermal boundaries, shifts and rate of flow, measurements of sea state, mapping submarine topography, locating biologically rich areas, detecting navigational hazards, effluent distribution and concentration, identifying surface fish oil films, with primary interest in describing the generation, evolution, and disappearance of upwelling along the Chilean coast.

434 Obtain data to map ocean surface currents off the coast of Rio de Janeiro, Brazil.

446 Utilize S191 spectrometer data to assess the ability of infrared multispectral sensing to function as a means of providing improved estimates of sea surface temperature. Test 2, 3, and N-band models for sea surface temperature determinations. Test the validity, accuracy and precision of the atmospheric radiative transfer models used in developing the postulated 2, 3, and N-band temperature determination systems.

461 Establish techniques and analytical procedures for the calibration of the Skylab altimeter and to evaluate the feasibility of using spacecraft altimetry for the accurate determination of a global geoid of the oceans using S190A, S190B, and S193 (altimeter) data collected over the Puerto Rico Trench and the Wallops Island - Chesapeake Bay area.

476 Map the absolute sea surface temperature and correlate this parameter with chlorophyll concentration, known fishing areas, and ocean currents. Map two geostrophic boundary currents (Gulf Stream and Kuroshio). Determine temperature distribution and temporal changes in position. Map chlorophyll concentrations in the ocean and map water depth in shallow regions of the oceans.

477 Provide a panoramic view of primary productivity patterns off the east coast. Establish a relationship of productivity to seasonal change, current patterns, storms, and biological phenomena and investigate the feasibility of applying productivity values obtained for eastern coastal waters to a global analysis.

478 Establish feasibility of utilizing satellite data to assess and monitor the distribution of game fish.

481 Study dynamics of marine phytoplankton populations in areas of upwelling using S190A, S190B, S191 and S192 data, and surface data measurements of solar radiation flux, water color, transparency, temperature, nutrients, standing crop (biomass), and in situ productivity.

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Table B5-1. Ocean Investigations (400 Series)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS: S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS: SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
401691 (550-1)		NORTH ATLANTIC EXTRATROPICAL CYCLONE	32°00'N, 81°00'W 50°00'N, 65°00'W 50°00'N, 10°00'W 32°00'N, 55°00'W		DESIRED	--	PHOTOS: 80 O.L.: 10-15% FILM: S0242 FILTER: —	500 SEC.* NADIR TRACK	--	500 SEC. RAD/SCAT CTNC ALL POLAR.	500 SEC.	MAY - JUN NOV - DEC	1 1	DAY	ANY	IF S190A IS USED: CAMERA 4 IS DESIRED; CAMERA 5 IS MANDATORY. S191 AND S194 SHOULD BE CONTINUOUS AND CONCURRENT WITH S193. *ACTUAL TIMING WILL DEPEND ON THE EXTENT OF THE EXTRATROPICAL CYCLONE.
	A/C GT				MANDATORY	PHOTOS: 25 O.L.: 10-15% FILM: STD FILTER: STD	OR PHOTOS: 40 O.L.: 10-15% FILM: **ANY FILTER: STD	500 SEC. * NADIR TRACK	--	500 SEC. RAD/SCAT CTNC ANY POLAR.	500 SEC.	MAY - JUN OR NOV - DEC	2	ANY	ANY	WIDE RANGE OF WIND SPEEDS AND SEA STATE CONDITIONS ARE DESIRABLE, THEY ARE TO BE DEFINED IN REAL TIME. WILL ACCEPT NIGHT S191, S193, AND S194 COVERAGE. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 35% TO TASK/SITE 401691 WITH EXTRA TROPICAL CYCLONE, 35% TO TASK/SITE 401691 WITH HIGH WINDS, 20% TO TASK/SITE 401598, AND 10% TO TASK/SITE 401998. **S190B - IR FILM IS NOT ACCEPTABLE.
		- - - - -														
	A/C GT	NORTH ATLANTIC VARIABLE WINDS			DESIRED	--	PHOTOS: 48 O.L.: 10-15% FILM: S0242 FILTER: —	600 SEC. NADIR TRACK	--	600 SEC.* RAD/SCAT ITNC/CTNC ALL POLAR.	600 SEC.	MAY - JUN AND NOV - DEC	10	ANY	ANY	*ALTERNATE: 65 SEC. ITNC, THEN 30 SEC. CTNC. S191 AND S194 SHOULD BE CONTINUOUS AND CONCURRENT WITH S193. IF S190A IS USED; CAMERA 4 IS DESIRED; CAMERA 5 IS MANDATORY. WIDE RANGE OF WIND SPEEDS AND SEA STATE CONDITIONS ARE DESIRABLE, THEY ARE TO BE DEFINED IN REAL TIME. **S190B - IR FILM IS NOT ACCEPTABLE. SAME SITE AND TIME AS TASK/SITE 403691 AND 404691. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 35% TO TASK/SITE 401691 WITH EXTRATROPICAL CYCLONE, 35% TO TASK/SITE 401691 WITH HIGH WINDS, 20% TO TASK/SITE 401598, AND 10% TO TASK/SITE 401998.
	A/C GT				MANDATORY	PHOTOS: 16 O.L.: 10-15% FILM: STD FILTER: STD	OR PHOTOS: 24 O.L.: 10-15% FILM: ** ANY FILTER: STD	300 SEC. NADIR TRACK	--	300 SEC.* RAD/SCAT ITNC/CTNC ANY POLAR.	300 SEC.	MAY - JUN OR NOV - DEC	3	ANY	ANY	
401598 (550-1)	A/C GT	GULF OF MEXICO	20°00'-30°00'N, 82°00'-97°00'W		DESIRED	--	PHOTOS: 8 O.L.: 10-15% FILM: S0242 FILTER: —	100 SEC. NADIR TRACK	--	100 SEC. RAD/SCAT ITNC ALL POLAR.	100 SEC.	MAY - OCT	8	DAY	ANY	IF S190A IS USED: CAMERA 4 IS DESIRED; CAMERA 5 IS MANDATORY. S191 AND S194 SHOULD BE CONTINUOUS AND CONCURRENT WITH S193. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 35% TO TASK/SITE 401691 WITH EXTRATROPICAL CYCLONE, 35% TO TASK/SITE 401691 WITH HIGH WINDS, 20% TO TASK/SITE 401598, AND 10% TO TASK/SITE 401998. SAME SITE AND TIME AS TASK/SITE 403598. ANY WINDS ARE ACCEPTABLE. *S190B - IR FILM IS NOT ACCEPTABLE
	A/C GT				MANDATORY	PHOTOS: 5 O.L.: 10-15% FILM: STD FILTER: STD	OR PHOTOS: 8 O.L.: 10-15% FILM: * ANY FILTER: STD	100 SEC. NADIR TRACK	--	100 SEC. RAD/SCAT ITNC ANY POLAR.	100 SEC.	MAY - OCT	1	ANY	ANY	
401998 (550-1)		GULF OF MEXICO (SEVERE STORM)	TBD IN REAL TIME		DESIRED	--	PHOTOS: 8 O.L.: 10-15% FILM: S0242 FILTER: —	100 SEC.* NADIR TRACK	--	100 SEC. RAD/SCAT CTC ALL POLAR.	100 SEC.	ANY	1	DAY	ANY	THE DESIRED TARGET IS A HURRICANE; MANDATORY IS A TROPICAL STORM. STORM CONDITIONS AND LOCATION WILL BE DEFINED IN REAL TIME. S191 AND S194 SHOULD BE CONTINUOUS AND CONCURRENT WITH S193 IF S190A IS USED: CAMERA 4 IS DESIRED; CAMERA 5 IS MANDATORY. *ACTUAL TIMING WILL DEPEND ON THE EXTENT OF THE STORM. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 35% TO TASK/SITE 401691 WITH EXTRATROPICAL CYCLONE, 35% TO TASK/SITE 401691 WITH HIGH WINDS, 20% TO TASK/SITE 401598, AND 10% TO TASK/SITE 401998. **S190B - IR FILM IS NOT ACCEPTABLE
	A/C GT				MANDATORY	PHOTOS: 5 O.L.: 10-15% FILM: STD FILTER: STD	OR PHOTOS: 8 O.L.: 10-15% FILM: **ANY FILTER: STD	100 SEC.* NADIR TRACK	--	100 SEC. RAD/SCAT CTC ANY POLAR.	100 SEC.	ANY	1	ANY	ANY	
		— — OR — —														
		NORTH ATLANTIC (SEVERE STORM)			DESIRED	--	PHOTOS: 8 O.L.: 10-15% FILM: S0242 FILTER: —	100 SEC.* NADIR TRACK	--	100 SEC. RAD/SCAT CTC ALL POLAR.	100 SEC.	ANY	1	DAY	ANY	THE DESIRED TARGET IS A HURRICANE; MANDATORY IS A TROPICAL STORM. STORM CONDITIONS AND LOCATION WILL BE DEFINED IN REAL TIME. S191 AND S194 SHOULD BE CONTINUOUS AND CONCURRENT WITH S193. IF S190A IS USED: CAMERA 4 IS DESIRED; CAMERA 5 IS MANDATORY. *ACTUAL TIMING WILL DEPEND ON THE EXTENT OF THE STORM. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 35% TO TASK/SITE 401691 WITH EXTRATROPICAL CYCLONE, 35% TO TASK/SITE 401691 WITH HIGH WINDS, 20% TO TASK/SITE 401598 AND 10% TO TASK/SITE 401998. **S190B - IR FILM IS NOT ACCEPTABLE.
	A/C GT				MANDATORY	PHOTOS: 5 O.L.: 10-15% FILM: STD FILTER: STD	OR PHOTOS: 8 O.L.: 10-15% FILM: ** ANY FILTER: STD	100 SEC.* NADIR TRACK	--	100 SEC. RAD/SCAT CTC ANY POLAR.	100 SEC.	ANY	1	ANY	ANY	
402692 (470)		WALLOPS ISLAND AREA	35°00'-39°00'N, 68°00'-74°00'W		DESIRED	--	PHOTOS: 6 O.L.: 10-15% FILM: S0242 FILTER: —	--	--	170 SEC. ALT *	--	MAY AND AUG	4	>30°	ANY	10-40 KNOT WINDS ARE DESIRED; SOME WIND IS MANDATORY - AREA WEATHER CONDITIONS WHICH HAVE BEEN ESSENTIALLY CONSTANT OVER THE PRECEDING 24 HOURS ARE DESIRED. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 50% EACH TO TASK/SITES 402692 AND 402693. *S193 - 80% OF THE TIME IS TO BE IN MODE 5 AND 20% OF THE TIME IS TO BE IN MODE 2. **S190B - IR FILM IS NOT ACCEPTABLE.
	A/C				MANDATORY	PHOTOS: 4 O.L.: 10-15% FILM: STD FILTER: STD	OR PHOTOS: 6 O.L.: 10-15% FILM: ** ANY FILTER: STD	--	--	170 SEC. ALT *	--	ANY	2	>20°	ANY	
402693 (470)		NORTH ATLANTIC	46°00'-50°00'N, 16°00'-23°00'W		DESIRED	--	PHOTOS: 6 O.L.: 10-15% FILM: S0242 FILTER: —	--	--	170 SEC. ALT **	--	MAY AND AUG	4	>30°	ANY	25-50 KNOT WINDS ARE DESIRED; SOME WIND IS MANDATORY - AREA WEATHER CONDITIONS WHICH HAVE BEEN ESSENTIALLY CONSTANT OVER THE PRECEDING 24 HOURS ARE DESIRED. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 50% EACH TO TASK/SITES 402692 AND 402693. *S190B - IR FILM IS NOT ACCEPTABLE. **S193 - 80% OF THE TIME IS TO BE IN MODE AND 20% OF THE TIME IS TO BE IN MODE 2.
	A/C				MANDATORY	PHOTOS: 4 O.L.: 10-15% FILM: STD FILTER: STD	OR PHOTOS: 6 O.L.: 10-15% FILM: * ANY FILTER: STD	--	--	170 SEC. ALT **	--	ANY	2	>20°	ANY	
403691 (460)	A/C GT	NORTH ATLANTIC	32°00'N, 81°00'W 50°00'N, 65°00'W 50°00'N, 10°00'W 32°00'N, 55°00'W		DESIRED	PHOTOS: 30 O.L.: 15% FILM: STD FILTER: STD	--	--	--	600* RAD/SCAT ITNC/CTNC ALL POLAR.	600	MAY - JUN NOV - DEC	10	ANY	ANY	INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 70% TO TASK/SITES 403691 25% AND 5% TO TASK/SITES 403598 AND 403681, RESPECTIVELY. WIDE RANGE OF WIND SPEEDS AND SEA STATE CONDITIONS ARE DESIRABLE, THEY ARE TO BE DEFINED IN REAL TIME.
	A/C GT				MANDATORY	PHOTOS: 15 O.L.: 10% FILM: STD FILTER: STD	--	--	--	300* RAD/SCAT ITNC/CTNC ANY POLAR.	300	MAY - JUN NOV - DEC	3	ANY	ANY	*ALTERNATE: 65 SEC. ITNC, THEN 30 SEC. IN CTNC. SAME SITE AND TIME AS TASK/SITE 401691 AND 404691.

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Table B5-1. Ocean Investigations (400 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
					DESIRED	PHOTOS: O.L.: FILM: FILTER:										
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:										
403598 (460)	A/C GT	GULF OF MEXICO	28°00'-30°00'N, 82°00'-97°00'W		DESIRED	PHOTOS: 5 O.L.: 15% FILM: STD FILTER: STD	--	--	--	100 SEC. RAD/SCAT ITNC ALL POLAR.	100 SEC.	MAY - OCT	8	ANY	ANY	ANY WINDS ARE ACCEPTABLE. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 70% TO TASK/SITES 403691 25% and 5% TO TASK/SITES 403598 AND 403681, RESPECTIVELY. SAME SITE AND TIME AS TASK/SITE 401598.
	A/C GT				MANDATORY	PHOTOS: 5 O.L.: 10% FILM: STD FILTER: STD	--	--	--	100 SEC. RAD/SCAT ITNC ANY POLAR.	100 SEC.	MAY - OCT	1	ANY	ANY	
403681 (460)		LAKE SUPERIOR INTO ATLANTIC OCEAN	START AT 95°00'W ALONG TRACK 18 TO 65°00'W		DESIRED	PHOTOS: 20 O.L.: 15% FILM: STD FILTER: STD	--	--	--	400 SEC. RAD CTC H,V	400 SEC.	MAY - JUN AND NOV - DEC	2	ANY	ANY	NO LAKE ICE IS DESIRED. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 70% TO TASK/SITES 403691 25% AND 5% TO TASK/SITES 403598 AND 403681, RESPECTIVELY. SAME SITE AND TIME AS TASK/SITE 404681.
	A/C GT				MANDATORY	PHOTOS: 20 O.L.: 10% FILM: STD FILTER: STD	--	--	--	400 SEC. RAD CTC H,V	400 SEC.	MAY - JUN OR NOV - DEC	1	ANY	ANY	
404691 (384)		NORTH ATLANTIC	32°00'N, 81°00'W 50°00'N, 65°00'W 50°00'N, 10°00'W 32°00'N, 55°00'W		DESIRED	--	PHOTOS: 48 O.L.: 10-15% FILM: S0242 FILTER: --	--	--	600 SEC.* RAD/SCAT ITNC/CTNC	600 SEC.	MAY - JUN NOV - DEC	10	ANY	ANY	INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 90% TO TASK/SITE 404691 AND 10% TO 404681. SAME SITE AND TIME AS TASK/SITE 401691. WIDE RANGE OF WIND SPEEDS AND SEA STATE CONDITIONS ARE DESIRABLE, THEY ARE TO BE DEFINED IN REAL TIME. *ALTERNATE: 65 SEC. ITNC, THEN 30 SEC. CTNC. **S190B - IR FILM IS NOT ACCEPTABLE.
	A/C GT				MANDATORY	--	PHOTOS: 24 O.L.: 10-15% FILM: **ANY FILTER: STD	--	--	300 SEC.* RAD/SCAT ITNC/CTNC	300 SEC.	MAY - JUN NOV - DEC	3	ANY	ANY	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
404681 (384)		LAKE SUPERIOR INTO ATLANTIC OCEAN	START AT 95°00'W ALONG TRACK 18 TO 65°00'W		DESIRED	--	PHOTOS: 32 O.L.: 10-15% FILM: S0242 FILTER: --	--	--	400 SEC. RAD CTC H,V	400 SEC.	MAY - JUN NOV - DEC	2	ANY	ANY	NO LAKE ICE IS DESIRED. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 90% TO TASK/SITE 404691 AND 10% TO 404681. SAME SITE AND TIME AS TASK/SITE 403681. *S190B - IR FILM IS NOT ACCEPTABLE.
	A/C GT				MANDATORY	--	PHOTOS: 32 O.L.: 10-15% FILM: *ANY FILTER: STD	--	--	400 SEC. RAD CTC H,V	400 SEC.	MAY - JUN OR NOV - DEC	1	ANY	ANY	
405861 (568-2)		REFERENCE TASK 117	REFERENCE TASK 117		DESIRED*											*THIS TASK ASSOCIATED WITH TASKS 117, 147, 178 AND 479. COMPLETION OF REQUIREMENT FOR ANY ONE OF THESE TASKS SATISFIES THE REQUIREMENTS FOR ALL OF THESE TASKS.
					MANDATORY*											
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

Table B5-1. Ocean Investigations (400 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
416911 (023-1)		SEA OF OKHOTSK	48°30'-60°00'N, 143°00'-150°00'E		DESIRED	PHOTOS: 8 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 12 O.L.: 60% FILM: S0242 FILTER: —	—	62 SEC.	—	—	DEC	2	>20°	0%	IT IS DESIRABLE TO HAVE CREW COMMENTS ON THE PRESENCE OF SEA ICE. CREW MEMBERS ARE TO OBSERVE THROUGH VTS; THE DAC IS NOT REQUIRED.
					MANDATORY	PHOTOS: 8 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 12 O.L.: 60% FILM: S0242 FILTER: —	—	62 SEC.	—	—	DEC	1	>20°	<50%	
416912 (023-1)		SEA NORTH OF HOKKAIDO	44°00'- 46°00'N 144°00'-148°00'E		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: S0242 FILTER: —	—	44 SEC.	—	—	DEC OR MAY	2	>20°	0%	IT IS DESIRABLE TO HAVE CREW COMMENTS ON THE PRESENCE OF SEA ICE BOUNDARIES. CREW MEMBERS ARE TO OBSERVE THROUGH VTS; THE DAC IS NOT REQUIRED.
					MANDATORY	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: S0242 FILTER: —	—	44 SEC.	—	—	DEC OR MAY	1	>20°	<50%	
416919 (023-1)		SEA NORTHEAST OF TOKYO	35°00'- 40°00'N, 140°00'-147°00'E		DESIRED	PHOTOS: 9 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 13 O.L.: 60% FILM: S0242 FILTER: —	—	70 SEC.	—	—	AUG - SEP	2	>20°	0%	IT IS DESIRABLE TO HAVE CREW COMMENTS ON THE ABILITY TO OBSERVE THE BOUNDARY BETWEEN CURRENTS. CREW MEMBERS ARE TO OBSERVE THROUGH VTS; THE DAC IS NOT REQUIRED.
					MANDATORY	PHOTOS: 9 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 13 O.L.: 60% FILM: S0242 FILTER: —	—	70 SEC.	—	—	ANY	1	>20°	<50%	
417642 (457-4)	A/C	LAKE ONTARIO	42°30'-44°30'N, 76°00'-80°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: S0242 FILTER: —	—	33 SEC.	33 SEC. RAD CTC H,V	—	DEC	2	≥30°	<30%	ICE COVER OF 10-80% IS MANDATORY. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 50% EACH TO TASK/SITES 417642 AND 417641.
	A/C				MANDATORY	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: ANY FILTER: ANY	—	33 SEC.	33 SEC. RAD CTC H,V	—	DEC	1	>10°	<50%	
417641 (457-4)	A/C	GULF OF ST. LAWRENCE	45°00'-50°00'N, 58°00'-65°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: S0242 FILTER: —	—	33 SEC.	33 SEC. RAD CTC H,V	—	DEC	2	≥30°	<30%	ICE COVER OF 10-80% IS MANDATORY. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 50% EACH TO TASK/SITES 417642 AND 417641.
	A/C				MANDATORY	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: ANY FILTER: ANY	—	33 SEC.	33 SEC. RAD CTC H,V	—	DEC	1	>10°	<50%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

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Table B5-1. Ocean Investigations (400 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
431536 (108)	A/C GT	GULF OF MEXICO	21°00'N, 90°00'W 30°00'N, 90°00'W 30°00'N, 84°00'W 21°00'N, 84°00'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	--	22 SEC.* SITE **	22 SEC.	--	--	SL-4	2	≥30°	<10%	*S191 - ACQUIRE TEST SITE 45° AHEAD IN AREA CLEAR OF CLOUDS AND TRACK TO ZLV FOR 22 SECONDS. **SPECIFIC SITE ALONG TRACK WILL BE OBTAINED IN ADVANCE FROM THE PI. SAME SITE AND TIME AS TASK/SITE 446536.
	A/C GT				MANDATORY	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	--	15 SEC.* SITE **	15 SEC.	--	--	SL-4	1	>20°	<25%	
433733 (565)		CHILEAN COAST SITE #1	23°00'-24°00'S 70°00'-71°00'W		DESIRED	PHOTOS: * 4 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: * 6 O.L.: 15% FILM: S0242 FILTER: —	--	70 SEC.	--	--	EARLY IN MISSION AND EVERY 15 DAYS	8	>30°	<10%	INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 60% AND 40% TO TASK/SITES 433733 AND 433736, RESPECTIVELY. *OPTIMUM EXPOSURE FOR WATER COLOR IS DESIRED.
					MANDATORY	PHOTOS: * 4 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: * 6 O.L.: 10% FILM: S0242 FILTER: —	--	70 SEC.	--	--	ANY	1	>20°	<50%	
433736 (565)		CHILEAN COAST SITE #2	33°00'-34°00'S, 71°00'-72°00'W		DESIRED	PHOTOS: * 4 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: * 6 O.L.: 15% FILM: S0242 FILTER: —	--	70 SEC.	--	--	EARLY IN MISSION AND EVERY 15 DAYS THEREAFTER	8	>30°	<10%	INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 60% AND 40% TO TASK/SITES 433733 AND 433736, RESPECTIVELY. *OPTIMUM EXPOSURE FOR WATER COLOR IS DESIRED.
					MANDATORY	PHOTOS: * 4 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: * 6 O.L.: 10% FILM: S0242 FILTER: —	--	70 SEC.	--	--	ANY	1	>20°	<50%	
434764 (9636-3)		BRAZIL	21°40'-25°14'S, 39°07'-44°27'W		DESIRED *	--	PHOTOS: 6 O.L.: 15% FILM: S0242 FILTER: —	--	69 SEC.	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>30°	0%	NONE SPECIFIED.
					MANDATORY *	--	--	--	35 SEC.	--	--	ANY	1	>20°	<30%	
434766 (9636-3)		BRAZIL	29°36'-33°34'S, 49°44'-54°28'W		DESIRED	PHOTOS: 4 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 7 O.L.: 15% FILM: S0242 FILTER: —	--	--	--	--	MAY NOV - DEC	1 1	>30°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	PHOTOS: 4 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	<30%	
434767 (9636-3)		BRAZIL	28°18'-35°08'S, 48°44'-54°52'W		DESIRED	--	PHOTOS: 10 O.L.: 15% FILM: S0242 FILTER: —	--	120 SEC.	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>30°	0%	NONE SPECIFIED.
					MANDATORY	--	--	--	60 SEC.	--	--	ANY	1	>20°	<30%	
446691 (422)	A/C GT	NORTH ATLANTIC	32°00'N, 81°00'W 50°00'N, 65°00'W 50°00'N, 10°00'W 32°00'N, 55°00'W		DESIRED	--	--	**	--	--	--	SL-2 SL-3	2* 2*	>30° >30°	0% 100%	**ACQUIRE DATA FROM 45° AHEAD THRU 10° BACK. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 30% EACH TO TASK/SITE 446691 AND 446536 WITH ZERO CLOUD COVER AND 20% EACH TO TASK/SITE 446691 AND 446536 WITH 100% UNIFORM STRATUS CLOUD COVER. DATA CAN BE TAKEN DURING TASK/SITE 401691. *ONE CLEAR AND ONE OVERCAST PASS ARE DESIRED. A SPECIFIC SITE ALONG THE TRACK IS TO BE LOCATED IN REAL TIME.
	A/C GT				MANDATORY	--	--	**	--	--	--	SL-2 SL-3	2*	>20° >20°	<10% 90-100%	
446536 (422)	A/C GT	GULF OF MEXICO	21°00'-30°00'N, 84°00'-90°00'W		DESIRED	--	--	**	--	--	--	SL-4	2*	>30° >30°	0% 100%	**FOR THE LOW CLOUD COVER PASS ACQUIRE DATA FROM 45° AHEAD IN AN AREA CLEAR OF CLOUDS AND TRACK TO ZLV, THEN LOCK IN ZLV FOR 22 SECONDS; FOR HIGH CLOUD COVER ACQUIRE DATA FROM 45° AHEAD THRU 10° BACK. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 30% EACH TO TASK/SITE 446691 AND 446536 WITH ZERO CLOUD COVER AND 20% EACH TO TASK/SITE 446691 AND 446536 WITH 100% UNIFORM STRATUS CLOUD COVER. DATA CAN BE TAKEN DURING TASK/SITE 431536. A SPECIFIC SITE ALONG THE TRACK IS TO BE LOCATED IN REAL TIME. *ONE CLEAR AND ONE OVERCAST PASS ARE DESIRED.
	A/C GT				MANDATORY	--	--	**	--	--	--	SL-4	2*	>20° >20°	<10% 90-100%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B5-1. Ocean Investigations (400 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	SENSOR REQUIREMENTS S191	SENSOR REQUIREMENTS S192	SENSOR REQUIREMENTS S193	SENSOR REQUIREMENTS S194	TEST CONDITIONS SEASONAL REQUIREMENTS	TEST CONDITIONS NUMBER PASSES	TEST CONDITIONS SUN ANGLE	TEST CONDITIONS CLOUD COVER	UNIQUE TEST CONDITIONS
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
461636 (440)		PUERTO RICO TRENCH	19°00'-21°00'N, 65°00'-67°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: S0242 FILTER: —	--	--	120 SEC. ALT MODE 5	--	ANY	3	>30°	<10%	*S190B-IR FILM IS NOT ACCEPTABLE. CALM SEA DESIRED, NO RAIN MANDATORY. WEIGHTING FACTOR 50%
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: STD FILTER: STD	OR PHOTOS: 5 O.L.: 10% FILM: *ANY FILTER: STD	--	--	40 SEC. ALT MODE 5	--	ANY	1	>20°	<90%	
461682 (440)		ATLANTIC	24°00'N, 60°00'W 24°00'N, 80°00'W 42°00'N, 73°00'W 42°00'N, 60°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: S0242 FILTER: —	--	--	200 SEC. ALT MODE 5	--	ANY	2	>30°	<10%	*S190B - IR FILM IS NOT ACCEPTABLE. CALM SEA DESIRED, NO RAIN MANDATORY. WEIGHTING FACTOR 50%
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: STD FILTER: STD	OR PHOTOS: 5 O.L.: 10% FILM: *ANY FILTER: STD	--	--	40 SEC. ALT MODE 5	--	ANY	1	>20°	<90%	
461536 (440)		(ALTERNATE) GULF OF MEXICO	21°00'-30°00'N 84°00'-90°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: S0242 FILTER: —	--	--	200 SEC. ALT MODE 5	--	ANY	3	>30°	<10%	USE IN CONCERT WITH TASK/SITE 431536 AS AN ALTERNATE TO TASK/SITE 461636 OR 461682. CALM SEA DESIRED, NO RAIN MANDATORY. *S190B - IR FILM IS NOT ACCEPTABLE.
					MANDATORY	IM: PHOTOS: 3 O.L.: 10% FILM: STD FILTER: STD	OR IM: PHOTOS: 5 O.L.: 10% FILM: *ANY FILTER: STD	--	--	40 SEC. ALT MODE 5	--	ANY	1	>20°	<90%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	IM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B5-1. Ocean Investigations (400 Series) (Contined)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
476871 (586-3)		N.W. COAST OF AFRICA	30°00'N, 10°00'W 30°00'N, 20°00'W 14°00'N, 17°00'W 14°00'N, 22°00'W		DESIRED	PHOTOS: ** 10 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: ** 13 O.L.: 60% FILM: S0242 FILTER: —	10 SEC.*	75 SEC.	OFF	—	SL-2 SL-3 SL-4	1 1 1	>30°	≤10%	AVOID SUN GLITTER. S190A, S190B, AND S192 - COVER WATER COLOR CHANGES AND LAND/WATER INTERFACE. *UPWELLING SITE TO BE PROVIDED IN ADVANCE BY THE PI. DESIRE 5 SECONDS OF S191 DATA ON EACH SIDE OF UPWELLING COLOR BOUNDARY.
					MANDATORY	PHOTOS: ** 10 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: ** 13 O.L.: 60% FILM: S0242 FILTER: —	10 SEC.*	75 SEC.	OFF	—	ANY	2	>20°	<50%	** OPTIMUM EXPOSURES FOR WATER COLOR. THIS TASK IS ASSOCIATED WITH 481871. COMPLETION OF REQUIREMENTS FOR ONE OF THESE TASKS SATISFIES THE REQUIREMENTS FOR BOTH OF THESE TASKS.
477683 (416-2)		OFF U.S. EAST COAST	41°40'N, 72°30'W 41°40'N, 66°00'W 32°00'N, 75°00'W 32°00'N, 81°00'W		DESIRED	PHOTOS: ** 8 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: — O.L.: FILM: FILTER:	17 SEC.***	60 SEC.	—	—	SL-2* SL-3* SL-4*	1 1 1	>30°	<10%	*WHENEVER BLOOM IS IDENTIFIED AS OBSERVABLE. S191 - 5 SECONDS OF DATA FROM CENTROID OF OBSERVED BLOOM AREAS. THEN ACQUIRE 5 SECONDS OF DATA FROM ADJACENT WATER CLEAR OF CHLOROPHYLL BLOOM. S192 - BEGIN APPROXIMATELY 20 MILES INLAND FROM COAST; CONTINUE SEAWARD ABOUT 240 MILES.
	GT				MANDATORY	PHOTOS: ** 8 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: — O.L.: FILM: FILTER:	10 SEC.***	60 SEC.	—	—	ANY	1	>20°	<40%	**OPTIMUM EXPOSURES FOR WATER COLOR. ***TEST SITE COORDINATES ARE TO BE PROVIDED IN ADVANCE THROUGH MDS. NO SUN GLITTER.
478500 (240)		N.E. GULF OF MEXICO	31°30'N, 87°52'W 25°13'N, 81°06'W 24°08'N, 82°20'W 30°26'N, 89°10'W		DESIRED	PHOTOS: 12 O.L.: 50% FILM: STD FILTER: STD	PHOTOS: 18 O.L.: 50% FILM: EK3443 FILTER: W-12	133 SEC.	133 SEC.	—	133 SEC.	MAY AUG - SEP	1 1	30° -50°	0%	S190B - OPTIMUM EXPOSURES FOR WATER. PI DESIRES TRACK 62. PI REQUIRES AT LEAST 5 DAYS NOTIFICATION PRIOR TO SL OVERFLIGHT OF TEST SITE.
	A/C GT				MANDATORY	PHOTOS: 12 O.L.: 50% FILM: STD FILTER: STD	PHOTOS: 18 O.L.: 50% FILM: EK3443 FILTER: W-12	111 SEC.	111 SEC.	—	111 SEC.	ANY	1	30° -50°	<30%	
479861 (568-1)		REFERENCE TASK 117	REFERENCE TASK 117		DESIRED *	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									*THIS TASK ASSOCIATED WITH TASKS 117, 147, 178, AND 409. COMPLETION OF REQUIREMENTS FOR ANY ONE OF THESE TASKS SATISFIES THE REQUIREMENTS FOR ALL THESE TASKS.
					MANDATORY *	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
481871 (518)		EASTERN ATLANTIC OCEAN ADJACENT TO THE NORTHWEST COAST OF AFRICA	30°00'N, 10°00'W 30°00'N, 20°00'W 14°00'N, 17°00'W 14°00'N, 22°00'W		DESIRED	PHOTOS: ** 10 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: ** 13 O.L.: 60% FILM: S0242 FILTER: —	10 SEC.*	75 SEC.	—	—	SL-2 SL-3 SL-4	1 1 1	>30°	≤10%	S190A, S190B, AND S192 - COVER WATER COLOR CHANGES AND LAND/WATER INTERFACES. IF WATER BOUNDAR IS NOT VISIBLE, LOCK IN NADIR TRACK. AVOID SUN GLITTER. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 80% TO TASK/SITE 481871, 10% TO TASK/SITE 481914 AND 10% TO TASK/SITES 481904 AND 481909. *UPWELLING SITE TO BE PROVIDED IN ADVANCE BY THE PI. DESIRE 5 SECONDS OF S191 DATA ON EACH SIDE OF UPWELL COLOR BOUNDARY. **OPTIMUM EXPOSURES FOR WATER COLOR. THIS TASK IS ASSOCIATED WITH 476871. COMPLETION OF REQUIREMENTS FOR ONE OF THESE TASKS SATISFIES THE REQUIREMENTS FOR BOTH OF THESE TASKS.
					MANDATORY	PHOTOS: ** 10 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: ** 13 O.L.: 60% FILM: S0242 FILTER: —	10 SEC.*	75 SEC.	—	—	ANY	2	>20°	<70% <50%	
481914 (518)		WESTERN INDIAN OCEAN ADJACENT TO THE NORTHEAST COAST OF AFRICA	09°00'-15°00'N, 50°00'-53°00'E		DESIRED	PHOTOS: ** 2 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: ** 3 O.L.: 15% FILM: S0242 FILTER: —	10 SEC.*	10 SEC.	—	—	AUG - SEP	5	>30°	≤30%	S191 - HOLD OVER EACH SIDE OF WATER COLOR BOUNDARIES AS THEY APPEAR DURING PASS. S192 - COVER WATER COLOR CHANGES NEAR COAST. AVOID SUN GLITTER. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 80% TO TASK/SITE 481871, 10% TO TASK/SITE 481914 AND 10% TO TASK/SITES 481904 AND 481909. IF WATER BOUNDARY IS NOT VISIBLE, LOCK IN NADIR TRACK.
					MANDATORY	PHOTOS: ** 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: ** 2 O.L.: 10% FILM: S0242 FILTER: —	10 SEC.*	10 SEC.	—	—	AUG - SEP	2	>20°	<70%	*UPWELLING SITE TO BE PROVIDED IN ADVANCE BY THE PI. DESIRE 5 SECONDS OF S191 DATA ON EACH SIDE OF UPWELLING COLOR BOUNDARY. **OPTIMUM EXPOSURES FOR WATER COLOR.
481904 (518)		WESTERN INDIAN OCEAN ADJACENT TO THE COAST OF ARABIA	13°00'-17°00'N, 50°00'-52°00'E		DESIRED	PHOTOS: ** 2 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: ** 3 O.L.: 15% FILM: S0242 FILTER: —	10 SEC.*	10 SEC.	—	—	AUG - SEP	5	>30°	≤10%	S191 - HOLD OVER EACH SIDE OF WATER COLOR BOUNDARIES AS THEY APPEAR DURING PASS. S192 - COVER WATER COLOR CHANGES NEAR COAST. AVOID SUN GLITTER. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 80% TO TASK/SITE 481871, 10% TO TASK/SITE 481914 AND 10% TO TASK/SITES 481904 AND 481909. IF WATER BOUNDARY IS NOT VISIBLE, LOCK IN NADIR TRACK.
					MANDATORY	PHOTOS: ** 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: ** 2 O.L.: 10% FILM: S0242 FILTER: —	10 SEC.*	10 SEC.	—	—	AUG - SEP	2	>20°	<70%	*UPWELLING SITE TO BE PROVIDED IN ADVANCE BY THE PI. DESIRE 5 SECONDS OF S191 DATA ON EACH SIDE OF UPWELL COLOR BOUNDARY. ** OPTIMUM EXPOSURES FOR WATER COLOR.
481909 (518)		WESTERN INDIAN OCEAN ADJACENT TO THE COAST OF ARABIA	18°00'-22°00'N 58°00'-60°00'E		DESIRED	PHOTOS: ** 2 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: ** 3 O.L.: 15% FILM: S0242 FILTER: —	10 SEC.*	10 SEC.	—	—	AUG - SEP	5	>30°	≤10%	S191 - HOLD OVER EACH SIDE OF WATER COLOR BOUNDARIES AS THE APPEAR DURING PASS. S192 - COVER WATER COLOR CHANGES NEAR COAST. AVOID SUN GLITTER. INVESTIGATOR ASSIGNED WEIGHTING FACTORS OF 80% TO TASK/SITE 481871, 10% TO TASK/SITE 481914 AND 10% TO TASK/SITES 481904 AND 481909. IF WATER BOUNDARY IS NOT VISIBLE, LOCK IN NADIR TRACK.
					MANDATORY	PHOTOS: ** 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: ** 2 O.L.: 10% FILM: S0242 FILTER: —	10 SEC.*	10 SEC.	—	—	AUG - SEP	2	>20°	<70%	*UPWELLING SITE TO BE PROVIDED IN ADVANCE BY THE PI. DESIRE 5 SECONDS OF S191 DATA ON EACH SIDE OF UPWELLING COLOR BOUNDARY. **OPTIMUM EXPOSURES FOR WATER COLOR.

FOLDOUT FRAME 1

FOLDOUT FRAME 2

500 Series

ATMOSPHERIC INVESTIGATIONS

Various meteorological investigations, including mesoscale cloud features, orographical effect on the formation of mesoscale disturbance, solar and terrestrial radiation measurements, aerosol concentrations, cloud statistics and characteristics, day/night detection of cirrus clouds and other particulates, severe storm environments, and stratospheric aerosol concentrations as a function of altitude.

Purposes

Task

501 Establish ocean surface parameters to predict movement and intensity of tropical storms. Correlate, particularly in tropical storm situations, Skylab sensor data acquired over selected areas with ocean surface features. Examine areas ahead of and behind the track of a hurricane to note the effect of hurricane phenomena on surface waters. Using S190 photographs, and S191, S192, and S194 radiance data, perform detailed analysis of sea and atmospheric environment in which a tropical storm existed and/or crossed, determine the redistribution of water temperature in the ocean surface in response to the passage of a severe tropical storm, and analyze water color differences using visual and computer methods.

502 Provide significant information to improve storm predictions and warning systems. Correlate data from the Skylab sensors (S190 photography and data from the S191, S192, S193, and S194 in terms of absolute radiance) with data from an extensively instrumented network of ground stations and radar directed aircraft, and examine the role that various aspects of the atmospheric environment have on severe storm growth.

503 Acquire a set of three-dimensional cloud statistics most representative of global cloudiness. Determine cloud top heights and cloud types. Identify cloud characteristics associated with significant weather activity. Acquire S190 photographs of sea surface and cloud formations. Acquire S191 and S192 radiance data from cloud tops and the atmosphere.

504 Evaluate the capability to infer the cloud top pressure level, the density and phase of the condensed water in the cloud, a drop size parameter, and the cloud's thickness, both optical and geometrical using cloud radiance measurements in five spectral regions as sensed by S191.

505 Determine relationships between outgoing terrestrial radiation (collected by satellites) and various meteorological phenomena, es-

sentially cumuliform cloud organization (open or closed cells, cloud rows), rain distribution and snow melting using S190 photography and S192 and S193 radiance data.

506 Clarify orographical effect on the formation of mesoscale disturbance and make a map of snow line and snow area.

516 Test the accuracy of theoretical atmospheric radiation transfer models by studying aerosol concentrations as a function of time and their influence on target reflectances using photographs (S190), multispectral scanner radiance data (S192), and spectroradiometric data (S191) collected over specific test sites.

517 Determine the effects of atmospheres of various characteristics on the transfer of radiant energy. Determine the accuracy and applicability of one or more models of radiation transfer through air masses of different characteristics including various amounts of wet and dry aerosols.

518 Determine stratospheric attenuation coefficients, number density, and aerosol size distributions, all as a function of altitude.

519 Determine the attenuation of radiation in the visible and near IR regions caused by the earth's atmosphere over industrialized and non-industrialized sites.

531

546 Develop methods to permit operational satellites to collect their own correction data through comparison of mathematical inversion to extract temperature and water vapor vertical distribution profiles from observed radiances used to calculate attenuation effects in atmospheric windows, spectra of target taken at two or more angles to yield gross atmospheric effects directly, and ratio of radiances in wing of water vapor band and nearby clear region to yield total water vapor amounts.

547 Improve the usefulness of remote sensing data in earth resources surveys by experimentally evaluating the radiative effects of the atmosphere on such measurements from spacecraft altitudes in order to develop interpretative techniques of high resolution multispectral observation to eliminate atmospheric effects. Evaluate the efficacy of climatological modeling techniques in determining atmospheric attenuation effects using S190A and S190B photographs.

548 Determine effects of different atmospheric conditions on ability of computers to recognize terrain classes. Provide information necessary to devise correction techniques for preprocessing data and define weather conditions for collection of usable spacecraft multispectral data. Apply multispectral data processing techniques to Skylab S192 data to demonstrate the effects of varying atmospheric conditions on

the ability of likelihood ratio pattern recognition processors to recognize scene materials by their spectral signatures. Compare probabilities of misclassification (a measure of object discriminability) for objects using spacecraft data and ground or aircraft data. Compare with ground or low altitude aircraft data to provide a base level of object discriminability. Correlate with weather conditions to attempt to define those conditions under which usable data can be obtained. Generate recognition maps to graphically illustrate the effects of varying atmospheric conditions.

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Table B6-1. Atmospheric Investigations (500 Series)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
501597 (599)		GULF OF MEXICO/ CARIBBEAN SEA (HURRICANE CONDITIONS*)	10°00'N, 60°00'W 10°00'N, 85°00'W 20°00'N, 97°00'W 30°00'N, 60°00'W 30°00'N, 97°00'W		DESIRED	PHOTOS: 18 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 38 O.L.: 60% FILM: S0242 FILTER: —	430 SEC.	190 SEC.	—	430 SEC.	JUL - AUG	3	>70°	<10%	*AREAS AHEAD OF AND BEHIND THE PATH OF HURRICANE WILL BE EXAMINED AS WELL AS ACTUAL HURRICANE CONDITIONS UNDER THE SAME SENSOR REQUIREMENTS AND TEST CONDITIONS. OPTIMUM EXPOSURE FOR WATER COLOR DATA SHOULD BE USED FOR S190A AND S190B PHOTOGRAPHY. WEIGHTING FACTOR: 50%
					MANDATORY	PHOTOS: 10 O.L.: 10% FILM: STD FILTER: STD	—	215 SEC.	80 SEC.	—	—	ANY	1	>30°	<50%	
501941 (599)		PHILIPPINE SEA (TYPHOON CONDITIONS*)	05°00'- 30°00'N 125°00'-145°00'W		DESIRED	PHOTOS: 18 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 38 O.L.: 60% FILM: S0242 FILTER: —	430 SEC.	190 SEC.	—	430 SEC.	JUL - AUG	3	>70°	<10%	*THE UNIQUE TEST CONDITIONS FOR THIS TASK ARE IDENTICAL TO TASK/SITE 501597 ABOVE EXCEPT TYPHOON REPLACES HURRICANE CONDITIONS. WEIGHTING FACTOR: 20%
					MANDATORY	PHOTOS: 10 O.L.: 10% FILM: STD FILTER: STD	—	215 SEC.	80 SEC.	—	—	ANY	1	>30°	<50%	
501699 (599)		S.W. ATLANTIC (TYPHOON OR HURRICANE CONDITIONS*)	05°00'-30°00'N 30°00'-60°00'W		DESIRED	PHOTOS: 18 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 38 O.L.: 60% FILM: S0242 FILTER: —	430 SEC.	190 SEC.	—	430 SEC.	ANY	3	>70°	<10%	*THE UNIQUE TEST CONDITIONS FOR THIS TASK ARE IDENTICAL TO TASK/SITE 501597 ABOVE EXCEPT TYPHOON OR HURRICANE REPLACES HURRICANE CONDITIONS. WEIGHTING FACTOR: 10%
					MANDATORY	PHOTOS: 10 O.L.: 10% FILM: STD FILTER: STD	—	215 SEC.	80 SEC.	—	—	ANY	1	>30°	<50%	
501956 (599)		INDIAN OCEAN (TYPHOON OR HURRICANE CONDITIONS*)	05°00'- 30°00'S 60°00'-105°00'E		DESIRED	PHOTOS: 18 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 38 O.L.: 60% FILM: S0242 FILTER: —	430 SEC.	190 SEC.	—	430 SEC.	ANY	3	>70°	<10%	*THE UNIQUE TEST CONDITIONS FOR THIS TASK ARE IDENTICAL TO TASK/SITE 501597 ABOVE EXCEPT TYPHOON OR HURRICANE REPLACES HURRICANE CONDITIONS. WEIGHTING FACTOR: 10%
					MANDATORY	PHOTOS: 10 O.L.: 10% FILM: STD FILTER: STD	—	215 SEC.	80 SEC.	—	—	ANY	1	>30°	<50%	
501986 (599)		PACIFIC TROPICS (TYPHOON OR HURRICANE CONDITIONS*)	25°00'S-25°00'N 135°00'W-145°00'E		DESIRED	PHOTOS: 18 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 38 O.L.: 60% FILM: S0242 FILTER: —	430 SEC.	190 SEC.	—	430 SEC.	ANY	3	>70°	<10%	*THE UNIQUE TEST CONDITIONS FOR THIS TASK ARE IDENTICAL TO TASK/SITE 501597 ABOVE EXCEPT TYPHOON OR HURRICANE REPLACES HURRICANE CONDITIONS. WEIGHTING FACTOR: 10%
					MANDATORY	PHOTOS: 10 O.L.: 10% FILM: STD FILTER: STD	—	215 SEC.	80 SEC.	—	—	ANY	1	>30°	<50%	
502333 (582)	A/C GT	OKLAHOMA CITY, OKLA. (STORM CONDITIONS)	35°00'-35°42'N, 97°23'-98°11'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	30 SEC. RAD CTC	30 SEC.	MAY - JUN	2	>20°	>50%	PI HAS ASSIGNED WEIGHTING FACTOR OF 40% TO TASK/SITES 502333 AND 502395 JOINTLY (STORM CONDITIONS ONLY) AND THIS IS RELATIVE TO FOLLOWING TASK/ SITES WITH 502 PREFIX. REFER TO EACH TASK/SITE UNIQUE TEST CONDITIONS COMMENT(S) FOR INDIVIDUAL WEIGHTING FACTOR(S). *S191 - TRACK CLOUD TOWERS AND ANVIL TOP ON CLOUD TOP, AND CLEAR AREA NEAR CLOUD. 5 SEC./SITE MINIMUM IS REQUIRED.
	GT				MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD OR	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	—	—	MAY - JUL	1	>20°	>50%	
	A/C GT	(PRE-INCIPIENT STORM CONDITION)			DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	30 SEC. RAD CTC	30 SEC.	MAY - JUN	2	>20°	<50%	PI HAS ASSIGNED A WEIGHTING FACTOR OF 30% TO TASK/SITES 502333 AND 502395 JOINTLY (PRE-INCIPIENT STORM CONDITION ONLY). *S191 - REQUIRES REAL TIME INPUT REGARDING PROPER WEATHER CONDITIONS FOR THE TEST SITE AND DEFINITION AS TO THE MOST DESIRABLE OF THE FOLLOWING S191 SITES: 502350 FORT COBB RESERVOIR (35°11'N, 98°29'W) 502351 LAKE OVERHOLZER (35°30'N, 97°41'W) 502352 LAKE HEFNER (35°34'N, 97°36'W) 502353 AGRICULTURAL AREA (35°18'N, 97°36'W) 502354 DOWNTOWN AREA (35°27'N, 97°31'W) 502355 STANLEY DRAPER RESERVOIR (35°21'N, 97°21'W) 502356 LAKE THUNDERBIRD (35°14'N, 97°14'W)
	GT				MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD OR	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	—	—	MAY - JUL	1	>20°	<90%	

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FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B6-1. Atmospheric Investigations (500 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
502395 (582)		OKLAHOMA, KANSAS, TEXAS (STORM CONDITIONS)	32°00'- 40°00'N 96°00'-102°00'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	30 SEC. RAD CTC	30 SEC.	MAY - JUN	2	>20°	>50%	REFER TO TASK/SITE 502333 COMMENT ABOVE REGARDING WEIGHTING FACTOR FOR STORM CONDITIONS ONLY. *S191 - TRACK CLOUD TOWERS AND ANVIL TOP ON CLOUD TOP, AND CLEAR AREA NEAR CLOUD. *S191 - 5 SEC./SITE MINIMUM IS REQUIRED.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD OR	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	—	—	MAY - JUL	1	>20°	>50%	
		(PRE-INCIPIENT STORM CONDITION)			DESIRED	IM: PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	30 SEC. RAD CTC	30 SEC.	MAY - JUN	2	>20°	<50%	REFER TO TASK/SITE 502333 COMMENT REGARDING WEIGHTING FACTOR FOR PRE-INCIPIENT STORM CONDITION ONLY. *S191 - TRACK LARGE LAKES AND LARGE FIELDS (BARREN AND WITH CROPS). *S191 - 5 SEC./SITE MINIMUM IS REQUIRED.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD OR	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	—	—	MAY - JUL	1	>20°	<90%	
502957 (582)		INDONESIA (STORM CONDITIONS)	15°00'N,105°00'E 09°00'S,110°00'E 00°00'N, 91°00'E		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	30 SEC. RAD CTC	30 SEC.	SL-3	2	>20°	>50%	PI HAS ASSIGNED A WEIGHTING FACTOR OF 15% TO TASK/SITES 502957 AND 502867 JOINTLY. *S191 - TRACK CLOUD TOWERS AND ANVIL TOP ON CLOUD TOP, AND CLEAR AREA NEAR CLOUD. *S191 - 5 SEC./SITE MINIMUM IS REQUIRED. TASK/SITES 502957 AND 502867 NEED NOT BE ACCOMPLISHED IF TASK/SITES 502333 AND 502395 ARE SUCCESSFUL; IF NOT, PASSES WILL BE CARRIED OVER TO TASK/SITES 502957 AND 502867.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD OR	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	—	—	APR - SEP	1	>20°	>50%	
		OR														
502867 (582)		AFRICA (STORM CONDITIONS)	10°00'N, 30°00'E 10°00'S, 20°00'E 07°00'N, 07°00'E		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	30 SEC. RAD CTC	30 SEC.	SL-3	2	>20°	>50%	REFER TO TASK/SITE 502957 ABOVE FOR WEIGHTING FACTOR ASSIGNMENT AND COMMENT REGARDING ACCOMPLISHMENT OF THIS TASK/SITE. *S191 - TRACK CLOUD TOWERS AND ANVIL TOP ON CLOUD TOP, AND CLEAR AREA NEAR CLOUD. *S191 - 5 SEC./SITE MINIMUM IS REQUIRED.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD OR	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	—	—	MAY - SEP	1	>20°	>50%	
502772 (582)		SOUTH AMERICA (STORM CONDITIONS)	20°00'S, 65°00'W 05°00'S, 45°00'W 02°00'N, 85°00'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	30 SEC. RAD CTC	30 SEC.	SL-4	2	>20°	>50%	PI HAS ASSIGNED A WEIGHTING FACTOR OF 15% TO TASK/SITES 502772, 502958 AND 502866 TOGETHER. *S191 - TRACK CLOUD TOWERS AND ANVIL TOP ON CLOUD TOP, AND CLEAR AREA NEAR CLOUD. TASK/SITES 502772, 502958 AND 502866 NEED NOT BE ACCOMPLISHED IF TASK/SITES 502333 AND 502395 OR TASK/SITES 502957 AND 502867 ARE SUCCESSFUL; IF NOT, PASSES WILL BE CARRIED OVER TO TASK/SITES 502772, 502958 AND 502866. *S191 - 5 SEC./SITE MINIMUM IS REQUIRED.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD OR	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	—	—	OCT - MAR	1	>20°	>50%	
		OR														
502958 (582)		INDONESIA (STORM CONDITIONS)	05°00'S, 160°00'E 20°00'S, 120°00'E 10°00'N, 90°00'E 02°00'N, 135°00'E		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	30 SEC. RAD CTC	30 SEC.	SL-4	2	>20°	>50%	REFER TO TASK/SITE 502772 ABOVE FOR WEIGHTING FACTOR ASSIGNMENT AND COMMENT REGARDING ACCOMPLISHMENT OF THIS TASK/SITE. *S191 - TEST CONDITIONS SAME AS TASK/SITE 502772. *S191 - 5 SEC./SITE MINIMUM IS REQUIRED.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD OR	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	—	—	OCT - MAR	1	>20°	>50%	
		OR														
502866 (582)		AFRICA (STORM CONDITIONS)	30°00'S, 10°00'E 30°00'S, 55°00'E 07°00'S, 55°00'E 00°00'S, 10°00'E		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	30 SEC. RAD CTC	30 SEC.	SL-4	2	>20°	>50%	REFER TO TASK/SITE 502773 ABOVE FOR WEIGHTING FACTOR ASSIGNMENT AND COMMENT REGARDING ACCOMPLISHMENT OF THIS TASK/SITE. *S191 - TEST CONDITIONS SAME AS TASK/SITE 502772. *S191 - 5SEC./SITE MINIMUM IS REQUIRED.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD OR	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	*	30 SEC.	—	—	OCT - MAR	1	>20°	>50%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:				—					
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:										

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B6-1. Atmospheric Investigations (500 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
503437 (556-1)		TROPICS INTERTROPICAL CONVERGENCE ZONE (ITCZ) OVER WATER	05°00'N, 75°00'W 05°00'N, 10°00'W 30°00'N, 10°00'W 30°00'N, 110°00'W		DESIRED	PHOTOS: 25 O.L.: 60% FILM: STD FILTER: STD	--	192 SEC.*	192 SEC.**	--	--	SL-2 SL-3	1 1	20° 70°	>10%	PI DESIRES TO SPECIFY REAL-TIME SITES FOR PASS SCHEDULING. *S191 - SITES WILL BE SEA SURFACE IN CLEAR AREA NEAR CLOUDS AND FEATURES ON TOP OF CLOUDS. DATA MAY BE ACQUIRED WITH VTS HELD AT NADIR IF OVER OVERCAST CLOUDS. *S191-VTS IS TO BE AT NADIR. **S192-DATA IS DESIRED ON ONE OF FOUR ITCZ TASKS. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 25 O.L.: 60% FILM: STD FILTER: STD	--	192 SEC.*	192 SEC.**	--	--	SL-2 SL-3	1 1	20° 70°	>10%	
		TROPICS TRADEWIND CUMULUS			DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD OR PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12		72 SEC.*	--	--	--	SL-2 SL-3	1 1	20° 60°	>10%	*S191-VTS IS TO BE AT NADIR. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD OR PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12		72 SEC.*	--	--	--	SL-2 SL-3	1 1	20° 70°	>10%	
		TROPICS CLOUDS, EASTERLY WAVE			DESIRED	PHOTOS: 20 O.L.: 60% FILM: STD FILTER: STD	--	152 SEC.*	152 SEC.**	--	--	SL-2	1	>20°	>30%	*S191-VTS IS TO BE AT NADIR. **S192-DATA IS DESIRED ON ONE OF THE EASTERLY WAVE PASSES. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 20 O.L.: 60% FILM: STD FILTER: STD	--	152 SEC.*	152 SEC.**	--	--	SL-2	1	>20°	>30%	
		TROPICS CLOUDS, EASTERLY WAVE			DESIRED	PHOTOS: 20 O.L.: 60% FILM: STD FILTER: STD	--	152 SEC.*	152 SEC.**	--	--	SL-3	2	>20°	>30%	*S191-VTS IS TO BE AT NADIR. **S192-DATA IS DESIRED ON ONE OF THE EASTERLY PASSES PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 20 O.L.: 60% FILM: STD FILTER: STD	--	152 SEC.*	152 SEC.**	--	--	SL-3	2	>20°	>30%	
		TROPICS TROPICAL CYCLONE			DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	--	72 SEC.*	--	--	--	SL-3	2	>20°	>20%	*S191-VTS IS TO BE AT NADIR. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	--	72 SEC.*	--	--	--	SL-3	2	>20°	>20%	
503719 (556-1)		SOUTH AMERICA INTERTROPICAL CONVERGENCE ZONE (ITCZ) OVER LAND	10°00'N, 45°00'W 10°00'N, 80°00'W 45°00'S, 80°00'W 25°00'S, 45°00'W		DESIRED	PHOTOS: 25 O.L.: 60% FILM: STD FILTER: STD	--	192 SEC.*	192 SEC.**	--	--	SL-3	1	20° 70°	>10%	*S191-VTS IS TO BE AT NADIR. **S192-DATA IS DESIRED ON ONE OF FOUR ITCZ TASKS. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 25 O.L.: 60% FILM: STD FILTER: STD	--	192 SEC.*	192 SEC.**	--	--	SL-3	1	20° 70°	>10%	
		SOUTH AMERICA COASTAL STRATUS			DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD OR PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12		72 SEC.*	--	--	--	SL-3	1	20° 70°	>40%	*S191-VTS IS TO SCAN FROM 45° FORWARD TO 10° BEHIND. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD OR PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12		72 SEC.*	--	--	--	SL-3	1	20° 70°	>40%	
		SOUTH AMERICA CUMULUS OVER LAND			DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD OR PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12		72 SEC.*	--	--	--	SL-3	1	20° 70°	>10%	*S191-VTS IS TO BE AT NADIR. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD OR PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12		72 SEC.*	--	--	--	SL-3	1	20° 70°	>10%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B6-1. Atmospheric Investigations (500 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	SENSOR REQUIREMENTS S191	SENSOR REQUIREMENTS S192	SENSOR REQUIREMENTS S193	SENSOR REQUIREMENTS S194	TEST CONDITIONS SEASONAL REQUIREMENTS	TEST CONDITIONS NUMBER PASSES	TEST CONDITIONS SUN ANGLE	TEST CONDITIONS CLOUD COVER	UNIQUE TEST CONDITIONS
503936 (556-1)		EAST PACIFIC INTERTROPICAL CONVERGENCE ZONE (ITCZ) OVER LAND	10°00'S- 10°00'N 105°00'E-125°00'E		DESIRED	PHOTOS: 25 O.L.: 60% FILM: STD FILTER: STD	--	192 SEC.*	192 SEC.**	--	--	SL-4	1	20° 70°	>10%	*S191-VTS IS TO BE AT NADIR. **S192-DATA IS DESIRED ON ONE OF FOUR ITCZ TASKS. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 25 O.L.: 60% FILM: STD FILTER: STD	--	192 SEC.*	192 SEC.**	--	--	SL-4	1	20° 70°	>10%	
503776 (556-1)		SOUTH ATLANTIC TRADEWINDS AND CUMULUS	15°00'S, 00°00'W 50°00'S, 00°00'W 50°00'S, 65°00'W 15°00'S, 35°00'W		DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	OR PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12	72 SEC.*	--	--	--	SL-4	1	20° 60°	>10%	*S191-VTS IS TO BE AT NADIR. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	OR PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12	72 SEC.*	--	--	--	SL-4	1	20° 70°	>10%	
		SOUTH ATLANTIC FRONTAL CLOUDS			DESIRED	PHOTOS: 30 O.L.: 60% FILM: STD FILTER: STD	--	232 SEC.*	--	--	--	SL-4	1	20° 60°	>30%	*S191-VTS IS TO SCAN FROM 45° FORWARD TO 10° BEHIND FOR ONE OF THREE FRONTAL CLOUD TASKS, OTHERWISE VTS IS TO BE AT NADIR. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 30 O.L.: 60% FILM: STD FILTER: STD	--	232 SEC.*	--	--	--	SL-4	1	20° 70°	>30%	
503409 (556-1)		CONTINENTAL U.S.	30°00'- 50°00'N, 70°00'-125°00'W		DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	OR PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12	72 SEC.*	--	--	--	SL-2	1	20° 60°	>40%	*S191-VTS IS TO SCAN FROM 45° FORWARD TO 10° BEHIND. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	OR PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12	72 SEC.*	--	--	--	SL-2	1	20° 70°	>40%	
		CONTINENTAL U.S. FRONTAL CLOUDS			DESIRED	PHOTOS: 30 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12	232 SEC.*	--	--	--	SL-2	1	20° 60°	>30%	*S191-VTS IS TO SCAN FROM 45° FORWARD TO 10° BEHIND FOR ONE OF THREE FRONTAL CLOUD TASKS, OTHERWISE VTS IS TO BE AT NADIR. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 30 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12	232 SEC.*	--	--	--	SL-2	1	20° 70°	>30%	
		CONTINENTAL U.S. JET STREAM CIRRUS			DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	--	72 SEC.*	72 SEC.**	--	--	SL-2 SL-4	1 1	20° 60°	>20%	*S191-VTS IS TO BE AT NADIR. **S192-DATA IS DESIRED ON ONE OF TWO PASSES. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	--	72 SEC.*	72 SEC.**	--	--	SL-2 SL-4	1 1	20° 70°	>20%	
		CONTINENTAL U.S. CUMULUS OVER LAND			DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	OR PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12	72 SEC.*	--	--	--	SL-2 SL-3	1 1	20° 70°	>10%	*S191-VTS IS TO BE AT NADIR. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	OR PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12	72 SEC.*	--	--	--	SL-2 SL-3	1 1	20° 70°	>10%	
		CONTINENTAL U.S. SEVERE LOCAL STORMS			DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	--	72 SEC.*	72 SEC.**	--	--	SL-2	3	>20°	>20%	*S191-VTS IS TO BE AT NADIR. **S192-DATA IS REQUIRED ON ONE OF THREE PASSES. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	--	72 SEC.*	72 SEC.**	--	--	SL-2	3	>20°	>20%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B6-1. Atmospheric Investigations (500 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	SENSOR REQUIREMENTS S191	SENSOR REQUIREMENTS S192	SENSOR REQUIREMENTS S193	SENSOR REQUIREMENTS S194	TEST CONDITIONS SEASONAL REQUIREMENTS	TEST CONDITIONS NUMBER PASSES	TEST CONDITIONS SUN ANGLE	TEST CONDITIONS CLOUD COVER	UNIQUE TEST CONDITIONS
503691 (556-1)		NORTH ATLANTIC FRONTAL CLOUDS	32°00'N, 55°00'W 32°00'N, 81°00'W 50°00'N, 75°00'W 50°00'N, 10°00'W		DESIRED	PHOTOS: 30 O.L.: 60% FILM: STD FILTER: STD	--	232 SEC.*	--	--	--	SL-3	1	20° 60°	>30%	*S191-VTS IS TO SCAN FROM 45° FORWARD TO 10° BEHIND FOR ONE OF THREE FRONTAL CLOUD TASKS, OTHERWISE VTS IS TO BE AT NADIR. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 30 O.L.: 60% FILM: STD FILTER: STD	--	232 SEC.*	--	--	--	SL-3	1	20° 70°	>30%	
		NORTH ATLANTIC CLOUDS IN COLD AIR			DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD OR PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12		72 SEC.*	--	--	--	SL-2 SL-3 SL-4	1 1 1	20° 60°	>20%	*S191-VTS IS TO BE AT NADIR. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD OR PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12		72 SEC.*	--	--	--	SL-2 SL-3 SL-4	1 1 1	20° 70°	>20%	
		NORTH ATLANTIC CLOUDS IN COLD CORE LOW SYSTEM			DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD OR PHOTOS: 10 O.L.: 60% FILM: ED3414 FILTER: W-12		72 SEC.*	--	--	--	SL-2 SL-4	1 1	20° 60°	>10%	*S191-VTS IS TO BE AT NADIR. PROPER WEATHER CONDITIONS FOR DATA TAKING ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD OR PHOTOS: 10 O.L.: 60% FILM: EK3414 FILTER: W-12		72 SEC.*	--	--	--	SL-2 SL-4	1 1	20° 70°	>10%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B6-1. Atmospheric Investigations (500 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	SENSOR REQUIREMENTS S191	SENSOR REQUIREMENTS S192	SENSOR REQUIREMENTS S193	SENSOR REQUIREMENTS S194	TEST CONDITIONS SEASONAL REQUIREMENTS	TEST CONDITIONS NUMBER PASSES	TEST CONDITIONS SUN ANGLE	TEST CONDITIONS CLOUD COVER	UNIQUE TEST CONDITIONS
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
504147 (9611)		CALIFORNIA COASTAL REGION	42°00'N, 125°30'W 38°00'N, 125°30'W 34°00'N, 122°00'W 32°00'N, 119°00'W 32°00'N, 116°00'W 36°00'N, 120°00'W 41°00'N, 124°00'W 42°00'N, 124°00'W		DESIRED	--	--	60 SEC.*	--	--	--	ANY	6	>15°	80-100%	PI HAS ASSIGNED A WEIGHTING FACTOR OF 20% TO THIS TASK/SITE. THIS PRIORITY IS RELATIVE TO WEIGHTING FACTOR(S) ASSIGNED TO TASK/SITE 504997 WEATHER CONDITIONS BELOW. *S191 - ACQUIRE STRATUS 45° AHEAD AND HOLD TO NADIR.
					MANDATORY	--	--	60 SEC.*	--	--	--	ANY	3	>15°	>30%	
504408 (9611)	A/C	CONTINENTAL U.S.	30°00'- 50°00'N, 70°00'- 125°00'W		DESIRED	--	--	a) 60 SEC. b) 20 SEC. c) 40 SEC. d) 30 SEC.	--	--	--	a) ANY b) ANY c) ANY d) DEC - MAR	a) 6 ** b) 5 c) 4 d) 4	>15°	a)-c) 80-100% d) 0%	*THE FOLLOWING CLOUD/SNOW CONDITIONS SHALL BE ACQUIRED WITH THE RESPECTIVE S191 ACQUISITION AND TRACKING CONDITIONS IN ACCORDANCE WITH INDICATED WEIGHTING FACTOR(S) a) FRONTAL SYSTEMS (20%); S191 - NADIR CROSS SECTION. b) CUMULONIMBUS (20%); S191 - TRACK ANVIL AND MAIN CLOUD. c) CIRRUS CANOPIES WITH AND WITHOUT LOWER CLOUDS (20%); S191 - NADIR CROSS SECTION. d) SNOW FIELDS (20%); S191 - TRACK UNIFORM FIELD OF SNOW (DESIRES >50% SNOW; WILL ACCEPT >30%) **NOTE: A MULTIPLE OF THE ABOVE CONDITIONS MAY BE ACQUIRED ON THE SAME PASS.
					MANDATORY	--	--	a) 60 SEC. b) 10 SEC. c) 20 SEC. d) 20 SEC.	--	--	--	a) ANY b) ANY c) ANY d) DEC - MAR	a) 3 ** b) 3 c) 2 d) 2	>15°	>30% >30% >30% <30%	
505801 (008)		PYRENEES ACQUITAINE	42°00'N, 02°00'W 42°00'N, 04°00'E 45°00'N, 04°00'E 45°00'N, 02°00'W		DESIRED	PHOTOS: 3 O.L.: 20% FILM: STD* FILTER: STD	--	--	70 SEC.	--	--	SPRING	3	>30°	40-80%	PI HAS ASSIGNED A WEIGHTING FACTOR OF 25% TO THIS TASK/SITE. THIS PRIORITY IS RELATIVE TO THE FOLLOWING TASK/SITES WITH 505 PREFIX. REFER TO EACH TASK/SITE UNIQUE TEST CONDITIONS COMMENT(S) FOR INDIVIDUAL WEIGHTING FACTOR(S). *S190A - PI REQUIRES FILM FROM POSITIONS 4 AND 6 ONLY.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: STD* FILTER: STD	--	--	20 SEC.	--	--	ANY	1	>10°	>30%	
505802 (008)		ATLANTIC OCEAN-BAY OF BISCAY (OVER WATER 150 NM RADIUS CENTERED ON BREST)	48°24'N, 04°30'W		DESIRED	--	--	--	20 SEC.**/ 0 SEC.	60 SEC. RAD, CTC/ 60 SEC. * RAD, CTC	--	FALL - SPRING/ SPRING*	3/5*	ANY	100%/ 100%*	PI HAS ASSIGNED A WEIGHTING FACTOR OF 60% TO TASK/SITE 505802 AND 505803 JOINTLY. *DATA WILL BE ACQUIRED ACCORDING TO TWO SETS OF CONDITIONS, i.e., WITH AND WITHOUT ASTERISKS. DATA WITHOUT ASTERISK REQUIRES S192 AND S193, DATA WITH ASTERISK REQUIRES S193 ONLY. CTC WITHOUT ASTERISK WEIGHTING FACTOR: 35% CTC WITH ASTERISK WEIGHTING FACTOR: 15% **DATA TAKE WHERE S193 LAST TARGETED AT OR NEAR NADIR.
		— OR —			MANDATORY	--	--	--	20 SEC.**/ 0 SEC.	60 SEC. RAD, CTC/ 60 SEC. * RAD, CTC	--	ANY/ SPRING	2/1*	ANY	ANY/ ANY*	
505803 (008)		ATLANTIC OCEAN - BAY OF BISCAY (OVER WATER 150 NM RADIUS CENTERED ON BORDEAUX)	44°48'N, 00°36'W		DESIRED	--	--	--	20 SEC.**/ 0 SEC.	60 SEC. RAD, CTC/ 60 SEC. * RAD, CTC	--	FALL - SPRING/ SPRING*	3/5*	ANY	100%/ 100%*	REFER TO TASK/SITE 505802 UNIQUE TEST CONDITIONS ABOVE.
					MANDATORY	--	--	--	20 SEC.**/ 0 SEC.	60 SEC. RAD, CTC/ 60 SEC. * RAD, CTC	--	ANY/ SPRING	2/1*	ANY	ANY/ ANY*	
505804 (008)		ALPS	43°00'-46°00'N, 05°30'-07°30'E		DESIRED	PHOTOS: 2 O.L.: 50% FILM: STD* FILTER: STD	--	--	20 SEC.	--	--	SPRING	3	>45°	<40%	PI HAS ASSIGNED A WEIGHTING FACTOR OF 25% TO TASK/SITE 505804. PI DESIRES >0% SNOW COVER; MINIMUM ACCEPTABLE >0% SNOW COVER. PI PREFERS DATA OVER SMALLER SITE (44°30'-45°30'N). * S190A - PI REQUIRES FILM FROM POSITIONS 4 AND 6 ONLY.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD* FILTER: STD	--	--	20 SEC.	--	--	SPRING	1	>30°	<60%	
506907 (022)		JAPAN AND ADJACENT SEAS	41°00'N, 128°00'E 46°00'N, 138°00'E 46°00'N, 148°00'E 33°00'N, 143°00'E 28°00'N, 137°00'E 28°00'N, 128°00'E		DESIRED	PHOTOS: 21 O.L.: 50% FILM: STD FILTER: STD	PHOTOS: 30 O.L.: 50% FILM: EK3443 FILTER: W-12	--	--	225 SEC. RAD CTC ALL POLARIZATIONS	--	LATE SL-4	3	>30°	>50°	NONE SPECIFIED.
					MANDATORY	PHOTOS: 21 O.L.: 10% FILM: ANY FILTER: ANY	OR PHOTOS: 30 O.L.: 10% FILM: ANY FILTER: ANY	--	--	225 SEC. RAD CTC ALL POLARIZATIONS	--	SL-2 OR SL-4	1	>20°	>30%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B6-1. Atmospheric Investigations (500 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	SENSOR REQUIREMENTS S191	SENSOR REQUIREMENTS S192	SENSOR REQUIREMENTS S193	SENSOR REQUIREMENTS S194	TEST CONDITIONS SEASONAL REQUIREMENTS	TEST CONDITIONS NUMBER PASSES	TEST CONDITIONS SUN ANGLE	TEST CONDITIONS CLOUD COVER	UNIQUE TEST CONDITIONS
506908 (022)		JAPAN	36°00'N, 137°00'E 36°30'N, 140°30'E 35°00'N, 140°30'E 34°30'N, 138°00'E		DESIRED	PHOTOS: 21 O.L.: 50% FILM: STD FILTER: STD	PHOTOS: 30 O.L.: 50% FILM: EK3443 FILTER: W-12	5 SEC.* MT. FUJIAMA 506905 5 SEC.* TOKYO BAY 506910	45 SEC.**	225 SEC. RAD CTC*** ALL POLARIZATIONS	--	LATE SL-4 OR EARLY SL-2	3	>30°	0%	*S191 - ACQUIRE MT. FUJIAMA (506905) AT 45° PITCH FOR 5 SECONDS, THEN ALTERNATE TO TOKYO BAY (506910) FOR 5 SECONDS. **S192 - TURN S192 ON OVER MOUNTAIN AND BAY AS ACQUIRED. ***S193 - REQUIRES SCAN ANGLE OF 0° PITCH, 0° ROLL. PI DESIRES SNOW COVER >30%, MANDATORY >5%.
					MANDATORY	PHOTOS: 21 O.L.: 50% FILM: STD FILTER: STD	OR PHOTOS: 30 O.L.: 50% FILM: EK3443 FILTER: W-12	5 SEC.* MT. FUJIAMA 506905 5 SEC.* TOKYO BAY 506910	45 SEC.**	225 SEC/ RAD CTC*** ALL POLARIZATIONS	--	ANY	1	>20%	<30%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
516112 (450)	A/C	PISGAH CRATER	34°23'- 35°33'N, 115°45'-117°27'W		DESIRED	PHOTOS: 3 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 10% FILM: S0242 FILTER: -	24 SEC. 34°39'N, 116°22'W 516160	5 SEC.*	--	--	SL-3 AND SL-4	2 2	>30°	0%	PI HAS ASSIGNED A WEIGHTING FACTOR AT 50% EACH TO TASK/SITE 516112 AND 516528. *S192 DATA WILL BE ACQUIRED FOR THE S191 SITE.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: STD FILTER: STD	OR PHOTOS: 3 O.L.: 10% FILM: ANY FILTER: ANY	24 SEC. 34°39'N, 116°22'W 516160	5 SEC.*	--	--	ANY	1	>20°	<60%	
516528 (450)	A/C	LAKE MICHIGAN	42°00'-44°00'N, 86°45'-87°30'W		DESIRED	PHOTOS: 3 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 10% FILM: S0242 FILTER: --	24 SEC. (MIDDLE PORTION OF THE LAKE)	5 SEC.*	--	--	SL-3 AND SL-4	2 2	>30°	0%	REFER TO TASK/SITE 516112 ABOVE FOR WEIGHTING FACTOR. *S192 DATA WILL BE ACQUIRED FOR THE S191 SITE.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: STD FILTER: STD	OR PHOTOS: 3 O.L.: 10% FILM: ANY FILTER: ANY	24 SEC. (MIDDLE PORTION OF THE LAKE)	5 SEC.*	--	--	ANY	1	>20°	60%	
517401 (381)	A/C GT	HATS	28°00'-31°00'N, 94°00'-97°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 7 O.L.: 60% FILM: S0242 FILTER: --	7 SEC.*	38 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	>20°	0%	THE PI HAS ASSIGNED A WEIGHTING FACTOR OF 60% TO THIS TASK/SITE AND 40% TO TASK/SITE 517206. THE 60% IS DELINEATED AS 20% TO EACH SEASONAL REQUIREMENT, (i.e., a), b), AND c). *ANY TWO SITES (ONE CLEAR AND ONE POLLUTED) WILL BE SELECTED IN REAL TIME FROM THE FOLLOWING S191 TASK/SITES FOR EACH PASS. a) 517415 EAGLE LAKE - WATER (29°34'N, 96°21'W) b) 517420 ROSENBERG - RANGELAND (29°33'N, 95°57W) c) 517430 EAST HOUSTON - AEROSOL (29°47'00"N, 95°15'30"W) d) 517440 TRINITY BAY - SHALLOW WATER (29°39'N, 94°47'W) e) 517445 SHELL TOWER - OPEN OCEAN (28°53'N, 94°42'W) f) 517447 ANAHUAC - RICE FIELDS (29°43'N, 94°36'W) g) 517425 SAN BERNARD - WETLANDS (28°53'N, 95°32'W) h) 517410 LAKE SOMERVILLE - WATER (30°19'N, 96°34'W)
	A/C GT				MANDATORY	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	--	7 SEC.*	38 SEC.	--	--	ANY	1	>20°	<30%	
517206 (381)	A/C GT	ARETS	35°00'N, 112°30'W 35°00'N, 109°00'W 31°20'N, 111°00'W 31°45'N, 112°30'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 60% FILM: S0242 FILTER: --	7 SEC.*	20 SEC.	--	--	SL-2 SL-4	1 1	>20°	0%	THE PI HAS ASSIGNED A WEIGHTING FACTOR OF 40% TO THIS TASK/SITE AND 60% TO TASK/SITE 517401 ABOVE. THE 40% IS DELINEATED AS 20% TO EACH SEASONAL REQUIREMENT, i.e., a) AND b). *S191 TEST SITES: a) 517230, BUCKEYE (33°22'N, 112°39'W) b) 517235, WITTMAN (33°45'N, 112°27'W) c) 517240, RAINBOW VALLEY AIRPORT (33°12'N, 112°27'W) d) 517245, SIERRA ESTRELLA (33°08'N, 112°08'W) e) 517250, NORTH OF OLD VERDE CANAL (33°41'N, 111°59'W) f) 517255, SALT RIVER INDIAN RESERVATION (33°33'N, 111°48'W) g) 517260, WILLIAMS AFB PROVING GROUND (33°20'N, 111°37'W)
	A/C GT				MANDATORY	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	--	7 SEC.*	7 SEC.	--	--	ANY	1	>20°	<30%	
517267 (381)	A/C GT	FOUR CORNERS	36°30'- 37°30'N, 108°00'-109°30'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 60% FILM: S0242 FILTER: --	5 SEC.* 36°42'N, 108°29'W 517268	20 SEC.	--	--	SL-2 SL-4	1 1	>20°	0%	WEIGHTING FACTOR: 30% *S191 - NEED 5 SEC. OF DATA 30-40 NM DIRECTLY UPWIND AND 5 SEC. OF DATA 30-40 NM DIRECTLY DOWNWIND OF POWER PLANT SMOKE SOURCE. DURING THE DOWNWIND DATA TAKE, THE CREW IS REQUESTED TO TARGET ON THE PORTION OF THE PLUME WHERE IT HAS STARTED TO DIFFUSE. THE SMOKE SOURCE WILL BE TREATED AS A TARGET OF OPPORTUNITY WITH REAL TIME POINTING ANGLES UPLINKED TO THE CREW.
	A/C GT				MANDATORY	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 60% FILM: S0242 FILTER: --	5 SEC.* 36°42'N, 108°29'W 517268	20 SEC.	--	--	ANY	2	>20°	<30%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B6-1. Atmospheric Investigations (500 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
518999 (587)	A/C	LIMB OF THE EARTH TASK 1*	--		DESIRED	PHOTOS: *** 3 O.L.: 50% FILM: STD FILTER: STD	--	200 SEC. **	5 SEC.*** (CONCURRENT WITH S190A)	--	--	SL-2, SL-3, AND SL-4	3	—	<10%	*TASK 1 - ACQUIRE BACK-SCATTER DATA FROM THE EARTH'S LIMB WITH ONE SWEEP ACROSS HORIZON AS S/C MANEUVERS INTO OR FROM AN EREP DAY. S191 DATA TAKE IS TO START WHEN S/C IS 33° AWAY FROM TERMINATOR AND IS TO END ABOUT 13° FROM THE TERMINATOR. **SCAN EARTH'S LIMB ONCE EVERY 35 SEC. WHEN S/C IS BETWEEN 33° AND 20° FROM TERMINATOR. ***DATA IS TO BE TAKEN WHEN EARTH'S LIMB IS IN THE FIELD-OF-VIEW OF S190A AND S192.
					MANDATORY	PHOTOS: *** 3 O.L.: 50% FILM: STD FILTER: STD	--	200 SEC. **	5 SEC.*** (CONCURRENT WITH S190A)	--	--	ANY	1	—	ANY	
	A/C	LIMB OF THE EARTH TASK 2*			DESIRED	PHOTOS: 10 O.L.: 50% FILM: STD FILTER: STD	--	170 SEC.**	--	--	--	SL-2, SL-3, AND SL-4	9	—	<10%	*TASK 2 - ACQUIRE BACK-SCATTER DATA AND RADIANCE FROM SECTOR ABOVE ORBIT NEAR TERMINATOR. DATA TAKE IS TO START WHEN S/C IS 11.5° FROM TERMINATOR AND CONTINUE TO TERMINATOR. **POINT VTS OF S193 3° FORWARD OF MINUS Z AXIS JUST PRIOR TO THE BEGINNING OF THE DATA TAKE.
					MANDATORY	PHOTOS: 10 O.L.: 50% FILM: STD FILTER: STD	--	170 SEC.**	--	--	--	ANY	3	—	ANY	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
519267 (ED11)		FOUR CORNERS	36°30'- 37°30'N, 108°00'-109°30'W		DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									TASK/SITES 519267, 519337, AND 519401 REPRESENT THE STUDENT EXPERIMENT ED11 (REFERENCE MRD SECTION 3.2.5) AND WILL BE ACCOMPLISHED ON A DATA BASIS ONLY. THE SENSOR OPERATING TIMES/TEST CONDITIONS WILL BE THE SAME AS TASK/SITES 517267, 546337, AND 546401.
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
519337 (ED11)		WHITE SANDS	32°40'- 33°30'N, 106°08'-106°20'W		DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									SAME CONDITIONS AS 519267 ABOVE.
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
519401 (ED11)		HATS	28°00'- 31°00'N, 94°00'- 97°00'W		DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									SAME CONDITIONS AS 519267 ABOVE.
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
546337 (584)	A/C GT	WHITE SANDS AREA	32°40'- 33°30'N, 106°08'-106°20'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	40 SEC.*	10 SEC.	--	--	ANY	3	>40°	<20%	PI DESIRES 0% SNOW COVER; <10% SNOW COVER MANDATORY. *ACQUIRE AS MANY S191 SITES AS POSSIBLE PER PASS UNTIL ALL SITES LISTED BELOW HAVE BEEN ACQUIRED; AND THEN, REPEAT COVERAGE IS DESIRED. A MINIMUM OF 10 SEC. PER S191 SITE IS MANDATORY. 546320 WHITE SANDS GYPSUM BEDS (32°45'N, 106°17'W) 546325 DESERT NORTH OF GYPSUM BEDS (33°08'N, 106°17'W) 546330 MALPAIS LAVA FLOW (33°23'N, 106°17'W)
	A/C GT				MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	--	10 SEC.*	--	--	--	ANY	1	>20°	<30%	
546304 (584)	A/C GT	PADRE ISLAND	26°10'-26°50'N, 97°00'-97°30'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	40 SEC.*	10 SEC.	--	--	ANY	2	>40°	0%	PI REQUIRES (MANDATORY) 0% SNOW COVER. *ACQUIRE AS MANY S191 SITES AS POSSIBLE PER PASS UNTIL ALL SITES LISTED BELOW HAVE BEEN ACQUIRED; AND THEN, REPEAT COVERAGE IS DESIRED. A MINIMUM OF 10 SEC. PER S191 SITE IS MANDATORY. 546314 OPEN OCEAN OFF SHORE (26°20'N, 97°00'W)** 546308 SAND ON PADRE ISLAND (26°20'N, 97°10'W) 546305 VEGETATION ON MAINLAND (26°20'N, 97°30'W) **546307 LAGUNA MADRE (26°20'N, 97°20'W) IS ACCEPTABLE IF HELICOPTER OPERATIONS OVER OPEN OCEAN ARE NOT PERMITTED.
	A/C GT				MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	--	10 SEC.*	--	--	--	ANY	1	>20°	<30%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B6-1. Atmospheric Investigations (500 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
546401 (584)	A/C GT	HATS	28°00'-31°00'N, 94°00'-97°00'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: -- O.L.: FILM: FILTER:	40 SEC.*	10 SEC.	--	--	ANY	3	>30°	<20%	PI REQUIRES (MANDATORY) 0% SNOW COVER. *ACQUIRE AS MANY S191 SITES AS POSSIBLE PER PASS UNTIL ALL SITES LISTED BELOW HAVE BEEN ACQUIRED; AND THEN, REPEAT COVERAGE IS DESIRED. A MINIMUM OF 10 SEC. PER S191 SITE IS MANDATORY. 546410 LAKE SOMERVILLE - WATER (30°19'N, 96°34'W) 546415 EAGLE LAKE - WATER (29°34'N, 96°21'W) 546420 ROSENBERG - RANGELAND (29°33'N, 95°57'W) 546425 SAN BERNARD BASIN - WETLANDS (28°53'N, 95°32'W) 546430 EAST HOUSTON - AEROSOL (29°47'00"N, 95°15'30"W) 546440 TRINITY BAY - SHALLOW WATER (29°39'N, 94°47'W) 546445 SHELL TOWER - OPEN OCEAN (28°53'N, 94°42'W) 546450 SABINE NATIONAL FOREST - PINE (31°16'N, 93°41'W)
	A/C GT				MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	--	10 SEC.*	--	--	--	ANY	2	>20°	<40%	
547119 (439)		IMPERIAL VALLEY	31°00'- 34°00'N, 113°00'-116°00'W		DESIRED	PHOTOS: 1 O.L.: -- FILM: STD FILTER: STD	PHOTOS: 1 O.L.: -- FILM: SO242 FILTER: --	50 SEC.*	6 SEC.	--	--	ANY	2	>30°	<10%	*PI REQUIRES CONTINUOUS DATA DURING ENTIRE PASS WITH S191 POINTING AT NADIR
					MANDATORY	--	--	10 SEC.* OR	4 SEC.	--	--	ANY	1	>30°	<20%	
547125 (439)	A/C	SMOKE CREEK DESERT	40°00'- 42°00'N, 118°00'-120°00'W		DESIRED	PHOTOS: 1 O.L.: -- FILM: STD FILTER: STD	PHOTOS: 1 O.L.: -- FILM: SO242 FILTER: --	50 SEC.*	6 SEC.	--	--	ANY	2	>30°	<10%	*S191 - SAME TEST CONDITION AS ABOVE(TASK/SITE 547119).
					MANDATORY	--	--	10 SEC.* OR	4 SEC.	--	--	ANY	1	>30°	<20%	
547220 (439)	A/C	GREAT SALT LAKE	39°00'- 42°00'N, 112°00'-114°00'W		DESIRED	PHOTOS: 1 O.L.: -- FILM: STD FILTER: STD	PHOTOS: 1 O.L.: -- FILM: SO242 FILTER: --	50 SEC.*	6 SEC.	--	--	MAY - SEP	2	>30°	<10%	*S191 - SAME TEST CONDITION AS ABOVE (TASK/SITE 547119).
					MANDATORY	PHOTOS: -- O.L.: FILM: FILTER:	PHOTOS: -- O.L.: FILM: FILTER:	10 SEC.* OR	4 SEC.	--	--	ANY	1	>30°	<20%	
548511 (410M)	A/C OR GT	MICHIGAN STATE FARM SITE	42°10'-43°00'N, 83°30'-85°10'W		DESIRED	PHOTOS: 3 O.L.: 15% FILM: STD FILTER: STD	OR PHOTOS: 4 O.L.: 15% FILM: SO242 FILTER: --	--	40 SEC.	--	--	ANY	3*	≥30°	<10%	*PI DESIRES THREE DIFFERENT ATMOSPHERIC CONDITIONS WITH GROUND LEVEL HORIZONTAL VISIBILITY CONDITIONS OF 6KM, 10KM, AND 25KM, AT LEAST TWO DIFFERENT ATMOSPHERIC CONDITIONS ARE MANDATORY.
	A/C OR GT				MANDATORY	PHOTOS: 2 O.L.: 15% FILM: SO127 FILTER: STD	OR PHOTOS: 3 O.L.: 15% FILM: SO242 FILTER: --	--	30 SEC.	--	--	ANY	2	≥20°	<30%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

600 Series

COASTAL ZONES, SHOALS AND BAYS

Mapping hydrobiological communities, sensing bay and coastal environments, coastal water circulation, river plumes, sedimentology analysis, water depth analysis, water pollution, developing monitoring techniques.

Purposes

Task

601 Utilize enhanced Skylab/EREP scanner data to determine the applications of space-derived data to mapping hydrobiological communities in selected environments.

602 Investigate applicability and feasibility of space sensing of the southern Chesapeake Bay environment and its changes. Use Skylab imagery to map water color and surface temperature of the southern Chesapeake Bay. Calibrate and annotate resulting maps with surface-truth data acquired in ongoing programs. Utilize the annotated maps to enhance knowledge of Chesapeake Bay primary productivity, circulation, suspended sediment, and water pollution. Investigate the utility of Skylab for periodic oscillatory marine phenomena. Evaluate the utility of Skylab imagery to assist in research and management of the marine environments and resources of the Chesapeake Bay. Compare the utility of ERTS-A versus Skylab data, and satellite versus aircraft data.

603 Determine the applicability of enhanced Skylab EREP multispectral photographic and scanner data for mapping ecological, geological, and oceanographic parameters of Delaware Bay.

616 Investigate the geology, sedimentation and water-borne pollution on the coast of Venezuela.

617 Use orbital remote sensing data to augment the study and analysis of coastal areas and shallow marine platforms of the Puerto Rico-Virgin Islands test site. Study and map coastal geologic structure, topography and composition, with particular emphasis on locating sand and gravel deposits. Determine the nature and extent of marine biota, e.g., coral, benthic flora, and plankton. Study coastal water circulation, river plumes and effluent discharge. Perform sedimentology analyses. Contribute to ecological mapping, i.e., distribution of characteristic plant-animal-sediment associations. Establish a base survey for future studies of time-variant phenomena. Improve techniques for orbital data interpretation. Develop practical data applications.

618 Determine the distribution of the extensive, well-exposed terrace system which contributes sediment to the shelf surrounding Elba Island. Delineate submerged terraces and platforms adjacent to the east side of Elba and between Italy and Corsica. Identify the major circulation patterns in the channel area between Elba and Corsica and across

the shelf between Elba and the mainland. Determine the distribution, persistence, and behavior of concentrations of suspended sediment plumes at the mouths of rivers and streams emptying into the Tyrrhenian Sea near Elba.

631 Develop multispectral data processing methods for determining water depths. Determine bottom depth by analysis of the refraction and change in length of water waves passing over a subsurface feature. Measure wave refraction effects by means of Fourier transforms produced by an optical processor. Determine effects of varying sun angles.

646 Determine the utility of several sensor systems for compiling small scale oceanographic charts for monitoring spatial and temporal water characteristics. Compare these systems with conventional water-brone collecting techniques and establish a detailed plan for use of the coastal resources of New York in the 1970's.

647 Determine circulation patterns of water masses in several estuaries at different stages of tide and different seasons of the year, and develop predictive models for estuarine flushing. Determine optimum locations for water sample stations. Relate water color and temperature to current flow patterns, sediment movement, and the dispersion of pollutants. Determine the locations of different water masses synoptically at various seasons in the New York Bight, Southeastern Coastal Zone, the Mississippi Delta, and/or the Columbia River Plume.

648 Determine the applicability of Skylab sensor data to studies of near-shore currents and sediment transport.

661 Delineate and map wetlands communities. Establish the boundaries of the wetlands ecosystem. Evaluate wetland types and areas for purposes of coastal zone and inland management including preservation and maintenance of wildlife populations. Monitor wetlands for evaluation of man-made and natural reduction in productivity.

662 Evaluate techniques for monitoring accretion/erosion in the Atchafalaya Basin of southern Louisiana. Demonstrate technique for determining salt water intrusion by classification of pertinent plant communities. Correlate with adjacent remotely sensed salinity measurements. Demonstrate technique for location and classification of aquatic plants. Evaluate techniques for determination of water characteristics, e.g., turbidity, source, inlet-outlet conditions. Evaluate techniques for locating water/land areas through forest species identification.

Table B7-1. Coastal Zones, Shoals and Bays (600 Series)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
601526 (448)		TAMPA BAY	26°30'-28°15'N, 81°30'-83°00'W		DESIRED	PHOTOS: 1 O.L.: — FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 15% FILM: SO242 FILTER: —	--	7 SEC.	--	--	ANY	1	≥30°	0%	SNOW COVER - DESIRED 0%, MANDATORY 0%.
					MANDATORY	PHOTOS: 1 O.L.: — FILM: STD FILTER: STD	OR PHOTOS: 2 O.L.: 15% FILM: ANY FILTER: ANY	-- OR	7 SEC.	--	--	ANY	1	≥20°	<75%	
601527 (448)		BISCAYNE BAY	25°40'N, 80°20'W (10 NM RADIUS)		DESIRED	PHOTOS: 1 O.L.: — FILM: STD FILTER: STD	PHOTOS: 1 O.L.: — FILM: SO242 FILTER: —	--	2 SEC.	--	--	ANY	1	≥30°	0%	SNOW COVER - DESIRED 0%, MANDATORY 0%.
					MANDATORY	PHOTOS: 1 O.L.: — FILM: STD FILTER: STD	OR PHOTOS: 1 O.L.: — FILM: ANY FILTER: ANY	-- OR	2 SEC.	--	--	ANY	1	≥20°	<75%	
601578 (448)		ST. JOHNS RIVER/ CAPE KENNEDY, FLORIDA	30°20'N, 82°00'W 30°20'N, 81°15'W 29°00'N, 80°30'W 28°00'N, 80°30'W 28°00'N, 81°00'W 29°00'N, 82°00'W		DESIRED	PHOTOS: 3 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 15% FILM: SO242 FILTER: —	--	30 SEC.	--	--	ANY	1	≥30°	0	NONE SPECIFIED.
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	OR PHOTOS: 2 O.L.: 15% FILM: ANY FILTER: ANY	-- OR	15 SEC.	--	--	ANY	1	≥20°	≤70%	
602674 (517)	A/C	CHESAPEAKE BAY	*36°40'-38°20'N, 75°20'-77°20'W		DESIRED	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 15% FILM: SO242 FILTER: —	--	30 SEC.	--	--	MAY AUG - SEP NOV - DEC	1 1 1	< 80°	0%	* THE TEST SITE CENTERED AT THE MOUTH OF THE BAY (WITHIN 30' AROUND 37°00'N, 76°00'W) IS PREFERRED. PREFER TRACK 57.
					MANDATORY	PHOTOS: 1 O.L.: 0% FILM: STD FILTER: STD	OR PHOTOS: 1 O.L.: 0% FILM: SO242 FILTER: —	--	--	--	--	ANY	1	< 80°	<50%	
603629 (477/447)	A/C	DELAWARE BAY AREA	38°00'-40°00'N, 74°00'-75°45'W		DESIRED	PHOTOS: 3 O.L.: >60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: >60% FILM: SO242 FILTER: —	24 SEC.*	24 SEC.	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>45°	0%	SNOW COVER - DESIRED 0%, MANDATORY <10%. *S191 - ACQUIRE AND TRACK ANY POINT ALONG COAST AND THEN TRACK NADIR FOR THE SITE.
					MANDATORY	--	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	--	24 SEC.	--	--	ANY	1	>45°	≤30%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
616768 (9657-3)		NORTHERN VENEZUELA	12°45'-13°30'N, 71°10'-73°25'W		DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 15 O.L.: 60% FILM: SO242 FILTER: —	--	12 SEC.	--	--	JAN - EARLY APR, SEP - NOV	1	>30°	<20%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 6 O.L.: 10% FILM: ANY FILTER: STD	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	ANY	1	>20°	<30%	
616769 (9657-3)		NORTHERN VENEZUELA	9°30'-13°30'N, 66°00'-71°10'W		DESIRED	PHOTOS: 12 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 18 O.L.: 60% FILM: SO242 FILTER: —	--	12 SEC.	--	--	JAN - EARLY APR, SEP - NOV	1	>30°	<20%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 6 O.L.: 10% FILM: ANY FILTER: STD	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	ANY	1	>20°	<30%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B7-1. Coastal Zones, Shoals and Bay (600 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
616771 (9657-3)		NORTHERN VENEZUELA	7°25'-12°00'N, 59°40'-64°55'W		DESIRED	PHOTOS: 12 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 20 O.L.: 60% FILM: S0242 FILTER: —	--	--	--	--	JAN - EARLY APR, SEP - NOV	1	>30°	<20%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 6 O.L.: 10% FILM: ANY FILTER: STD	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	ANY	1	>20°	<30%	
617628 (409)	A/C	PUERTO RICO/ VIRGIN ISLANDS PLATFORMS	17°00'-19°00'N, 64°00'-68°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: S0242 FILTER: —	--	25 SEC.	--	--	ANY	2	≥30°	0%	PRIMARY IMPORTANCE IS TO COVER THE ENTIRE AREA. FIRST CHOICE OF PASSES IS TRACK 19 PASS PLUS TRACK 70 PASS. SECOND CHOICE IS TRACK 19 PASS ONLY. THIRD CHOICE IS TRACK 70 PASS ONLY. SUN GLITTER IS NOT DESIRED. OPTIMUM PHOTO EXPOSURE FOR WATER INFORMATION IS DESIRED.
					MANDATORY	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: S0242 FILTER: —	--	25 SEC.	--	--	ANY	1	≥20°	≤30%	
618826 (9674)		ELBA ISLAND, ITALY	41°40'-44°50'N, 9°30'-12°10'E		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 9 O.L.: 60% FILM: S0242 FILTER: —	--	32 SEC.	--	--	APR - SEP	2	≥30°	<10%	SUN GLITTER IS NOT DESIRED. OPTIMUM PHOTO EXPOSURES FOR WATER PENETRATION IS DESIRED.
					MANDATORY	PHOTOS: 6 O.L.: 50% FILM: STD FILTER: STD	PHOTOS: 9 O.L.: 50% FILM: S0242 FILTER: —	--	32 SEC.	--	--	APR - SEP	1	≥20°	<40%	
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
631628 (446)		PUERTO RICO/ VIRGIN ISLANDS PLATFORMS	17°00'-19°00'N 64°00'-68°00'W		DESIRED	PHOTOS: 4 O.L.: 15% FILM: * FILTER: *	PHOTOS: 6 O.L.: 15% FILM: S0242 FILTER: —	--	33 SEC.	--	--	ANY	2	≥30°	≤10%	* S190A - STD FILM AND FILTER MAY BE USED EXCEPT FOR STATION 2, IN WHICH CASE USE S0022 FILM AND NN FILTER. ANY CLEAR WATER AREA WHERE THE WATER DEPTH IS 50 FEET OR LESS COULD BE USED TO MEET THE OBJECTIVES OF THIS EXPERIMENT. SUN GLITTER IS NOT DESIRED. OPTIMUM FILTER AND EXPOSURE FOR WATER DEPTH IS DESIRED.
					MANDATORY	PHOTOS: 4 O.L.: 10% FILM: * FILTER: * OR	PHOTOS: 3 O.L.: 10% FILM: S0242 FILTER: —	--	33 SEC.	--	--	ANY	1	≥20°	≤30%	
631523 (446)		LAKE MICHIGAN - TRAVERSE CITY AREA	44°00'-46°00'N, 83°30'-88°00'W		DESIRED	PHOTOS: 2 O.L.: 15% FILM: * FILTER: *	PHOTOS: 2 O.L.: 15% FILM: S0242 FILTER: —	--	18 SEC.	--	--	MAY - JUL	2	≥30°	≤10%	* S190A - STD FILM AND FILTER MAY BE USED EXCEPT FOR STATION 2, IN WHICH CASE USE S0022 FILM AND NN FILTER. ANY CLEAR WATER AREA WHERE THE WATER DEPTH IS 50 FEET OR LESS COULD BE USED TO MEET THE OBJECTIVES OF THIS EXPERIMENT. SUN GLITTER IS NOT DESIRED. OPTIMUM FILTER AND EXPOSURE FOR WATER DEPTH IS DESIRED. NO LAKE ICE IS DESIRED.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: * FILTER: * OR	PHOTOS: 1 O.L.: 10% FILM: S0242 FILTER: —	--	18 SEC.	--	--	APR - NOV	1	≥20°	≤30%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B7-1. Coastal Zones, Shoals, and Bays (600 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	SENSOR REQUIREMENTS S191	SENSOR REQUIREMENTS S192	SENSOR REQUIREMENTS S193	SENSOR REQUIREMENTS S194	TEST CONDITIONS SEASONAL REQUIREMENTS	TEST CONDITIONS NUMBER PASSES	TEST CONDITIONS SUN ANGLE	TEST CONDITIONS CLOUD COVER	UNIQUE TEST CONDITIONS
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
646609 (070)		NEW YORK COAST	40°00'N, 74°00'W 40°40'N, 72°35'W 41°30'N, 72°35'W 40°40'N, 74°30'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD* FILTER: STD*	PHOTOS: 4 O.L.: 60% FILM: S0242 FILTER: —	40 SEC. ** ***	31 SEC.	--	--	SL-2 SL-3 SL-4	3 3 3	30°- 80°	<10%	ONE PASS AT MAXIMUM FLOOD EBB AND SLACK TIDE OVER EACH SITE EACH SEASON IS DESIRED. * STANDARD FILM AND FILTER MAY BE USED FOR S190A EXCEPT FOR STATION 2, IN WHICH CASE USE S0022 FILM AND HM FILTER. **TRACK S191 SITE THROUGH NADIR. *** S191 SITES: 646625, 40°25'N, 73°33'W 646630, 40°58'N, 73°26'W 646635, 40°30'N, 73°00'W
					MANDATORY	PHOTOS: 3 O.L.: 50% FILM: STD* FILTER: STD*	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	MAY - SEP	1	20°- 80°	<60%	
646638 (070)	A/C	BLOCK ISLAND SOUND	41°30'N, 72°35'W 40°40'N, 72°35'W 41°20'N, 70°00'W 41°50'N, 70°30'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD* FILTER: STD*	PHOTOS: 4 O.L.: 60% FILM: S0242 FILTER: —	40 SEC. 41°05'N, 71°40'W (646640)	31 SEC.	--	--	SL-2 SL-3 SL-4	3 3 3	30°- 80°	<10%	ONE PASS AT MAXIMUM FLOOD EBB AND SLACK TIDE OVER EACH SITE EACH SEASON IS DESIRED. * STANDARD FILM AND FILTER MAY BE USED FOR S190A EXCEPT FOR STATION 2, IN WHICH CASE USE S0022 FILM AND HM FILTER.
					MANDATORY	PHOTOS: 3 O.L.: 50% FILM: STD* FILTER: STD*	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	MAY - SEP	1	20°- 80°	<60%	
647646 (458)		NEW YORK BIGHT	39°00'-41°00'N, 72°00'-74°15'W		DESIRED	PHOTOS: 8 O.L.: 80% FILM: STD FILTER: STD	PHOTOS: 12 O.L.: 80% FILM: EK3443 FILTER: W-12	--	30 SEC.	30 SEC. ALT MODE 5	--	SL-2 SL-3 SL-4	1 1 1	>30°	<10%	MANDATORY REQUIREMENT IS EITHER S190A OR S192 AND S190B. *HIGH RESOLUTION COLOR OR PAN X (.6-.7) AND IR B & W AND IR COLOR. **IR COLOR OR PAN X.
					MANDATORY	PHOTOS: 4 O.L.: 60% FILM: * FILTER: *	PHOTOS: 6 O.L.: 60% FILM: ** FILTER: **	--	10 SEC.		--	SL-2EC SL-3 SL-4	1 1 1	>15°	<30%	
647593 (458)		SOUTHEASTERN COASTAL ZONE	33°00'-34°00'N 77°00'-78°00'W		DESIRED	PHOTOS: 8 O.L.: 80% FILM: STD FILTER: STD	PHOTOS: 12 O.L.: 80% FILM: EK3443 FILTER: W-12	--	30 SEC.	30 SEC. ALT MODE 5	--	SL-2 SL-3 SL-4	1 1 1	>30°	<10%	NONE SPECIFIED.
					MANDATORY	--	--	--	--	--	--	--	--	-	-	
648132 (492)		CALIFORNIA COAST	35°00'N, 122°00'W 36°00'N, 121°00'W 32°50'N, 116°45'W 31°50'N, 117°45'W		DESIRED	PHOTOS: 8 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 12 O.L.: 60% FILM: S0242 FILTER: —	--	65 SEC.	--	--	MAY - DEC	3	>30	<10%	SNOW COVER - DESIRED 0%, MANDATORY <20%.
					MANDATORY	PHOTOS: 5 O.L.: 10% FILM: ANY FILTER: STD	--	--	--	--	--	ANY	1	>20	<20%	
648114 (492)		CALIFORNIA COAST	38°15'N, 123°45'W 38°45'N, 123°10'W 38°15'N, 122°10'W 36°30'N, 121°30'W 36°15'N, 122°15'W		DESIRED	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 7 O.L.: 60% FILM: S0242 FILTER: —	--	40 SEC.	--	--	MAY - DEC	3	>30°	<10%	SNOW COVER - DESIRED 0%, MANDATORY <20%.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: ANY FILTER: STD	--	--	--	--	--	ANY	1	>20°	<20%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B7-1. Coastal Zones, Shoals and Bay (600 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
661589 (485)	A/C	SOUTH CAROLINA/ GEORGIA COASTLINE	33°00'N, 79°30'W 33°00'N, 81°30'W 30°00'N, 82°30'W		DESIRED	PHOTOS: 12 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>20°	0%	SNOW COVER - DESIRED 0%, MANDATORY 0%.
					MANDATORY	PHOTOS: 12 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	ANY	1	>20°	<30%	
661591 (485)		SOUTHERN COASTAL NEW JERSEY	40°00'N, 74°00'W 40°00'N, 74°30'W 39°00'N, 75°00'W 39°00'N, 74°30'W		DESIRED	PHOTOS: 12 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>20°	0%	SNOW COVER - DESIRED 0%, MANDATORY 0%.
					MANDATORY	PHOTOS: 12 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	AUG - SEP	1	>20°	<30%	
662438 (9666)	A/C	ATCHAFALAYA BASIN AND COASTAL MARSH	29°00'-30°00'N, 90°15'-92°00'W		DESIRED	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 15% FILM: SO242 FILTER: --	--	25 SEC.	--	--	ANY	ALL AVAIL.	≥30°	<25%	SNOW COVER - DESIRED 0%, MANDATORY 0%.
					MANDATORY	PHOTOS: -- O.L.: FILM: FILTER:	PHOTOS: -- O.L.: FILM: FILTER:	--	10 SEC.	--	--	ANY	1	≥20°	<25%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

700 Series

REMOTE SENSING TECHNIQUES DEVELOPMENT

Relate signatures of EREP imagery to ground spectra, adaptation of discrimination techniques, radar altimeter terrain characteristics identification, microwave pulse response of rough surfaces, and sensors performance evaluations.

Purposes

Task

701 Relate in situ radiometric ground spectra measurements to space acquired imagery. Determine relative signatures (densities) of imagery to ground spectra. Acquire ground truth spectral signature data using mobile field computerized spectroradiometric lab. Analyze EREP S190 and S192 imagery desnitometrically and colorimetrically and relate the data to absolute radiance units. Relate these image characteristics of the EREP imagery to the in situ spectroradiometric signatures collected by the field laboratory.

703 Adapt data and test information extraction and discrimination techniques (developed for aircraft and ERTS-A multispectral scanner data) to Skylab S192 data. Apply the selected techniques to at least one frame of S192 multispectral scanner data and evaluate the results by comparing them to ground information and to photographic and scanner data from aircraft underflights to determine the practical utility of the various processing techniques.

716 Collect data into a catalog permitting future designers to determine required sensitivities and dynamic ranges for spacecraft instruments operating at different angles of incidence. Operate the S193 experiment over a variety of terrain types to collect design scattering coefficient and brightness temperature data. Obtain radiometer data over cloudy and rainy areas to ascertain the reduction in contrast observed with the microwave radiometer.

717 Utilize the S193 radar altimeter to identify terrain characteristics from space. Provide information for remote sensing with satellite radar altimeter of topography and surface properties such as wetness of soil, growth of vegetation and distribution of snow. Analyze the radar return from different land areas. Provide design criteria to a dedicated remote sensing satellite altimeter to measure various terrain characteristics.

718 Correlate ground truth, aircraft data, and Skylab data to verify microwave pulse response of various rough surfaces. Provide the necessary information for improved design of spacecraft microwave system; ocean and terrain roughness measure by pulsed altimeter, and soil and crop signature deduction over at least one test site. Develop a roughness signature technique to correlate altimeter signatures with ground scene.

731 Evaluate the utility of automated feature extraction algorithms for change detection, multistage sampling, data compression, and on-board processing of EREP multispectral photography and scanner data over the state of Alabama. Multispectrally scan and photograph the same EREP pass during similar daylight conditions for four different seasons. Scan in infrared the same EREP passes during similar night-time and seasonal conditions.

746 Evaluate the performance of the S190A Multispectral Photographic Camera and the S190B Earth Terrain Camera. Provide support required by the Quick Look II Mission Evaluation. Provide performance and calibration data required by science/applications investigators based upon the realized performance of the sensor. Provide data required for definition of future experimental and operational sensor requirements.

747 Evaluate the performance of the S191 Infrared Spectrometer. Provide support required by the Quick Look II Mission Evaluation. Provide performance and calibration data required by science/applications investigators based upon the realized performance of the sensor. Provide data required for definition of future experimental and operational sensor requirements.

748 Evaluate the performance of the S192 Multispectral Scanner. Provide support required by the Quick Look II Mission Evaluation. Provide performance and calibration data required by science/applications investigators based upon the realized performance of the sensor. Provide data required for definition of future experimental and operational sensor requirements.

749 Evaluate the performance of the S193 Microwave System. Provide support required by the Quick Look II Mission Evaluation. Provide performance and calibration data required by science/applications investigators based upon the realized performance of the sensor. Provide data required for definition of future experimental and operational sensor requirements.

750 Evaluate the performance of the S194 L-band Radiometer. Provide support required by the Quick Look II Mission Evaluation. Provide performance and calibration data required by science/applications investigators based upon the realized performance of the sensor. Provide data required for definition of future experimental and operational sensor requirements.

Table B8-1. Remote Sensing Techniques Development (700 Series)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS: S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS: SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
701202 (069)		WILCOX PLAYA, ARIZONA	32°03'- 32°14'N, 109°43'-110°00'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 60% FILM: SO242 FILTER: —	40 SEC. 32°09'N, 109°51'W 701265	30 SEC.	—	—	SL-2	1	>30°	<10%	S191 - TRACK THROUGH NADIR.
					MANDATORY	PHOTOS: 3 O.L.: 50% FILM: SO022 FILTER: STD	—	—	—	—	—	SL-2	1	>30°	<60%	
		OR														
701269 (069)	A/C	KATHRINE PLAYA, ARIZONA	32°15'- 32°25'N, 108°50'-109°00'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 60% FILM: SO242 FILTER: —	40 SEC. 32°18'N, 108°54'W 701270	30 SEC.	—	—	SL-2	1	>30°	<10%	S191 - TRACK THROUGH NADIR.
					MANDATORY	PHOTOS: 3 O.L.: 50% FILM: SO022 FILTER: STD	—	—	—	—	—	SL-2	1	>30°	<60%	
701224 (069)	A/C	PRESCOTT NATIONAL FOREST, ARIZONA	34°10'- 34°32'N, 112°25'-112°50'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 60% FILM: SO242 FILTER: —	40 SEC. 34°27'N, 112°33'W 701225	30 SEC.	—	—	SL-2	2	>30°	<10%	S191 - TRACK THROUGH NADIR.
					MANDATORY	PHOTOS: 3 O.L.: 50% FILM: SO022 FILTER: STD	—	—	—	—	—	SL-2	1	>30°	<60%	
701401 (069)	A/C	HOUSTON AREA TEST SITE (HATS)	28°00'-31°00'N, 94°00'-97°00'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 60% FILM: SO242 FILTER: —	40 SEC.*	30 SEC.	—	—	SL-2	1	>30°	<10%	S191 - TRACK THROUGH NADIR. *ANY S191 SITE IN HATS IS DESIRED. SEE TASKS 517, 546, AND 803 FOR SITES.
					MANDATORY	—	—	—	—	—	—	—	—	—	—	
703532 (456M)	A/C GT	SOUTHERN MICHIGAN AGRICULTURAL SITE	42°10'-43°00'N, 83°00'-85°10'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 60% FILM: SO242 FILTER: —	—	25 SEC.	—	—	JUL - SEP	1	>60°	0%	NONE SPECIFIED.
	A/C GT				MANDATORY	—	—	—	25 SEC.	—	—	JUL - SEP	1	>30°	<30%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
716408 (549-1M)	A/C	ANY OVERLAND U.S. PASS	30°00' - 50°00'N, 70°00' - 125°00'W		DESIRED	PHOTOS: 2* O.L.: 10% FILM: STD FILTER: STD OR	PHOTOS: 2* O.L.: 10% FILM: SO242 FILTER: —	—	—	120 SEC. ALT MODE 2	—	ANY	**	>30°	<20%	*PHOTOS TO BE CONCURRENT WITH S193 DATA TAKE. **ALL U.S. EREP GROUND TRACKS ARE DESIRED TO PROVIDE DATA FOR SCATTERING CATALOG.
					MANDATORY	—	—	—	—	60 SEC. ALT MODE 2	—	ANY	4	>20°	ANY	
					DESIRED*	PHOTOS: 2* O.L.: 10% FILM: STD FILTER: STD OR	PHOTOS: 2* O.L.: 10% FILM: SO242 FILTER: —	—	—	240 SEC. RAD/SCAT, ITC POLAR: ***	—	ANY	**	>30°	<20%	*PHOTOS TO BE CONCURRENT WITH S193 DATA TAKE. **ALL U.S. EREP GROUND TRACKS ARE DESIRED TO PROVIDE DATA FOR SCATTERING CATALOG. ***MAXIMUM COVERAGE TO BE EQUALLY DIVIDED BETWEEN VV AND HH, HOWEVER, SOME COVERAGE IN CROSS POLARIZATION MODES IS DESIRED.
					MANDATORY*	—	—	—	—	60 SEC. RAD/SCAT, ITC OR ITNC POLAR: ***	—	ANY	6	>20°	ANY	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B8-1. Remote Sensing Techniques Development (700 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
717408 (363)		ANY OVERLAND U.S. PASS	30°00' - 50°00'N, 70°00'-125°00'W		DESIRED	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 2 O.L.: 15% FILM: SO242 FILTER: —	--	--	558 SEC. ALT MODE 1	--	ANY	4*	>30°	<10%	*THIS TASK IS TO BE ACCOMPLISHED BY HAVING TWO EREP PASSES REPEATED DURING DIFFERENT MISSIONS TO COVER A LARGE PORTION OF THE U.S. FROM OCEAN TO OCEAN, IF POSSIBLE. IT IS DESIRABLE THAT THESE SAME TWO PASSES BE REPEATED DURING A DIFFERENT SEASON, PREFERABLY SUMMER AND WINTER. **ANY VISIBLE FILM IS ACCEPTABLE. S193 - ALT ACQUISITION (NADIR SEARCH) SHOULD PREFERABLY BE ACCOMPLISHED OVER A FLAT AREA SUCH AS OCEAN OR PLAINS. 100 ADDITIONAL SEC. ARE REQUIRED FOR ACQUISITION.
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: ** FILTER: ** OR	PHOTOS: 2 O.L.: 15% FILM: ** FILTER: **	--	--	186 SEC. ALT MODE 1	--	ANY	1	>20°	<10%	
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
718401 (413M)	A/C	HOUSTON AREA TEST SITE (HATS)	28°00'-31°00'N, 94°00'-97°00'W		DESIRED	--	PHOTOS: 3 O.L.: 10% FILM: SO242 FILTER: —	--	10 SEC.	25 SEC. ALT MODE 1	--	MAY - SEP	1	>30°	<10%	NONE SPECIFIED.
					MANDATORY	--	--	--	--	25 SEC. ALT MODE 1	--	ANY	1	>30°	<20%	
718299 (413M)		FISHER MOUNTAIN, COLORADO	37°00'- 38°00'N, 106°45'-107°45'W		DESIRED	--	PHOTOS: 3 O.L.: 10% FILM: SO242 FILTER: —	--	10 SEC.	10 SEC. ALT MODE 1	--	MAY - SEP	1	>30°	<10%	NONE SPECIFIED.
					MANDATORY	--	--	--	--	5 SEC. ALT MODE 1	--	ANY	1	>30°	<20%	
718167 (413M)		OREGON COAST	43°00'- 45°00'N, 123°30'-124°30'W		DESIRED	--	PHOTOS: 3 O.L.: 10% FILM: SO242 FILTER: —	--	10 SEC.	20 SEC. ALT MODE 1	--	MAY - SEP NOV - MAR	1 1	>30°	<10%	NONE SPECIFIED.
					MANDATORY	--	--	--	--	10 SEC. ALT MODE 1	--	ANY	1	>30°	<20%	
731553 (560M)	A/C	STATE OF ALABAMA	30°00' - 35°00'N, 85°00' - 88°30'W		DESIRED	PHOTOS: 5 O.L.: 50% FILM: STD FILTER: STD	PHOTOS: 7 O.L.: 50% FILM: EK3414 FILTER: W-12	--	67 SEC.	--	--	SL-2 SL-3 SL-4	4** 4** 4**	>40°	<10%	SNOW COVER - 0% DESIRED, <10% MANDATORY. *THE SAME GROUND TRACK ON EACH MISSION IS REQUIRED. ** THERE SHOULD BE ONE DAYTIME AND ONE NIGHTTIME PASS OVER THE STATE OF ALABAMA FOR TWO DIFFERENT GROUND TRACKS. THE NIGHTTIME PASSES SHOULD BE THE SAME GROUND TRACK AS THE DAYTIME PASSES AND AS NEAR TO THE SAME SEASONAL CONDITIONS AS POSSIBLE.
					MANDATORY	PHOTOS: 1 O.L.: 0% FILM: STD FILTER: STD	--	--	20 SEC.	--	--	SL-2 SL-3 SL-4	1* 1* 1*	>20°	<40%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B8-1. Remote Sensing Techniques Development (700 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS: S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS: SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
746006 (S190)		FULL MOON ± 3/4 DAY	--		DESIRED	**** PHOTOS: *9 O.L.: — FILM: STD FILTER: STD	PHOTOS: **9 O.L.: — FILM: STD FILTER: STD	70 SEC. (10 SEC. EACH FOR 7 TARGETS) 746003	30 SEC.	--	--	SL-2 SL-3 SL-4	1 2*** 2***	—	—	* THREE PHOTOS EACH AT FAST, MEDIUM, AND SLOW SHUTTER SPEEDS FOR A TOTAL OF NINE PHOTOS PER PASS. FMC OFF. ** THREE PHOTOS EACH AT 100, 140, AND 200 SHUTTER SPEEDS FOR A TOTAL OF NINE PHOTOS PER PASS. FMC OFF. *** TWO DIFFERENT FULL MOON PERIODS ARE DESIRED. **** FOLLOWED BY AN IDENTICAL SEQUENCE WITH FILTERS PP, QQ, OO, AND NN ON STATIONS 1,2,5 AND 6,RESPECTIVELY. S191 TARGETS - 1. 5° AHEAD OF MOON'S LEADING EDGE. 2. ADJACENT TO MOON'S LEADING EDGE, JUST OFF MOON. 3. ADJACENT TO MOON'S LEADING EDGE, JUST ON MOON. 4. AT CENTER OF MOON. 5. ADJACENT TO MOON'S TRAILING EDGE, JUST ON MOON. 6. ADJACENT TO MOON'S TRAILING EDGE, JUST OFF MOON. 7. 5° OFF MOON'S TRAILING EDGE.
					MANDATORY	PHOTOS: * 9 O.L.: — FILM: STD FILTER: STD	PHOTOS: ** 9 O.L.: — FILM: STD FILTER: STD	70 SEC. (10 SEC. EACH FOR 7 TARGETS) 746003	30 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	—	—	
746997 (S190)		HIGH UNIFORM THICK CLOUD DECK	--		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 20% FILM: STD FILTER: STD	40 SEC. (10 SEC. EACH FOR ANY 4 TARGETS)	30 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	>40°	100%	PASSES SHOULD BE AS FAR APART AS POSSIBLE DURING EACH MISSION. THIS TASK MAY BE DONE IN CONJUNCTION WITH TASK 503. THE LOCATION AND SUITABILITY OF CLOUD TARGETS ARE TO BE DETERMINED IN REAL TIME.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 20% FILM: STD FILTER: STD	40 SEC. (10 SEC. EACH FOR ANY 4 TARGETS)	30 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>30°	>90%	
746470 (S190)		HOUSTON, TEXAS OR ALTERNATE SITES LISTED BELOW IN ORDER OF PREFERENCE.	29°46'N, 95°21'W (TARGET AREA IS A CIRCLE WITH 15 NM RADIUS FOR HOUSTON AND ALL ALTERNATE SITES LISTED BELOW).		DESIRED	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: * STD FILTER: STD	10 SEC.	--	--	--	SL-2 SL-3 SL-4	EACH ZLV OVER U.S. EACH ZLV OVER U.S. EACH ZLV OVER U.S.	≥30°	0%	SNOW COVER - <5% DESIRED, <20° MANDATORY. S190A - THE FIVE FRAME SEQUENCE SHOULD BE AS NEARLY CENTERED OVER THE TEST SITES AS POSSIBLE. S191 - VISUALLY UNIFORM TARGETS OF OPPORTUNITY WITHIN S190B FIELD-OF-VIEW. S191 SITES REQUIRED BY OTHER INVESTIGATORS SHOULD BE USED WHEREVER POSSIBLE. EXTENSIVE COVERAGE OF WATER SHOULD BE AVOIDED. REPEATED COVERAGE OF HOUSTON OR ALTERNATE SITES SELECTED IS NOT REQUIRED. ALTERNATE SITES LISTED ARE SITES REQUIRED BY OR WITHIN SITE AREAS REQUESTED BY APPROVED INVESTIGATORS. * THE NUMBER OF PASSES WITH THE FILMS S0242, 3414, AND 3443, RESPECTIVELY, SHOULD BE PROPORTIONAL TO THE NUMBER OF ROLLS OF FILM OF EACH TYPE.
					MANDATORY	PHOTOS: 4 O.L.: 60% FILM: ANY FILTER: ANY	PHOTOS: 7 O.L.: 60% FILM: * STD FILTER: STD	10 SEC.	--	--	--	SL-2 SL-3 SL-4	1 PASS DURING EACH FIFTH OF THE TOTAL EREP PASSES PER MISSION	≥20°	≤20%	
1. 746629 2. 746120 3. 746525 4. 746660 5. 746550 6. 746110 7. 746665 8. 746670 9. 746663 10. 746429		11. 746650 12. 746547 13. 746649 14. 746459 15. 746449 16. 746454 17. 746123 18. 746572 19. 746573 20. 746172	21. 746659 22. 746575 23. 746444 24. 746317 25. 746134 26. 746576 27. 746173 28. 746436 29. 746577 30. 746174	31. 746237 32. 746569 33. 746666 34. 746605 35. 746379 36. 746578 37. 746579 38. 746178 39. 746468 40. 746381												SEE 746470 FOR SENSOR REQUIREMENTS AND TEST CONDITIONS.
746420 (S190)	A/C	HOUSTON AREA TEST SITE (HATS), ROSEMBERG RANGELAND OR ALTERNATE SITES SELECTED FROM SITES LISTED BELOW.	29°33'30"N, 95°57'00"W (TARGET AREA IS A CIRCLE WITH 15 NM RADIUS FOR HATS AND ALL ALTERNATE SITES LISTED BELOW.)		DESIRED	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 20% FILM: * STD FILTER: STD	10 SEC.	10 SEC.	--	--	EARLY SL-2 MID SL-2 LATE SL-2 1/QUARTER SL-3 1/QUARTER SL-4	1 1 1 4 4	≥30°	0%	SNOW COVER <20% DESIRED, <40% MANDATORY. S191 - VISUALLY UNIFORM TARGETS OF OPPORTUNITY WITHIN S190B FIELD-OF-VIEW. S191 SITES REQUIRED BY OTHER INVESTIGATORS SHOULD BE USED WHEREVER POSSIBLE. S192 - DATA TAKE SHOULD INCLUDE S191 TARGET AREA AND SHOULD BE SIMULTANEOUS WITH S191 DATA TAKE. REPEATED COVERAGE OF HATS, ROSENBERG RANGELAND, OR ALTERNATE SITES IS NOT REQUIRED. ALTERNATE SITES LISTED ARE SITES REQUIRED BY APPROVED INVESTIGATORS AND HAVE THE REQUIREMENT FOR HIGH ALTITUDE A/C COVERAGE. *THE NUMBER OF PASSES WITH THE FILMS S0242, 3414, AND 3443, RESPECTIVELY, SHOULD BE PROPORTIONAL TO THE NUMBER OF ROLLS OF FILM OF EACH TYPE.
					MANDATORY	PHOTOS: 4 O.L.: 60% FILM: ANY FILTER: ANY	PHOTOS: 4 O.L.: 20% FILM: * STD FILTER: STD	10 SEC.	10 SEC.	--	--	EARLY SL-2 LATE SL-2 EARLY SL-3 LATE SL-3 EARLY SL-4 LATE SL-4	1 1 1 1 1 1	≥20°	≤20%	
746601 746602 746610 746606 746607 746608 746393 746508 746505 746510		746515 746520 746627 746512 746312 746313 746345 746365 746106 746530	746294 746197 746632 746633 746101 746102 746103 746335 746392 746481	746453 746405 746415 746465 746475 746410 746230 746235 746501 746240	746245 746250 746255 746260 746203 746206 746207 746232 746125 746325	746202 746320	DESIRED									SEE 746475 FOR SENSOR REQUIREMENTS AND TEST CONDITIONS. OBTAIN DATA FOR AT LEAST ONE OF THE LAST FIVE LISTED SITES (746232, 746125, 746325, 746202, 746320). S109A IS THE ONLY MANDATORY SENSOR FOR THESE FIVE SITES.
					MANDATORY											
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B8-1. Remote Sensing Techniques Development (700 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS: S190A	S190B	S191	S192	193	S194	TEST CONDITIONS: SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
747003 (S191)		FULL MOON + 3/4 DAY AND ADJACENT DEEP SPACE	--		DESIRED	PHOTOS: 1 O.L.: — FILM: STD FILTER: STD	--	70 SEC. (10 SEC. EACH FOR 7 TARGETS)	10 SEC.	--	--	SL-2 SL-3 SL-4	1 2 2	—	—	S191 TARGETS - 1. 5° AHEAD OF MOON'S LEADING EDGE. 2. ADJACENT TO MOON'S LEADING EDGE, JUST OFF MOON. 3. ADJACENT TO MOON'S LEADING EDGE, JUST ON MOON. 4. AT CENTER OF MOON. 5. ADJACENT TO MOON'S TRAILING EDGE, JUST ON MOON. 6. ADJACENT TO MOON'S TRAILING EDGE, JUST OFF MOON. 7. 5° OFF OF MOON'S TRAILING EDGE.
					MANDATORY	PHOTOS: 1 O.L.: — FILM: STD FILTER: STD	--	70 SEC. (10 SEC. EACH FOR 7 TARGETS)	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	—	—	
747997 (S191)		HIGH UNIFORM THICK CLOUD DECK	--		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	--	40 SEC. (10 SEC. EACH FOR ANY 4 TARGETS)	5 SEC.	--	--	SL-2 SL-3 SL-4	2 * 4 4	≥50°	100%	*AS MANY DAYS BETWEEN SUCCESSIVE PASSES AS PRACTICAL.
					MANDATORY	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	--	40 SEC. (10 SEC. EACH FOR ANY 4 TARGETS)	5 SEC.	--	--	SL-2 SL-3 SL-4	1 * 2 2	≥30°	100%	
747999 (S191)		EARTH'S LIMB	--		DESIRED	PHOTOS: 1 O.L.: — FILM: STD FILTER: STD	--	60 SEC.*	--	--	--	SL-2 SL-3 SL-4	2 2 2	—	—	S191 - SENSOR FIXED AT 0°, 0°. EITHER NIGHT TO DAY OR DAY TO NIGHT SATISFACTORY. IN ST ATTITUDE *START SCAN 30 SEC. BEFORE S191 LINE-OF-SITE POINTS AT TRUE EARTH HORIZON.
					MANDATORY	PHOTOS: 1 O.L.: — FILM: STD FILTER: STD	--	60 SEC.*	--	--	--	SL-2 SL-3 SL-4	1 1 1	—	—	
747420 (S191)	A/C	HOUSTON AREA TEST SITE (HATS), ROSENBERG RANGE-LAND	29°33'N, 95°57'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	--	30 SEC.	10 SEC.	--	--	SL-2 SL-3 SL-4	1 2 2	≥30°	≤20%	SNOW - 0% DESIRED, 0% MANDATORY.
		OR ALTERNATE TEST SITES (747481; 747419; 747465)			MANDATORY	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	--	30 SEC.	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥20°	≤40%	
		OR														
747481 (S191)	A/C	HOUSTON AREA TEST SITE (HATS), SAN BERNARD RICELAND	28°53'N, 95°32'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	--	30 SEC.	10 SEC.	--	--	SL-2 SL-3 SL-4	1 2 2	≥30°	≥20%	SNOW COVER - 0% DESIRED, 0% MANDATORY.
					MANDATORY	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	--	30 SEC.	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥20°	≤40%	
		OR														
747419 (S191)	A/C	HOUSTON AREA TEST SITE (HATS), SAM HOUSTON NATIONAL FOREST	30°31'40"N, 95°39'10"W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	--	30 SEC.	10 SEC.	--	--	SL-2 SL-3 SL-4	1 2 2	≥30°	≤20%	SNOW COVER - 0% DESIRED, 0% MANDATORY.
					MANDATORY	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	--	30 SEC.	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥20°	≤40%	
		OR														
747465 (S191)	A/C	SABINE NATIONAL FOREST	31°15'N, 93°45'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	--	30 SEC.	10 SEC.	--	--	SL-2 SL-3 SL-4	1 2 2	≥30°	≤20%	SNOW COVER - 0% DESIRED, 0% MANDATORY.
					MANDATORY	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	--	30 SEC.	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥20°	≤40%	
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B8-1. Remote Sensing Techniques Development (700 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
747232 (S191)	A/C GT	GREAT SALT LAKE	40°00'- 41°00'N, 113°00'-114°00'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.*	10 SEC.	--	--	SL-2 SL-3 SL-4	1 2 2	≥45°	<20	0% SNOW COVER *S191 - ACQUIRE AND TRACK ANY VISUALLY UNIFORM AREA IN FIELD OF VIEW AT TIME OF SITE CROSSING.
	GT				MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.*	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥30°	<40	
OR 747265 (S191)	A/C GT	WILCOX PLAYA, AREA	32°09'N, 109°51'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.*	10 SEC.	--	--	SL-2 SL-3 SL-4	1 2 2	≥45°	<20%	0% SNOW COVER *S191 - ACQUIRE AND TRACK ANY VISUALLY UNIFORM AREA IN FIELD OF VIEW AT TIME OF SITE CROSSING.
	GT				MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.*	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥30°	<40%	
747300 (S191)	GT	DILLON LAKE, COLORADO	39°35'N, 106°05'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.*	10 SEC.	--	--	SL-2 SL-3 SL-4	1 2 2	≤45°	<20%	0% SNOW DESIRED ON LAKE. ≤ *% ACCEPTABLE. NO ICE ON LAKE DESIRED. ≤ *% ACCEPTABLE. *S191 - ACQUIRE AND TRACK ANY VISUALLY UNIFORM AREA IN FIELD OF VIEW AT TIME OF SITE CROSSING.
	GT				MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.*	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≤30°	<40%	
747275 (S191)	GT	RIO GRANDE LAKE	37°44'N, 107°19'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.*	10 SEC.	--	--	SL-2 SL-3 SL-4	1 2 2	≤45°	<20%	0% SNOW DESIRED ON LAKE. ≤ *% ACCEPTABLE. NO ICE ON LAKE DESIRED. ≤ *% ACCEPTABLE. *S191 - ACQUIRE AND TRACK ANY VISUALLY UNIFORM AREA IN FIELD OF VIEW AT TIME OF SITE CROSSING.
	GT				MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.*	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≤30°	<40%	
747705 (S191)		LAKE TITICACA, PERU - BOLIVIA	16°50'S, 69°18'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥40°	≤20°	NONE SPECIFIED.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: ANY FILTER: ANY	--	10 SEC.	10 SEC.	--	--	SL-2	1	≥20°	≤30°	
747330 (S191)	A/C	WHITE SANDS, NEW MEXICO (MALPAIS LAVA FLOW)	33°23'N, 106°11'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.	30 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	≥40°	0%	ALL THREE TARGETS (747320, 747330, 747325) ARE REQUIRED ON THE SAME PASS. SNOW COVER - 0% DESIRED, 0% MANDATORY.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: ANY FILTER: ANY	--	10 SEC.	30 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥20%	≤30%	
747325 (S191)	A/C	WHITE SANDS, NEW MEXICO (ADJACENT DESERT)	33°08'N, 106°17'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.	30 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	≥40°	0%	ALL THREE TARGETS (747320, 747330, 747325) ARE REQUIRED ON THE SAME PASS. SNOW COVER - 0% DESIRED, 0% MANDATORY.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: ANY FILTER: ANY	--	10 SEC.	30 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥20°	≤30%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B8-1. Remote Sensing Techniques Development (700 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS						TEST CONDITIONS				UNIQUE TEST CONDITIONS
						S190A	S190B	S191	S192	S193	S194	SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	
747314 (S191)	A/C	PADRE ISLAND, TEXAS (OPEN OCEAN)	26°20'W, 97°00'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥40°	≤20%	ALL THREE TARGETS (747305, 747308, 747314) ARE REQUIRED ON THE SAME PASS. SNOW COVER - 0% DESIRED, 0% MANDATORY.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: ANY FILTER: ANY	--	10 SEC.	10 SEC.	--	--	SL-2 SL-4	1 1	≥20°	≤30%	
747308 (S191)	A/C	PADRE ISLAND, TEXAS (SAND)	26°20'N, 97°10'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥40°	≤20%	ALL THREE TARGETS (747305, 747308, 747314) ARE REQUIRED ON THE SAME PASS. SNOW COVER - 0% DESIRED, 0% MANDATORY.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: ANY FILTER: ANY	--	10 SEC.	10 SEC.	--	--	SL-2 SL-4	1 1	≥20°	≤30%	
747305 (S191)	A/C	PADRE ISLAND, TEXAS (MAINLAND VEGETATION)	26°20'N, 97°30'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥40°	≤20%	ALL THREE TARGETS (747305, 747308, 747314) ARE REQUIRED ON THE SAME PASS. SNOW COVER - 0% DESIRED, 0% MANDATORY.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: ANY FILTER: ANY	--	10 SEC.	10 SEC.	--	--	SL-2 SL-4	1 1	≥20°	≤30%	
747320 (S191)	A/C	WHITE SANDS, NEW MEXICO (GYPSUM BEDS)	32°45'N, 106°17'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.	30 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	≥40°	≤0%	ALL THREE TARGETS (747320, 747330, 747325) ARE REQUIRED ON THE SAME PASS. SNOW COVER - 0% DESIRED, 0% MANDATORY.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: ANY FILTER: ANY	--	10 SEC.	30 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥20°	≤30%	
748232 (S192)	A/C GT	GREAT SALT LAKE	40°00'- 41°00'N, 113°00'-114°00'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.*	10 SEC.	--	--	SL-2 SL-3 SL-4	1 2 2	≥45°	<20%	0% SNOW COVER *S191 - ACQUIRE AND TRACK ANY VISUALLY UNIFORM AREA IN FIELD OF VIEW AT TIME OF SITE CROSSING.
	GT				MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.*	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥30°	<40%	
OR																
748265 (S192)	A/C GT	WILCOX PLAYA, AREA	32°09'N, 109°51'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.*	10 SEC.	--	--	SL-2 SL-3 SL-4	1 2 2	≥45°	<20%	0% SNOW COVER *S191 - ACQUIRE AND TRACK ANY VISUALLY UNIFORM AREA IN FIELD OF VIEW AT TIME OF SITE CROSSING.
	GT				MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.*	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥30°	<40%	
748300 (S192)	GT	DILLON LAKE, COLORADO	39°35'N, 106°05'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.*	10 SEC.	--	--	SL-2 SL-3 SL-4	1 2 2	≤45°	<20%	0% SNOW DESIRED ON LAKE. ≤ *% ACCEPTABLE. NO ICE ON LAKE DESIRED. ≤ *% ACCEPTABLE. *S191 - ACQUIRE AND TRACK ANY VISUALLY UNIFORM AREA IN FIELD OF VIEW AT TIME OF SITE CROSSING.
	GT				MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.*	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≤30°	<40%	
748275 (S192)	GT	RIO GRANDE LAKE	37°44'N, 107°19'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.*	10 SEC.	--	--	SL-2 SL-3 SL-4	1 2 2	≤45°	<20%	0% SNOW DESIRED ON LAKE. ≤ *% ACCEPTABLE. NO ICE ON LAKE DESIRED. ≤ *% ACCEPTABLE. *S191 - ACQUIRE AND TRACK ANY VISUALLY UNIFORM AREA IN FIELD OF VIEW AT TIME OF SITE CROSSING.
	GT				MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	10 SEC.*	10 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≤30°	<40%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B8-1. Remote Sensing Techniques Development (700 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS: S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS: SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
748006 (S192)		FULL MOON ±3/4 DAY	--		DESIRED	PHOTOS: 3 O.L.: — FILM: STD FILTER: STD	PHOTOS: 3 O.L.: — FILM: STD FILTER: STD	70 SEC. (10 SEC. EACH FOR 7 TARGETS)	30 SEC.	--	--	SL-2 SL-3 SL-4	1 2 2	*	—	*DATA SCAN IS TO BE PERFORMED WHILE S/C IS IN EARTH SHADOW. S191 TARGETS - 1. 5° AHEAD OF MOON'S LEADING EDGE. 2. ADJACENT TO MOON'S LEADING EDGE, JUST OFF MOON. 3. ADJACENT TO MOON'S LEADING EDGE, JUST ON MOON. 4. AT CENTER OF MOON. 5. ADJACENT TO MOON'S TRAILING EDGE, JUST ON MOON. 6. ADJACENT TO MOON'S TRAILING EDGE, JUST OFF MOON. 7. 5° OFF OF MOON'S TRAILING EDGE. S193 - TRANSMITTER IS TO BE OFF DURING DATA TAKE.
					MANDATORY	PHOTOS: 3 O.L.: — FILM: STD FILTER: STD	PHOTOS: 3 O.L.: — FILM: STD FILTER: STD	70 SEC. (10 SEC. EACH FOR 7 TARGETS)	30 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	*	—	
748997 (S192)		HIGH UNIFORM THICK CLOUD DECK	--		DESIRED	PHOTOS: 7 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 20% FILM: STD FILTER: STD	60 SEC.*	60 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	>12° <20°	100%	*S191 - 30 SEC. STRIP IN ZLV FOLLOWED BY 30 SEC. STRIP 4° TO LEFT OF GROUND TRACK IS DESIRED. S193 - TRANSMITTER IS TO BE OFF DURING DATA TAKE.
					MANDATORY	PHOTOS: 7 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 20% FILM: STD FILTER: STD	60 SEC.*	60 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>12° <20°	100%	
748420 (S192)		HOUSTON AREA TEST SITE (HATS), ROSENBERG RANGELAND OR ALTERNATE SITES SELECTED FROM FOLLOWING: 748410; 748420; 748435; 748465; 748475.	29°33'N, 95°57'W (15 NM RADIUS)		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 20% FILM: STD FILTER: STD	10 SEC. ONE TARGET/PASS*	30 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	≥45°	≤10%	SNOW COVER - DESIRED 0%, MANDATORY 0%. *S191 - VISUALLY UNIFORM TARGET OF OPPORTUNITY WITHIN THE S192 FIELD-OF-VIEW. DATA TAKE SHOULD BE ACQUIRED AS NEAR S191 4° PITCH FORWARD POSITION AS POSSIBLE. S193 - TRANSMITTER IS TO BE OFF DURING DATA TAKE.
					MANDATORY	PHOTOS: 4 O.L.: 60% FILM: ANY FILTER: ANY	PHOTOS: 4 O.L.: 20% FILM: STD FILTER: STD	10 SEC. ONE TARGET/PASS*	30 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥30°	≤20%	
748424 (S192)		HARDIN COUNTY, IOWA OR ALTERNATE SITES SELECTED FROM FOLLOWING: 748205; 748383.	42°24'N, 93°15'W (15 NM RADIUS)		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 20% FILM: STD FILTER: STD	10 SEC. ONE TARGET/PASS*	30 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	≥30°	≤10%	SNOW COVER - DESIRED 0%, MANDATORY 0%. *S191 - VISUALLY UNIFORM TARGET OF OPPORTUNITY WITHIN THE S192 FIELD-OF-VIEW. DATA TAKE SHOULD BE ACQUIRED AS NEAR S191 4° PITCH FORWARD POSITION AS POSSIBLE.
					MANDATORY	PHOTOS: 4 O.L.: 60% FILM: ANY FILTER: ANY	PHOTOS: 4 O.L.: 20% FILM: STD FILTER: STD	10 SEC. ONE TARGET/PASS*	30 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥20°	≤20%	
748320 (S192)	A/C	WHITE SANDS, NEW MEXICO GYPSUM BEDS	32°45'N, 106°17'W (15 NM RADIUS)		DESIRED	PHOTOS: 7 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 20% FILM: STD FILTER: STD	30 SEC.	60 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	≥45°	≤10%	SNOW - DESIRED 0%, MANDATORY 0%. S193 - TRANSMITTER IS TO BE OFF DURING DATA TAKE.
					MANDATORY	PHOTOS: 7 O.L.: 60% FILM: ANY FILTER: ANY	PHOTOS: 6 O.L.: 20% FILM: STD FILTER: STD	30 SEC.	60 SEC.	--	--	SL-2 SL-4	1 1	≥45°	≤20%	
748598 (S192)		GULF OF MEXICO	20°00'-30°00'N, 82°00'-97°00'W		DESIRED	PHOTOS: * 3 O.L.: 10% FILM: STD FILTER: STD	--	** 10 SEC.	*	** 45 SEC., RAD/SCAT, CTC POLAR: VV 60 SEC., ALT, MODE 2	** 30 SEC.	SL-2	1	≥30°	≤20%	SURFACE WIND VELOCITY OF ≤15 KNOTS IS DESIRED. OUT OF SUN GLITTER PATTERN. *INTERFERENCE CHECK - 1. FIRST TURN ON S192. 2. THEN TURN ON S190 TO PROVIDE CONTINUOUS COVERAGE. 3. TURN ON AND OFF EACH OF THE SENSORS INDICATED BY A ** , ONE AT A TIME.
					MANDATORY	PHOTOS: * 3 O.L.: 10% FILM: ANY FILTER: ANY	--	** 10 SEC.	*	** 45 SEC., RAD/SCAT, CTC POLAR: VV 60 SEC., ALT, MODE 2	** 30 SEC.	SL-2	1	≥30°	≤20%	
					DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 9 O.L.: 20% FILM: STD FILTER: STD	10 SEC./SITE THREE SITES *	90 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>45° <65°	<10%	S193 - TRANSMITTER IS TO BE OFF DURING DATA TAKE. SURFACE WIND VELOCITY OF <15 KNOTS IS DESIRED. OUT OF SUN GLITTER PATTERN. *S191 - VISUALLY UNIFORM WATER SITES WITHIN THE S192 FIELD-OF-VIEW. DATA TAKE SHOULD BE ACQUIRED AS NEAR S191 4° PITCH FORWARD POSITION AS POSSIBLE.
					MANDATORY	PHOTOS: 10 O.L.: 60% FILM: ANY FILTER: ANY	PHOTOS: 9 O.L.: 20% FILM: STD FILTER: STD	10 SEC./SITE THREE SITES*	90 SEC.	--	--	SL-2 SL-4	1 1	>45° <65°	<20%	
749528 (S193)	A/C	LAKE MICHIGAN	42°00'-44°00'N, 86°45'-87°30'W		DESIRED	PHOTOS: 2 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	RAD/SCAT* ITNC 80 SEC. ON 3 SEC. STANDBY 10 SEC. ON	40 SEC.	SL-2 SL-3 SL-4	3 3 3	≤70°	<20%	NO RAIN OVER SITE. *IF CLOUD COVER >20% USE CTNC MODE. SEE ALSO TASKS 516 AND 519 FOR LAKE COVERAGE.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	RAD/SCAT* ITNC 80 SEC. ON 3 SEC. STANDBY 10 SEC. ON	40 SEC.	SL-2 SL-3 SL-4	1 1 1	≤70°	<20%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B8-1. Remote Sensing Techniques Development (700 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS: S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS: SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
749007 (S193)		DEEP SPACE (EXCLUDING SUN AND EARTH BUT MAY INCLUDE MOON)	--		DESIRED	PHOTOS: 2 O.L.: — FTLM: STD FILTER: STD	--	--	--	300 SEC. RAD CTC POLAR: H, V	300 SEC.	SL-2 SL-3 SL-4	1 2 2	—	—	S193 - ROLL OFFSET - 0°; PITCH OFFSET - 0°.
					MANDATORY	PHOTOS: 2 O.L.: — FTLM: ANY FILTER: ANY	--	--	--	120 SEC. RAD CTC POLAR: H, V	--	SL-2 SL-3 SL-4	1 1 1	—	—	
749008 (S193)		DEEP SPACE (EXCLUDING SUN, EARTH, AND MOON)	--		DESIRED	PHOTOS: 2 O.L.: — FTLM: STD FILTER: STD	--	--	--	*	300 SEC.	SL-2 SL-3 SL-4	2 2 2	—	—	S193 - ROLL OFFSET - 0°; PITCH OFFSET - 0°. * 300 SEC., RAD/SCAT CTC, POLAR: HH 120 SEC. RAD/SCAT CTC, POLAR: VV
					MANDATORY	PHOTOS: 2 O.L.: — FTLM: ANY FILTER: ANY	--	--	--	*	--	SL-2 SL-3 SL-4	1 1 1	—	—	
749320 (S193)		WHITE SANDS, NEW MEXICO GYPSUM BEDS	32°45'N, 106°17'W (15 NM RADIUS)		DESIRED	PHOTOS: 2 O.L.: 10% FTLM: STD FILTER: STD	--	--	--	*	60 SEC.	SL-2 SL-3 SL-4	1 2 2	≥30°	≤20%	NO RAIN OVER TARGET. *45 SEC. RAD/SCAT CTC, POLAR: VV 50 SEC. ALT MODE 2
					MANDATORY	PHOTOS: 2 O.L.: 10% FTLM: ANY FILTER: ANY	--	--	--	**	--	SL-2 SL-3 SL-4	1 1 1	≥20°	≤30%	** 45 SEC. RAD/SCAT CTC, POLAR: VV 45 SEC. ALT MODE 2 S193 - SENSORS CANNOT BE OPERATED SIMULTANEOUSLY. A SEPARATE PASS (DATA TAKE) IS REQUIRED FOR EACH SENSOR CONFIGURATION.
749233 (S193)	A/C	GREAT SALT LAKE DESERT	41°00'N, 113°30'W (15 NM RADIUS)		DESIRED	PHOTOS: 2 O.L.: 10% FTLM: STD FILTER: STD	--	--	--	*	--	SL-2 SL-3 SL-4	1 2 2	≥30°	≤20%	NO RAIN OVER TARGET. * 50 SEC. SCAT ON, 3 SEC. STANDBY, 10 SEC. ON. CTC, POLAR: HH, VV 50 SEC. ALT MODE 5
					MANDATORY	PHOTOS: 2 O.L.: 10% FTLM: ANY FILTER: ANY	--	--	--	**	--	SL-2 SL-3 SL-4	1 1 1	≥20°	≤30%	** 45 SEC. SCAT ON, 3 SEC. STANDBY, 10 SEC. ON. CTC, POLAR: HH,VV 45 SEC. ALT MODE 5 S193 - SENSORS CANNOT BE OPERATED SIMULTANEOUSLY, A SEPARATE PASS (DATA TAKE) IS REQUIRED FOR EACH SENSOR CONFIGURATION.
749183 (S193)	A/C	BAJA, CALIF. (LAND/WATER INTERFACE)	21°30'N, 111°30'W 25°30'N, 106°00'W 29°00'N, 118°30'W 33°00'N, 112°30'W		DESIRED	PHOTOS: 4 O.L.: 10% FTLM: ANY FILTER: ANY	--	--	--	*	120 SEC.	SL-2 SL-3 SL-4	2 2 2	≥30°	≤20%	NO RAIN OVER TARGET. * 120 SEC. RAD CTC, POLAR: H,V * 120 SEC. SCAT CTC, POLAR: HH, VV
					MANDATORY	PHOTOS: 4 O.L.: 10% FTLM: ANY FILTER: ANY	--	--	--	*	120 SEC.	SL-2 SL-3 SL-4	1 1 1	≥20°	≤30%	S193 - SENSORS CANNOT BE OPERATED SIMULTANEOUSLY, A SEPARATE PASS (DATA TAKE) IS REQUIRED FOR EACH SENSOR CONFIGURATION. ASCENDING PASS IS PREFERRED.
749691 (S193)	A/C	NORTH ATLANTIC OCEAN	32°00'N, 81°00'W 50°00'N, 65°00'W 50°00'N, 10°00'W 32°00'N, 55°00'W		DESIRED	PHOTOS: 7 O.L.: 10% FTLM: STD FILTER: STD	--	--	--	*	120 SEC.	SL-2 SL-3 SL-4	2 2 2	≥30°	≤20%	OCEAN WINDS >35 KNOTS. NO RAIN OVER TARGET. *S193 - DESIRED: 1. 120 SEC., RAD/SCAT, ITC, POLARIZATION VV, VH. 2. 240 SEC., ALT, MODE 2. 3. 120 SEC., RAD/SCAT, ITC, POLARIZATION HV, HH. MANDATORY: 1. 120 SEC., RAD/SCAT, ITC, POLARIZATION VV, VH. 2. 240 SEC., ALT, MODE 2. 3. 120 SEC., RAD/SCAT, ITC, POLARIZATION HV, HH. AFTER EACH LISTED RAD/SCAT ON MODE TURN TO STANDBY FOR 3 SEC. AND RETURN TO ON FOR 10 SEC.. S193 - SENSORS CANNOT BE OPERATED SIMULTANEOUSLY, A SEPARATE PASS (DATA TAKE) IS REQUIRED FOR EACH SENSOR CONFIGURATION.
					MANDATORY	PHOTOS: 7 O.L.: 10% FTLM: ANY FILTER: ANY	--	--	--	*	--	SL-2 SL-3 SL-4	1 1 1	≥20°	≤30%	
749636 (S193)	A/C	PUERTO RICAN TRENCH	19°00'-21°00'N, 65°00'-67°00'W		DESIRED	PHOTOS: 4 O.L.: 10% FTLM: STD FILTER: STD	--	--	--	240 SEC. ALT MODE 1 240 SEC. ALT MODE 2	--	SL-2 SL-3 SL-4	2 2 2	≥30°	≤20%	NO RAIN OVER TARGET. S193 - SENSORS CANNOT BE OPERATED SIMULTANEOUSLY, A SEPARATE PASS (DATA TAKE) IS REQUIRED FOR EACH SENSOR CONFIGURATION.
					MANDATORY	PHOTOS: 4 O.L.: 10% FTLM: ANY FILTER: ANY	--	--	--	60 SEC. ALT MODE 1 60 SEC. ALT MODE 2	--	SL-2 SL-3 SL-4	1 1 1	≥20°	≤30%	
749598 (S193)	A/C	GULF OF MEXICO	20°00'-30°00'N, 82°00'-97°00'W		DESIRED	PHOTOS: 7 O.L.: 10% FTLM: STD FILTER: STD	--	--	--	*	120 SEC	SL-2 SL-3 SL-4	2 2 2	≥30°	≤20%	OCEAN SURFACE WINDS <20 KNOTS. NO RAIN OVER TARGET. *S193 - DESIRED: 1. 120 SEC., RAD/SCAT, ITC, POLARIZATION VV, VH. 2. 120 SEC., RAD/SCAT, ITC, POLARIZATION HV, HH. 3. ALT MODE 6, NADIR SEEKER MODE UNTIL ACQUISITION. 4. 240 SEC., ALT, MODE 2. MANDATORY: 1. 120 SEC., RAD/SCAT, ITC, POLARIZATION VV, VH. 2. 120 SEC., RAD/SCAT, ITC, POLARIZATION HV, HH. 3. ALT MODE 6, NADIR SEEKER MODE UNTIL ACQUISITION. 4. 60 SEC., ALT MODE 2. AFTER EACH LISTED RAD/SCAT ON MODE TURN TO STANDBY FOR 3 SEC. AND RETURN TO ON FOR 10 SEC.. S193 - SENSORS CANNOT BE OPERATED SIMULTANEOUSLY, A SEPARATE PASS (DATA TAKE) IS REQUIRED FOR EACH SENSOR CONFIGURATION.
					MANDATORY	PHOTOS: 7 O.L.: 10% FTLM: ANY FILTER: ANY	--	--	--	*	--	SL-2 SL-3 SL-4	1 1 1	≥20°	≤30%	

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Table B8-1. Remote Sensing Techniques Development (700 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS						TEST CONDITIONS				UNIQUE TEST CONDITIONS
						S190A	S190B	S191	S192	S193	S194	SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	
749262 (S193)		FORT HUACHUCA, ARIZONA	31°35'N, 110°25'W		DESIRED	PHOTOS: 2 O.L.: — FILM: STD FILTER: STD	--	--	--	60 SEC., SCAT, CTC POLAR: HH, VV	120 SEC.	SL-2 SL-3 SL-4	2 2 2	≥30°	≤20%	NO RAIN OVER TARGET S193 - ROLL OFFSET - 29.4°; PITCH OFFSET - 0°.
					MANDATORY	PHOTOS: 2 O.L.: — FILM: ANY FILTER: ANY	--	--	--	60 SEC., SCAT, CTC POLAR: HH, VV	--	SL-2 SL-3 SL-4	1 1 1	≥20°	≤30%	
750007 (S194)		DEEP SPACE (EXCLUDING SUN AND EARTH BUT MAY INCLUDE MOON)	--		DESIRED	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	--	--	--	60 SEC. SCAT CTC, POLAR: VV, HH 60 SEC. ALT MODE 2	300 SEC.	SL-2 SL-3 SL-4	1 1 1	—	—	SEQUENCE OF SENSOR OPERATION FOR INTERFERENCE CHECK (DESIRED AND MANDATORY): S194 ON FOR 60 SEC. PRIOR TO STARTING THE FOLLOWING SEQUENCE: 1. S193 SCAT ON FOR 60 SEC. 2. S193 SCAT OFF FOR 60 SEC. 3. S193 ALT ON FOR 60 SEC. 4. S193 ALT OFF FOR 60 SEC. S193 SCAT: ROLL OFFSET - 0°; PITCH OFFSET - 0°.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	60 SEC., SCAT, CTC POLAR: HH, VV 60 SEC., ALT, MODE 2	300 SEC.	SL-2 SL-3 SL-4	1 1 1	—	—	
750598 (S194)	A/C	GULF OF MEXICO	20°00'-30°00'N, 82°00'-97°00'W		DESIRED	PHOTOS: 9 O.L.: 10% FILM: STD FILTER: STD	--	--	--	60 SEC. RAD/SCAT, CTC POLAR: VV, HH	180 SEC.	SL-2 SL-3 SL-4	2 2 2	≥30°	≤20%	SURFACE WIND VELOCITY ≤25 KNOTS. NO RAIN OVER TARGET. S193 RAD/SCAT: ROLL OFFSET - 0°; PITCH OFFSET - 0°.
					MANDATORY	PHOTOS: 9 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	60 SEC. RAD/SCAT, CTC POLAR: VV, HH	180 SEC.	SL-2 SL-3 SL-4	1 1 1	≥20°	≤30%	
750233 (S194)	A/C	GREAT SALT LAKE DESERT	41°00'N, 113°30'W (15 NM RADIUS)		DESIRED	PHOTOS: 4 O.L.: 10% FILM: STD FILTER: STD	--	--	--	60 SEC. RAD/SCAT, CTC POLAR: VV	60 SEC.	SL-2 SL-3 SL-4	2 2 2	≥30°	≤20%	NO RAIN OVER TARGET.
					MANDATORY	PHOTOS: 4 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	60 SEC. RAD/SCAT, CTC POLAR: VV	60 SEC.	SL-2 SL-3 SL-4	1 1 1	≥20°	≤30%	
750860 (S194)		AR RUB AL KHALI DESERT	17°23'N, 46°53'E (15 NM RADIUS)		DESIRED	PHOTOS: 9 O.L.: 10% FILM: STD FILTER: STD	--	--	--	10 SEC. RAD/SCAT, CTC, POLAR: VV, HH 10 SEC. ALT, MODE 2	180 SEC.	SL-2 SL-3 SL-4	2 2 2	≥30°	≤20%	NO RAIN OVER TARGET SEQUENCE OF SENSOR OPERATION (DESIRED AND MANDATORY): S194 ON FOR 60 SEC. PRIOR TO THE FOLLOWING: 1. S193 RAD/SCAT ON FOR 10 SEC. (SL-2), 30 SEC. (SL-3, SL-4) 2. S193 RAD/SCAT OFF FOR 10 SEC. 3. S193 ALT ON FOR 10 SEC. (SL-2 ONLY) 4. S193 ALT OFF S193 RAD/SCAT: ROLL OFFSET - 0°; PITCH OFFSET - 0°
		OR			MANDATORY	PHOTOS: 4 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	10 SEC. RAD/SCAT, CTC, POLAR: VV, HH 10 SEC. ALT, MODE 2	180 SEC.	SL-2 SL-3 SL-4	1 1 1	≥20°	≤30%	
750855 (S194)		SAHARA DESERT	20°00'-25°00'N, 00°00'-07°00'W		DESIRED	PHOTOS: 9 O.L.: 10% FILM: STD FILTER: STD	--	--	--	10 SEC. RAD/SCAT, CTC, POLAR: VV, HH 10 SEC. ALT, MODE 2	180 SEC.	SL-2 SL-3 SL-4	2 2 2	≥30°	≤20%	NO RAIN OVER TARGET SEQUENCE OF SENSOR OPERATION (DESIRED AND MANDATORY): S194 ON FOR 60 SEC. PRIOR TO THE FOLLOWING: 1. S193 RAD/SCAT ON FOR 10 SEC. 2. S193 RAD/SCAT OFF FOR 10 SEC. 3. S193 ALT ON FOR 10 SEC. 4. S193 ALT OFF S193 RAD/SCAT: ROLL OFFSET - 0°; PITCH OFFSET - 0°
					MANDATORY	PHOTOS: 4 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	10 SEC. RAD/SCAT, CTC. POLAR: VV, HH 10 SEC. ALT, MODE 2	180 SEC.	SL-2 SL-3 SL-4	1 1 1	≥20°	≤30%	
750183 (S194)		BAJA, CALIFORNIA	21°30'N, 111°30'W 25°30'N, 106°00'W 29°00'N, 118°30'W 33°00'N, 112°30'W		DESIRED	PHOTOS: 9 O.L.: 10% FILM: STD FILTER: STD	--	--	--	--	180 SEC.	SL-2 SL-3 SL-4	2 2 2	≥30°	≤20%	NO RAIN OVER TARGET ASCENDING PASS IS PREFERRED.
					MANDATORY	PHOTOS: 9 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	180 SEC.	SL-2 SL-3 SL-4	1 1 1	≥20°	≤30%	
750528 (S194)	A/C	LAKE MICHIGAN	42°00'-44°00'N, 86°45'-87°30'W		DESIRED	PHOTOS: 2 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	RAD/SCAT* ITNC 80 SEC. ON 3 SEC. STANDBY 10 SEC. ON	40 SEC.	SL-2 SL-3 SL-4	3 3 3	≤70°	<20%	NO RAIN OVER SITE. *IF CLOUD COVER >20% USE CTNC MODE. SEE ALSO TASKS 516 AND 519 FOR LAKE COVERAGE.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	RAD/SCAT* ITNC 80 SEC. ON 3 SEC. STANDBY 10 SEC. ON	40 SEC.	SL-2 SL-3 SL-4	1 1 1	≤70°	<20%	

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800 Series

REGIONAL PLANNING AND DEVELOPMENT

Land use mapping, crop identification, acreage mensuration, urban studies, land classification, effects of strip mining, effluent water patterns, recreation site analysis, water resource development and management, transportation planning, asess fire damage and erosion sources.

Purposes

Task

801 Obtain data from the Washington - Baltimore area and from the Alice Springs, Australia area. Permit an examination of questions which relate to the practical issues in improving semi-automatic land use mapping.

802 Obtain data over four basic test areas within the Wabash Valley River Basin with emphasis on crop identification, acreage mensuration and urban studies. Evaluate the applications of EREP measurements for use in specific earth resources problems. Determine the identification accuracy due to different spectral resolutions and different complimentary data sources. Determine the desirable measurements needed in future earth resources systems.

803 Evaluate the application of EREP sensors to land classification in the Houston, Texas area.

804 Obtain data on the forest cover, rangelands, and alpine cover of the state of Colorado. Survey hydrologic features involving snow cover and mountain lakes. Map land forms, avalanche and land slide hazards, and alpine soil and moisture and permafrost areas.

805 Determine the amount of land use information retrievable from satellite obtained sources for the state of New York. Determine the degree of accuracy to be obtained from such sources of information, the significance of seasonal changes, and the amount of information retrievable from various sensor sources at varying degrees of image degradation and/or resolution enhancement.

806 Determine land use classification using Skylab data.

807 Determine land use classification using Skylab data.

816 Detect strip mines in the northeast U.S. and ascertain the ecological effects of these strip mines, including acid mine drainage, sediment loading and deposits, and water turbidity.

817 Monitor environmental changes which will occur as a result of construction and long-term operation of the Oakley Reservoir in the state of Illinois.

818 Obtain data on the regional configurations of human activities in the natural environment of Japan.

Monitor the temperature distribution of heated water caused by the outflow of cooling water, in the area where the thermal power plants are highly concentrated. Observe effluent patterns of water into a river and/or sea. Observe the mixing state and distribution of inland sea water and oceanic water in the Seto Inland Sea.

819 Identify and map categories of land use, vegetation, soils, and water bodies, and natural and cultural features of special interest in recreation site analysis as related to Oakland County, Michigan.

820 Detect, identify and delineate land surface features in the state of Maine as related to environmental quality/ecology, geology, hydrology, and geography.

831 Obtain data on pollutant concentrations in areas of the state of California where there are no air monitoring stations. Identify and map various features related to water resource development and management. Evaluate geological factors relative to transportation planning and design studies, and evaluate the impact of highway construction on the environment. Inventory flooded land and wetlands for mosquito abatement planning and identify and track discrete waste discharges to surface waters. Monitor seasonal change in wetlands, and inventory wild animal, waterfowl, and marine mammal habitats and migrations. Locate, identify and evaluate oilspills, thermal discharges, and human day-use of fish and game facilities. Assess fine damage and erosion sources. Differentiate between major classes of land use, major crop types, and individual crops. Evaluate crop damage due to air pollution episodes, disease epidemics, and insect outbreaks.

832 Obtain data in three different geomorphic and geographic areas in North Carolina for use in statewide regional land use planning. Obtain data from the Coastal Plain and Piedmont areas of North Carolina in support of geologic mapping programs, for solving regional surface and subsurface hydrologic problems, and for management of forest and water resources. Evaluate current patterns in the ocean and study the sediment distribution and dispersion within the estuaries and lagoons as they bear upon commercial and sports fisheries.

833 Use remote sensing information in the overall understanding and control of national resources in the Amazon Basin by the Brazilian government.

834 Obtain data related to agriculture, forestry, oceanography, cartography and land use, hydrology, and geology of Thailand.

835 Determine the usefulness of satellite photographs for geologic mapping, mineral exploration and land use planning in the state of South Carolina.

836 Obtain data on oceanography, agriculture, and hydrology applicable to resource management activities in India.

837 Investigate geologic, mineral and water resources of the state of Maryland.

838 Delineate natural resource characteristics and their temporal and spatial changes in Mali.

839 Evaluate the potential of Skylab photographic and infrared imagery for environmental quality, agricultural and forestry, and geographic applications in the state of Ohio.

853 Map the general land use patterns within southern California. Detect land use changes including the general morphology and spread of urban areas. Map the spatial effects of pollution in the basins of southern California. Develop models to show "quality of environment" as detectable from Skylab imagery.

854 Assess the role of remote sensors on high altitude platforms for the comparative study of selected U.S. urban areas. Detect changes in these areas since the 1970 census. Test the utility of the satellite sensors and sensor platforms to monitor gross changes in urban environments.

866 Measure changes in surface water conditions and quantity and quality of waterfowl production habitat in the north-central U.S.

867 Design and test the feasibility of a regional evironmental information system. Develop a national land use classification system, including maps of land use in a given region, development of methods for digitizing land use data. Determine land use boundaries, areas devoted to each type of land use and the accuracy of these data in the target areas. Correlate air-water pollution effects with certain land use classifications. Evaluate Skylab photographic data from the Baltimore, Maryland area in terms of the ability to replicate the two-level land use data sets which will be compiled for CARETS. Determine user response and receptivity to the availability of CARETS coverage by EREP imaging sensors. Determine the extent to which space data, from both the multispectral scanner and photographic sensors, can be used to assess certain energy exchange parameters crucial to the measurement of the climatological impact of drastic land use changes such as urbanization and land clearing.

881 Map selected vegetation-soil systems and land forms in the southern California desert.

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Table B9-1. Regional Planning and Development (800 Series)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
801676 (520)	A/C	WASHINGTON - BALTIMORE AREA	38°30'-39°40'N 76°00'-77°30'W		DESIRED	PHOTOS: 3 O.L.: 60% FTLM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FTLM: *EK3414 FILTER: W-12	--	28 SEC.	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>30°	0%	SNOW COVER; 0% DESIRED, 0% MANDATORY. * S0242 IS SECOND PRIORITY, NO FILTER.
					MANDATORY	PHOTOS: 3 O.L.: 60% FTLM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FTLM: *EK3414 FILTER: W-12	--	28 SEC.	--	--	ANY 2 MISSIONS	2	>20°	<30%	
801951 (520)		ALICE SPRINGS, AUSTRALIA	22°00'- 24°00'S 132°00'-134°00'E		DESIRED	PHOTOS: 8 O.L.: 60% FTLM: STD FILTER: STD	PHOTOS: 12 O.L.: 60% FTLM: *EK3414 FILTER: W-12	--	30 SEC.	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>30°	0%	SNOW COVER; 0% DESIRED, 0% MANDATORY. * S0242 IS SECOND PRIORITY, NO FILTER.
					MANDATORY	PHOTOS: 8 O.L.: 60% FTLM: STD FILTER: STD	PHOTOS: 12 O.L.: 60% FTLM: *EK3414 FILTER: W-12	--	30 SEC.	--	--	ANY 2 MISSIONS	2	>20°	<30%	
802508 (397)	A/C	WABASH RIVER BASIN	37°45'-41°45'N 84°45'-89°00'W		DESIRED	PHOTOS: 4 O.L.: 15% FTLM: STD FILTER: STD	PHOTOS: 5 O.L.: 15% FTLM: S0242 FILTER: —	2 SEC*	50 SEC.	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>30°	0%	PRIMARY EMPHASIS TO BE PLACED ON OBTAINING DATA DURING MAY TIME PERIOD. MANDATORY SENSOR REQUIREMENTS CONSIST OF S191 AND S192 OR S190A AS A BACKUP. * S191 SITES: 38°06'N, 88°00'W (802505); 38°25'N, 86°30'W (802515); and 39°03'N, 86°28'W (802520) ON SL-2, SL-3, AND SL-4 RESPECTIVELY ** 38°06'N, 88°00'W (802505) IS MANDATORY AND MAY BE OBTAINED ON ANY MISSION.
					MANDATORY	PHOTOS: 4 O.L.: 15% FTLM: STD FILTER: STD	--	2 SEC.**	50 SEC.	--	--	ANY	1	>25°	≤30%	
803263 (581)	A/C	HILL COUNTY, MONTANA	48°40'- 48°45'N 109°46'-110°03'W		DESIRED	PHOTOS: 2 O.L.: 60% FTLM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FTLM: *EK3443 FILTER: W-12	--	5 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	>30°	0%	*S0242 AND EK3414 ALSO ACCEPTABLE IN ORDER OF PREFERENCE
					MANDATORY	PHOTOS: 2 O.L.: 10% FTLM: STD FILTER: STD	--	-- OR	5 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>20°	<30%	
803378 (581)	A/C	HOLT COUNTY, NEBRASKA	42°32'- 42°43'N, 95°52'- 99°00'W		DESIRED	PHOTOS: 2 O.L.: 60% FTLM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FTLM: *EK3443 FILTER: W-12	--	5 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	>30°	0%	*S0242 AND EK3414 ALSO ACCEPTABLE IN ORDER OF PREFERENCE
					MANDATORY	PHOTOS: 2 O.L.: 10% FTLM: STD FILTER: STD	--	-- OR	5 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>20°	<30%	
803486 (581)	A/C	HARDIN COUNTY, IOWA	42°22'- 42°27'N, 93°08'- 93°22'W		DESIRED	PHOTOS: 2 O.L.: 60% FTLM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FTLM: *EK3443 FILTER: W-12	--	5 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	>30°	0%	*S0242 AND EK3414 ALSO ACCEPTABLE IN ORDER OF PREFERENCE
					MANDATORY	PHOTOS: 2 O.L.: 10% FTLM: STD FILTER: STD	--	-- OR	5 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>20°	<30%	
803560 (581)	A/C	WORTH COUNTY, GEORGIA	31°33'- 31°38'N, 83°45'- 83°51'W		DESIRED	PHOTOS: 2 O.L.: 60% FTLM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FTLM: *EK3443 FILTER: W-12	--	5 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	>30°	0%	*S0242 AND EK3414 ALSO ACCEPTABLE IN ORDER OF PREFERENCE
					MANDATORY	PHOTOS: 2 O.L.: 10% FTLM: STD FILTER: STD	--	-- OR	5 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>20°	<30%	
803178 (581)		IMPERIAL COUNTY, CALIFORNIA	32°43'- 33°04'N 115°18'-115°30'W		DESIRED	PHOTOS: 2 O.L.: 60% FTLM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FTLM: *EK3443 FILTER: W-12	--	5 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	>30°	0%	*S0242 AND EK3414 ALSO ACCEPTABLE IN ORDER OF PREFERENCE
					MANDATORY	PHOTOS: 2 O.L.: 10% FTLM: STD FILTER: STD	--	-- OR	5 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>20°	<30%	

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Table B9-1. Regional Planning and Development (800 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS: S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS: SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
803431 (581)		LAKE HOUSTON, TEXAS	29°55'-30°03'N, 95°06'-95°10'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: S0242 FILTER: —	--	3 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	>30°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: ANY FILTER: ANY	--	--	OR 3 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>20°	<30%	
803415 (581)		EAGLE LAKE, TEXAS (AGRICULTURE)	29°34'N, 96°21'W (5 NM RADIUS)		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: EK3443 FILTER: W-12	5 SEC.*	5 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	>30°	0%	*S191 SITE PRIORITY: 6 ALTERNATE SITE TO 803263, 803378, 803486, 803560, AND 803178.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	--	--	OR 5 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>20°	<30%	
803447 (581)		ANAHUAC, TEXAS	29°43'N, 94°36'W (5 NM RADIUS)		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: EK3443 FILTER: W-12	5 SEC.*	5 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	>30°	0%	*S191 SITE PRIORITY: 7 ALTERNATE SITE TO 803263, 803378, 803486, 803560, 803178, AND 803178.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	--	--	OR 5 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>20°	<30%	
803450 (581)	A/C	SABINE NATIONAL FOREST, TEXAS (PINE)	31°16'N, 93°41'W (5 NM RADIUS)		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: *S0242 FILTER: —	5 SEC.**	8 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	>30°	0%	* EK3443 AND EK3414 ALSO ACCEPTABLE, IN ORDER OF PREFERENCE. **S191 SITE PRIORITY: 2
					MANDATORY	NM: PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	--	--	OR 8 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>20°	<30%	
803420 (581)	A/C	ROSENBERG, TEXAS (RANGELAND)	29°33'N, 95°57'W (5 NM RADIUS)		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: S0242 FILTER: —	5 SEC.*	5 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	>30°	0%	*S191 SITE PRIORITY: 1
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	--	--	OR 5 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>20°	<30%	
803411 (581)	A/C	SNOOK, TEXAS	30°22'- 30°26'N 96°22'- 96°30'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: S0242 FILTER: —	--	5 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	>30°	0%	NONE SPECIFIED.
					MANDATORY	NM: PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	--	--	OR 5 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>20°	<30%	
803425 (581)	A/C	SAN BERNARD, TEXAS (WETLANDS)	28°53'N, 95°32'W (5 NM RADIUS)		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: S0242 FILTER: —	5 SEC.*	5 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	>30°	0%	*S191 SITE PRIORITY: 3
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	--	--	OR 5 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>20°	<30%	
803453 (581)	A/C	HATS (COASTAL WETLANDS)	29°33'N, 93°34'W 27°40'N, 96°32'W 30°10'N, 94°10'W 26°10'N, 97°10'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	--	19 SEC.	--	--	SL-2 SL-3 SL-4	2 2 2	>30°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: -- O.L.: FILM: FILTER:	--	OR 12 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>20°	<30%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B9-1. Regional Planning and Development (800 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS: S190A	SENSOR REQUIREMENTS: S190B	SENSOR REQUIREMENTS: S191	SENSOR REQUIREMENTS: S192	SENSOR REQUIREMENTS: S193	SENSOR REQUIREMENTS: S194	TEST CONDITIONS: SEASONAL REQUIREMENTS	TEST CONDITIONS: NUMBER PASSES	TEST CONDITIONS: SUN ANGLE	TEST CONDITIONS: CLOUD COVER	UNIQUE TEST CONDITIONS
803994 (581)		GULF HURRICANE.	RT TARGET OF OPPORTUNITY		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	—	19 SEC.	—	—	ANY MISSION	*	>30°	ANY	TARGET OF OPPORTUNITY *DESIRE ANY AVAILABLE DATA
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: O.L.: FILM: FILTER:	—	12 SEC.	—	—	ANY MISSION	1	>20°	ANY	
803435 (581)	A/C	HATS (URBAN)	29°46'N, 95°12'W (5 NM RADIUS)		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: S0242 FILTER: —	5 SEC.*	16 SEC.	—	—	SL-2 SL-3 SL-4	2 2 2	>30°	0%	*S191 SITE PRIORITY: 5
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	—	— OR	10 SEC.	—	—	SL-2 SL-3 SL-4	1 1 1	>20°	<30%	
803410 (581)	A/C	LAKE SOMERVILLE	30°19'N, 96°34'W (5 NM RADIUS)		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: S0242 FILTER: —	5 SEC.*	3 SEC.	—	—	SL-2 SL-3 SL-4	2 2 2	>30°	0%	*S191 SITE PRIORITY: 4
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	—	— OR	3 SEC.	—	—	SL-2 SL-3 SL-4	1 1 1	>20°	<30%	
804311 (398)		INDIAN PEAKS, COLO	39°52'30"-40°30'00"N, 105°15'00"-105°45'00"W		DESIRED	PHOTOS: 2 O.L.: *60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: S0242 FILTER: —	2 SEC 40°03'29"N, 105°37'30"W (804340)	12 SEC.	—	—	MAY AUG - SEP NOV - DEC	1 1 1	>45°	<10%	WEIGHTING FACTOR: 50% SNOW COVER; 10-70% DESIRED, 0-100% MANDATORY *WILL ACCEPT TWO PHOTOGRAPHS WITH 15% O.L..
					MANDATORY	PHOTOS: 1 O.L.: 15% FILM: STD FILTER: STD	—	— OR	12 SEC.	—	—	ANY	1	>35°	<60%	
804293 (398)	A/C	SAN JUAN MOUNTAINS	37°15'00"-38°07'30"N, 106°45'00"-107°52'30"W		DESIRED	PHOTOS: 2 O.L.: *60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: S0242 FILTER: —	2 SEC. 37°44'N, 107°19'W (804290)	18 SEC.	—	—	MAY AUG - SEP NOV - DEC	1 1 1	>45°	<10%	WEIGHTING FACTOR: 50% SNOW COVER; 10-70% DESIRED, 0-100% MANDATORY *WILL ACCEPT TWO PHOTOGRAPHS WITH 15% O.L..
					MANDATORY	PHOTOS: 1 O.L.: 15% FILM: STD FILTER: STD	—	— OR	18 SEC.	—	—	ANY	1	>35°	<60%	
805621 (358)		NEW YORK STATE	43°00'N, 77°00'W 44°10'N, 76°10'W 43°00'N, 73°00'W 41°30'N, 73°30'W		DESIRED	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 60% FILM: *EK3414 FILTER: W-12	—	—	—	—	MAY AUG - SEP NOV - DEC	1 1 1	>30°	<10%	SNOW COVER: <10% DESIRED, <40% MANDATORY *S0242 FILM IS ACCEPTABLE.
					MANDATORY	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 60% FILM: *EK3414 FILTER: W-12	—	—	—	—	ANY	1	>20°	<40%	
805614 (358)		LONG ISLAND, N.Y.	40°30'-41°20'N 72°00'-74°15'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: *EK3414 FILTER: W-12	—	—	—	—	MAY AUG - SEP NOV - DEC	1 1 1	>30°	<10%	SNOW COVER: <10% DESIRED, <40% MANDATORY *S0242 FILM IS ACCEPTABLE.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: *EK3414 FILTER: W-12	—	—	—	—	ANY	1	>20°	<40%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B9-1. Regional Planning and Development (800 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
806413 (9694-3)		SOUTH CENTRAL MEXICO	18°43'N, 97°21'W 18°43'N, 96°08'W 17°28'N, 97°26'W 17°29'N, 96°10'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 60% FILM: S0242 FILTER: —	--	30 SEC.	--	--	SL-2 SL-3 SL-4	1 1 1	>30°	0%	NONE SPECIFIED
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	OR PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	--	OR 30 SEC.	--	--	ANY	1	>30°	<50%	
807364 (9696)		CENTRAL MEXICO	20°20'- 22°00'N, 100°15'-102°00'W		DESIRED	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 7 O.L.: 60% FILM: S0242 FILTER: —	--	--	--	--	SL-2 SL-3 SL-4	1 1 1	>30°	0%	NONE SPECIFIED
					MANDATORY	PHOTOS: 3 O.L.: 15% FILM: STD FILTER: STD	OR PHOTOS: 4 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>30°	< 50%	
816656 (9669)		PENNSYLVANIA TEST SITE	39°00'-40°30'N 80°00'-82°00'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	--	--	--	--	MAY OR AUG - SEP NOV - DEC	1 1	>20°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	OR PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	≤50%	
816657 (9669)		INDIANA TEST SITE	37°00'-39°00'N 86°00'-89°00'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 10 O.L.: 60% FILM: S0242 FILTER: —	--	--	--	--	MAY OR AUG - SEP NOV - DEC	1 1	>20°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	OR PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	≤50%	
816514 (9669)		MID-EASTERN U.S.	37°00'-41°00'N 80°00'-90°00'W		DESIRED	--	--	--	10 SEC.	--	--	MAY OR AUG - SEP	1*	—	0%	* NIGHTTIME PASS.
					MANDATORY	--	--	--	10 SEC.	--	--	ANY	1*	—	<10%	
817506 (341)		OAKLEY RESERVOIR	40°00'N, 89°29'W 40°33'N, 88°25'W 39°37'N, 88°59'W 39°40'N, 89°29'W 40°10'N, 88°00'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: S0242 FILTER: —	--	20 SEC.	--	--	APR - JUN JUL - SEP OCT - DEC	1 1 1	≥30°	0%	SNOW COVER; 0% DESIRED, 0% MANDATORY
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	OR PHOTOS: 2 O.L.: 15% FILM: ANY FILTER: ANY	--	OR 20 SEC.	--	--	ANY	1	≥20°	≤30%	
818901 (021)		SOUTHERN CHUGOKU DISTRICT (JAPAN)	34°00'- 35°00'N 133°00'-134°00'E		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: *EK3443 FILTER: W-12	--	15 SEC.	--	--	MAY NOV - DEC	1 1	>40°	0%	*SECOND PRIORITY FILM IS EK3414 WITH W-12 FILTER. S0242 ALSO ACCEPTABLE
					MANDATORY	PHOTOS: 2 O.L.: 30% FILM: STD FILTER: STD	--	--	OR 15 SEC.	--	--	MAY, NOV OR DEC	1	>20°	≤50%	
818902 (021)		ISE BAY, JAPAN	34°00'- 35°15'N 136°20'-137°20'E		DESIRED	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 15% FILM: *S0242 FILTER: —	--	12 SEC.	--	--	MAY AUG NOV	1 1 1	>40°	0%	*SECOND PRIORITY FILM IS EK3443 WITH W-12 FILTER. EK3414 ALSO ACCEPTABLE
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	--	--	OR 12 SEC.	--	--	ANY	1	>20°	≤80%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B9-1. Regional Planning and Development (800 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS: S190A	SENSOR REQUIREMENTS: S190B	SENSOR REQUIREMENTS: S191	SENSOR REQUIREMENTS: S192	SENSOR REQUIREMENTS: S193	SENSOR REQUIREMENTS: S194	TEST CONDITIONS: SEASONAL REQUIREMENTS	TEST CONDITIONS: NUMBER PASSES	TEST CONDITIONS: SUN ANGLE	TEST CONDITIONS: CLOUD COVER	UNIQUE TEST CONDITIONS
818903 (021)		TSURUGA PENINSULA, JAPAN	35°30'- 36°00'N 135°40'-136°20'E		DESIRED	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 15% FILM: *S0242 FILTER: NONE	--	8 SEC.	--	--	MAY AUG NOV	1 1 1	>40°	0%	*SECOND PRIORITY FILM IS EK3443 WITH W-12 FILTER. EK3414 ALSO ACCEPTABLE
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	--	-- OR	8 SEC.	--	--	ANY	1	>20°	≤80%	
818906 (021)		SETONAIKAI, JAPAN	32°30'- 35°00'N 130°30'-135°30'E		DESIRED	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	--	--	15 SEC.	--	--	MAY AUG NOV DEC	1 1 1 1	>40°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD	--	-- OR	15 SEC.	--	--	ANY	1	>20°	≤50%	
819522 (443)	A/C	OAKLAND COUNTY, MICHIGAN	42°20'-43°00'N 83°00'-83°50'W		DESIRED	PHOTOS: 3 O.L.: 20% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 20% FILM: EK3443 FILTER: W-12	--	5 SEC.	--	--	MAY OR AUG - SEP NOV - DEC	1 1	>30°	<10%	SNOW COVER; 0% DESIRED, 0% MANDATORY
					MANDATORY	PHOTOS: 3 O.L.: 20% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 20% FILM: EK3443 FILTER: W-12	--	5 SEC.	--	--	MAY OR AUG - SEP NOV - DEC	1 1	>30°	<30%	
820632 (435)		MAINE TEST SITE *	43°04'N, 71°05'W 45°15'N, 71°05'W 47°28'N, 69°22'W 47°28'N, 67°45'W 46°11'N, 67°45'W 44°45'N, 66°55'W 43°04'N, 70°31'W		DESIRED	PHOTOS: 8 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 11 O.L.: 60% FILM: S0242 FILTER: —	--	36 SEC.	--	--	ANY	1	>30°	0%	WEIGHTING FACTOR 30% *IF DATA CANNOT BE OBTAINED ON THE SITES LISTED BELOW (820633, 820647, 820666, 8020664, 820654, 820648) THEN DATA OVER THE STATE OF MAINE SATISFIES THE MINIMUM REQUIREMENT.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: STD FILTER: STD	OR PHOTOS: 5 O.L.: 10% FILM: ANY FILTER: ANY	-- OR	36 SEC.	--	--	ANY	1	>10°	<50%	
820633 (435)		MAINE TEST SITE	45°30'-46°15'N 68°42'-69°05'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: S0242 FILTER: —	--	5 SEC.	--	--	MAY, SEP, NOV	3	>30°	0%	WEIGHTING FACTOR FOR 820633, 820647, 820666, 82664, 82654, AND 820648 IS 70% AS A GROUP.
					MANDATORY	PHOTOS: 1 O.L.: 10% FILM: STD FILTER: STD	OR PHOTOS: 1 O.L.: 10% FILM: ANY FILTER: ANY	-- OR	5 SEC.	--	--	ANY	1	>10°	<50%	
820647 (435)		MAINE TEST SITE	46°00'-47°17'N 67°47'-68°15'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: S0242 FILTER: —	--	5 SEC.	--	--	MAY, SEP, NOV	3	>30°	0%	SEE WEIGHTING FACTOR COMMENT UNDER 820633.
					MANDATORY	PHOTOS: 1 O.L.: 10% FILM: STD FILTER: STD	OR PHOTOS: 1 O.L.: 10% FILM: ANY FILTER: ANY	-- OR	5 SEC.	--	--	ANY	1	>10°	<50%	
820666 (435)	A/C	MAINE TEST SITE	44°53'N, 69°13'W 45°06'N, 68°55'W 44°33'N, 68°43'W 44°46'N, 68°26'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: S0242 FILTER: —	--	5 SEC.	--	--	MAY, SEP, NOV	3	>30°	0%	SEE WEIGHTING FACTOR COMMENT UNDER 820633.
					MANDATORY	PHOTOS: 1 O.L.: 10% FILM: STD FILTER: STD	OR PHOTOS: 1 O.L.: 10% FILM: ANY FILTER: ANY	-- OR	5 SEC.	--	--	ANY	1	>10°	<50%	
820664 (435)	A/C	MAINE TEST SITE	43°38'N, 70°53'W 44°09'N, 69°45'W 43°22'N, 70°41'W 43°53'N, 69°30'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: S0242 FILTER: —	--	5 SEC.	--	--	MAY, SEP, NOV	3	>30°	0%	SEE WEIGHTING FACTOR COMMENT UNDER 820633.
					MANDATORY	PHOTOS: 1 O.L.: 10% FILM: STD FILTER: STD	OR PHOTOS: 1 O.L.: 10% FILM: ANY FILTER: ANY	-- OR	5 SEC.	--	--	ANY	1	>10°	<50%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B9-1. Regional Planning and Development (800 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS						TEST CONDITIONS				UNIQUE TEST CONDITIONS
						S190A	S190B	S191	S192	S193	S194	SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	
820654 (435)		MAINE TEST SITE	44°15'-45°15'N 70°35'-71°00'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 10% FILM: S0242 FILTER: —	--	5 SEC.	--	--	MAY, SEP, NOV	3	>30°	0%	SEE WEIGHTING FACTOR COMMENT UNDER 820633
					MANDATORY	PHOTOS: 1 O.L.: 60% FILM: STD FILTER: STD OR	PHOTOS: 1 O.L.: 10% FILM: ANY FILTER: ANY	-- OR	5 SEC.	--	--	ANY	1	>10°	<50%	
820648 (435)		MAINE TEST SITE	45°06'N, 68°55'W 45°19'N, 68°35'W 44°20'N, 67°50'W 44°33'N, 67°32'W		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: S0242 FILTER: —	--	5 SEC.	--	--	MAY, SEP, NOV	3	>30°	0%	SEE WEIGHTING FACTOR COMMENT UNDER 820633.
					MANDATORY	PHOTOS: 1 O.L.: 10% FILM: STD FILTER: STD OR	PHOTOS: 1 O.L.: 10% FILM: ANY FILTER: ANY	-- OR	5 SEC.	--	--	ANY	1	>10°	<50%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
831113 (535)		FEATHER RIVER, CALIF.	38°50'- 40°30'N 120°00'-121°45'W		DESIRED	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 60% FILM: S0242 FILTER: —	--	--	--	--	ANY	5*	>45°	0%	WEIGHTING FACTOR; 25% * AT LEAST ONE PASS PER MISSION.
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	≥30°	<30%	
831122 (535)		SOUTH SAN FRANCISCO BAY/MONTEREY	38°20'N, 123°30'W 38°50'N, 122°20'W 36°50'N, 120°45'W 36°15'N, 121°50'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: S0242 FILTER: —	--	--	--	--	ANY	5*	>45°	0%	WEIGHTING FACTOR; 25% * AT LEAST ONE PASS PER MISSION.
					MANDATORY	PHOTOS: 3 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	≥30°	<30%	
831116 (535)		SOUTHERN CALIFORNIA	35°00'N, 119°30'W 34°20'N, 119°30'W 35°00'N, 116°00'W 32°30'N, 117°15'W 32°30'N, 115°00'W		DESIRED	PHOTOS: 9 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 12 O.L.: 60% FILM: S0242 FILTER: —	--	--	--	--	ANY	5*	>45°	0%	WEIGHTING FACTOR; 25% * AT LEAST ONE PASS PER MISSION.
					MANDATORY	PHOTOS: 4 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 6 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	≥30°	<30%	
831146 (535)		SAN JOAQUIN VALLEY	35°00'- 37°00'N 119°00'-120°00'W		DESIRED	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	--	--	--	--	ANY	5*	>45°	0%	WEIGHTING FACTOR; 25% *AT LEAST ONE PASS PER MISSION.
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 2 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	≥30°	<30%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B9-1. Regional Planning and Development (800 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	SENSOR REQUIREMENTS S191	SENSOR REQUIREMENTS S192	SENSOR REQUIREMENTS S193	SENSOR REQUIREMENTS S194	TEST CONDITIONS SEASONAL REQUIREMENTS	TEST CONDITIONS NUMBER PASSES	TEST CONDITIONS SUN ANGLE	TEST CONDITIONS CLOUD COVER	UNIQUE TEST CONDITIONS
832601 (018)	A/C	WILMINGTON AREA	34°10'N, 77°55'W (30 NM RADIUS)		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 60% FILM: SO242 FILTER: —	--	15 SEC.	--	--	MAY AUG - SEP	1 1	>30°	0%	SNOW COVER: 0% DESIRED, 0% MANDATORY
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	JUL - SEP	1	≥20°	≤50%	
832602 (018)		HOFMAN FOREST ALTERNATE SITE: GOLDSBORO, NC. 32°25'N, 77°59'W 832603	34°54'N, 77°24'W (30 NM RADIUS)		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 60% FILM: SO242 FILTER: —	--	--	--	--	APR - JUN JUL - SEP	1 1	>30°	0%	SNOW COVER: 0% DESIRED, 0% MANDATORY
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 2 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	JUL - SEP	1	≥20°	≤50%	
832610 (018)	A/C	CHOWAN RIVER ADJACENT ALBEMARLE SOUND	36°04'N, 76°42'W (30 NM RADIUS)		DESIRED	PHOTOS: 7 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 9 O.L.: 60% FILM: SO242 FILTER: —	--	15 SEC.	--	--	APR - JUN JUL - SEP	1 1	>30°	0%	SNOW COVER: 0% DESIRED, 0% MANDATORY
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 5 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	JUL - SEP	1	≥20°	≤50%	
832606 (018)		ALBEMARLE SOUND - DURANT ISLAND	35°57'30"N, 76°55'00"W (30 NM RADIUS)		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: SO242 FILTER: —	2 SEC. 35°57'30"N, 76°55'00"W 832605	15 SEC.	--	--	APR - JUN JUL - SEP	1 1	>30°	0%	SNOW COVER: 0% DESIRED, 0% MANDATORY
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 2 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	JUL - SEP	1	≥20°	≤50%	
832608 (018)		SALISBURY	35°40'N, 80°30'W (30 NM RADIUS)		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 60% FILM: SO242 FILTER: —	--	15 SEC.	--	--	APR - JUN JUL - SEP	1 1	>30°	0%	SNOW COVER: 0% DESIRED, 0% MANDATORY
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	JUL - SEP	1	≥20°	≤50%	
832501 (018)	A/C	WINSTON - SALEM	36°05'N, 80°15'W (30 NM RADIUS)		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: SO242 FILTER: —	--	15 SEC.	--	--	APR - JUN JUL - SEP	1 1	>30°	0%	SNOW COVER: 0% DESIRED, 0% MANDATORY
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	JUL - SEP	1	≥20°	≤50%	
832607 (018)		LUMBERTON	34°36'N, 79°00'W (30 NM RADIUS)		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 60% FILM: SO242 FILTER: —	--	--	--	--	APR - JUN JUL - SEP	1 1	>30°	0	SNOW COVER: 0% DESIRED, 0% MANDATORY
					MANDATORY	PHOTOS: 2 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	--	--	--	--	JUL - SEP	1	≥20°	≤50%	
833702 (370)		NORTHERN AMAZON BASIN	05°00'N, 05°00'S, 37°00'N, 70°00'W		DESIRED	PHOTOS: 26 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 39 O.L.: 60% FILM: SO242 FILTER: —	5 SEC.**	180 SEC.	180 SEC.* SCAT H-H CTC	--	MAY - AUG	***	>13° <45°	0%	*DATA REQUESTED FOR ONE PASS OVER ANY PART OF THE NORTHERN, CENTRAL OR SOUTHERN AMAZON BASIN. **CREW TO SELECT AND TRACK A UNIFORM TEST AREA, ON ONE PASS ONLY ***PI REQUESTS ALL AVAILABLE GROUND TRACKS, PLUS REPEAT COVERAGE TO ACQUIRE CLOUD COVERED AREAS FROM PREVIOUS PASS
					MANDATORY	PHOTOS: 14 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 21 O.L.: 15% FILM: ANY FILTER: ANY	--	60 SEC.	--	--	ANY	1	>13°	<50%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B9-1. Regional Planning and Development (800 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
833703 (370)		CENTRAL AMAZON BASIN	05°00'- 12°00'S, 34°00'- 74°00'W		DESIRED	PHOTOS: 19 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 28 O.L.: 60% FILM: S0242 FILTER: —	5 SEC.**	132 SEC.	180 SEC.* SCAT H-H CTC	—	MAY - AUG	***	>13° <45°	<50%	*DATA REQUESTED FOR ONE PASS OVER ANY PART OF THE NORTHERN, CENTRAL OR SOUTHERN AMAZON BASIN. **CREW TO SELECT AND TRACK A UNIFORM TEST AREA, ON ONE PASS ONLY ***PI REQUESTS ALL AVAILABLE GROUND TRACKS, PLUS REPEAT COVERAGE TO ACQUIRE CLOUD COVERED AREAS FROM PREVIOUS PASS
					MANDATORY	PHOTOS: 9 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 14 O.L.: 15% FILM: ANY FILTER: ANY	— OR	60 SEC.	—	—	ANY	1	>13°	<50%	
833704 (370)		SOUTHERN AMAZON BASIN	12°00'- 16°00'S, 39°00'- 61°00'W		DESIRED	PHOTOS: 11 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 17 O.L.: 60% FILM: S0242 FILTER: —	5 SEC.**	76 SEC.	180 SEC.* SCAT H-H CTC	—	MAY - AUG	***	>13 <45	0%	*DATA REQUESTED FOR ONE PASS OVER ANY PART OF THE NORTHERN, CENTRAL OR SOUTHERN AMAZON BASIN. **CREW TO SELECT AND TRACK A UNIFORM TEST AREA, ON ONE PASS ONLY ***PI REQUESTS ALL AVAILABLE GROUND TRACKS, PLUS REPEAT COVERAGE TO ACQUIRE CLOUD COVERED AREAS FROM PREVIOUS PASS
					MANDATORY	PHOTOS: 6 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 9 O.L.: 15% FILM: ANY FILTER: ANY	— OR	60 SEC.	—	—	ANY	1	>13°	<50%	
834924 (9620)		COUNTRY OF THAILAND	20°00'N, 97°00'E 20°30'N, 100°00'E 17°00'N, 106°00'E 14°00'N, 106°00'E 14°00'N, 103°00'E 11°30'N, 102°15'E 05°30'N, 102°15'E 07°00'N, 98°30'E		DESIRED	PHOTOS: 11 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 16 O.L.: 60% FILM: EK3443 FILTER: W-12	—	—	—	—	MAY AUG - SEP NOV - DEC	ALL AVAIL	>30°	0%	SNOW COVER: 0% DESIRED, 0% MANDATORY * AT LEAST 1 PASS/MISSION ON ANY TWO MISSIONS. WEIGHTING FACTOR: 30%
					MANDATORY	PHOTOS: 11 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 16 O.L.: 60% FILM: ANY FILTER: ANY	—	—	—	—	ANY	2 *	>30°	<30%	
834923 (9620)		THAILAND	15°00'- 16°00'N 100°00'-101°00'E		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: EK3443 FILTER: W-12	—	10 SEC.	—	—	MAY AUG - SEP NOV - DEC	2*	>30°	0%	WEIGHTING FACTOR: 25% SNOW COVER: 0% DESIRED, 0% MANDATORY * AT LEAST 1 PASS/MISSION ON ANY TWO MISSIONS.
					MANDATORY	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: ANY FILTER: ANY	—	—	—	—	ANY	1	>30°	<30%	
834926 (9620)		THAILAND	18°00'- 19°00'N 99°00'-100°00'E		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: EK3443 FILTER: W-12	20 SEC *	20 SEC.	20 SEC. RAD/SCAT CTC 0° ELEV. 0° ROLL	15 SEC.	MAY AUG - SEP NOV - DEC	2**	>30°	0%	WEIGHTING FACTOR: 20% SNOW COVER: 0% DESIRED, 0% MANDATORY * CREW IS TO SELECT CROPLAND SITE AND TRACK. ** AT LEAST 1 PASS/MISSION ON ANY TWO MISSIONS.
					MANDATORY	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: ANY FILTER: ANY	—	10 SEC.	—	—	ANY	1	>30°	<30%	
834927 (9620)		THAILAND	09°00'- 10°00'N 99°00'-100°00'E		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: EK3443 FILTER: W-12	—	20 SEC.	20 SEC. RAD/SCAT CTC 0° ELEV 0° ROLL	15 SEC.	MAY AUG - SEP NOV - DEC	2*	>30°	0%	WEIGHTING FACTOR: 20% SNOW COVER: 0% DESIRED, 0% MANDATORY * AT LEAST 1 PASS/MISSION ON ANY TWO MISSIONS.
					MANDATORY	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: ANY FILTER: ANY	—	10 SEC.	—	—	ANY	1	>30°	<30%	
834928 (9620)		THAILAND	19°30'-20°30'N 98°30'-99°30'E		DESIRED	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: EK3443 FILTER: W-12	—	—	—	—	MAY AUG - SEP NOV - DEC	2*	>30°	0%	WEIGHTING FACTOR: 5% SNOW COVER: 0% DESIRED, 0% MANDATORY * AT LEAST 1 PASS/MISSION ON ANY TWO MISSIONS.
					MANDATORY	PHOTOS: 2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 60% FILM: ANY FILTER: ANY	—	—	—	—	ANY	1	>30°	<30%	
835594 (507)		SOUTH CAROLINA	35°00'N, 84°00'W 32°00'N, 81°00'W 33°00'N, 79°00'W 34°00'N, 78°00'W 35°00'N, 80°00'W		DESIRED	PHOTOS: 7 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 9 O.L.: 60% FILM: S0242 FILTER: —	—	—	—	—	MAY NOV - DEC	1 1	≥30°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 3 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 5 O.L.: 15% FILM: EK3443 FILTER: W-12	—	—	—	—	ANY	1	≥20°	≤30%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B9-1. Regional Planning and Development (800 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS: S190A	SENSOR REQUIREMENTS: S190B	SENSOR REQUIREMENTS: S191	SENSOR REQUIREMENTS: S192	SENSOR REQUIREMENTS: S193	SENSOR REQUIREMENTS: S194	TEST CONDITIONS: SEASONAL REQUIREMENTS	TEST CONDITIONS: NUMBER PASSES	TEST CONDITIONS: SUN ANGLE	TEST CONDITIONS: CLOUD COVER	UNIQUE TEST CONDITIONS
836917 (373)		SOUTHWEST COAST OF INDIA	17°00'N, 74°00'E 16°00'N, 72°00'E 10°00'N, 72°00'E 10°00'N, 74°00'E 08°00'N, 75°00'E 08°00'N, 78°00'E 10°00'N, 78°00'E		DESIRED	PHOTOS: 9 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 15 O.L.: 60% FILM: EK3414 FILTER: W-12	60 SEC.	40 SEC.	20 SEC. RAD/SCAT CTC 0° ELEV 0° ROLL	15 SEC.	MAY OR NOV - DEC	*2	>30°	0%	S192 - 20 SEC. OVER LAND AND 20 SEC. OVER WATER. WEIGHTING FACTOR: 25% 0% SNOW COVER S191 - CREW IS TO SELECT ANY OCEAN SPOT AND SELECT FORWARD MOTION COMPENSATION. S190B - S0242 FILM IS ACCEPTABLE, NO FILTER. *DIFFERENT GROUND TRACKS
					MANDATORY	PHOTOS: 4 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 7 O.L.: 10% FILM: ANY FILTER: ANY	30 SEC.	30 SEC.	--	--	ANY	1	>20°	<20%	
836920 (373)		NORTH CENTRAL INDIA	24°00'-31°30'N 75°00'-77°00'E		DESIRED	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: EK3414 FILTER: W-12	40 SEC.	40 SEC.	20 SEC. RAD/SCAT CTC 0° ELEV 0° ROLL	15 SEC.	MAY OR NOV - DEC	*2	>30°	0%	* DIFFERENT GROUND TRACKS SNOW COVER: 0% DESIRED; <10% MANDATORY S191 - CREW IS TO SELECT ANY CROPLAND SCENE AND TRACK. WEIGHTING FACTOR: 20% S190B - S0242 FILM IS ACCEPTABLE, NO FILTER.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 10% FILM: ANY FILTER: ANY	20 SEC.	20 SEC.	--	--	ANY	1	>20°	<20%	
836913 (373)		SOUTHEASTERN INDIA	15°00'N, 77°00'E 15°00'N, 79°00'E 13°00'N, 79°00'E 13°00'N, 81°00'E 10°00'N, 80°00'E 10°00'N, 78°00'E 13°00'N, 77°00'E		DESIRED	PHOTOS: 7 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 11 O.L.: 60% FILM: EK3414 FILTER: W-12	--	30 SEC.	--	--	MAY OR NOV-DEC	*2	>30°	0%	* DIFFERENT GROUND TRACKS 0% SNOW COVER WEIGHTING FACTOR: 25% S190B - S0242 FILM IS ACCEPTABLE, NO FILTER.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	<20°	
836922 (373)		EASTERN INDIA	19°00'N, 85°00'E 21°00'N, 89°00'E 24°00'N, 89°00'E 25°00'N, 88°00'E 25°00'N, 85°00'E		DESIRED	PHOTOS: 9 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 15 O.L.: 60% FILM: EK3414 FILTER: W-12	--	40 SEC.	--	--	MAY OR NOV - DEC	*2	>30°	0%	* DIFFERENT GROUND TRACKS 0% SNOW COVER WEIGHTING FACTOR: 20% S190B - S0242 FILM IS ACCEPTABLE, NO FILTER.
					MANDATORY	PHOTOS: 4 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 7 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	<20%	
836916 (373)		WEST CENTRAL INDIA	20°00'-25°00'N 72°00'-74°00'E		DESIRED	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 8 O.L.: 60% FILM: EK3414 FILTER: W-12	--	40 SEC.	20 SEC. RAD/SCAT CTC 0° ELEV 0° ROLL	15 SEC.	MAY OR NOV - DEC	*2	>30°	0%	* DIFFERENT GROUND TRACKS 0% SNOW COVER WEIGHTING FACTOR: 10% S190B - S0242 FILM IS ACCEPTABLE, NO FILTER.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	<20%	
836918 (373)		COUNTRY OF INDIA AND ADJACENT SEAS (ALTERNATE SITE)	08°00'-30°00'N 67°00'-85°00'E		DESIRED	PHOTOS: 40 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 64 O.L.: 60% FILM: EK3414 FILTER: W-12	40 SEC. **	30 SEC. **	20 SEC. ** RAD/SCAT CTC 0° ELEV 0° ROLL	15 SEC. **	MAY OR NOV - DEC	* 2	>30°	0%	* DIFFERENT GROUND TRACKS SNOW COVER: 0% DESIRED; <10% MANDATORY ** DATA IS NOT REQUIRED IF DATA IS OBTAINED FROM ANY OF THE FIVE SITES (836917, 836920, 836913, 836922, AND 836916) LISTED ABOVE. S191 - CREW TO SELECT CROPLAND SITE AND TRACK. S190B - S0242 FILM IS ACCEPTABLE, NO FILTER.
					MANDATORY	PHOTOS: 18 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 29 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	<20%	
837627 (401-1)	A/C	MARYLAND	37°50'-39°43'N 75°30'-77°05'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: S0242 FILTER: —	--	15 SEC 39°15'-39°45'N, 77°30'-79°00'W	--	--	OCT - DEC	1	≥30°	0%	SNOW COVER: 0% DESIRED, 0% MANDATORY WEIGHTING FACTOR; 75% FOR S190A AND S190B DATA AND 25% FOR S192 DATA (FOR DESIRED).
					MANDATORY	PHOTOS: 3 O.L.: 15% FILM: STD FILTER: STD	OR PHOTOS: 5 O.L.: 15% FILM: ANY FILTER: ANY	--	15 SEC. 39°15'-39°45'N, 77°30'-79°00'W	--	--	ANY	1	≥30°	≤20%	
838881 (9626)		CENTRAL MALI	13°00'N, 05°00'W 14°00'N, 07°00'W 17°00'N, 02°00'W 18°00'N, 04°00'W		DESIRED	PHOTOS: 8 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 13 O.L.: 60% FILM: EK3414 FILTER: W-12	--	70 SEC.	--	--	AUG - SEP NOV - DEC	1 1	>30°	0%	SNOW COVER: 0% DESIRED, 0% MANDATORY S01908 - EK3443 IS SECOND CHOICE ON FILM BUT WILL ACCEPT ANY.
					MANDATORY	PHOTOS: 8 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 13 O.L.: 60% FILM: ANY FILTER: ANY	--	35 SEC.	--	--	NOV - DEC	1	>30°	<25%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B9-1. Regional Planning and Development (800 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	SENSOR REQUIREMENTS S191	SENSOR REQUIREMENTS S192	SENSOR REQUIREMENTS S193	SENSOR REQUIREMENTS S194	TEST CONDITIONS SEASONAL REQUIREMENTS	TEST CONDITIONS NUMBER PASSES	TEST CONDITIONS SUN ANGLE	TEST CONDITIONS CLOUD COVER	UNIQUE TEST CONDITIONS
838882 (9626)		SOUTHEAST MALI	15°00'N, 01°00'E 15°00'N, 00°00' 17°00'N, 00°00' 17°00'N, 01°00'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: EK3414 FILTER: W-12	--	24 SEC.	--	--	AUG - SEP NOV - DEC	1 1	>30°	0%	SNOW COVER: 0% DESIRED, 0% MANDATORY S190B - SEE FILM COMMENT UNDER 838881
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: ANY FILTER: ANY	--	12 SEC.	--	--	SEP OR NOV - DEC	1	>30°	<25%	
838883 (9626)		SOUTHWEST MALI	13°00'-15°00'N 09°00'-12°00'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	NM: PHOTOS: 7 O.L.: 60% FILM: EK3414 FILTER: W-12	--	--	--	--	SEP, NOV OR DEC	1 1	>30°	10	SNOW COVER: 0% DESIRED, 0% MANDATORY S190B - FILM COMMENT UNDER 838881
					MANDATORY	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	NM: PHOTOS: 7 O.L.: 60% FILM: ANY FILTER: ANY	--	--	--	--	NOV OR DEC	1	>30°	<25%	
838884 (9626)		NORTHERN MALI	21°00'N, 00°00' 21°00'N, 05°00'W 24°00'N, 05°00'W 24°00'N, 03°00'W		DESIRED	PHOTOS: 9 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 15 O.L.: 60% FILM: EK3414 FILTER: W-12	--	--	--	--	ANY	2	>30°	0%	SNOW COVER: 0% DESIRED, 0% MANDATORY S190B - FILM COMMENT UNDER 838881
					MANDATORY	PHOTOS: 9 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 15 O.L.: 60% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>30°	<25%	
839517 (433)	A/C	LAKE ERIE/ CLEVELAND	41°00'-41°40'N 81°00'-81°55'W		DESIRED	PHOTOS: 2 O.L.: 50% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 50% FILM: SO242 FILTER: --	--	15 SEC.	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>30°	≤10%	SNOW COVER: <50% DESIRED, ANY ACCEPTABLE
					MANDATORY	PHOTOS: 1 O.L.: -- FILM: STD FILTER: STD OR	PHOTOS: 2 O.L.: 15% FILM: ANY FILTER: ANY	--	15 SEC.	--	--	ANY	1	>30°	≤50%	
839513 (433)	A/C	EAST LIBERTY/ COLUMBUS/ZALESKI	40°10'N, 83°50'W; 40°30'N, 83°35'W; 39°48'N, 81°24'W; 38°48'N, 82°10'W		DESIRED	PHOTOS: 5 O.L.: 50% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 50% FILM: SO242 FILTER: --	--	30 SEC.	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>30°	≤10%	SNOW COVER; <50% DESIRED, ANY ACCEPTABLE
					MANDATORY	PHOTOS: 3 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 3 O.L.: 15% FILM: ANY FILTER: ANY	--	30 SEC.	--	--	ANY	1	>30°	≤50%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
851618 (219)		METROPOLITAN NEW YORK CITY	40°00'-42°15'N 71°45'-75°00'W		DESIRED	PHOTOS: 3 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 10% FILM: EK3443 FILTER: W-12	--	--	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>20°	<10%	SNOW COVER: <10% DESIRED, <10% MANDATORY APPLIES TO MAY & AUG - SEP, HOWEVER A 4" SNOW COVER IS DESIRED FOR THE NOV - DEC PASS.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 10% FILM: ANY FILTER: ANY	--	--	--	--	ANY	1	>20°	<50%	
852519 (385)		EAST CENTRAL FLORIDA	27°30'-29°30'N 80°10'-82°00'W		DESIRED	PHOTOS: 3 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 10% FILM: SO242 FILTER: --	--	5 SEC.*	--	--	ANY	2	>30°	<10%	SNOW COVER: 0% DESIRED, 0% MANDATORY *S192 SITE IS CENTERED OVER ORLANDO, FLORIDA (28°34'N, 81°21'W).
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 10% FILM: ANY FILTER: ANY	--	5 SEC.*	--	--	ANY	1	>20°	<50%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B9-1. Regional Planning and Development (800 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	SENSOR REQUIREMENTS S191	SENSOR REQUIREMENTS S192	SENSOR REQUIREMENTS S193	SENSOR REQUIREMENTS S194	TEST CONDITIONS SEASONAL REQUIREMENTS	TEST CONDITIONS NUMBER PASSES	TEST CONDITIONS SUN ANGLE	TEST CONDITIONS CLOUD COVER	UNIQUE TEST CONDITIONS
853116 (454-6)	A/C	SOUTHERN CALIFORNIA	35°00'N, 119°30'W 34°20'N, 119°30'W 35°00'N, 116°00'W 32°30'N, 117°15'W 32°30'N, 115°00'W		DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 15 O.L.: 60% FILM: S0242 FILTER: —	--	60 SEC.	--	--	MAY AUG NOV	1 1 1	>45°	0%	NONE SPECIFIED.
					MANDATORY	PHOTOS: 4 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: 7 O.L.: 15% FILM: S0242 FILTER: —	--	60 SEC.	--	--	ANY	1	>20°	<15%	
DATA WILL BE TAKEN OVER 8 SITES SELECTED FROM THOSE LISTED BELOW IN ORDER OF DECREASING PRIORITY. 854653 WASHINGTON 38°53'N, 77°01'W 25 NM RADIUS 854122 SAN FRANCISCO 38°52'N, 123°37'W 38°52'N, 121°30'W 37°52'N, 120°53'W 36°53'N, 120°53'W 36°53'N, 122°37'W 37°52'N, 123°37'W 854670 BOSTON 42°15'N, 71°07'W 25 NM RADIUS 854211 PHOENIX 33°32'N, 112°04'W 854657 NEW HAVEN 41°21'N, 72°51'W 854418 CEDAR RAPIDS 42°00'N, 91°42'W 854533 PONTIAC 42°41'N, 83°19'W 854317 DENVER 30°43'N, 105°00'W 854123 SEATTLE-TACOMA 47°33'N, 122°20'W 854212 TUCSON 32°11'N, 110°55'W 854134 RIVERSIDE-SAN BERNARDINO 34°07'N, 117°19'W 854238 SALT LAKE CITY 40°45'N, 111°52'W 854658 PITTSBURG 40°31'N, 79°56'W 854494 NEW ORLEANS 29°59'N, 90°00'W 854467 HOUSTON-GALVESTON 29°32'N, 86°12'W 854537 ASHEVILLE 35°36'N, 82°33'W 854538 ATLANTA 33°46'N, 84°25'W 854541 AURORA 41°50'N, 88°19'W 854421 DALLAS 32°48'N, 96°46'W 854318 EL PASO 31°48'N, 106°27'W 854422 LAWRENCE 38°57'N, 95°14'W 854321 MIDLAND-ODESSA 31°56'N, 102°14'W 854542 PEORIA 40°40'N, 89°33'W 854667 SAN JUAN 18°25'N, 66°05'W 854543 TAMPA 27°59'N, 82°28'W 854546 WEST PALM BEACH 26°39'N, 80°09'W 854322 WICHITA FALLS 34°00'N, 98°38'W EXCEPT FOR SAN FRANCISCO, THE TEST SITE IS A 25 NM RADIUS CIRCLE ABOUT THE STATED COORDINATES.					DESIRED	PHOTOS: *2 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: *2 O.L.: 60% FILM: S0242 FILTER: —	--	--	--	--	ANY	1	>30°	<20%	SNOW COVER: 0% DESIRED, <20% MANDATORY WEIGHTING FACTOR: 100% * S190A & S190B 2 PHOTOS OVER EACH OF 8 SITES. ** S0242/NONE OR EK3414/W-12 WILL BE ACCEPTABLE.
					MANDATORY	PHOTOS: *2 O.L.: 15% FILM: STD FILTER: STD OR	PHOTOS: *2 O.L.: 15% FILM: ** FILTER: —	--	--	--	--	ANY	1	>20°	<30%	
(469-2M)					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
866323 (486)	A/C	NORTH DAKOTA	47°07'- 47°10'N 98°22'-100°00'W		DESIRED	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 10% FILM: S0242 FILTER: —	--	15 SEC.	--	--	MAY AUG - SEP	1 1	>30°	≤10%	WEIGHTING FACTOR: 70% SNOW COVER: 0% DESIRED, 0% MANDATORY
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	--	-- OR	15 SEC.	--	--	MAY OR AUG - SEP	1	>30°	≤30%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B9-1. Regional Planning and Development (800 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	SENSOR REQUIREMENTS S191	SENSOR REQUIREMENTS S192	SENSOR REQUIREMENTS S193	SENSOR REQUIREMENTS S194	TEST CONDITIONS SEASONAL REQUIREMENTS	TEST CONDITIONS NUMBER PASSES	TEST CONDITIONS SUN ANGLE	TEST CONDITIONS CLOUD COVER	UNIQUE TEST CONDITIONS
866428 (486)		MINNESOTA	46°30'-48°07'N, 93°31'-95°41'W		DESIRED	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 2 O.L.: 10% FILM: S0242 FILTER: —	--	12 SEC.	--	--	MAY AUG - SEP	1 1	>30°	≤10%	WEIGHTING FACTOR: 30% SNOW COVER: 0% DESIRED, 0% MANDATORY DESIRE GROUND TRACK 2 OR 4.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	--	--	OR 12 SEC.	--	--	MAY OR AUG - SEP	1	>30°	≤30%	
867652 (469-1M)		CARETS	35°48'N, 76°07'W 36°23'N, 79°06'W 41°16'N, 76°50'W 40°16'N, 73°42'W		DESIRED	PHOTOS: 6 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 10 O.L.: 15% FILM: S0242 FILTER: —	--	--	--	--	ANY	2	>30°	<20%	SNOW COVER: 0% DESIRED, <20% MANDATORY * S0242/NONE OR EK3414/W-12 WILL BE ACCEPTABLE.
					MANDATORY	PHOTOS: 6 O.L.: 15% FILM: STD FILTER: STD	OR PHOTOS: 10 O.L.: 15% FILM: * FILTER: *	--	--	--	--	ANY	1	>20°	<30%	
867676 (469-1M)		BALTIMORE, MD.	38°30'-39°40'N 76°00'-77°30'W		DESIRED	PHOTOS: 4 O.L.: 15% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 15% FILM: S0242 FILTER: —	--	23 SEC.	--	--	ANY	1	>30°	<20%	SNOW COVER: 0% DESIRED, <20% MANDATORY
					MANDATORY	--	--	--	23 SEC.	--	--	ANY	1	>20°	<30%	
881117 (454-9)	A/C	SOUTHERN CALIFORNIA	38°00'N, 119°00'W 35°00'N, 119°00'W 32°30'N, 116°00'W 32°45'N, 114°00'W 34°45'N, 114°00'W		DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 20 O.L.: 60% FILM: S0242 FILTER: —	--	--	--	--	MAY NOV - DEC	1 1	>45°	0%	* S0242/NONE OR EK3414/W-12 FILM/FILTER IS ACCEPTABLE.
					MANDATORY	PHOTOS: 4 O.L.: 15% FILM: STD FILTER: STD	OR PHOTOS: 10 O.L.: 15% FILM: * FILTER: *	--	--	--	--	ANY	1	>20°	<15%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

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900 Series

CARTOGRAPHY

Photo mapping, map revision, map accuracy, thematic mapping, surveys, mapping techniques.

Purposes

Task

901 Demonstrate the use of S190A and S190B film images in production of cartographic products. Provide maps to the scientific community as a scaled data base for earth related studies.

Compile through standard cartographic techniques (projection control plotting, identification of control/map points in the photography, mosaic and overprinting of existing map data) various scale photo maps from S190A and S190B imagery. Investigate methods of enhancements and use of image color to determine best parameters for the base products and reproduction.

902 Introduce the use of Skylab imagery to the Latin American Cartographic Community, by tailoring specific area experiments to the needs of the Inter American Geodetic Survey and the Latin American participants.

Investigate the usefulness of Skylab imagery as an economical means of:

a) Compiling and publishing 1:250,000 scale planimetric line maps.

b) Compiling and publishing 1:250,000 scale planimetric photos maps.

c) Revision of major cultural changes on existing 1:250,000 and possibly 1:100,000 scale topographic maps.

d) Preparation of thematic maps.

e) Preparation of land use maps.

Investigate the feasibility of utilizing S190A and S190B imagery to investigate the degree to which cultural and ecological changes can be detected on published 1:250,000 scale maps.

917 Assess the imagery, accuracies obtainable and cost effectiveness, of photography from the EREP S190A and S190B sensors, for 1:50,000, 1:100,000 and 1:250,000 scale mapping and/or revision, activities. Conduct the following studies:

a) Ground resolution capabilities of satellite photography, specifically S190 system photography.

b) Utilization of S190 photography for the production of planimetric graphical maps and photo maps at scales of 1:50,000, 1:100,000 and 1:250,000.

c) Formation of geometrical models of the terrain using stereoscopic satellite photography.

d) Exterior orientation of analytically constructed models using satellite photography.

e) Feasibility and accuracy of using analytical aerotriangulation and numerical adjustment with satellite photography for planimetric mapping in northern Canada where control is sparse.

916 Determine degree of correlation between space image details and map culture details and to categorize the correlatable types. Determine whether the foliated or defoliated vegetation condition is more conducive to cultural interpretations. Determine how sun angle affects space image quality relative to cultural identification. Study S190A and S190B samples of areas which are arid, relatively humid, or contain many industries, in order to learn effects of atmospheric moisture and aerosols on culture identification. Investigate possible application of S190A and S190B imagery to map revision activities at scales of 1:50,000 to 1:5,000,000 and revise several different scale maps.

931 Investigate the feasibility of utilizing spacecraft (S190B) imagery for analytic aerotriangulation methods to provide low-order, high-density control network suitable for small-scale mapping applications.

Employ this technique for coastal zone mapping at medium and small scales, surveys in remote areas, forest and range management, various planning activities and route location for highways, pipelines, transmission lines and canals.

932 Evaluate the use of EREP multispectral photographic imagery of Nepal for (1) photogrammetric control, (2) the production of original and revision mapping and (3) the interpretation of special features such as forest areas and limits of snow and ice-fields to include:

a) Completeness of detail interpreted directly from the EREP imagery.

b) Comparision of the value of different types of spectral imagery for the interpretation of various features to be mapped.

c) Assessment of the improvement obtained in interpretability obtained from using the EREP recovered photography compared with that of the ERTS mission.

d) Further developments of photogrammetric techniques, image enhancement and interpretation methods as applied to small scale mapping from satellite photography.

933 Evaluate the cartographic accuracy and the geometric characteristics of the S192 multispectral scanner system images and determine how well the geographical location of points can be determined. Study the effect of the circular scan of the S192 system and the adequacy of the ground playback system. Supply investigators in various disciplines with information which will assist them in locating image points and reporting the results of their interpretations in quantitative terms such as geographic location and areal extent.

946 Develop a series of special techniques to produce thematic graphics which can be conveniently related to the ground and to existing maps in formats that will permit analysis of thematic and or temporal changes, ultimately leading to operation of a production system which can provide timely thematic information to users of Skylab and other imagery.

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Table B10-1. Cartography (900 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
901671 (498)		CHESAPEAKE BAY	36°00'-40°00'N, 74°00'-78°00'W		DESIRED	PHOTOS: 9 O.L.: 60% FILM: STD FILTER: STD	--	--	--	--	--	ANY	3*	>20°	0%	* REQUIRES 3 SEPARATE PASSES TO COVER SITE, EACH DIFFERENT GROUND COVERAGE (E.G., 2 ASCENDING AND 1 DESCENDING PASSES). SNOW COVER - DESIRED 0%, MANDATORY <10%.
					MANDATORY	PHOTOS: 9 O.L.: 60% FILM: STD FILTER: STD	--	--	--	--	--	ANY	2	>20°	<10%	
901223 (498)		PHOENIX/TUCSON	33°00'- 34°00'N, 112°00'-114°00'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	--	--	--	ANY	2	>20°	0%	SNOW COVER - DESIRED 0%, MANDATORY <10%. * SO242 WOULD BE ACCEPTABLE.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	--	--	--	ANY	1	>20°	<10%	
901396 (498)		SOUTH DAKOTA	43°00'-44°00'N, 96°00'-98°00'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	--	--	--	--	ANY	2	>20°	0%	SNOW COVER - DESIRED 0%, MANDATORY <10%.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	--	--	--	--	ANY	1	>20°	<10%	
901548 (498)		LAKE ERIE	41°00'-42°00'N, 80°00'-82°00'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	--	--	--	--	ANY	2	>20°	0%	SNOW COVER - DESIRED 0%, MANDATORY <10%.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	--	--	--	--	--	ANY	1	>20°	<10%	
901669 (498)		POTOMAC RIVER **	38°00'-39°00'N, 76°00'-78°00'W		DESIRED	--	PHOTOS: 5 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	--	--	--	ANY	2	>20°	0%	SNOW COVER - DESIRED 0%, MANDATORY <10%. * SO242 WOULD BE ACCEPTABLE. **TEST SITE 901669 IS WITHIN 901671.
					MANDATORY	--	PHOTOS: 5 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	--	--	--	ANY	1	>20°	<10%	
902706 (496B)		ARGENTINA/CHILE	44°00'-50°00'S, 65°00'-76°00'W		DESIRED	PHOTOS: 14 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 23 O.L.: 60% FILM: ** EK3414 FILTER: W-12	--	--	--	--	ANY	ALL*	>40°	0%	SNOW COVER - DESIRED 0%, MANDATORY 0%. * REQUIRES SEVERAL SEPARATE PASSES OF STEREO DATA TO COVER SITE. DESIRE MAXIMUM NUMBER POSSIBLE. ** SO242 WOULD BE ACCEPTABLE. *** MANDATORY REQUIREMENT IS TO MAKE AS MANY PASSES OVER THE SITE AS POSSIBLE.
					MANDATORY	PHOTOS: 14 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 23 O.L.: 60% FILM: ** EK3414 FILTER: W-12	--	--	--	--	ANY	***	>20°	<50%	
902707 (496B)		PARAGUAY	19°00'-24°00'S, 55°00'-63°00'W		DESIRED	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 16 O.L.: 60% FILM: ** EK3414 FILTER: W-12	--	20 SEC.****	--	--	ANY	ALL*	>40°	0%	SNOW COVER - DESIRED 0%, MANDATORY 0%. * REQUIRES SEVERAL SEPARATE PASSES OF STEREO DATA TO COVER SITE. DESIRE MAXIMUM NUMBER POSSIBLE. ** SO242 WOULD BE ACCEPTABLE. *** MANDATORY REQUIREMENT IS TO MAKE AS MANY PASSES OVER THE SITE AS POSSIBLE. ****S192 - ONE PASS IS REQUIRED.
					MANDATORY	PHOTOS: 10 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 16 O.L.: 60% FILM: ** EK3414 FILTER: W-12	--	10 SEC.****	--	--	ANY	***	>20°	<50%	
902708 (496B)		CENTRAL ANDES AND AMAZON BASIN	02°00'S, 48°00'W 16°30'S, 62°00'W 16°30'S, 69°00'W 10°00'S, 77°00'W 00°30'S, 77°00'W 04°00'N, 72°00'W 05°00'N, 68°00'W 05°00'N, 51°00'W		DESIRED	PHOTOS: 45 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 70 O.L.: 60% FILM: ** EK3414 FILTER: W-12	--	20 SEC.****	--	--	ANY	ALL*	>40°	0%	SNOW COVER - DESIRED 0%, MANDATORY 0%. * REQUIRES SEVERAL SEPARATE PASSES OF STEREO DATA TO COVER SITE. DESIRE MAXIMUM NUMBER POSSIBLE. ** SO242 WOULD BE ACCEPTABLE. *** MANDATORY REQUIREMENT IS TO MAKE AS MANY PASSES OVER THE SITE AS POSSIBLE. ****S192 - ONE PASS IS REQUIRED.
					MANDATORY	PHOTOS: 45 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 70 O.L.: 60% FILM: ** EK3414 FILTER: W-12	--	10 SEC.****	--	--	ANY	***	>20°	<50%	

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Table B10-1. Cartography (900 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
902711 (496B)		CHILE	32°00'-33°00'S 70°00'-72°00'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	20 SEC.	--	--	ANY	1	>40°	0%	SNOW COVER - DESIRED 0%, MANDATORY 0%. * S0242 FILM WOULD BE ACCEPTABLE.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	10 SEC.	--	--	ANY	1	>20°	<50%	
902713 (496B)		COLOMBIA	10°00'-11°30'N 73°00'-75°40'W		DESIRED	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	40 SEC.	--	--	ANY	2	>40°	0%	SNOW COVER - DESIRED 0%, MANDATORY 0%. * S0242 FILM WOULD BE ACCEPTABLE.
					MANDATORY	PHOTOS: 3 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	20 SEC.	--	--	ANY	1	>20°	<50%	
902712 (496B)		VENEZUELA	07°00'N, 68°00'W 08°00'N, 66°00'W 04°00'N, 63°00'W 03°00'N, 65°00'W		DESIRED	PHOTOS: 9 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 17 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	75 SEC.	--	--	ANY	2	>40°	0%	SNOW COVER - DESIRED 0%, MANDATORY 0%. * S0242 FILM WOULD BE ACCEPTABLE.
					MANDATORY	PHOTOS: 9 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 17 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	30 SEC.	--	--	ANY	1	>20°	<50%	
902716 (496B)		COSTA RICA/ NICARAGUA	10°00'-12°00'N, 83°00'-86°00'W		DESIRED	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 7 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	20 SEC.**	--	--	ANY	2	>40°	0%	SNOW COVER - DESIRED 0%, MANDATORY 0%. * S0242 FILM WOULD BE ACCEPTABLE. **S192 - ONE PASS IS REQUIRED.
					MANDATORY	PHOTOS: 5 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 7 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	10 SEC.**	--	--	ANY	1	>20°	<50%	
902717 (496B)		GUATEMALA	13°40'-15°00'N, 90°00'-92°15'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	--	--	--	ANY	2	>40°	0%	SNOW COVER - DESIRED 0%, MANDATORY 0%. * S0242 FILM WOULD BE ACCEPTABLE.
					MANDATORY	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	--	--	--	ANY	1	>20°	<50%	
902667 (496B)		JAMAICA	17°45'-18°40'N, 76°00'-78°55'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	--	--	--	ANY	1	>40°	0%	SNOW COVER - DESIRED 0%, MANDATORY 0%. * S0242 FILM WOULD BE ACCEPTABLE.
					MANDATORY	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	--	--	--	ANY	1	>20°	<50%	
902668 (496B)		HAITI-DOMINICAN REPUBLIC	17°30'-20°00'N, 68°15'-74°30'W		DESIRED	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 10 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	--	--	--	ANY	3	>40°	0%	SNOW COVER - DESIRED 0%, MANDATORY 0%. * S0242 FILM WOULD BE ACCEPTABLE.
					MANDATORY	PHOTOS: 6 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 10 O.L.: 60% FILM: * EK3414 FILTER: W-12	--	--	--	--	ANY	1	>20°	<50%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:					ANY				
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B10-1. Cartography (900 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	SENSOR REQUIREMENTS S190B	SENSOR REQUIREMENTS S191	SENSOR REQUIREMENTS S192	SENSOR REQUIREMENTS S193	SENSOR REQUIREMENTS S194	TEST CONDITIONS SEASONAL REQUIREMENTS	TEST CONDITIONS NUMBER PASSES	TEST CONDITIONS SUN ANGLE	TEST CONDITIONS CLOUD COVER	UNIQUE TEST CONDITIONS
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
903698 (558-1)		WINDSOR TO QUEBEC CITY, CANADA	ALONG LINE 42°10'N, 83°30'W TO 47°00'N, 71°00'W		DESIRED	PHOTOS: 37 O.L.: 80% FILM: STD FILTER: STD	PHOTOS: 30 O.L.: 60% FILM: EK3414 FILTER: W-12	--	56 SEC.	--	--	AUG - SEP	1*	>45°	<10%	SNOW COVER - DESIRED 0%, MANDATORY 0%. TASK 903 SERIES SITES ALSO MEET REQUIREMENTS OF TASK 917. S190B - S0242 FILM IS SECOND PRIORITY, NO FILTER. S192 - OBTAIN 56 SEC OF DATA ALONG LINE 45°30'N, 76°00'W to 47°00'N, 71°00'W. * AN ASCENDING PASS IS MANDATORY.
					MANDATORY	PHOTOS: 20 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 30 O.L.: 60% FILM: EK3414 FILTER: W-12	--	56 SEC.	--	--	MAY - SEP	1*	>30°	<25%	
903643 (558-1)		GULF OF ST LAWRENCE	47°00'-50°00'N 52°00'-65°00'W		DESIRED	PHOTOS: 54 O.L.: 80% FILM: STD FILTER: STD	PHOTOS: 21 O.L.: 60% FILM: EK3414 FILTER: W-12	--	125 SEC.	--	--	AUG - SEP	1	>45°	<10%	SNOW COVER - DESIRED 0%, MANDATORY 0%. S190B - S0242 FILM IS SECOND PRIORITY, NO FILTER. S192 - 60 SEC. OF DATA IS MANDATORY ALONG EASTERN PORTION OF GULF AND ACROSS NEWFOUNDLAND. TASK 903 SERIES SITES ALSO MEET REQUIREMENTS OF TASK 917.
					MANDATORY	PHOTOS: 14 O.L.: 60% FILM: STD FILTER: STD	--	--	60 SEC.	--	--	MAY - SEP	1	>30°	<25%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
916599 (499)		PITTSBURGH, PA	40°00'-41°00'N 78°00'-81°00'W		DESIRED	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	MAY AUG - SEP NOV - DEC	2 2 2	>20°	0%	SNOW COVER - DESIRED 0%, MANDATORY <10%.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>20°	<20%	
916456 (499)		ST PAUL, MINN.	44°00'-45°00'N, 92°00'-94°00'W		DESIRED	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: EK3414 FILTER: W-12	--	--	--	--	MAY AUG - SEP NOV - DEC	2 2 2	>20°	0%	SNOW COVER - DESIRED 0%, MANDATORY <10%. S190B - S0242 FILM IS SECOND PRIORITY.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 15% FILM: EK3414 FILTER: W-12	--	--	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>20°	<20%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B10-1. Cartography (900 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS: S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS: SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
916133 (499)		WANATCHEE, WASH.	47°00'- 48°00'N, 120°00'-122°00'W		DESIRED	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	MAY AUG - SEP NOV - DEC	2 2 2	>20°	0%	SNOW COVER - DESIRE 0%, MANDATORY <10%.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: -- O.L.: FILM: FILTER:	--	--	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>20°	<20%	
916136 (499)		SAN JOSE/SAN FRANCISCO	37°00'- 38°00'N, 120°00'-122°30'W		DESIRED	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 5 O.L.: 60% FILM: EK3414 FILTER: W-12	--	--	--	--	MAY AUG - SEP NOV - DEC	2 2 2	>20°	0%	SNOW COVER - DESIRE 0%, MANDATORY <10%. S190B - SO242 FILM IS SECOND PRIORITY, NO FILTER.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 15% FILM: EK3414 FILTER: W-12	--	--	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>20°	<20%	
916137 (499)		EL CENTRO, CALIF.	32°00'- 33°00'N 114°00'-116°00'W		DESIRED	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	--	--	--	--	--	MAY, AUG, NOV	6 (2/MO)	>20°	0%	SNOW COVER - DESIRE 0%, MANDATORY <10%.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	--	--	--	--	--	MAY, AUG, NOV	3 (1/MO)	>20°	<20%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS. O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
931651 (459)		CARETS AREA	37°05'N, 78°00'W TO 41°35'N, 73°00'W		DESIRED	PHOTOS: 21 O.L.: 80% FILM: STD FILTER: STD	PHOTOS: 34 O.L.: 80% FILM: SO242 FILTER: —	--	--	60 SEC. ALT MODE 1	--	MAY AUG - SEP	1* 1*	>30°	0%	SNOW COVER - DESIRED 0%, MANDATORY <10%. *AN ASCENDING PASS IS MANDATORY.
					MANDATORY	PHOTOS: 21 O.L.: 80% FILM: STD FILTER: STD	PHOTOS: 34 O.L.: 80% FILM: SO242 FILTER: —	--	--	--	--	ANY	1*	>30°	<30%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B10-1. Cartography (900 Series)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS: S190A	SENSOR REQUIREMENTS: S190B	SENSOR REQUIREMENTS: S191	SENSOR REQUIREMENTS: S192	SENSOR REQUIREMENTS: S193	SENSOR REQUIREMENTS: S194	TEST CONDITIONS: SEASONAL REQUIREMENTS	TEST CONDITIONS: NUMBER PASSES	TEST CONDITIONS: SUN ANGLE	TEST CONDITIONS: CLOUD COVER	UNIQUE TEST CONDITIONS
932931 (9625)		NEPAL	30°30'N, 81°00'E 28°00'N, 88°00'E 26°00'N, 88°00'E 28°00'N, 80°00'E		DESIRED	PHOTOS: 12 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 18 O.L.: 60% FILM: EK3414 FILTER: W-12	--	--	--	--	AUG - SEP	4 **	>30°	0%	SNOW COVER - DESIRED 0%, MANDATORY <20% IN THE LOWLANDS, HOWEVER, SNOW COVER IS PERMISSIBLE IN MOUNTAIN REGIONS. * S0242 IS SECOND PRIORITY, NO FILTER. ** REQUIRE SEPARATE GROUND TRACKS TO PROVIDE AREA COVERAGE. *** GROUND TRACK 70 IS PREFERRED.
					MANDATORY	PHOTOS: 12 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 18 O.L.: 60% FILM: * EK3414 FILTER: * W-12	--	--	--	--	ANY	1***	>30°	<30%	
933136 (497)		SAN FRANCISCO/ SAN JOSE, CALIF.	37°00'- 38°00'N, 121°00'-122°30'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 15% FILM: EK3414 FILTER: W-12	--	32 SEC.	25 SEC. ALT MODE 1	--	ANY	2*	>20°	0%	SNOW COVER - DESIRED 0%, MANDATORY <10%. *ONE DESCENDING PASS AND ONE ASCENDING PASS ARE DESIRED. S190B - S0242 FILM WOULD BE ACCEPTABLE.
					MANDATORY	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	OR PHOTOS: 3 O.L.: 15% FILM: EK3414 FILTER: W-12	--	32 SEC.	--	--	ANY	1	>20°	<5%	
OR 933669 (497) (ALTERNATE SITE FOR 933136)		CHESAPEAKE BAY (POTOMAC RIVER)	38°00'-39°00'N, 76°00'-78°00'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 15% FILM: EK3414 FILTER: W-12	--	32 SEC.	25 SEC ALT MODE 1	--	ANY	2*	>20°	0%	SNOW COVER - DESIRED 0%, MANDATORY <10%. *ONE DESCENDING PASS AND ONE ASCENDING PASS ARE DESIRED. S190B - S0242 FILM WOULD BE ACCEPTABLE.
					MANDATORY	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	OR PHOTOS: 3 O.L.: 15% FILM: EK3414 FILTER: W-12	--	32 SEC.	--	--	ANY	1	>20°	<5%	
OR 933548 (497) (ALTERNATE SITE FOR 933136)		LAKE ERIE	41°00'-42°00'N, 80°00'-82°00'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 15% FILM: EK3414 FILTER: W-12	--	32 SEC.	25 SEC ALT MODE 1	--	ANY	2*	>20°	0%	SNOW COVER - DESIRED 0%, MANDATORY <10%. *ONE DESCENDING PASS AND ONE ASCENDING PASS ARE DESIRED. S190B - S0242 FILM WOULD BE ACCEPTABLE.
					MANDATORY	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	OR PHOTOS: 3 O.L.: 15% FILM: EK3414 FILTER: W-12	--	32 SEC.	--	--	ANY	1	>20°	<5%	
OR 933396 (497) (ALTERNATE SITE FOR 933136)		DAKOTAS	43°00'-44°00'N, 96°00'-98°00'W		DESIRED	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 15% FILM: EK3414 FILTER: W-12	--	32 SEC.	25 SEC ALT MODE 1	--	ANY	2*	>20°	0%	SNOW COVER - DESIRED 0%, MANDATORY <10%. *ONE DESCENDING PASS AND ONE ASCENDING PASS ARE DESIRED. S190B - S0242 FILM WOULD BE ACCEPTABLE.
					MANDATORY	PHOTOS: 4 O.L.: 60% FILM: STD FILTER: STD	OR PHOTOS: 3 O.L.: 15% FILM: EK3414 FILTER: W-12	--	32 SEC.	--	--	ANY	1	>20°	<5%	
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
946673 (501)		CARETS	36°00'-40°00'N, 74°30'-78°00'W		DESIRED	PHOTOS: 4 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 10% FILM: EK3443 FILTER: W-12	--	--	50 SEC ALT MODE 1	--	MAY AUG - SEP NOV - DEC	2 * 2 2	>30°	0%	SNOW COVER - DESIRED 0%, MANDATORY <10%. * ONE ASCENDING PASS AND ONE DESCENDING PASS ARE PREFERRED. S190B - S0242 FILM IS SECOND PRIORITY, NO FILTER.
					MANDATORY	PHOTOS: 4 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 6 O.L.: 10% FILM: EK3443 FILTER: W-12	--	--	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>30°	<30%	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B10-1. Cartography (900 Series) (Continued)

SITE TASK-IDENT	SUPT REQ	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
946432 (501)		MISSOURI	38°00'-40°00'N, 90°00'-96°00'W		DESIRED	PHOTOS: 3 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 10% FILM: EK3443 FILTER: W-12	--	--	--	--	MAY AUG - SEP NOV - DEC	2 * 2 2	>30°	0%	SNOW COVER - DESIRED 0%, MANDATORY <10%. * ONE ASCENDING PASS AND ONE DESCENDING PASS ARE PREFERRED. S190B - S0242 FILM IS SECOND PRIORITY, NO FILTER.
					MANDATORY	PHOTOS: 3 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 4 O.L.: 10% FILM: EK3443 FILTER: W-12	--	--	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>30°	<30%	
946222 (501)		NORTHERN ROCKY MOUNTAINS	42°00'- 46°00'N, 110°00'-112°00'W		DESIRED	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 10% FILM: EK3443 FILTER: W-12	--	--	--	--	MAY AUG - SEP NOV - DEC	2 * 2 2	>30° >30° >20°	0%	SNOW COVER - DESIRES <50%, MANDATORY ≤90%. * ONE ASCENDING PASS AND ONE DESCENDING PASS ARE PREFERRED. S190B - S0242 FILM IS SECOND PRIORITY, NO FILTER.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 10% FILM: EK3443 FILTER: W-12	--	--	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>30° >30° >20°	<30%	
946223 (501)		NORTHERN ARIZONA	34°00' - 37°00'N, 110°00'-112°00'W		DESIRED	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 10% FILM: EK3443 FILTER: W-12	--	--	35 SEC. ALT MODE 1	--	MAY AUG - SEP NOV - DEC	2 * 2 2	>30°	0%	SNOW COVER - DESIRED <50%, MANDATORY ≤90%. * ONE ASCENDING PASS AND ONE DESCENDING PASS ARE PREFERRED. S190B - S0242 FILM IS SECOND PRIORITY, NO FILTER.
					MANDATORY	PHOTOS: 2 O.L.: 10% FILM: STD FILTER: STD	PHOTOS: 3 O.L.: 10% FILM: EK3443 FILTER: W-12	--	--	--	--	MAY AUG - SEP NOV - DEC	1 1 1	>30°	<30%	
					DESIRED	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	PHOTOS: O.L.: FILM: FILTER:	PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					DESIRED	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY	NM: PHOTOS: O.L.: FILM: FILTER:	NM: PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Purpose

These tasks/sites are to provide data, on a site of opportunity basis, to various governmental agencies for analysis and application to a wide range of earth resources and works of man some of which are listed below:

Topography	Regional Geophysics
Sediment Transport	Environment studies
River and coastal erosion	Marine geology
Estuary circulation	Soils type classification
Snow and ice cover	Land use
Seepage around dams	Water table analysis

These sites are of known location and may be used in the determination of sensor on/off times for previously selected passes where adequate resources, i.e., film, tape, etc, are available. These sites should not be considered in the selection of passes or in pass evaluation.

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Table B11-1. User Agency Tasks (000 Series)

SITE TASK-IDENT	FO	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS						TEST CONDITIONS				UNIQUE TEST CONDITIONS
						S190A	S190B	S191	S192	S193	S194	SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	
001166		SOUTHWEST WASHINGTON STATE	46°10'- 47°10'N, 123°30'-124°20'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: S0242 FILTER: NONE	--	--	--	--	ANY				*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. EK3443 FILM, WITH W-12 FILTER SECOND PRIORITY.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001167		OREGON COAST	43°00'- 45°00'N, 123°30'-124°30'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: S0242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001363		NEW MEXICO AND COLORADO RIO GRANDE WATERSHED	35°20'- 38°20'N, 105°05'-107°35'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: S0242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001457		ARKANSAS RIVER	34°00'- 36°25'N, 91°00'- 96°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: S0242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001366		ALFALFA CO., OKLAHOMA	36°30'- 37°00'N, 98°10'- 98°40'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: S0242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001367		WOODS, HOPPER AND WOODWARD CO'S., OKLAHOMA	36°30'- 37°00'N, 99°00'-100°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: S0242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001368		KING, COTTLE, KNOX, AND FOARD CO'S., TEXAS	33°40'- 34°30'N, 99°30'-100°30'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: S0242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001502		SANGAMON RIVER BASIN, ILLINOIS	40°00'N, 89°29'W 40°33'N, 88°25'W 40°10'N, 88°00'W 39°37'N, 88°50'W 39°40'N, 89°29'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: S0242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			

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FOLDOUT FRAME 1

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Table B11-1. User Agency Tasks (000 Series) (Continued)

SITE TASK-IDENT	FO	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS						TEST CONDITIONS				UNIQUE TEST CONDITIONS
						S190A	S190B	S191	S192	S193	S194	SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	
001497		MISSISSIPPI RIVER	37°30'N, 89°30'W 36°30'N, 88°30'W 30°00'N, 91°00'W 31°00'N, 93°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY				*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. EK3443 FILM, WITH W-12 FILTER SECOND PRIORITY.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001498		LOUISIANA COAST	28°00'- 31°00'N, 88°30'- 92°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001458		OMAHA, NEBRASKA AREA	40°51'- 41°40'N, 96°30'- 97°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001461		KANSAS CITY, MISSOURI	38°30'-39°30'N, 94°00'-95°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001371		DENVER, COLORADO	39°00'- 40°30'N, 104°00'-106°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001499		MISSOURI RIVER	42°40'N, 98°30'W 43°00'N, 96°00'W 40°00'N, 94°00'W 39°00'N, 94°30'W 39°00'N, 90°00'W 38°20'N, 90°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001389		PLATTE RIVER	40°00'N,106°00'W 43°00'N,106°00'W 40°30'N, 95°30'W 41°30'N, 95°30'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001372		OAHE DAM AND LAKE, SOUTH DAKOTA	44°20'- 45°00'N, 100°00'-101°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B11-1. User Agency Tasks (000 Series) (Continued)

SITE TASK-IDENT	FO	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS						TEST CONDITIONS				UNIQUE TEST CONDITIONS
						S190A	S190B	S191	S192	S193	S194	SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	
001462		HARRY S. TRUMAN DAM AND LAKE, MISSOURI	37°50'- 38°30'N, 93°00'- 94°10'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: S0242 FILTER: NONE	--	--	--	--	ANY				*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. EK3443 FILM WITH W-12 FILTER SECOND PRIORITY.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001504		GREAT LAKES SYSTEM	47°00'N, 92°00'W 49°00'N, 88°00'W 46°00'N, 81°00'W 42°00'N, 82°00'W 42°00'N, 88°00'W 46°00'N, 88°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: S0242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001688		NORTH CAROLINA COAST	33°40'N, 79°20'W 33°30'N, 78°00'W 35°30'N, 76°00'W 35°00'N, 75°20'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: S0242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001689		MASSACHUSETTS/ NEW HAMPSHIRE	44°00'N, 73°00'W 42°00'N, 73°00'W 45°00'N, 70°00'W 42°00'N, 70°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: S0242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
001571		ORLANDO, FLORIDA AREA	28°00'- 29°00'N, 80°50'- 81°50'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: S0242 FILTER: NONE	--	--	--	--	ANY				SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY	1			
					DESIRED		PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY		PHOTOS: O.L.: FILM: FILTER:									
					DESIRED		PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY		PHOTOS: O.L.: FILM: FILTER:									
					DESIRED		PHOTOS: O.L.: FILM: FILTER:									
					MANDATORY		PHOTOS: O.L.: FILM: FILTER:									

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B11-1. User Agency Tasks (000 Series) (Continued)

SITE TASK-IDENT	FO	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS						TEST CONDITIONS				UNIQUE TEST CONDITIONS
						S190A	S190B	S191	S192	S193	S194	SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	
002111		PACIFIC, NW COAST	42°15'- 48°15'N, 123°00'-125°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	7			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002123		SEATTLE, WASHINGTON AREA	47°33'N, 122°20'W (20 MI RAD)		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			SAME AS ABOVE
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002126		NORTH CASCADES (WASHINGTON STATE)	46°30'- 49°00'N, 120°30'-122°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	4			SAME AS ABOVE
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002148		COLUMBIA PLATEAU (WASHINGTON, IDAHO, OREGON)	44°00'- 48°00'N, 116°00'-121°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	6			SAME AS ABOVE
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002131		MOUNT ST. HELENS (WASHINGTON STATE)	46°08'- 46°16'N, 122°05'-122°16'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			SAME AS ABOVE
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002130		CRATER LAKE (OREGON)	42°54'N, 122°07'W (5 MI RAD)		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			SAME AS ABOVE
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002144		LASSEN PEAK (CALIFORNIA)	40°24'- 40°34'N, 121°15'-121°35'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			SAME AS ABOVE
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002186		GLACIER NATIONAL PARK (MONTANA)	48°00'- 49°00'N, 113°15'-114°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2-3			SAME AS ABOVE
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B11-1. User Agency Tasks (000 Series) (Continued)

SITE TASK-IDENT	FO	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS						TEST CONDITIONS				UNIQUE TEST CONDITIONS
						S190A	S190B	S191	S192	S193	S194	SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	
002194		IDAHO/MONTANA	44°00'- 45°00'N, 112°00'-114°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002184		SNAKE RIVER (IDAHO)	42°00'- 43°30'N, 112°00'-115°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	5			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. 3 ASCENDING PASSES DESIRED 2 DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002242		YELLOWSTONE PARK AREA, (WYOMING, MONTANA, IDAHO)	43°30'- 45°45'N, 109°00'-111°45'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	6			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. 3 ASCENDING PASSES DESIRED 3 DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002182		NORTH-CENTRAL NEVADA	40°00'- 41°30'N, 116°30'-118°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	5			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. 3 ASCENDING PASSES DESIRED 2 DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002238		SALT LAKE CITY, UTAH AREA	40°45'N, 111°52'W (20 MI RAD)		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. 1 ASCENDING PASS DESIRED 1 DESCENDING PASS DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002110		SAN FRANCISCO, CALIFORNIA AREA	37°48'N, 122°30'W (20 MI RAD)		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	5			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. 3 ASCENDING PASSES DESIRED 2 DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002134		SAN BERNADINO, CALIFORNIA AREA	34°07'N, 117°19'W (20 MI RAD)		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. ASCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002209		SOUTHERN ARIZONA	31°30'- 34°00'N, 109°00'-113°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	4			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. 2 ASCENDING PASSES DESIRED 2 DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B11-1. User Agency Tasks (000 Series) (Continued)

SITE TASK-IDENT	FO	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS						TEST CONDITIONS				UNIQUE TEST CONDITIONS
						S190A	S190B	S191	S192	S193	S194	SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	
002271		NORTH-WESTERN NEW MEXICO	35°30'- 37°00'N, 107°30'-108°30'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	4			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS 2 ASCENDING PASSES DESIRED 2 DECENDING
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002239		SALINA AND MOAB, UTAH AREA	38°00'- 39°00'N, 108°00'-112°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS 1 ASCENDING PASS DESIRED 1 DESCENDING PASS DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002319		DENVER, COLORADO AREA	37°30'- 41°00'N, 104°45'-106°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	4			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS 2 ASCENDING PASSES DESIRED 2 DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002309		POWDER RIVER BASIN (NE WYOMING, SE MONTANA)	43°00'- 47°00'N, 104°00'-107°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	8			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS 4 ASCENDING PASSES DESIRED 4 DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002342		SOUTHWEST NORTH DAKOTA	46°00'- 48°00'N, 100°00'-104°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	11			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS 3 ASCENDING PASSES DESIRED 8 DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002397		SIOUX FALLS, SOUTH DAKOTA AREA	43°00'- 44°00'N, 95°00'-100°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	7			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS 4 ASCENDING PASSES DESIRED 3 DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002357		MC COOK, NEBRASKA AREA	40°00'- 41°00'N, 100°00'-101°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	1			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002394		SALINA, KANSAS AREA	38°00'- 39°00'N, 97°00'- 99°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B11-1. User Agency Tasks (000 Series) (Continued)

SITE TASK-IDENT	FO	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS						TEST CONDITIONS				UNIQUE TEST CONDITIONS
						S190A	S190B	S191	S192	S193	S194	SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	
002387		LINCOLN, NEBRASKA AREA	40°00'- 41°00'N, 94°00'- 98°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002412		KANSAS CITY AREA (KANSAS AND MISSOURI)	39°00'- 40°00'N, 92°00'- 96°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002414		TULSA, OKLAHOMA AREA	36°00'- 36°30'N, 95°30'- 96°30'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	4			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS 2 ASCENDING PASSES DESIRED 2 DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002426		FORT SMITH, ARKANSAS AREA	35°00'-36°00'N, 94°00'- 95°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002488		LITTLE ROCK, ARKANSAS AREA	34°15'- 35°15'N, 91°45'- 92°45'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002401		HOUSTON, TEXAS AREA	28°00'- 31°00'N, 94°00'- 97°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	3			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS 2 ASCENDING PASSES DESIRED 1 DESCENDING PASS DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002494		NEW ORLEANS, LOUISIANA AREA	29°59'N, 90°00'W (20 MI RAD)		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS ASCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002491		LOUISIANA COAST	29°00'- 30°00'N, 90°30'- 93°45'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	4			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS 2 ASCENDING PASSES DESIRED 2 DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B11-1. User Agency Tasks (000 Series) (Continued)

SITE TASK-IDENT	FO	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
002507		BILOXI, MISSISSIPPI AREA	30°00'- 30°45'N, 88°30'- 89°30'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS ASCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002489		JACKSON, MISSISSIPPI AREA	32°00'- 33°00'N, 89°30'- 91°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002516		MOBILE BAY, ALABAMA AREA	30°00'- 32°45'N, 87°15'- 88°30'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	4			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS 2 ASCENDING PASSES DESIRED 2 DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002518		NORTHEAST ALABAMA	32°30'- 35°00'N, 85°00'- 87°45'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	3			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS 2 ASCENDING PASSES DESIRED 1 DESCENDING PASS DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002483		CEDAR RAPIDS, IOWA AREA	41°30'- 42°30'N, 91°00'- 93°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002493		DAVENPORT, IOWA AREA (IOWA AND ILLINOIS)	41°00'- 42°00'N, 88°00'- 92°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002496		PEORIA, ILLINOIS AREA	39°00'- 41°00'N, 88°00'- 90°00W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	4			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS 2 ASCENDING PASSES DESIRED 2 DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002524		PONTIAC, MICHIGAN AREA	42°00'- 43°00'N, 82°00'- 84°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	5			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS 2 ASCENDING PASSES DESIRED 3 DESCENDING PASSES DESIRED
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B11-1. User Agency Tasks (000 Series) (Continued)

SITE TASK-IDENT	FO	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS S190A	S190B	S191	S192	S193	S194	TEST CONDITIONS SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	UNIQUE TEST CONDITIONS
002599		PITTSBURGH, PENNSYLVANIA AREA	40°00'- 41°00'N, 79°00'- 81°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	5			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. 2 ASCENDING PASSES DESIRED. 3 DESCENDING PASSES DESIRED.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002612		WASHINGTON, D.C. AREA	38°30'- 39°30'N, 76°00'- 78°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	5			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. 2 ASCENDING PASSES DESIRED. 3 DESCENDING PASSES DESIRED.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002657		NEW HAVEN, CONNECTICUT AREA	41°21'N, 72°51'W (20 MILE RADIUS)		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	4			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. 2 ASCENDING PASSES DESIRED. 2 DESCENDING PASSES DESIRED.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002617		CENTRAL NEW YORK STATE	42°00'- 44°00'N, 73°00'- 77°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	4			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. 2 ASCENDING PASSES DESIRED. 2 DESCENDING PASSES DESIRED.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002639		BOSTON, MASSACHUSETTS AREA	42°00'- 43°00'N, 70°30'- 72°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	2			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. ASCENDING PASSES DESIRED.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002656		CAPE COD, MASSACHUSETTS AREA	41°00'- 43°00'N, 69°00'- 71°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	4			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. 2 ASCENDING PASSES DESIRED. 2 DESCENDING PASSES DESIRED.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002628		PUERTO RICO AND VIRGIN ISLANDS PLATFORM	17°00'- 19°00'N, 64°00'- 68°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	**			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. **AS MANY PASSES AS PRACTICAL.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002859		ETHIOPIA AND ADJACENT AREAS	02°30'- 20°00'N, 35°00'- 45°00'E		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	**			SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				

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Table B11-1. User Agency Tasks (000 Series) (Continued)

SITE TASK-IDENT	FO	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS						TEST CONDITIONS				UNIQUE TEST CONDITIONS
						S190A	S190B	S191	S192	S193	S194	SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	
002827		SOUTHERN SPAIN	36°00'- 38°00'N, 00°00'- 09°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	**			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. **AS MANY PASSES AS PRACTICAL.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002826		ITALY	41°40'- 44°50'N, 09°30'- 12°10'E		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	**			SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002714		SOUTHEAST VENEZUELA	04°00'- 08°00'N, 60°00'- 66°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	**			SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002710		SOUTHWEST COLOMBIA	00°00'- 04°00'N, 72°00'- 78°00'W		DESIRED	--	NM: PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	**			SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002709		PERU	04°00'- 08°00'S, 72°00'- 84°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	**			SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002750		NORTH CENTRAL BRAZIL	04°00'- 08°00'S, 48°00'- 54°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	**			SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002730		WEST CENTRAL BRAZIL	08°00'- 12°00'S, 60°00'- 66°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	**			SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002720		PERU-CHILE-BOLIVIA-BORDER	16°00'- 20°00'S, 66°00'- 72°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	**			SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				

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Table B11-1. User Agency Tasks (000 Series) (Continued)

SITE TASK-IDENT	FO	TEST SITE	TEST SITE COORDINATES	FO VALUE INDEX		SENSOR REQUIREMENTS						TEST CONDITIONS				UNIQUE TEST CONDITIONS
						S190A	S190B	S191	S192	S193	S194	SEASONAL REQUIREMENTS	NUMBER PASSES	SUN ANGLE	CLOUD COVER	
002756		BELO HORIZONTE, BRAZIL	16°00'- 20°00'S, 42°00'- 48°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	**			*AS MANY PHOTOGRAPHS AS PRACTICAL WITHIN FILM USAGE CONSTRAINTS. **AS MANY PASSES AS PRACTICAL.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002715		NORTH CENTRAL CHILE	24°00'- 28°00'S, 66°00'- 72°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	**			SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002732		SALTA DISTRICT ARGENTINA	24°00'- 28°00'S, 60°00'- 66°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	**			SAME AS ABOVE.
					MANDATORY	--	PHOTOS: O.L.: FILM: FILTER:	--	--	--	--	ANY				
002724		CHILE-ARGENTINA	32°00'- 36°00'S, 66°00'- 72°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	**			SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002726		CHILE	15°30'- 27°30'S, 66°30'- 70°30'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	**			SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
002760		BRAZIL	06°00'- 20°00'S, 36°00'- 48°00'W		DESIRED	--	PHOTOS: * O.L.: ANY FILM: SO242 FILTER: NONE	--	--	--	--	ANY	**			SAME AS ABOVE.
					MANDATORY	--	PHOTOS: * O.L.: ANY FILM: ANY FILTER: ANY	--	--	--	--	ANY				
					DESIRED		PHOTOS: O.L.: FILM: FILTER:					ANY				
					MANDATORY		PHOTOS: O.L.: FILM: FILTER:					ANY				
					DESIRED		PHOTOS: O.L.: FILM: FILTER:					ANY				
					MANDATORY		PHOTOS: O.L.: FILM: FILTER:					ANY				

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B12.0 AIRCRAFT DATA

B12.1 GENERAL

The following section of aircraft requirements matrices are presented in ascending task/site order to provide the user a compatible correlation with the preceding spacecraft requirements sections. Similarly, the EPN is identified under each task/site number. It should be noted that the last three digits (site location) of the task/site identification number have been omitted. The test site location (coordinates) for the aircraft requirements are not necessarily identical to the spacecraft site coordinates, however, they should be within the related spacecraft task/site coordinates or are identical.

B12.2 MATRIX DESCRIPTION/EXPLANATION

The following is a brief description/explanation of the various entries:

a) Task/Site Identification - A three-digit task identifier which relates the aircraft requirement to the spacecraft task. EPN identity is also provided in parentheses for correlation.

b) Test Site Coordinates - Specific site coordinates for the aircraft underflight may be within the related spacecraft task/site or identical.

c) Aircraft Sensor Requirements - Indicates the mandatory and desired aircraft sensor requirements. An "X" indicates that one of that type of sensor is required. Arabic numbers are used to indicate a requirement greater than one. A special sensor complement, e.g., the Aircraft Multispectral Photographic System (AMPS), IR pallet, environmental sensors, and entries under the "Other" column, have been identified by specific name.

d) Flight Scheduling Criteria - The aircraft flight miles per flight are identified.

e) Flight Timing/Tolerance - The time frame for the aircraft flight is identified in terms of the Skylab overflight, seasonally or anytime. Below this entry is identified the flight tolerance in terms of months, days or hours. In many cases "simultaneous" is used. The definition for simultaneous is as follows: The aircraft and spacecraft will cover the same point on the ground track at the same time somewhere within the defined aircraft coordinate boundary.

f) Altitude - Self-explantory, however, more than one altitude or multilevel altitudes may be required for one aircraft flight.

For other detail aircraft information not provided in these matrices, e.g., specific types of sensors, types of aircraft, etc., reference should be made to the associated MSC Aircraft Project Support Plan(s).

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Table B12-1. Aircraft Data

SITE TASK-IDENT	TEST SITE COORDINATES		AIRCRAFT SENSOR REQUREMENTS								AIRCRAFT FLIGHT REQUIREMENTS				
			PHOTO		SCANNER										
			M/B	METRIC	MSS	IR	S-191	RADAR	M/W	OTHER	FLIGHT SCHEDULING CRITERIA	FLIGHT TIMING/ TOLERANCE	ALTITUDE (FT)	NO. OF A/C FLIGHTS	REMARKS
101--- (382)	SAN JOAQUIN COUNTY 37°29'- 38°20'N, 120°45'-121°45'W (SEE 101106)	MANDATORY	--	X	--	--	--	--	--	--	200 FLT MI	APR - JUN 1973 ±10 DAYS	60K PLUS	1	DESIRES A/C COVERAGE EVEN IF NO EREP COVERAGE ON SL-2 THIS A/C FLIGHT HAS 20% PRIORITY FACTOR.
		DESIRED	4	X	--	--	--	--	--	--	200 FLT MI	APR - JUN 1973 ±4 HOURS	65K	1	
		MANDATORY	--	X	--	--	--	--	--	--	200 FLT MI	JUL - SEP 1973 ±10 DAYS	60K PLUS	--	THIS A/C FLIGHT HAS 10% PRIORITY FACTOR.
		DESIRED	4	X	--	--	--	--	--	--	200 FLT MI	JUL - SEP 1973 ±4 HOURS	65K	1	
	SO SAN JOAQUIN VAL. 36°00'N, 120°15'W 36°40'N, 119°15'W 36°10'N, 118°40'W 35°30'N, 119°40'W (SEE 101104)	MANDATORY	--	X	--	--	--	--	--	--	200 FLT MI	APR - JUN 1973 ±10 DAYS	60K PLUS	1	A/C FLT HIGHLY DESIRABLE EVEN IF NO SL-2 COVERAGE. THIS A/C FLIGHT HAS 40% PRIORITY FACTOR.
		DESIRED	4	X	--	--	--	--	--	--	200 FLT MI	APR - JUN 1973 ±4 HOURS	65K	1	
		MANDATORY	--	X	--	--	--	--	--	--	200 FLT MI	JUL - SEP 1973 ±10 DAYS	60K PLUS	1	THIS A/C FLIGHT HAS 30% PRIORITY FACTOR.
		DESIRED	4	X	--	--	--	--	--	--	200 FLT MI	JUL - SEP 1973 ±4 HOURS	65K	1	
102--- (472-2)	SOUTHERN MICHIGAN 42°30'-43°00'N, 83°45'-84°35'W (SEE 102511)	MANDATORY	X	X	--	--	--	--	--	--	21 FLT MI	MAY - SEP 1973 ±15 DAYS	60K	1	THIS A/C FLIGHT DESIRED DURING GROWING SEASON.
		DESIRED	X	2	--	--	--	--	--	--	21 FLT MI	AUG 1973 SIMULTANEOUS	60K	1	
		MANDATORY	2	2	X	--	--	--	--	--	105 FLT MI	MAY 1973 ±1 DAY	1K,2K,4K, 5K,10K	--	--
		DESIRED	2	2	X	--	--	--	--	--	105 FLT MI	MAY 1973 ±4 HOURS	1K,2K,4K 5K,10K	1	
		MANDATORY	2	2	X	--	--	--	--	--	105 FLT MI	MAY - SEP 1973 ±4 HOURS	1K,2K,4K 5K,10K	1	--
		DESIRED	2	2	X	--	--	--	--	--	105 FLT MI	AUG 1973 SIMULTANEOUS	1K,2K,4K 5K,10K	1	
		MANDATORY	2	2	X	--	--	--	--	--	105 FLT MI	SEP 1973 ±1 DAY	1K,2K,4K, 5K,10K	--	--
		DESIRED	2	2	X	--	--	--	--	--	105 FLT MI	SEP 1973 SIMULTANEOUS	1K,2K,4K 5K,10K	1	
105--- (399)	STONEVILLE, MISS. 32°15' - 34°15'N, 90°15' - 91°15'W (SEE 105417)	MANDATORY	--	--	X	--	--	--	--	--	100 FLT MI	APR - SEP 1973 ±10 DAYS	20K	1	--
		DESIRED	--	X	X	--	--	--	--	--	100 FLT MI	APR - JUN 1973 ±4 HOURS	20K	1	
		MANDATORY	--	--	X	--	--	--	--	--	100 FLT MI	JUL - SEP 1973 ±10 DAYS	20K	--	CLOUD COVER <40% MANDATORY.
		DESIRED	--	X	X	--	--	--	--	--	900 FLT MI	JUL - SEP 1973 ±4 HOURS	20K	1	
108--- (510)	COLORADO PLATEAU 38°20'N, 110°00'W 39°30'N, 109°00'W 37°45'N, 106°00'W 36°00'N, 109°00'W 37°00'N, 110°00'W 37°45'N, 109°00'W (SEE 108226)	MANDATORY	4	1	--	--	--	--	--	--	375 FLT MI	MAY - SEP 1973 ±10 DAYS	60K	1	--
		DESIRED	4	2	--	--	--	--	--	--	375 FLT MI	MAY 1973 ±4 HOURS	65K	1	
		MANDATORY	4	1	--	--	--	--	--	--	375 FLT MI	AUG - SEP 1973 ±10 DAYS	60K	--	--
		DESIRED	4	2	--	--	--	--	--	--	375 FLT MI	AUG - SEP 1973 ±4 HOURS	65K	1	
	SIERRA LA HONTON 38°50'N, 122°15'W 41°00'N, 121°00'W 39°00'N, 117°30'W 38°00'N, 119°30'N (SEE 108138)	MANDATORY	4	1	--	--	--	--	--	--	480 FLT MI	MAY - DEC 1973 ±10 DAYS	60K	1	--
		DESIRED	4	2	--	--	--	--	--	--	480 FLT MI	MAY 1973 ±4 HOURS	65K	1	
		MANDATORY	4	1	--	--	--	--	--	--	480 FLT MI	AUG - SEP 1973 ±10 DAYS	60K	--	--
		DESIRED	4	2	--	--	--	--	--	--	480 FLT MI	AUG - SEP 1973 ±4 HOURS	65K	1	
		MANDATORY	4	1	--	--	--	--	--	--	480 FLT MI	OCT - DEC 1973 ±10 DAYS	60K	--	--
		DESIRED	4	2	--	--	--	--	--	--	480 FLT MI	OCT - DEC 1973 ±4 HOURS	65K	1	

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Table B12-1. Aircraft Data (Continued)

SITE TASK-IDENT	TEST SITE COORDINATES		AIRCRAFT SENSOR REQUREMENTS								AIRCRAFT FLIGHT REQUIREMENTS				
			PHOTO		SCANNER										
			M/B	METRIC	MSS	IR	S-191	RADAR	M/W	OTHER	FLIGHT SCHEDULING CRITERIA	FLIGHT TIMING/ TOLERANCE	ALTITUDE (FT)	NO. OF A/C FLIGHTS	REMARKS
108--- (510) cont.	NORTHERN GREAT VALLEY, CALIFORNIA 38°50'N, 122°15'W 39°00'N, 123°30'W 38°00'N, 119°30'W 37°00'N, 121°00'W (SEE 108141)	MANDATORY	4	X	--	--	--	--	--	--	450 FLT MI	MAY - SEP 1973 ±5 DAYS	60K	1	--
		DESIRED	4	2	--	--	--	--	--	--	450 FLT MI	MAY 1973 ±4 HOURS	65K	1	
		MANDATORY	4	X	--	--	--	--	--	--	450 FLT MI	ANY ±5 DAYS	60K	--	--
		DESIRED	4	2	--	--	--	--	--	--	450 FLT MI	AUG - SEP 1973 ±4 HOURS	65K	1	
	LOUISIANA COASTAL PLAINS 30°30'N, 93°50'W 31°30'N, 92°45'W 30°00'N, 91°00'W 29°10'N, 92°15'W (SEE 108433)	MANDATORY	4	X	--	--	--	--	--	--	375 FLT MI	MAY - SEP 1973 ±5 DAYS	60K	1	--
		DESIRED	4	2	--	--	--	--	--	--	375 FLT MI	MAY 1973 ±4 HOURS	65K	1	
		MANDATORY	4	X	--	--	--	--	--	--	375 FLT MI	ANY ±5 DAYS	60K	--	--
		DESIRED	4	2	--	--	--	--	--	--	375 FLT MI	AUG - SEP 1973 ±4 HOURS	65K	1	
132--- (356)	RIO GRANDE VALLEY 25°50' - 26°47'N, 97°12' - 98°38'W (SEE 132306)	MANDATORY	--	--	X	--	--	--	--	--	50 FLT MI	ANY ±2 DAYS*	10K	1	*SAME WEATHER CONDITIONS AS SL OVERFLIGHT.
		DESIRED	X	--	X	X	--	--	--	--	100 FLT MI	MAY 1973 ±4 HOURS	10K AND 3K	1	
		MANDATORY	--	--	X	--	--	--	--	--	50 FLT MI	ANY ±2 DAYS*	10K	--	*SAME WEATHER CONDITIONS AS SL OVERFLIGHT.
		DESIRED	X	--	X	X	--	--	--	--	100 FLT MI	AUG - SEP 1973 ±4 HOURS	10K AND 3K	1	
		MANDATORY	--	--	X	--	--	--	--	--	50 FLT MI	ANY ±2 DAYS*	10K	--	*SAME WEATHER CONDITIONS AS SL OVERFLIGHT.
		DESIRED	X	--	X	X	--	--	--	--	100 FLT MI	NOV - DEC 1973 ±4 HOURS	10K AND 3K	1	
146--- (540A2)	FREEZE/THAW LINES (SEE 146994)	MANDATORY	--	--	--	--	--	--	--	RAD/SCAT	240 FLT MI	NOV - DEC 1973 ±3 DAYS	10K	1	A/C PRIORITY FACTOR IS 30% ON THIS FLIGHT RELATIVE TO TEXAS AND OKLAHOMA SITE BELOW.
		DESIRED	--	--	--	--	--	--	--	RAD/SCAT	240 FLT MI	ANY ±4 HOURS	10K	1	
	TEXAS AND OKLAHOMA 31°30'N, 102°00'W TO 33°20'N, 99°40'W AND 35°30'N, 96°30'W TO 37°15'N, 94°00'W (SEE 146326 TO 146327)	MANDATORY	--	--	--	--	--	--	--	RAD/SCAT	320 FLT MI	MAY - SEP 1973 ±3 DAYS	10K	1	A/C PRIORITY FACTOR IS 70% RELATIVE TO ABOVE SITE.
		DESIRED	--	--	--	--	--	--	--	RAD/SCAT	320 FLT MI	MAY 1973 ±4 HOURS	10K	1	--
		MANDATORY	--	--	--	--	--	--	--	RAD/SCAT	320 FLT MI	ANY ±3 DAYS	10K	1	160 NM/SITE
		DESIRED	--	--	--	--	--	--	--	RAD/SCAT	320 FLT MI	AUG - SEP 1973 ±4 HOURS	10K	1	
148--- (452)	SOUTH DAKOTA 45°00' - 45°40'N, 99°50' -100°40'W (SEE 148316)	MANDATORY	--	3	--	--	--	--	--	--	10 FLT MI	MAY - SEP 1973 ±5 DAYS	60K	1	--
		DESIRED	5	3	--	X	--	--	--	IR PALLET	10 FLT MI	LATE MAY 1973 ±4 HOURS	60K	1	
		MANDATORY	--	--	--	--	--	--	--	RAD/SCAT	20 FLT MI	MAY - SEP 1973 ±5 DAYS	10K	1	--
		DESIRED	5	2	X	--	--	--	--	RAD/SCAT	20 FLT MI	LATE MAY 1973 ±4 HOURS	10K	1	
		MANDATORY	--	--	--	--	--	--	--	RAD/SCAT	20 FLT MI	ANY ±5 DAYS	10K	--	--
		DESIRED	5	2	X	--	--	--	--	RAD/SCAT	20 FLT MI	JUL - SEP 1973 ±4 HOURS	10K	1	
161--- (418-1)	MANITOU, COLORADO 38°30' - 39°30'N, 104°40' -105°50'W (SEE 161313)	MANDATORY	5	--	--	--	--	--	--	--	480 FLT MI	APR - SEP 1973 ±15 DAYS	60K	1	--
		DESIRED	5	3	--	--	--	--	--	--	480 FLT MI	LATE MAY 1973 ±4 HOURS	62K	1	
		MANDATORY	5	--	--	--	--	--	--	--	480 FLT MI	APR - SEP 1973 ±15 DAYS	60K	--	--
		DESIRED	5	3	--	--	--	--	--	--	480 FLT MI	AUG 1973 ±4 HOURS	62K	1	
		MANDATORY	5	--	X	--	--	--	--	--	6 FLT MI	APR - SEP 1973 ±15 DAYS	10K	1	--
		DESIRED	5	X	X	--	--	--	--	--	6 FLT MI	AUG 1973 ±4 HOURS	9.5K	1	

Table B12-1. Aircraft Data (Continued)

SITE TASK-IDENT	TEST SITE COORDINATES		AIRCRAFT SENSOR REQUREMENTS								AIRCRAFT FLIGHT REQUIREMENTS				
			PHOTO		SCANNER										
			M/B	METRIC	MSS	IR	S-191	RADAR	M/W	OTHER	FLIGHT SCHEDULING CRITERIA	FLIGHT TIMING/ TOLERANCE	ALTITUDE (FT)	NO. OF A/C FLIGHTS	REMARKS
176--- (473)	NORTHERN CALIF. 40°10'- 41°20'N, 121°40'-123°10'W (SEE 176127)	MANDATORY	--	2	--	--	--	--	--	--	800 FLT MI	MAY 1972 - FEB 1973	60K	--	--
		DESIRED	--	3	--	--	--	--	--	--	800 FLT MI	LATE MAY 1973 ±14 DAYS	60K	1	
177--- (418-2)	ATLANTA, GA. 32°50'-34°00'N, 84°00'-86°00'W (SEE 177512)	MANDATORY	4	--	--	--	--	--	--	--	880 FLT MI	ANY ±3 DAYS	55K PLUS	1	IF SKYLAB SHOULD FLY ONCE EACH MISSION, DESIRES ONE A/C FLT FOR EACH MAX. (TOTAL OF BELTS FOR EACH A/C).
		DESIRED	4	3	--	--	--	--	--	--	880 FLT MI	MAY - JUNE 1973 ±4 HOURS	60K	1	
		MANDATORY	4	--	--	--	--	--	--	--	880 FLT MI	ANY ±15 DAYS	55K PLUS	--	--
		DESIRED	4	3	--	--	--	--	--	--	880 FLT MI	SEP - DEC 1972 ±4 HOURS	60K	1	
		MANDATORY	--	--	X	--	--	--	--	--	--	ANY ±3 DAYS	10K	--	--
		DESIRED	--	X	X	--	--	--	--	--	40 FLT MI	MAY - JUNE 1973 ±4 HOURS	10K	1	
		MANDATORY	--	--	X	--	--	--	--	--	--	ANY ±15 DAYS	10K	--	--
		DESIRED	--	X	X	--	--	--	--	--	40 FLT MI	SEP - DEC 1973 ±4 DAYS	10K	1	
191--- (418-3)	BLACK HILLS, S.D. 43°35'- 44°35'N, 103°00'-104°30'W (SEE 191312)	MANDATORY	5	--	--	--	--	--	--	--	360 FLT MI	JUL - SEP 1973 ±7 DAYS	60K	1	--
		DESIRED	5	3	--	--	--	--	--	--	360 FLT MI	AUG 1973 ±4 HOURS	60K	1	
		MANDATORY	5	--	X	--	--	--	--	--	30 FLT MI	JUL - SEP 1973 ±7 DAYS	7.5K AND 13.5K	1	
		DESIRED	5	X	X	--	--	--	--	--	30 FLT MI	AUG 1973 ±4 HOURS	7.5K AND 13.5K	1	
201--- (434)	STATE OF WYOMING 40°00'- 45°00'N, 104°00'-111°00'W (SEE 201296)	MANDATORY	X	2	--	--	--	--	--	--	500 FLT MI	ANY --	60K	3	DESIRES TO MAP ENTIRE STATE USING DATA FROM 203(393) BELOW ALSO.
		DESIRED	X	3	--	--	--	--	--	IR PALLET	500 FLT MI	ANY --	60K	3	
203--- (393)	BIG HORN MTNS, WYO. 43°00'- 45°30'N, 103°00'-110°00'W (SEE 203393)	MANDATORY	X	X	--	--	--	--	--	--	1000 FLT MI	ANY ±7 DAYS	60K	1	IF POSSIBLE, USE THIS DATA TO SUPPLEMENT 201(434) ABOVE.
		DESIRED	X	X	--	--	--	--	--	--	1000 FLT MI	SL-3 ±1 DAY	60K	1	
205--- (380)	ROCKY MTNS. ENVIRONMENTAL TEST SITE 37°15'N, 108°00'W 37°15'N, 106°30'W 37°45'N, 106°30'W 37°45'N, 104°30'W 40°45'N, 104°30'W 40°45'N, 105°30'W 39°23'N, 106°45'W 38°00'N, 106°45'W 38°00'N, 108°00'W (SEE 205392)	MANDATORY	X	2	--	--	X	--	--	--	300 FLT MI	SPRING 1973 --	60K	*1	* FLY SAN JUAN MTS. ONLY.
		DESIRED	X	3	--	--	X	--	--	--	500 FLT MI	FALL 1972 --	60K	2	
		MANDATORY	X	2	--	--	X	--	--	--	500 FLT MI	SL-3 ±14 DAYS	60K	1	--
		DESIRED	X	3	--	--	X	--	--	--	500 FLT MI	SL-3 ±1 DAY	60K	1	
208--- (357)	GREAT BASIN NEVADA 38°50'N, 114°16'W 40°12'N, 115°18'W 38°36'N, 118°40'W 37°18'N, 117°36'W (SEE 208101)	MANDATORY	X	2	--	--	--	--	--	--	1000 FLT MI	JUNE 1973 --	60K	1	--
		DESIRED	X	3	--	--	X	--	--	--	500 FLT MI	SEP 1973 --	60K	2	
		MANDATORY	X	2	--	--	--	--	--	--	1000 FLT MI	SL-2 ±14 DAYS	60K	1	--
		DESIRED	AMPS	3	--	--	X	--	--	--	500 FLT MI	SL-2 ±1 DAY	60K	2	
221--- (442-M)	NEVADA/UTAH 37°20'- 42°00'N, 109°00'-118°00'W (SEE 221196)	MANDATORY	--	2	--	--	--	--	--	--	500 FLT MI	SL-3 ±7 DAYS	60K	1	--
		DESIRED	X	3	--	--	--	--	--	--	500 FLT MI	SL-3 SIMULTANEOUS	60K	1	
		MANDATORY	--	2	--	--	--	--	--	--	500 FLT MI	SL-3 ±7 DAYS	60K	1	--
		DESIRED	X	3	--	--	--	--	--	--	500 FLT MI	SL-3 SIMULTANEOUS	60K	2	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B12-1. Aircraft Data (Continued)

SITE TASK-IDENT	TEST SITE COORDINATES		AIRCRAFT SENSOR REQUIREMENTS: PHOTO M/B	PHOTO METRIC	SCANNER MSS	SCANNER IR	SCANNER S-191	RADAR	M/W	OTHER	AIRCRAFT FLIGHT REQUIREMENTS: FLIGHT SCHEDULING CRITERIA	FLIGHT TIMING/ TOLERANCE	ALTITUDE (FT)	NO. OF A/C FLIGHTS	REMARKS
223--- (475)	SUSQUEHANNA VALLEY, PENN. 40°00'N, 76°00'W 42°00'N, 76°00'W 42°00'N, 78°00'W 42°10'N, 78°00'W 42°10'N, 80°30'W 41°00'N, 80°30'W 41°00'N, 79°00'W 40°00'N, 79°00'W (SEE 223662)	MANDATORY	X	X	--	--	--	--	--	--	675 FLT MI	SL-3 ±7 DAYS	60K	1	--
		DESIRED	X	3	--	X	--	--	--	--	675 FLT MI	SL-2 OR SL-3 SIMULTANEOUS	60K	1	
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	
241--- (495)	ANADORAKA, OKLA. 34°45' - 37°00'N, 97°35' - 101°35'W (SEE 241328)	MANDATORY	X	2	--	--	--	--	--	--	240 FLT MI	NOV 1972-MAY 1973 PRE - SL	60K	1	--
		DESIRED	X	3	--	--	--	--	--	--	500 FLT MI	NOV 1972-MAY 1973 PRE - SL	60K	1	
256--- (444M)	PISGAH CRATER, CALIF. 34°23'- 35°33'N, 115°45'-117°27'W (SEE 256112)	MANDATORY	--	--	--	--	X	--	--	--	50 FLT MI	SL-2 ±2 HOURS	500 - 5K	--	--
		DESIRED	--	--	--	--	X	--	--	--	50 FLT MI	SL-2 SIMULTANEOUS	500 - 5K	1	
257--- (487)	PISGAH CRATER, CALIF. 34°23'- 35°33'N, 115°45'-117°27'W (SEE 257112)	MANDATORY	--	X	--	X	--	--	--	--	100 FLT MI	ANY ±1 MONTH	20K	1	DAY/NIGHT FLIGHTS SHOULD BE FLOWN WITHIN 1 DAY OF EACH OTHER.
		DESIRED	X	X	--	X	--	--	--	--	100 FLT MI	WINTER ±1 DAY	MAXIMUM	1	
		MANDATORY	--	--	--	X	--	--	--	--	100 FLT MI	ANY ±1 MONTH	20K	1	DAY/NIGHT FLIGHTS SHOULD BE FLOWN WITHIN 1 DAY OF EACH OTHER
		DESIRED	--	--	--	X	--	--	--	--	100 FLT MI	WINTER ±1 DAY	MAXIMUM	1	
258--- (423/504)	ARIZONA A-36°44'N, 113°26'W 36°37'N, 113°12'W 36°00'N, 113°42'W 36°09'N, 113°55'W (SEE 258294)	MANDATORY	X	X	--	--	--	--	--	--	600 FLT MI	ANY ANY	60K	1*	*EACH FLIGHT WILL COVER ALL 3 TEST SITES
		DESIRED	X	2	--	X	--	--	--	--	600 FLT MI	APR 1973 ANY	60K	1*	
	B-TBD *	MANDATORY	X	X	X	--	--	--	--	--	100 FLT MI	SL-2 ±7 DAYS	25K	1*	*EACH FLIGHT WILL COVER ALL 3 TEST SITES
	C-TBD *	DESIRED	X	2	X	--	--	--	--	--	100 FLT MI	SL-2 ±3 DAYS	25K	1*	
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	
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			--	--	--	--	--	--	--	--	--	--	--	--	
259--- (9641)	MONO LAKE 38°00'N, 119°02'W (SEE 259140) OR WALKER LAKE 38°41'N, 118°43'W (SEE 259145)	MANDATORY	--	--	--	X	--	--	--	IR PALLET	75 FLT MI	ANY ±3 HOURS	60K	--	--
		DESIRED	X	X	--	X	--	--	--	IR PALLET	75 FLT MI	SL-2 OR SL-3 SIMULTANEOUS	60K	1	
		MANDATORY													
		DESIRED													
303--- (491)	GREAT PLAINS 37°00'- 44°00'N, 88°00'-102°00'W (SEE 303495)	MANDATORY	--	2	--	--	--	--	--	--	500 FLT MI	SPRING 1973 ±10 DAYS	60K	1	AFTER SNOW, PRIOR TO LEAF OUT
		DESIRED	X	3	--	--	--	--	--	--	500 FT MI	SPRING 1973 ±10 DAYS	60K	2	AFTER SNOW, PRIOR TO LEAF OUT
331--- (427)	LAKE ONTARIO 42°35'-44°30'N, 76°00'-80°30'W (SEE 331695)	MANDATORY	--	--	X	--	--	--	--	--	150 FLT MI	SL-2 ±12 HOURS	2K,5K,10K	1	DAY FLIGHT
		DESIRED	X	X	X	--	--	--	--	--	150 FLT MI	SL-2 SIMULTANEOUS	2K,5K,10K	1	DAY FLIGHT
		MANDATORY	--	--	X	--	--	--	--	--	150 FLT MI	SL-2 ±12 HOURS	2K,5K,10K	1	NIGHT FLIGHT
		DESIRED	--	--	X	--	--	--	--	--	150 FLT MI	SL-2 ±12 HOURS	2K,5K,10K	1	NIGHT FLIGHT

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B12-1. Aircraft Data (Continued)

SITE TASK-IDENT	TEST SITE COORDINATES		AIRCRAFT SENSOR REQUREMENTS								AIRCRAFT FLIGHT REQUIREMENTS				
			PHOTO		SCANNER			RADAR	M/W	OTHER	FLIGHT SCHEDULING CRITERIA	FLIGHT TIMING/ TOLERANCE	ALTITUDE (FT)	NO. OF A/C FLIGHTS	REMARKS
			M/B	METRIC	MSS	IR	S-191								
332--- (064B)	COLORADO RIVER BASIN, TEXAS 28°31'-31°29'N, 96°00'-98°21'W (SEE 332388)	MANDATORY	X	X	--	--	--	--	--	--	840 FLT MI	SL-3 ±14 DAYS	10K AND 25K	1	COORDINATE CENTER LINE OF 40 NM STRIP. GOLDWATER TO COAST.
		DESIRED	X	X	--	--	--	--	--	--	1000 FLT MI	SL-3 ±1 DAY	10K AND 25K	1	
	OR	MANDATORY	X	2	--	--	--	--	--	--	840 FLT MI	SL-3 ±14 DAYS	60K	1	--
		DESIRED	X	3	--	--	--	--	--	--	1000 FLT MI	SL-3 ±1 DAY	60K	1	
	GUADALUPE RIVER BASIN, TEXAS 28°15'-30°35'N, 96°10'-98°45'W (SEE 332391)	MANDATORY	X	X	--	--	--	--	--	--	840 FLT MI	SL-3 ±14 DAYS	10K AND 25K	1	--
		DESIRED	X	X	--	--	--	--	--	--	1000 FLT MI	SL-3 ±1 DAY	10K AND 25K	1	
		MANDATORY	X	2	--	--	--	--	--	--	840 FLT MI	SL-3 ±14 DAYS	60K	1	--
		DESIRED	X	3	--	--	--	--	--	--	1000 FLT MI	SL-3 ±1 DAY	60 K	1	
333--- (454-3)	FEATHER RIVER, CALIFORNIA 39°20'- 40°30'N, 120°00'-121°45'W (SEE 333113)	MANDATORY	X	X	--	--	--	--	--	--	1000 FLT MI	ANY ±30 DAYS	60K	1	--
		DESIRED	X	X	--	--	--	--	--	--	1000 FLT MI	SL-2 ±14 DAYS	65K	1	
		MANDATORY	X	X	--	--	--	--	--	--	1000 FLT MI	ANY ±30 DAYS	60K	1	--
		DESIRED	X	X	--	--	--	--	--	--	1000 FLT MI	SL-3 ±14 DAYS	65K	1	
		MANDATORY	X	X	--	--	--	--	--	--	1000 FLT MI	ANY ±30 DAYS	60K	1	
		DESIRED	X	X	--	--	--	--	--	--	1000 FLT MI	SL-4 ±14 DAYS	65K	1	
335--- (489)	ARETS 31°30'- 34°00'N, 109°00'-113°00'W (SEE 335217)	MANDATORY	--	2	--	--	--	--	--	--	200 FLT MI	PREFLIGHT -	60K	1	--
		DESIRED	X	3	--	--	--	--	--	--	200 FLT MI	PREFLIGHT -	60K	2	
338--- (089)	NEW ENGLAND(FLOODS) 41°30'-45°00'N, 70°50'-74°00'W (SEE 338613)	MANDATORY	--	X	--	X	--	--	--	--	500 FLT MI	SL-3 ANYTIME	60K	1	*BEFORE, DURING AND AFTER STORM AIRCRAFT FLIGHTS SHOULD BE MADE.
		DESIRED	--	X	--	X	--	--	--	--	500 FLT MI	SL-3 *	60K	3	
403--- (460)	NORTH ATLANTIC 32°00'N, 55°00'W 32°00'N, 81°00'W 50°00'N, 65°00'W 50°00'N, 10°00'W (SEE 403691)	MANDATORY	X	--	--	--	--	--	--	RAD/SCAT LASER PRT-5	--	SL-4 ±2 HOURS	--	--	*10 NM @ 500 FT. ALT. AND 66 NM @ 3K IN YO-YO FASHION EVERY HOUR. ALSO COORD. WITH EPN 384, 550, 442. ENVIRONMENTAL SENSORS MANDATORY.
		DESIRED	X	--	--	--	--	--	--	RAD/SCAT LASER PRT-5	1000 FLT MI	SL-4 SIMULTANEOUS	500 - 3K	1*	
	GULF OF MEXICO 22°30'N, 98°00'W 24°00'N, 96°00'W 30°05'N, 96°30'W 30°30'N, 97°00'W (SEE 403598)	MANDATORY	X	--	--	--	--	--	--	RAD/SCAT LASER PRT-5	400 FLT MI	SL-2 ±1 HOUR	500 - 3K	1	*10 NM @ 500 FT. ALT. AND 66 NM @ 3K IN YO-YO FASHION EVERY HOUR. ALSO COORD. WITH EPN 384, 550, 442. ENVIRONMENTAL SENSORS MANDATORY.
		DESIRED	X	--	--	--	--	--	--	RAD/SCAT LASER PRT-5	400 FLT MI	SL-2 SIMULTANEOUS	500 - 3K	3*	
		MANDATORY	X	--	--	--	--	--	--	RAD/SCAT LASER PRT-5	400 FLT MI	SL-3 ±1 HOUR	500 - 3K	1	10 NM @0.5K ALT. AND 66 NM @ 3K IN YO-YO FASHION EVERY HR. ALSO COORD. WITH EPN 384, 550, 422 ENVIRONMENTAL SENSORS MANDATORY.
		DESIRED	X	--	--	--	--	--	--	RAD/SCAT LASER PRT-5	400 FLT MI	SL-3 SIMULTANEOUS	500 - 3K	3*	
417--- (457-4	LAKE ONTARIO 42°30'-44°30'N, 76°00'-80°00'W (SEE 417642)	MANDATORY	X	X	--	--	--	--	X	--	150 FLT MI	SL-4 ±1 DAY	20K	1	10% - 80% ICE COVER REQUIRED M/W = PMIS M/B = KA62
		DESIRED	X	X	--	--	--	--	X	SLAR	150 FLT MI	SL-4 SIMULTANEOUS	20K	2	ENVIRONMENTAL SENSORS MANDATORY.
	GULF OF LAWRENCE 45°00'-50°00'N, 58°00'-65°00'W (SEE 417641)	MANDATORY	X	X	--	--	--	--	X	--	150 FLT MI	SL-4 ±1 DAY	20K	1	10% - 80% ICE COVER REQUIRED ENVIRONMENTAL SENSORS MANDATORY.
		DESIRED	X	X	--	--	--	--	X	SLAR	150 FLT MI	SL-4 SIMULTANEOUS	20K	2	
431--- (108)	E. GULF OF MEXICO 21°00'-30°00'N, 84°00'-90°00'W (SEE 431536)	MANDATORY	X	--	--	X	--	--	--	PRT-5	50 FLT MI	LATE SL-3 OR SL-4 ±1 HOUR	1.1K TO 24.3K	1	M/B WITH S190A CONFIGURATION UNDER-FLIGHTS MUST COINCIDE WITH SL OVER-PASS. ALT = 100 MILLIBAR INTERVALS ENVIRONMENTAL SENSORS MANDATORY.
		DESIRED	X	--	X	X	--	--	--	PRT-5	50 FLT MI	SL-4 SIMULTANEOUS	1.1K TO 24.3K	2	
		MANDATORY	--	--	--	--	--	--	--	--	50 FLT MI	LATE SL-3 OR SL-4 ±1 HOUR	500 - 3K	1	HELICOPTER RANGE 500 NM ONLY.
		DESIRED	--	--	--	--	X	--	--	--	50 FLT MI	SL-4 SIMULTANEOUS	500 - 3K	2	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B12-1. Aircraft Data (Contined)

SITE TASK-IDENT	TEST SITE COORDINATES		AIRCRAFT SENSOR REQUREMENTS								AIRCRAFT FLIGHT REQUIREMENTS				
			PHOTO		SCANNER										
			M/B	METRIC	MSS	IR	S-191	RADAR	M/W	OTHER	FLIGHT SCHEDULING CRITERIA	FLIGHT TIMING/ TOLERANCE	ALTITUDE (FT)	NO. OF A/C FLIGHTS	REMARKS
476--- (586-3)	HATS (SEE 581401)	MANDATORY	--	2	X	--	X	--	--	PRT-5	30 FLT MI	PREFLIGHT --	1.5K, 5K, 2.5K	1	DATA FROM EPN 581 REQUIRED. ENVIRONMENT SENSORS MANDATORY.
		DESIRED	--	2	X	--	X	--	--	PRT-5	30 FLT MI	PREFLIGHT --	1.5K, 5K 2.5K	1	
478--- (240)	GULF OF MEXICO 27°45'N, 86°10'W 28°48'N, 84°55'W 30°26'N, 89°10'W 31°30'N, 87°52'W (SEE 240500)	MANDATORY	AMPS	--	--	X	--	--	--	PRT-5	200 FLT MI	SL-2 ±2 HOURS	20K	1	ENVIRONMENT SENSORS MANDATORY.
		DESIRED	AMPS	X	X	X	--	--	--	PRT-5	200 FLT MI	SL-2 SIMULTANEOUS	20K	1	
		MANDATORY	AMPS	--	--	X	--	--	--	PRT-5	200 FLT MI	SL-3 ±2 HOURS	20K	1	ENVIRONMENT SENSORS MANDATORY.
		DESIRED	AMPS	X	X	X	--	--	--	PRT-5	200 FLT MI	SL-3 SIMULTANEOUS	20K	1	
502--- (582)	BETA NETWORK, OKLAHOMA 35°00'-35°42'N, 97°23'-98°11'W (SEE 502333)	MANDATORY	--	--	--	--	X	--	--	--	--	SL-2 ±1 HOUR	--	--	DOD WB57 (58TH WX. RECON. SQ.) SUPPORT ALSO REQUESTED.
		DESIRED	--	--	--	--	X	--	--	--	200 FLT MI	SL-2 SIMULTANEOUS	500 TO 5K	2	
		MANDATORY	--	--	--	--	X	--	--	--	--	SL-3 ±1 HOUR	--	--	DOD WB57 (58TH WX. RECON. SQ.) SUPPORT ALSO REQUESTED.
		DESIRED	--	--	--	--	X	--	--	--	200 FLT MI	SL-3 SIMULTANEOUS	500 TO 5K	2	
503--- (556-1)	TARGETS OF OPPORTUNITY (SEE 503691, 503437 AND 503409)	MANDATORY	--	X	--	--	--	--	--	--	300 FLT MI	SL-2 ±1 HOUR	25K -- 60K	1	NOAA A/C ALTERNATE TO MSC A/C. CLOUD REGIMES TO BE PHOTOGRAPHED: 1. SUBTROPICAL HIGH PRESSURE AND TRADE WIND CUMULUS. 2. COASTAL STATUS OVER WATER. 3. FRONTAL CLOUDS ASSOCIATED WITH EXTRATROPICAL STORMS. 4. CLOUDS IN COLD AIR ASSOCIATED WITH EXTRATROPICAL CYCLONES. 5. CLOUDS ASSOCIATED WITH COLD CORE LOWS. 6. CONVECTIVE CLOUDS OVERLAND NOT RELATED TO THE INTERTROPICAL CONVERGENCE ZONE. DESIRE CREW TO LOG CLOUD LAYER HEIGHTS (BASE TO TOP) AND AMOUNTS.
		DESIRED	--	X	--	--	--	--	--	--	300 FLT MI	SL-2 SIMULTANEOUS	--	3	
		MANDATORY	--	X	--	--	--	--	--	--	300 FLT MI	SL-3 ±1 HOUR	25K -- 60K	1	
		DESIRED	--	X	--	--	--	--	--	--	300 FLT MI	SL-3 SIMULTANEOUS	--	6	
		MANDATORY	--	X	--	--	--	--	--	--	300 FLT MI	SL-4 ±1 HOUR	25K -- 60K	1	
		DESIRED	--	X	--	--	--	--	--	--	300 FLT MI	SL-4 SIMULTANEOUS	--	6	
504--- (9611)	TARGETS OF OPPORTUNITY (CLOUD TOP SURVEY) (SEE 504408 AND 504147)	MANDATORY	--	--	--	--	--	--	--	--	--	ANY ±2 HOURS	--	--	CLOUD TYPES: 1. STRATUS 2. LARGE IDENTIFIABLE CLOUD FEATURES. 3. CIRRUS CLOUDS. AEROSOL SAMPLER MAND, NEPHELOMETER DES.
		DESIRED	--	--	--	--	--	--	--	--	300 FLT MI	ANY ±2 HOURS	--	3	
516--- (450)	PISGAH CRATER 34°23'- 35°33'N, 117°27'-115°47'W (SEE 516112)	MANDATORY	--	--	X	--	--	--	--	--	--	SL-2 ±1 DAY	--	--	FLTS. HIGHLY DESIRABLE ONLY AEROSOL SAMPLER NOT AVAILABLE ON NC130 OR NC47 A/C. (AEROSOL SAMPLER OR NEPHELOMETER DESIRABLE)
		DESIRED	--	--	X	--	--	--	--	--	25 FLT MI	SL-2 SIMULTANEOUS	5K	1	
		MANDATORY	--	--	X	--	--	--	--	--	--	SL-3 ±1 DAY	--	--	FLTS. HIGHLY DESIRABLE ONLY AEROSOL SAMPLER NOT AVAILABLE ON NC130 OR NC47 A/C. (AEROSOL SAMPLER OR NEPHELOMETER DESIRABLE)
		DESIRED	--	--	X	--	--	--	--	--	25 FLT MI	SL-3 SIMULTANEOUS	5K	1	
	LAKE MICHIGAN 42°00'-44°00'N, 86°45'-87°30'W (SEE 516528)	MANDATORY	--	--	X	--	--	--	--	--	--	SL-2 ±1 DAY	--	--	FLTS. HIGHLY DESIRABLE ONLY AEROSOL SAMPLER NOT AVAILABLE ON NC130 OR NC47 A/C. (AEROSOL SAMPLER OR NEPHELOMETER DESIRABLE)
		DESIRED	--	--	X	--	--	--	--	--	25 FLT MI	SL-2 SIMULTANEOUS	5K	1	
		MANDATORY	--	--	X	--	--	--	--	--	--	SL-3 ±1 DAY	--	--	FLTS. HIGHLY DESIRABLE ONLY AEROSOL SAMPLER NOT AVAILABLE ON NC130 OR NC47 A/C. (AEROSOL SAMPLER OR NEPHELOMETER DESIRABLE)
		DESIRED	--	--	X	--	--	--	--	--	25 FLT MI	SL-3 SIMULTANEOUS	5K	1	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B12-1. Aircraft Data (Continued)

SITE TASK-IDENT	TEST SITE COORDINATES		AIRCRAFT SENSOR REQUREMENTS: PHOTO M/B	PHOTO METRIC	SCANNER MSS	SCANNER IR	SCANNER S-191	RADAR	M/W	OTHER	FLIGHT SCHEDULING CRITERIA	AIRCRAFT FLIGHT REQUIREMENTS: FLIGHT TIMING/ TOLERANCE	ALTITUDE (FT)	NO. OF A/C FLIGHTS	REMARKS
517--- (381)	HATS 28°00'-31°00'N, 94°00'-97°00'W (SEE 517401)	MANDATORY	X	--	--	--	--	--	--	IR PALLET	--	ANY ±30 MIN.	--	1	ENVIRONMENTAL SENSORS MANDATORY
		DESIRED	X	--	X	X	--	--	X	PRT-5	160 FLT MI	SL-2, SL-3 SIMULTANEOUS	25K	1 (SL-2) 1 (SL-3)	
		MANDATORY	X	--	--	--	--	--	--	IR PALLET	--	ANY ±30 MIN.	--	--	ENVIRONMENTAL SENSORS MANDATORY
		DESIRED	X	--	X	X	--	--	X	PRT-5	160 FLT MI	SL-4 SIMULTANEOUS	25K	1	
		MANDATORY	X	--	X	--	--	--	--	--	--	ANY ±30 MIN.	--	--	ENVIRONMENTAL SENSORS MANDATORY
		DESIRED	X	--	X	X	--	--	X	PRT-5	160 FLT MI	SL-2, SL-3 SIMULTANEOUS	15K	1 (SL-2) 1 (SL-3)	
		MANDATORY	X	--	X	--	--	--	--	--	--	ANY ±30 MIN.	--	--	ENVIRONMENTAL SENSORS MANDATORY
		DESIRED	X	--	X	X	--	--	X	PRT-5	160 FLT MI	SL-4 SIMULTANEOUS	15K	1	
		MANDATORY	--	--	--	--	--	--	--	IR PALLET	--	ANY ±30 MIN.	--	--	ENVIRONMENTAL SENSORS MANDATORY
		DESIRED	X	--	--	--	--	--	--	IR PALLET SIS	160 FLT MI	SL-2, SL-3 SIMULTANEOUS	60K	1 (SL-2) 1 (SL-3)	
		MANDATORY	--	--	--	--	--	--	--	IR PALLET	--	ANY ±30 MIN.	--	--	
		DESIRED	X	--	--	--	--	--	--	IR PALLET SIS	160 FLT MI	SL-4 SIMULTANEOUS	60K	1	
	FOUR CORNERS 38°30'- 39°30'N, 108°00'-109°30'W (SEE 517267)	MANDATORY	X	--	--	--	--	--	--	IR PALLET	--	ANY ±30 MIN.	--	--	ENVIRONMENTAL SENSORS MANDATORY
		DESIRED	X	--	--	X	--	--	X	PRT-5	120 FLT MI	SL-2 SIMULTANEOUS	25K	1	
		MANDATORY	X	--	--	--	--	--	--	IR PALLET	--	ANY ±30 MIN.	--	--	ENVIRONMENTAL SENSORS MANDATORY
		DESIRED	X	--	--	X	--	--	X	PRT-5	120 FLT MI	SL-4 SIMULTANEOUS	25K	1	
		MANDATORY	X	--	X	--	--	--	--	--	--	ANY ±30 MIN.	--	--	ENVIRONMENTAL SENSORS MANDATORY
		DESIRED	X	--	X	X	--	--	X	PRT-5	120 FLT MI	SL-2 SIMULTANEOUS	15K	1	
		MANDATORY	X	--	X	--	--	--	--	--	--	ANY ±30 MIN.	--	--	ENVIRONMENTAL SENSORS MANDATORY
		DESIRED	X	--	X	X	--	--	X	PRT-5	120 FLT MI	SL-4 SIMULTANEOUS	15K	1	
		MANDATORY	--	--	--	--	--	--	--	IR PALLET	--	ANY ±30 MIN.	--	--	--
		DESIRED	X	--	--	--	--	--	--	IR PALLET SIS	120 FLT MI	SL-2 SIMULTANEOUS	60K	1	
		MANDATORY	--	--	--	--	--	--	--	IR PALLET	--	ANY ±30 MIN.	--	--	--
		DESIRED	X	--	--	--	--	--	--	IR PALLET SIS	120 FLT MI	SL-4 SIMULTANEOUS	60K	1	
	ARIZONA TEST SITE 31°20'N, 111°00'W 31°45'N, 112°30'W 35°00'N, 109°00'W 35°00'N, 112°30'W (SEE 517206)	MANDATORY	X	--	--	--	--	--	--	IR PALLET	--	ANY ±30 MIN.	--	--	ENVIRONMENTAL SENSORS MANDATORY
		DESIRED	X	--	X	X	--	--	X	PRT-5	120 FLT MI	SL-2 SIMULTANEOUS	25K	1	
		MANDATORY	X	--	--	--	--	--	--	IR PALLET	--	ANY ±30 MIN.	--	--	ENVIRONMENTAL SENSORS MANDATORY
		DESIRED	X	--	X	X	--	--	X	PRT-5	120 FLT MI	SL-4 SIMULTANEOUS	25K	1	

FOLDOUT FRAME 1

FOLDOUT FRAM 2

Table B12-1. Aircraft Data (Continued)

SITE TASK-IDENT	TEST SITE COORDINATES		AIRCRAFT SENSOR REQUREMENTS								AIRCRAFT FLIGHT REQUIREMENTS				
			PHOTO		SCANNER										
			M/B	METRIC	MSS	IR	S-191	RADAR	M/W	OTHER	FLIGHT SCHEDULING CRITERIA	FLIGHT TIMING/ TOLERANCE	ALTITUDE (FT)	NO. OF A/C FLIGHTS	REMARKS
518--- (587)	EARTH'S LIMB (SEE 518999)	MANDATORY	--	--	--	--	--	--	--	AEROSOL SAMPLER	--	ANY ±1 DAY	--	--	--
		DESIRED	--	--	--	--	--	--	--	AEROSOL SAMPLER	400 FLT MI	SL-2 ±1 HOUR	60K	1	
		MANDATORY	--	--	--	--	--	--	--	AEROSOL SAMPLER	--	ANY ±1 DAY	--	--	--
		DESIRED	--	--	--	--	--	--	--	AEROSOL SAMPLER	400 FLT MI	SL-3 ±1 HOUR	60K	1	
		MANDATORY	--	--	--	--	--	--	--	AEROSOL SAMPLER	--	ANY ±1 DAY	--	--	--
		DESIRED	--	--	--	--	--	--	--	AEROSOL SAMPLER	400 FLT MI	SL-4 ±1 DAY	60K	1	
546--- (584)	HATS 29°05'-29°40'N, 92°25'-95°50'W (SEE 546409)	MANDATORY	--	--	--	--	X	--	--	--	10 FLT MI	ANY ±2 HOURS	MULT. LEVEL 500 - 5K	1	--
		DESIRED	--	--	--	--	X	--	--	--	10 FLT MI	ALL SIMULTANEOUS	MULT. LEVEL 500 - 5K	3	
		MANDATORY													
		DESIRED													
		MANDATORY													
		DESIRED													
	WHITE SANDS 33°00'- 33°20'N, 106°14'-106°20'W (SEE 546337)	MANDATORY	--	--	--	--	X	--	--	--	10 FLT MI	ANY ±2 HOURS	MULT. LEVEL 500 - 5K	1	--
		DESIRED	--	--	--	--	X	--	--	--	10 FLT MI	ALL SIMULTANEOUS	MULT. LEVEL 500 - 5K	3	
		MANDATORY													
		DESIRED													
		MANDATORY													
		DESIRED													
	PADRE ISLAND, TEXAS 26°20'N, 97°20'W (SEE 546307)	MANDATORY	--	--	--	--	X	--	--	--	10 FLT MI	ANY ±2 HOURS	MULT. LEVEL 500 - 5K	1	--
		DESIRED	--	--	--	--	X	--	--	--	10 FLT MI	ALL SIMULTANEOUS	MULT. LEVEL 500 - 5K	3	
		MANDATORY													
		DESIRED													
		MANDATORY													
		DESIRED													
547--- (439)	IMPERIAL VALLEY, CALIFORNIA 31°00'- 34°00'N, 113°00'-116°00'W (SEE 547119) OR SMOKE CREEK DESERT 40°00- 42°00'N, 118°00-120°00'W (SEE 547125) OR GREAT SALT LAKE 39°00'- 42°00'N, 112°00'-114°00'W (SEE 547220)	MANDATORY	--	--	X	--	--	--	--	--	150 FLT MI	ANY ±7 DAYS	MULT. LEVEL 5K, 10K, 15K	--	--
		DESIRED	X	X	X	--	--	--	--	PRT-5	150 FLT MI	ANY SIMULTANEOUS		1	
		MANDATORY													
		DESIRED													
		MANDATORY													
		DESIRED													

FOLDOUT FRAME 1

FOLDOUT FRAME 2

SITE TASK-IDENT	TEST SITE COORDINATES		AIRCRAFT SENSOR REQUIREMENTS								AIRCRAFT FLIGHT REQUIREMENTS				
			PHOTO		SCANNER			RADAR	M/W	OTHER	FLIGHT SCHEDULING CRITERIA	FLIGHT TIMING/ TOLERANCE	ALTITUDE (FT)	NO. OF A/C FLIGHTS	REMARKS
			M/B	METRIC	MSS	IR	S-191								
548--- (410)	MICH. STATE FARMS 42°10'-43°00'N, 83°30'-85°10'W (SEE 548511)	MANDATORY	--	--	X	--	--	--	--	--	75 FLT MI	SL-3 ±3 HOURS	2K AND 10K	1	EARLY DURING SL-3 COMBINE WITH EPN 456
		DESIRED	X	X	X	--	--	--	--	--	75 FLT MI	SL-3 SIMULTANEOUS	2K AND 10K	1	
		MANDATORY	--	--	X	--	--	--	--	--	75 FLT MI	ANY ±3 HOURS	2K AND 10K	1	DIFFERENT ATMOSPHERIC CONDITIONS REQUIRED.
		DESIRED	X	X	X	--	--	--	--	--	75 FLT MI	ANY SIMULTANEOUS	2K AND 10K	1	
602--- (517)	CHESAPEAKE BAY MOUTH 36°40'-38°20'N, 75°20'-77°20'W (SEE 602674)	MANDATORY	X	2	--	X	--	--	--	--	360 FLT MI	SL-2 *	60K	1	* EACH HIGH ALT. FLIGHT REQUIRES 3 PASSES; 1, 2 HOURS PRIOR, 1, UNDER +30 MIN., AND 1, 2 HOURS AFTER SL PASS. ** SUN ANGLE NOT GREATER THAN 80° (M).
		DESIRED	AMPS	2	--	X	--	--	--	--	360 FLT MI	SL-2 *	60K	1	
		MANDATORY	X	2	--	X	--	--	--	--	360 FLT MI	SL-3 *	60K	1	* EACH HIGH ALT. FLIGHT REQUIRES 3 PASSES; 1, 2 HOURS PRIOR, 1, UNDER +30 MIN., AND 1, 2 HOURS AFTER SL PASS. ** SUN ANGLE NOT GREATER THAN 80° (M).
		DESIRED	AMPS	2	--	X	--	--	--	--	360 FLT MI	SL-3 *	60K	1	
		MANDATORY	X	2	--	X	--	--	--	--	360 FLT MI	SL-4 *	60K	1	* EACH HIGH ALT. FLIGHT REQUIRES 3 PASSES; 1, 2 HOURS PRIOR, 1, UNDER +30 MIN., AND 1, 2 HOURS AFTER SL PASS. ** SUN ANGLE NOT GREATER THAN 80° (M).
		DESIRED	AMPS	2	--	X	--	--	--	--	360 FLT MI	SL-4 *	60K	1	
		MANDATORY													
		DESIRED													
603--- (477/447)	DELAWARE BAY/CAPE HENLOPEN 38°00'-40°00'N, 74°00'-75°45'W (SEE 603666)	MANDATORY	X	X	--	--	--	--	--	--	240 FLT MI	SPRING 1973 PREFLIGHT	60K	1	--
		DESIRED	X	X	--	X	--	--	--	PRT-5	240 FLT MI	SPRING 1973 PREFLIGHT	60K	1	
		MANDATORY	X	X	--	--	--	--	--	--	400 FLT MI	SPRING 1973 PREFLIGHT	10K	1	--
		DESIRED	X	X	--	X	--	--	--	PRT-5	400 FLT MI	SPRING 1973 PREFLIGHT	10K	1	
		MANDATORY	X	X	X	--	--	--	--	--	400 FLT MI	SL-2 ±14 DAYS	10K	1	* ANY ONE OF THE LOW ALTITUDES FLIGHTS ±2 HOURS.
		DESIRED	X	X	X	X	--	--	--	PRT-5	400 FLT MI	SL-2 ±2 HOURS *	10K	1	
		MANDATORY	X	X	X	--	--	--	--	--	400 FLT MI	SL-3 ±14 DAYS	10K	1	* ANY ONE OF THE LOW ALTITUDES FLIGHTS ±2 HOURS.
		DESIRED	X	X	X	X	--	--	--	PRT-5	400 FLT MI	SL-3 ±2 HOURS *	10K	1	
		MANDATORY	X	X	X	--	--	--	--	--	400 FLT MI	SL-4 ±14 DAYS	10K	1	* ANY ONE OF THE LOW ALTITUDES FLIGHTS ±2 HOURS.
		DESIRED	X	X	X	X	--	--	--	PRT-5	400 FLT MI	SL-4 ±2 HOURS *	10K	1	
617--- (409)	PUERTO RICO/VIRGIN ISLANDS PLATFORM 17°00'-19°00'N, 64°00'-68°00'W (SEE 617628)	MANDATORY	X	2	--	X	--	--	--	--	494 FLT MI	PREFLIGHT*	60K	1	* WITHIN 3 MONTHS OF SL OVERFLIGHT
		DESIRED	X	2	--	X	--	--	--	--	494 FLT MI	-- ANY	60K	1	
646--- (070)	LONG ISLAND SOUND, N.Y. TBD (SEE 646638 AND 646609)	MANDATORY	AMPS	2	--	--	--	--	--	--	200 FLT MI	SL-2 ±3 DAYS	50K	--	--
		DESIRED	AMPS	2	--	X	--	--	--	--	200 FLT MI	SL-2 SIMULTANEOUS	60K	1	
		MANDATORY	AMPS	2	--	--	--	--	--	--	200 FLT MI	SL-3 ±3 DAYS	50K	--	--
		DESIRED	AMPS	2	--	X	--	--	--	--	200 FLT MI	SL-3 SIMULTANEOUS	60K	1	
		MANDATORY	AMPS	2	--	--	--	--	--	--	200 FLT MI	SL-4 ±3 DAYS	50K	--	--
		DESIRED	AMPS	2	--	X	--	--	--	--	200 FLT MI	SL-4 SIMULTANEOUS	60K	1	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B12-1. Aircraft Data (Continued)

SITE TASK-IDENT	TEST SITE COORDINATES		AIRCRAFT SENSOR REQUREMENTS								AIRCRAFT FLIGHT REQUIREMENTS				
			PHOTO		SCANNER										
			M/B	METRIC	MSS	IR	S-191	RADAR	M/W	OTHER	FLIGHT SCHEDULING CRITERIA	FLIGHT TIMING/ TOLERANCE	ALTITUDE (FT)	NO. OF A/C FLIGHTS	REMARKS
661--- (485)	SOUTH CAROLINA 33°00'N, 79°30'W 33°00'N, 81°30'W 30°00'N, 82°30'W (SEE 661589)	MANDATORY	X	--	--	--	--	--	--	--	150 FLT MI	SL-3 *	60K	1	*IF ALLOTTED 2 FLTS, JUNE & SEP. IF ALLOTTED ONE FLT, LATE JUL - EARLY AUG.
		DESIRED	AMPS	--	--	--	--	--	--	--	150 FLT MI	SL-3 *	60K	1	
		MANDATORY	X	--	--	--	--	--	--	--	--	SL-3 *	60K	--	
		DESIRED	AMPS	--	--	--	--	--	--	--	150 FLT MI	SL-3 *	60K	1	*IF ALLOTTED 2 FLTS, JUN & SEP. IF ALLOTTED ONE FLT, LATE JUL - EARLY AUG.
662--- (9666)	ATCHAFALAYA 29°00'-30°00'N, 90°15'-92°00'W (SEE 662438)	MANDATORY	--	X	X	--	--	--	--	--	220 FLT MI	ANY ±14 DAYS	20K	1*	*EREP A/C RQMTS SHOULD COINCIDE WITH SRT OR ERTS
		DESIRED	--	X	X	--	--	--	--	--	220 FLT MI	ANY ±7 DAYS	20K	1*	
701--- (069)	HATS 28°00'-31°00'N, 94°00'-97°00'W (SEE 701401)	MANDATORY	AMPS	2	--	--	--	--	--	--	60 FLT MI	SL-2 ±4 DAYS	20K	1	DAY FLIGHT
		DESIRED	AMPS	2	--	--	--	--	--	--	60 FLT MI	SL-2 SIMULTANEOUS	20K	1	
		MANDATORY													
		DESIRED													
701--- (069)	PRESCOTT NATL FOREST 34°10'- 34°32'N, 112°25'-112°50'W (SEE 701224)	MANDATORY	AMPS	2	--	--	--	--	--	--	60 FLT MI	SL-2 ±4 DAYS	20K	1	DAY FLIGHT
		DESIRED	AMPS	2	--	--	--	--	--	--	60 FLT MI	SL-2 SIMULTANEOUS	20K	1	
		MANDATORY													
		DESIRED													
701--- (069)	KATHRINE PLAYA 32°15'- 32°25'N, 108°50'-109°00'W (SEE 701269)	MANDATORY	AMPS	2	--	--	--	--	--	--	60 FLT MI	SL-2 ±4 DAYS	20K	1	DAY FLIGHT
		DESIRED	AMPS	2	--	--	--	--	--	--	60 FLT MI	SL-2 SIMULTANEOUS	20K	1	
		MANDATORY													
		DESIRED													
703--- (456)	SO. MICHIGAN AGRICULTURE SITE 42°10'-43°00'N, 83°00'-85°10'W (SEE 703532)	MANDATORY	X	2	--	--	--	--	--	--	300 FLT MI	SL-3 ±7 DAYS	50K	--	--
		DESIRED	X	X	--	--	--	--	--	--	300 FLT MI	SL-3 SIMULTANEOUS	60K	1	
		MANDATORY	--	--	X	--	--	--	--	--	200 FLT MI	SL-3 ±3 HOURS	2K, 10K 1K, 4K	1	EARLY SL-3 COMBINE WITH EPN 410
		DESIRED	X	X	X	--	--	--	--	--	200 FLT MI	SL-3 SIMULTANEOUS	2K, 10K 1K, 4K	1	
716--- (549)	TARGETS OF OPPORTUNITY IN U.S. (SEE 716408)	MANDATORY	--	--	--	--	--	--	--	RAD/SCAT	200 FLT MI	ANY ±7 DAYS	10K	--	EPN 540 A-2 MAY PROVIDE RAD/SCAT DATA
		DESIRED	--	X	--	--	--	--	--	RAD/SCAT	200 FLT MI	ANY SIMULTANEOUS	10K	2	
718--- (413)	HATS 28°00'-31°00'N, 94°00'-97°00'W (SEE 718401)	MANDATORY	--	--	--	--	--	--	X	LASER	20 FLT MI	ANY ±7 DAYS	20K	--	AN ALTERNATE SITE MAY BE SELECTED IN REAL-TIME.
		DESIRED	--	X	--	--	--	--	X	LASER	20 FLT MI	ANY SIMULTANEOUS	20K	1	
731--- (560 M)	ALABAMA 3 TARGETS TO BE SELECTED DURING MISSION. (SEE 731553)	MANDATORY	--	--	X OR	X	--	--	--	--	40 FLT MI	ANY ±4 DAYS	15K	2*	*1 NIGHT FLIGHT AND 1 DAY FLIGHT
		DESIRED	X	X	X	X	--	--	--	--	40 FLT MI	SL-3 SIMULTANEOUS	15K	2*	
		MANDATORY	AMPS	X	--	--	--	--	--	--	100 FLT MI	ANY ±7 DAYS	50K	2	--
		DESIRED	AMPS	2	--	--	--	--	--	--	100 FLT MI	SL-2 AND SL-4 SIMULTANEOUS	60K	2	

Table B12-1. Aircraft Data (Continued)

SITE TASK-IDENT	TEST SITE COORDINATES		AIRCRAFT SENSOR REQUIREMENTS								AIRCRAFT FLIGHT REQUIREMENTS				
			PHOTO		SCANNER			RADAR	M/W	OTHER	FLIGHT SCHEDULING CRITERIA	FLIGHT TIMING TOLERANCE	ALTITUDE (FT)	NO. OF A/C FLIGHTS	REMARKS
			M/B	METRIC	MSS	IR	S-191								
746--- (S190)	HOUSTON, TEXAS (SEE 746415) OR ALTERNATE SITES	MANDATORY	*AMPS	X**	--	--	--	--	--	--	--	±15 MIN. OF SL OVERFLIGHT	50K	--	SENSORS; *AMPS WITH SAME CONFIGURATION OF FILM AND FILTER AS S190A. **24" FOCAL LENGTH METRIC CAMERA.
		DESIRED	*AMPS	X**	--	--	--	--	--	--	FLT MI	±2 MINUTES ±30 MINUTES ±60 MINUTES	50K 30K 15K	*	
		MANDATORY	*AMPS	X**	--	--	--	--	--	--	--	±15 MIN. OF SL OVERFLIGHT	≥50K	--	SENSORS; *AMPS WITH SAME CONFIGURATION OF FILM AND FILTERS AS S190A. **24" FOCAL LENGTH METRIC CAMERA.
		DESIRED	*AMPS	X**	--	--	--	--	--	--	FLT MI	±2 MINUTES ±30 MINUTES ±60 MINUTES	50K 30K 15K	*	
747--- (S191)	HATS, ROSENBERG (SEE 747420)	MANDATORY	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	HELICOPTER.
		DESIRED	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	
	HATS, SAN BERNARD (SEE 747481)	MANDATORY	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	HELICOPTER.
		DESIRED	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	
	HATS, SAM HOUSTON NATIONAL FOREST (SEE 747419)	MANDATORY	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	HELICOPTER.
		DESIRED	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	
	HATS, SABINE NATIONAL FOREST (SEE 747465)	MANDATORY	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	HELICOPTER.
		DESIRED	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	
	PADRE ISLAND, TEXAS 26°20'N, 97°00'W (SEE 747314)	MANDATORY	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	HELICOPTER.
		DESIRED	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	
	PADRE ISLAND, TEXAS 26°20'N, 97°10'W (SEE 747308)	MANDATORY	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	HELICOPTER.
		DESIRED	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	
	PADRE ISLAND, TEXAS 26°20'N, 97°30'W (SEE 747305)	MANDATORY	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	HELICOPTER.
		DESIRED	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	
	WHITE SANDS, N.M. 32°45'N, 106°17'W (SEE 747320)	MANDATORY	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	HELICOPTER.
		DESIRED	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	
	WHITE SANDS, N.M. 32°23'N, 106°11'W (SEE 747330)	MANDATORY	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	HELICOPTER.
		DESIRED	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	
	WHITE SANDS, N.M. 33°08'N, 106°17'W (SEE 747325)	MANDATORY	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	HELICOPTER.
		DESIRED	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	
	GREAT SALT LAKE, UTAH 41°00'- 44°00'N, 113°00'-114°00'W (SEE 747232)	MANDATORY	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	HELICOPTER.
		DESIRED	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	
	WILCOX PLAYA, ARIZ. 32°09'N, 109°51'W (SEE 747265)	MANDATORY	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	HELICOPTER.
		DESIRED	--	--	--	--	--	--	--	FIELD SPECTROMETER	--	±30 MIN. OF SL OVERFLIGHT	500	--	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B12-1. Aircraft Data (Continued)

SITE TASK-IDENT	TEST SITE COORDINATES		AIRCRAFT SENSOR REQUIREMENTS: PHOTO M/B	PHOTO METRIC	SCANNER MSS	SCANNER IR	SCANNER S-191	RADAR	M/W	OTHER	AIRCRAFT FLIGHT REQUIREMENTS: FLIGHT SCHEDULING CRITERIA	FLIGHT TIMING TOLERANCE	ALTITUDE (FT)	NO. OF A/C FLIGHTS	REMARKS
748--- (S192)	WHITE SANDS, N.M. 32°45'N, 106°17'W (SEE 748320)	MANDATORY	--	--	X	--	--	--	--	--	--	±30 MINUTES ±5 MINUTES	1.5K 10K 25K	--	--
		DESIRED	--	--	X	--	--	--	--	--	--	±30 MINUTES ±5 MINUTES		*	
	GREAT SALT LAKE, UTAH 41°00'- 44°00'N, 113°00'-114°00'W (SEE 748232)	MANDATORY	--	--	X	--	--	--	--	FIELD SPECTROMETER	--	±30 MINUTES	*	--	MSS AT 1.5K, AND 25K FS AT 500 FT.
		DESIRED	--	--	X	--	--	--	--	FIELD SPECTROMETER	--	±30 MINUTES	*	*	
	WILCOX PLAYA 32°09'N, 109°51'W (SEE 748265)	MANDATORY	--	--	X	--	--	--	--	FIELD SPECTROMETER	--	±30 MINUTES	*	--	MSS AT 1.5K, AND 25K FS AT 500 FT.
		DESIRED	--	--	X	--	--	--	--	FIELD SPECTROMETER	--	±30 MINUTES	*	*	
749--- (S193)	WHITE SANDS, N.M. 32°45'N, 106°17'W (SEE 749320)	MANDATORY	--	--	--	--	--	--	X*	LASER PROFILER	--	±1 DAY OF SL OVERFLIGHT	200 - 300 (LSR PRF) 3K (M/W)	--	*M/W SENSOR: 13.3 GHZ SCAT MFMR
		DESIRED	--	X	--	--	--	--	X*	LASER PROFILER	--	±1 DAY OF SL OVERFLIGHT		*	
	GREAT SALT LAKE, UTAH 41°00'N, 113°30'W (SEE 749233)	MANDATORY	--	--	--	--	--	--	X	LASER PROFILER	--	±1 DAY OF SL OVERFLIGHT	200 - 300 (LSR PRF) 3K (M/W)	--	*M/W SENSORS: 13.3 GHZ SCAT MFMR
		DESIRED	--	X	--	--	--	--	X*	LASER PROFILER	--	±1 DAY OF SL OVERFLIGHT		*	
	BAJA, CALIFORNIA (SEE 749183)	MANDATORY	--	--	--	--	--	--	X*	LASER PROFILER LTN 51	--	±1 HOUR OF SL OVERFLIGHT	200 - 300 (LSR PRF) 3K (M/W)	--	*M/W SENSORS: 13.3 GHZ SCAT MFMR
		DESIRED	--	X	--	--	--	--	X*		--	±1 HOUR OF SL OVERFLIGHT		*	
	NORTH ATLANTIC (SEE 749691)	MANDATORY	--	--	--	--	--	--	X*	LASER PROFILER LTN 51	--	±1 HOUR OF SL OVERFLIGHT	200 - 300 (LSR PRF & LTN 51) 3K (M/W)	--	*M/W SENSORS: 13.3 GHZ SCAT MFMR
		DESIRED	--	X	--	--	--	--	X*		--	±1 HOUR OF SL OVERFLIGHT		*	
	PUERTO RICO TRENCH (SEE 749636)	MANDATORY	--	--	--	--	--	--	--	LASER PROFILER LTN 51	--	--	--	--	--
		DESIRED	--	X	--	--	--	--	--		--	±1 HOUR OF SL OVERFLIGHT	200 - 300	*	
	GULF OF MEXICO (SEE 749598)	MANDATORY	--	--	--	--	--	--	X*	LASER PROFILER LTN 51	--	±1 HOUR OF SL OVERFLIGHT	200 - 300 (LSR PRF & LTN 51) 3K (M/W)	--	*M/W SENSORS: 13.3 GHZ SCAT MFMR
		DESIRED	--	X	--	--	--	--	X*		--	±1 HOUR OF SL OVERFLIGHT		*	
	LAKE MICHIGAN (SEE 749528)	MANDATORY	--	X	--	--	--	--	X*	--	--	±1 HOUR OF SL OVERFLIGHT	5K	--	*M/W SENSORS: 13.3 GHZ SCAT MFMR
		DESIRED	--	X	--	--	--	--	X*	--	--	±1 HOUR OF SL OVERFLIGHT	5K	*	
750--- (S194)	GULF OF MEXICO (SEE 750598)	MANDATORY	--	--	--	--	--	--	X*	--	--	±1 HOUR OF SL OVERFLIGHT	800 - 1K	1	*M/W SENSOR: MFMR
		DESIRED	--	--	--	--	--	--	X*	--	--	±1 HOUR OF SL OVERFLIGHT	800 - 1K	2	
	GREAT SALT LAKE, UTAH (SEE 750233)	MANDATORY	--	--	--	--	--	--	X*	--	--	±1 HOUR OF SL OVERFLIGHT	800 - 1K	1	*M/W SENSOR: MFMR
		DESIRED	--	--	--	--	--	--	X*	--	--	±1 HOUR OF SL OVERFLIGHT	800 - 1K	2	
801--- (520)	WASHINGTON, D.C./ BALTIMORE 38°30'-39°40'N, 76°00'-77°30'W (SEE 801676)	MANDATORY	X	3	--	--	--	--	--	--	490 FLT MI	ANY ±30 DAYS	60K	1	--
		DESIRED	X	3	--	--	--	--	--	--	490 FLT MI	SL-2 ±14 DAYS	60K	1	
802--- (397)	WABASH RIVER BASIN 38°08'-41°20'N, 85°00'-87°56'W (SEE 802508)	MANDATORY	X	2	--	--	--	--	--	--	255 FLT MI	SL-2 ±7 DAYS	60K	1	--
		DESIRED	X	2	--	--	--	--	--	--	255 FLT MI	SL-2 ±2 DAYS	60K	1	
		MANDATORY	X	2	--	--	--	--	--	--	200 FLT MI	SL-3 ±7 DAYS	60K	1	--
		DESIRED	X	2	--	--	--	--	--	--	200 FLT MI	SL-3 ±2 DAYS	60K	1	
		MANDATORY	X	2	--	--	--	--	--	--	200 FLT MI	SL-4 ±7 DAYS	60K	1	--
		DESIRED	X	2	--	--	--	--	--	--	200 FLT MI	SL-4 ±2 DAYS	60K	1	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

SITE TASK-IDENT	TEST SITE COORDINATES		AIRCRAFT SENSOR REQUREMENTS								AIRCRAFT FLIGHT REQUIREMENTS				
			PHOTO		SCANNER										
			M/B	METRIC	MSS	IR	S-191	RADAR	M/W	OTHER	FLIGHT SCHEDULING CRITERIA	FLIGHT TIMING TOLERANCE	ALTITUDE (FT)	NO. OF A/C FLIGHTS	REMARKS
802--- (397) cont.	WABASH RIVER BASIN 38°08'-41°20'N, 85°00'-87°56'W (SEE 802508)	MANDATORY	--	X	X	--	--	--	--	--	8 FLT MI	SL-2 ±7 DAYS	10K AND 25K	1	--
		DESIRED	--	2	X	--	--	--	--	--	8 FLT MI	SL-2 ±2 DAYS	10K AND 25K	1	
		MANDATORY	--	X	X	--	--	--	--	--	40 FLT MI	SL-3 ±7 DAYS	10K AND 25K	1	--
		DESIRED	--	2	X	--	--	--	--	--	40 FLT MI	SL-3 ±2 DAYS	10K AND 25K	1	
		MANDATORY	--	X	X	--	--	--	--	--	75 FLT MI	SL-4 ±7 DAYS	10K AND 25K	1	--
		DESIRED	--	2	X	--	--	--	--	--	75 FLT MI	SL-4 ±2 DAYS	10K AND 25K	1	
803--- (581)	SABINE, TEXAS 30°00'-31°30'N, 93°30'-94°00'W (SEE 803465)	MANDATORY	--	X	X	--	--	--	--	--	20 FLT MI	SL-2 ±7 DAYS	10K	1	*IR SCAN IF MSS NOT AVAILABLE.
		DESIRED	X	X	X	X*	--	--	--	--	20 FLT MI	SL-2 ±2 DAYS	10K	1	
		MANDATORY	--	X	X	--	--	--	--	--	20 FLT MI	SL-3 ±7 DAYS	10K	1	*IR SCAN IF MSS NOT AVAILABLE.
		DESIRED	X	X	X	X*	--	--	--	--	20 FLT MI	SL-3 ±2 DAYS	10K	1	
		MANDATORY	--	X	X	--	--	--	--	--	20 FLT MI	SL-4 ±7 DAYS	10K	1	*IR SCAN IF MSS NOT AVAILABLE.
		DESIRED	X	X	X	X*	--	--	--	--	20 FLT MI	SL-4 ±2 DAYS	10K	1	
		MANDATORY	X	X	--	--	--	--	--	--	20 FLT MI	ANY ±7 DAYS	60K	1	IF DATA OBTAINED UNDER TEXAS DEMONSTRATION PROGRAM, DELETE THIS A/C FLIGHT.
		DESIRED	X	X	--	--	--	--	--	--	20 FLT MI	ANY ±2 DAYS	60K	1	
		MANDATORY													
		DESIRED													
		MANDATORY													
		DESIRED													
	ROSENBERG, TEXAS 29°30'-29°35'N, 95°48'-96°04'W (SEE 803420)	MANDATORY	--	X	X	--	--	--	--	--	57 FLT MI	SL-2 ±7 DAYS	10K	1	*IR SCAN IF MSS NOT AVAILABLE.
		DESIRED	X	X	X	X*	--	--	--	--	57 FLT MI	SL-2 ±2 DAYS	10K	1	
	SNOOK, TEXAS 30°22'-30°26'N, 96°22'-96°30'W AND/OR	MANDATORY	--	X	X	--	--	--	--	--	57 FLT MI	SL-3 ±7 DAYS	10K	1	*IR SCAN IF MSS NOT AVAILABLE.
		DESIRED	X	X	X	X*	--	--	--	--	57 FLT MI	SL-3 ±2 DAYS	10K	1	
	SAN BERNARD, TEXAS 28°49'-29°58'N, 95°28'-95°39'W (SEE 803425)	MANDATORY	--	X	X	--	--	--	--	--	57 FLT MI	SL-4 ±7 DAYS	10K	1	*IR SCAN IF MSS NOT AVAILABLE.
		DESIRED	X	X	X	X*	--	--	--	--	57 FLT MI	SL-4 ±2 DAYS	10K	1	
	EAGLE LAKE, TEXAS (AGRICULTURE) 29°32'N, 96°14'W (SEE 803415) AND EAGLE LAKE, TEXAS (LAKE) 29°34'N, 96°23'W	MANDATORY	--	X	X	--	--	--	--	--	50 FLT MI	SL-2 ±7 DAYS	10K	1	+2 HOURS MANDATORY FOR EAGLE LAKE (LAKE); SIMULTANEOUS DESIRED.
		DESIRED	X	X	X	--	--	--	--		50 FLT MI	SL-2 ±2 DAYS	10K	1	
		MANDATORY	--	X	X	--	--	--	--	--	50 FLT MI	SL-3 ±7 DAYS	10K	1	+2 HOURS MANDATORY FOR EAGLE LAKE (LAKE); SIMULATANEOUS DESIRED.
		DESIRED	X	X	X	--	--	--	--		50 FLT MI	SL-3 ±2 DAYS	10K	1	
		MANDATORY	--	X	X	--	--	--	--	--	50 FLT MI	SL-4 ±7 DAYS	10K	1	+2 HOURS MANDATORY FOR EAGLE LAKE (LAKE); SIMULTANEOUS DESIRED.
		DESIRED	X	X	X	--	--	--	--		50 FLT MI	SL-4 ±2 DAYS	10K	1	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B12-1. Aircraft Data (Continued)

SITE TASK-IDENT	TEST SITE COORDINATES		AIRCRAFT SENSOR REQUREMENTS								AIRCRAFT FLIGHT REQUIREMENTS				
			PHOTO		SCANNER			RADAR	M/W	OTHER	FLIGHT SCHEDULING CRITERIA	FLIGHT TIMING TOLERANCE	ALTITUDE (FT)	NO. OF A/C FLIGHTS	REMARKS
			M/B	METRIC	MSS	IR	S-191								
803 (581)	EAST HOUSTON, URBAN (SEE 803435)	MANDATORY	--	X	X	--	--	--	--	--	20 FLT MI	SL-2 ±7 DAYS	10K	1	--
		DESIRED	X	X	X	--	--	--	--	--	20 FLT MI	SL-2 ±2 DAYS	10K	1	
		MANDATORY	--	X	X	--	--	--	--	--	20 FLT MI	SL-3 ±7 DAYS	10K	1	--
		DESIRED	X	X	X	--	--	--	--	--	20 FLT MI	SL-3 ±2 DAYS	10K	1	
		MANDATORY	--	X	X	--	--	--	--	--	20 FLT MI	SL-4 ±7 DAYS	10K	1	--
		DESIRED	X	X	X	--	--	--	--	--	20 FLT MI	SL-4 ±2 DAYS	10K	1	
	HATS, COASTAL WESTLANDS 29°33'N, 93°34'W 27°40'N, 96°32'W 30°10'N, 94°10'W 26°10'N, 97°10'W (SEE 803453)	MANDATORY	--	X	X	--	--	--	--	--	40 FLT MI	SL-2 ±7 DAYS	10K	1	--
		DESIRED	X	X	X	--	--	--	--	--	40 FLT MI	SL-2 ±2 DAYS	10K	1	
		MANDATORY	--	X	X	--	--	--	--	--	40 FLT MI	SL-3 ±7 DAYS	10K	1	--
		DESIRED	X	X	X	--	--	--	--	--	40 FLT MI	SL-3 ±2 DAYS	10K	1	
		MANDATORY	--	X	X	--	--	--	--	--	40 FLT MI	SL-4 ±7 DAYS	10K	1	--
		DESIRED	X	X	X	--	--	--	--	--	40 FLT MI	SL-4 ±2 DAYS	10K	1	
	ANAHUAC, TEXAS 29°46'N, 94°38'W (SEE 803450)	MANDATORY	--	X	X	--	--	--	--	--	5 FLT MI	SL-2 ±7 DAYS	10K	1	--
		DESIRED	X	X	X	--	--	--	--	--	5 FLT MI	SL-2 ±2 DAYS	10K	1	
		MANDATORY	--	X	X	--	--	--	--	--	5 FLT MI	SL-3 ±7 DAYS	10K	1	--
		DESIRED	X	X	X	--	--	--	--	--	5 FLT MI	SL-3 ±2 DAYS	10K	1	
		MANDATORY	--	X	X	--	--	--	--	--	5 FLT MI	SL-4 ±7 DAYS	10K	1	--
		DESIRED	X	X	X	--	--	--	--	--	5 FLT MI	SL-4 ±2 DAYS	10K	1	
	LAKE SOMERVILLE, TEXAS 30°17'-30°20'N, 96°32'-96°38'W (SEE 803410)	MANDATORY	X	X	--	--	--	--	--	--	50 FLT MI	SL-2 ±2 HOURS	60K	1	--
		DESIRED	X	X	--	--	--	--	--	--	50 FLT MI	SL-2 SIMULTANEOUS	60K	1	
		MANDATORY	--	X	X	--	--	--	--	--	50 FLT MI	SL-2 ±2 HOURS	10K	1	--
		DESIRED	X	X	X	--	--	--	--	--	50 FLT MI	SL-2 SIMULTANEOUS	10K	1	
		MANDATORY	--	X	X	--	--	--	--	--	50 FLT MI	SL-3 ±2 HOURS	10K	1	--
		DESIRED	X	X	X	--	--	--	--	--	50 FLT MI	SL-3 SIMULTANEOUS	10K	1	
		MANDATORY	--	X	X	--	--	--	--	--	50 FLT MI	SL-4 ±2 HOURS	10K	1	--
		DESIRED	X	X	X	--	--	--	--	--	50 FLT MI	SL-4 SIMULTANEOUS	10K	1	
	LAKE HOUSTON, TEXAS 29°55'-30°03'N, 95°06'-95°10'W	MANDATORY	--	X	X	--	--	--	--	--	50 FLT MI	SL-2 ±2 HOURS	10K	1	--
		DESIRED	X	X	X	--	--	--	--	--	50 FLT MI	SL-2 SIMULTANEOUS	10K	1	
		MANDATORY	--	X	X	--	--	--	--	--	50 FLT MI	SL-3 ±2 HOURS	10K	1	--
		DESIRED	X	X	X	--	--	--	--	--	50 FLT MI	SL-3 SIMULTANEOUS	10K	1	
		MANDATORY	--	X	X	--	--	--	--	--	50 FLT MI	SL-4 ±2 HOURS	10K	1	--
		DESIRED	X	X	X	--	--	--	--	--	50 FLT MI	SL-4 SIMULTANEOUS	10K	1	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

SITE TASK-IDENT	TEST SITE COORDINATES		AIRCRAFT SENSOR REQUREMENTS: PHOTO M/B	PHOTO METRIC	SCANNER MSS	SCANNER IR	SCANNER S-191	RADAR	M/W	OTHER	AIRCRAFT FLIGHT REQUIREMENTS: FLIGHT SCHEDULING CRITERIA	FLIGHT TIMING TOLERANCE	ALTITUDE (FT)	NO. OF A/C FLIGHTS	REMARKS
803--- (581)	TARGETS OF OPPORT: HILL COUNTY, MONT. 48°40'- 48°45'N, 109°46'-110°43'W (SEE 803263)	MANDATORY	--	X	--	--	--	--	--	--	44 FLT MI	SL-2 OR SL-3 ±14 DAYS	60K	1*	*DURING GROWING SEASON (M) PHOTO DATA DURING SEASON (D) UNDER SL PASS.
		DESIRED	X	X	--	--	--	--	--	--	44 FLT MI	SL-3 ±2 DAYS	60K	1*	
	HOLT CO., NEBR. 42°32'-42°43'N, 98°52'-99°00'W (SEE 803378)	MANDATORY	--	X	--	--	--	--	--	--	52 FLT MI	SL-2 OR SL-3 ±14 DAYS	60K	1	*DURING GROWING SEASON (M) PHOTO DATA DURING SEASON (D) UNDER SL PASS.
		DESIRED	X	X	--	--	--	--	--	--	52 FLT MI	SL-3 ±2 DAYS	60K	1*	
	HARDIN CO., IOWA 42°22'-42°27'N, 93°08'-93°22'W (SEE 803486)	MANDATORY	--	X	--	--	--	--	--	--	44 FLT MI	SL-2 OR SL-3 ±14 DAYS	60K	1	*DURING GROWING SEASON (M) PHOTO DATA DURING SEASON (D) UNDER SL PASS.
		DESIRED	X	X	--	--	--	--	--	--	44 FLT MI	SL-3 ±2 DAYS	60K	1*	
	WORTH CO., GA. 31°33'-31°38'N, 83°45'-83°51'W (SEE 803560)	MANDATORY	--	X	--	--	--	--	--	--	42 FLT MI	SL-2 OR SL-3 ±14 DAYS	60K	1*	*DURING GROWING SEASON (M) PHOTO DATA DURING SEASON (D) UNDER SL PASS.
		DESIRED	X	X	--	--	--	--	--	--	42 FLT MI	SL-3 ±2 DAYS	60K	1*	
	IMPERIAL CO., CALIF. 32°43'- 33°04'N, 115°18'-115°30'W (SEE 803178)	MANDATORY	--	X	--	--	--	--	--	--	88 FLT MI	SL-2 OR SL-3 ±14 DAYS	60K	1*	*DURING GROWING SEASON (M) PHOTO DATA DURING SEASON (D) UNDER SL PASS.
		DESIRED	X	X	--	--	--	--	--	--	88 FLT MI	SL-3 ±2 DAYS	60K	1*	
	SAN JUAN MOUNTAINS, COLORADO 37°15'- 38°07'N, 106°45'-107°52'W (SEE 804293)	MANDATORY	4	X	--	--	--	--	--	--	300 FLT MI	SPRING 73 PREFLIGHT	60K	1	USE ERTS DATA IF AVAILABLE AND SATISFACTORY TO PI.
		DESIRED	4	2	--	--	--	--	--	--	300 FLT MI	SPRING 73 PREFLIGHT	60K	1	
804--- (398)	SAN JUAN MTNS, COLO 37°15'- 38°07'N, 106°45'-107°52'W (SEE 804293)	MANDATORY	--	--	X	--	--	--	--	--	90 FLT MI	SL-2 ±1 MONTH	25K	1	
		DESIRED	4	2	X	--	--	--	--	--	90 FLT MI	SL-2 ±7 DAYS	25K	1	
		MANDATORY	--	--	X	--	--	--	--	--	--	SL-3 ±1 MONTH	25K	--	
		DESIRED	4	2	X	--	--	--	--	--	90 FLT MI	SL-3 ±7 DAYS	25K	1	
		MANDATORY	--	--	X	--	--	--	--	--	--	SL-3 ±1 MONTH	25K	--	
		DESIRED	4	2	X	--	--	--	--	--	90 FLT MI	SL-4 ±7 DAYS	25K	1	
819--- (443)	OAKLAND CO., MICH. 42°20'-43°00'N, 83°00'-83°50'W (SEE 819522)	MANDATORY	--	3	--	--	--	--	--	--	--	ANY ±90 DAYS	60K	--	IF ERTS A/C DATA COVERAGE SATISFIES PI, DO NOT FLY A/C.
		DESIRED	--	3	--	--	--	--	--	--	100 FLT MI	SL-2 ±30 DAYS	60K	1	
820--- (435)	STATE OF MAINE-SITE1 44°53'N, 69°11'W 45°06'N, 68°55'W 44°33'N, 68°43'W 44°46'N, 68°26'W (SEE 820666) SITE 2 44°09'N, 69°45'W 43°38'N, 70°53'W 43°22'N, 70°41'W 43°53'N, 69°30'W (SEE 820664)	MANDATORY	--	--	--	--	--	--	--	--	--	SL-2 ±30 DAYS	60K	--	
		DESIRED	4	X	--	X	--	--	--	--	325 FLT MI	SL-2 ±7 DAYS	60K	1	
		MANDATORY	--	--	--	--	--	--	--	--	--	SL-3 ±30 DAYS	60K	--	
		DESIRED	4	X	--	X	--	--	--	--	325 FLT MI	SL-3 ±7 DAYS	60K	1	
832--- (018)	NORTH CAROLINA - 3 SMALL SITES CENTERED AT: A. 36°04'N, 76°42'W (SEE 832610) B. 34°10'N, 77°55'W (SEE 832601) C. 36°05'N, 80°15'W (SEE 832501) D. 35°57'N, 76°55'W E. 35°40'N, 80°30'W F. 34°55'N, 77°25'W G. 34°36'N, 79°00'W	MANDATORY	--	--	--	--	--	--	--	--	--	SL-2 ±1 MONTH	10K	--	SELECT 3 HIGHEST PRIORITY SITES THAT ARE COVERED BY GROUND TRACK. SITES A, B, C (PRIORITY 1); SITES D, E (PRIORITY 2); SITES F, G (PRIORITY 3).
		DESIRED	X	3	--	X	--	--	--	--	225 FLT MI	SL-2 ±2 HOURS	10K	1	
		MANDATORY	--	--	--	--	--	--	--	--	--	SL-3 ±1 MONTH	10K	--	
		DESIRED	X	3	--	X	--	--	--	--	225 FLT MI	SL-3 ±2 HOURS	10K	1	
837--- (401)	MARYLAND 37°53'N, 76°14'W 39°15'N, 79°00'W 39°43'N, 79°00'W 39°43'N, 75°47'W 38°27'N, 75°03'W 38°01'N, 75°14'W (SEE 837627)	MANDATORY	X	X	--	X	--	--	--	--	130 FLT MI	ANY ±30 DAYS	60K	1	
		DESIRED	X	X	--	X	--	--	--	--	130 FLT MI	SL-2 OR SL-3 ±30 DAYS	60K	1	

FOLDOUT FRAME 1

FOLDOUT FRAME 2

Table B12-1. Aircraft Data (Continued)

SITE TASK-IDENT	TEST SITE COORDINATES		AIRCRAFT SENSOR REQUIREMENTS								AIRCRAFT FLIGHT REQUIREMENTS				
			PHOTO		SCANNER										
			M/B	METRIC	MSS	IR	S-191	RADAR	M/W	OTHER	FLIGHT SCHEDULING CRITERIA	FLIGHT TIMING TOLERANCE	ALTITUDE (FT)	NO. OF A/C FLIGHTS	REMARKS
839--- (433)	LAKE ERIE/ CLEVELAND, OHIO 41°00'-41°40'N, 81°00'-81°55'W (SEE 839517)	MANDATORY	X	X	--	--	--	--	--	--	200 FLT MI	ANY ±14 DAYS	10K	1	--
		DESIRED	X	X	X	--	--	--	--	--	200 FLT MI	SL-3 ±5 DAYS	10K	1	
		MANDATORY	X	X	--	--	--	--	--	--	--	ANY ±14 DAYS	10K	--	--
		DESIRED	X	X	--	--	--	--	--	--	200 FLT MI	SL-2 ±5 DAYS	10K	1	
	E. LIBERTY/ COLUMBUS, OHIO 40°10'N, 83°50'W 40°30'N, 83°35'W 39°48'N, 81°24'W 38°48'N, 82°10'W (SEE 839513)	MANDATORY	X	X	--	--	--	--	--	--	400 FLT MI	ANY ±14 DAYS	10K	1	--
		DESIRED	X	X	--	--	--	--	--	--	400 FLT MI	SL-3 ±5 DAYS	10K	1	
		MANDATORY	X	X	--	--	--	--	--	--	--	ANY ±14 DAYS	10K	--	--
		DESIRED	X	X	--	--	--	--	--	--	400 FLT MI	SL-2 ±5 DAYS	10K	1	
853--- (454-6)	SOUTHERN CALIF. 32°30'N, 115°00'W 32°30'N, 117°15'W 34°20'N, 119°30'W 35°00'N, 119°30'W 35°00'N, 116°00'W (SEE 853116)	MANDATORY	6	3	--	--	--	--	--	--	1000 FLT MI	ANY ±30 DAYS	60K	1	--
		DESIRED	6	3	--	X	--	--	--	--	1000 FLT MI	SL-2 OR SL-3 ±7 DAYS	60K	1	
866--- (486)	WOODWORTH, N. DAK. 47°07'N- 47°53'N, 98°22'-100°00'W (SEE 866323)	MANDATORY	2	--	X	--	--	--	--	--	306 FLT MI	SL-2 *	20K, 6K	1	*NO RAIN BETWEEN S/C & A/C DATA TAKE.
		DESIRED	2	--	X	--	--	--	--	--	306 FLT MI	SL-2 ±3 DAYS	20K, 6K	1	
		MANDATORY	2	--	X	--	--	--	--	--	306 FLT MI	SL-3 *	20K, 6K	1	*NO RAIN BETWEEN S/C & A/C DATA TAKE.
		DESIRED	2	--	X	--	--	--	--	--	306 FLT MI	SL-3 ±3 DAYS	20K, 6K	1	
881--- (454-9)	CALIFORNIA DESERT 32°30'N, 116°00'W 32°45'N, 114°00'W 34°30'N, 114°00'W 35°00'N, 119°00'W 38°00'N, 119°00'W (SEE 881117)	MANDATORY	--	X	--	--	--	--	--	--	1000 FLT MI	ANY ±30 DAYS	60K	1	--
		DESIRED	--	X	--	--	--	--	--	--	1000 FLT MI	SL-2 ±7 DAYS	60K	1	