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TECHNICAL REPORT STANDARD TITLE PAGE

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Figure 2. Technical Report Standard Title Page

FRACTURE TRENDS IDENTIFIED N73-31336 BY ERTS-1 IMAGERY IN UTAH AND NEVADA 102 p HC \$7.25 CSCL 08E Unclas G3/13 01032

MINERAL EXPLORATION AND FRACTURE TRENDS IN UTAH AND NEVADA, BY ERTS-1 IMAGERY

M. L. Jensen, GSFC ID No. 113, M. R. Smith and M. P. Erickson University of Utah, Salt Lake City, Utah 84112

Objectives of the Contract

The major endeavor of this ERTS-1 Contract is the application of the imagery to mineral exploration. This is being done by locating fracture trends on the imagery that are associated with mineralization. Those trends that extend into alluvial or post-ore cover are tested along the extrapolated trend with a soilgas collector that measures the amount of mercury contained within the soil-gas. Mercury at the surface appears to be an indicator of mineralization at depth.

2.1 Work Performed

The work performed wince the last report consists of the following:

- Continued plotting of structural trends within the area of designated study by Martha R. Smith on her Ph.D. thesis.
- Plotting of structural trends in Southern California for comparison with those of the Utah-Nevada area and to include the active San Andreas Fault system.
- 3. Analysis of the revealed structural patterns.
- Field checking of selected features revealed on the imagery to ascertain their exact nature.
- 5. The collection and analysis of mercury soil-gas samples collected from areas selected from the imagery as having favorable combinations of geological features.
- Comparison of ERTS-1 imagery with EREP (Skylab 2) imagery to observe differences in the images and to determine the best application of each type of imagery.

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 Examination of all new ERTS imagery and preparation of descriptors.

2.1.2 Significant Results

Structural trends plotted consist of numerous linear features. Many of these relate to geologic features such as range-front faults, strike-slip fault zones, cross faults which offset sedimentary strata, dikes occupying fractures on fault planes, strike trends of folded sedimentary strata, or prominent joint systems, all of which are easily recognized on regular aerial photographs and are usually noted on geologic maps. In addition, numerous ERTS imagery linear trends are features not previously observed and which are not present or are not conspicuous on other types of imagery. For many instances, the fundamental nature of these lineations is not apparent though the lineations may be persistant and conspicuous on the imagery. The pattern of the plotted lineations suggests that they are fractures and offsets at intersections indicates movement on many of them. When plotted, they do not show a uniform distribution but appear to be concentrated within elongate belts which are normally arcuate. Within the belts, the linear features are normally short segments with various arrangements. They are usually discontinuous and arranged in alignment in en eschalon patterns, or with small offsets. Because of the arcuate nature of the trends, there is no preferred direction of the trends for the entire area under investigation. Small areas normally have two or three dominant trend directions.

Many of the linear features plotted conform to, or relate to, structures previously mapped or structures in evidence in aerial photographs and this conformance gives confidence in the reality of the features.

Some of the linear features plotted are more cryptic and do not appear to conform closely to, or to relate closely to, previously mapped geology. Such features with a general east-west trend are revealed in the ERTS-1 imagery of the Great Basin area of Utah and Nevada and many of them extend from range to range across the intervening valleys.

While these E-W trends are present in virtually all parts of the region they are somewhat concentrated in a belt across northern Nevada and Utah and in a broad region in the vicinity of Lake Mead in Southern Nevada. In these two regions, the bedrock is predominantly pre-Tertiary

in contrast to the Tertiary volcanic terrain of the intervening area in which the east-west trends are less conspicuous. These E-W trends generally do not correspond to previously mapped features and their exact nature has not yet been determined. Their scarcity in Tertiary volcanic terrains suggests that they are older than most of the other plotted trends.

Comparison of ERTS-1 and Skylab imagery was possible for parts of Utah and Nevada during this reporting period. Preliminary observations indicate that the ERTS imagery is superior in registering linear trends and especially those cryptic trends previously unknown and unmapped. Skylab imagery proved superior in the differentiation of rock types. In one instance, inliers of Paleozoic sedimentary rocks, not shown on existing geologic maps, were discovered in an area of volcanic ignimbrites on Skylab imagery. This discovery could be of economic significance because a magnetic high over the area was previously ascribed to a thick section of volcanics and since the presence of the inliers indicates the volcanics to be thin, the magnetic anomaly may be due to a buried intrusive similar to others in the area which are associated with ore deposits. ERTS imagery also shows the inliers but they are much less conspicuous and were distinguished on the imagery only after their presence was known.

2.1.3 Efforts to Achieve Reliability

Reliability in plotting features recorded on ERTS-1 imagery was enhanced by independent plotting by different observers and a comparison of the results. Field investigation of many recorded features was undertaken to establish reliability.

2.1.4 Publications

No publication of data or results took place during the past period.

2.1.5 Conformance to Work Schedule

The work is proceeding about on schedule.

2.1.6 Work Progress

The progress of work is deemed satisfactory during the past period.

2.2 Work Planned for the Next Reporting Period

For the next reporting period, continued plotting of structural trends is planned. Selected trends will be studies in the field and mercury soil-gas sampling and analyzing will continue as in the present reporting period. The results will be tabulated and interpreted to see if a meaningful pattern is emerging from the accumulated data.

Investigations in the plateau area will continue aided by interpretations made from false color transparencies.

2.2.2 Recommendations for Changes in Operations

No basic changes in operation are contemplated at the present time.

3.1 Problems

No special problems have developed relative to the imagery.

3.2 Adequacy of Funds

The project funding is adequate.

3.3 Changes in Standing Order Forms

No changes are required.

3.4 Changes in Personnel

Professor M. P. Erickson has joined the group working on the project during the summer and autumn period. He is working mainly on visual interpretation of the imagery and geologic field checking.

3.5 Data Request Forms

Abundant B & W requests have been made and are being received.

3.6 Image Descriptors

Standard Image Descriptor forms are supplied herewith for all imagery received since the last Type 1 Progress Report.

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PRODUCT ID FREQUENTLY USED DESCRIPTORS* (INCLUDE BAND AND PRODUCT) 1106 - 17483 - M	DESCRIPTORS O Cloud Fault-block Ranges
(INCLUDE BAND AND PRODUCT)	0 Cloud
1106 - 17483 - M	
	Playas Salt Flats Evaporation ponds Bajadas

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UNRGANIZATION			tah		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DES	CRIPTORS*	DESCRIPTORS	
1139 - 17324 - M				40% Cloud Plateau structure Dendritic drainage	
· .	-				
				· · ·	
FOR DESCRIPTORS WHICH WILL COLUMN HEADING SPACES NOV	N AND USE	A CHECK (🗸) MARK	HE DESCRIPTOR TERMS IN THE IN THE APPROPRIATE PRODU IR THE DESCRIPTORS COLUMN	JUT

GSFC 37-2 (7/72)

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SFC	UN 173			· · · · · · · · · · · · · · · · · · ·	
RGANIZATION	Universi	ty of Ut	ah	· · · · · · · · · · · · · · · · · · ·	
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DES	CRIPTORS*	DESCRIPTORS	
1139 - 17322 - M				20% Cloud Plateau structures Monoclines	
· ,			-	Dendritic tributaries Incised meanders	
	-	-			
ACLUBANT LIEADING COACES ME	CNAL AND LISE	E A CHECK (🗸) MARK	HE DESCRIPTOR TERMS IN THE IN THE APPROPRIATE PRODUC R THE DESCRIPTORS COLUMN)	- 1

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RGANIZATION	lniversi	ty of Utah		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	Y USED DESCRIPTO	DESCRIPTORS	
1304 - 17481 - M			5% Cloud Great Salt Lake Bear River	
• .			Snake River Railroad and Causeway	
			Cities Cultivated Fields Lava Fields	
			Basin and Range Lake terraces	
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	· ·		E THE DESCRIPTOR TERMS IN THE	

GSFC 37-2 (7/72)

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NASA GSFC GREENBELT, MD. 20771

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(See Instructions on Eack)

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PRINCIPAL INVESTIGATOR	UN 173)
	Universi	ty of Utah			
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESCRIP	PTCRS*	DESCRIPTORS	·
1106 - 17481 - M				0 Cloud Lake Fault-block Mts.	
			•	Fault-block MLS. Cultivated fields railroad causeway Salt Evaporation	1
				Playas Lake Terraces	
*FOR DESCRIPTORS WHICH WI COLUMN HEADING SPACES N ID LINES. (FOR OTHER DESC	OW AND LISE	A CHECK (🗸)	MARK	IN THE APPROPRIATE	PRODUCE
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PRODUCT ID INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESC	RIPTORS*	DESCRIPTORS
1144 - 18001 - м				0 Cloud Basin and Range structure Range front faults
				Playas Bajadas Contrail Cultivated Fields
•				
	-			
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OLUMAN READING SPACES NO	N AND USE	A CHECK (~	/) MAKK I	E DESCRIPTOR TERMS IN THESE IN THE APPROPRIATE PRODUCT THE DESCRIPTORS COLUMN).

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GANIZATION	Jniversi	ty of Ut	ah		•
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DES	CRIPTORS*	DESCRIP	TORS
1197 - 17551 - M				3% Cloud Fault-block H	langes
				Bajadas Playas	
FOR DESCRIPTORS WHICH WIN COLUMN HEADING SPACES NO ID LINES. (FOR OTHER DESC	W AND USE	A CHECK (🗸) MARK	IN THE APPROPR	ALE PRODUCT

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GSFC 37-2 (7/72)

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PRODUCT ID (INCLUDE BAND AND PRODUCT) FREQUENTLY USED DESCRIPTORS* DESCRIPTORS 1249 - 17,432 - M 80% Cloud	
(INCLUDE BAND AND PRODUCT) DESCRIPTORS 1249 - 17,432 - M 80% Cloud	
Snow Lake	

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(See Instructions on Eack)

PRINCIPAL INVESTIGATOR		nsen		·	ID
GSFC	JN 113				
DRGANIZATION	Iniversi	ty of Uta	ah		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESC	RIPTORS*	DESCRIP	rors
1246 - 17265 - M				0 Cloud Snow Horizontal Se	d. Strata
•				Monoclinal Fo Entrenched Me Volcanic Neck Vertical Igne	anders
				Roads	
					•
					•
*FOR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NO ID LINES. (FOR OTHER DESC	W AND USE	A CHECK (~	/) MARK	IN THE APPROPRI	ATE PRODUC
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ERTS IMAGE DESCRIPTOR FORM (See Instructions on Back)

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(INCLUDE	PRODUCT ID BAND AND PRODUC		TLY USED DE	SCRIPTORS*	DESCRIPTO	RS	
1249	- 17425 - M				75% Cloud Snow Lake	•••	
						* :	
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COLUMN	HEADING SPACES	NOW AND USE	A CHECK	(🗸) Miark	HE DESCRIPTOR TER IN THE APPROPRIATER THE DESCRIPTORS	TE PRODUCT	

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	ERSOUSNIL	Y USED DES	CRIPTORS*		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FALGOLINI			DESCRIPTORS	
					}
				19 01 and	
1246 - 17260 - M				1% Cloud	
			,	Snow	
				Horizontal Sed. Strata	
				Entrenched Meanders	
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•FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK () MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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ORGANIZATION	Jniversi	ty of Utah	
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESCRIPTORS	DESCRIPTORS
1246 - 17254 - М			1% Cloud Snow Highway
			Railroad Reservoir Horizontal Sed. Strata
COLUMN HEADING SPACES NO	W AND USE	A CHECK () MAP RITE THE TERM UNI	THE DESCRIPTOR TERMS IN THE IK IN THE APPROPRIATE PRODUC DER THE DESCRIPTORS COLUMN) PF USER SERVICES

ERTS IMAGE DESCRIPTOR FORM (See Instructions on Back)

DATE <u>1-20-73</u> (8-8-	73)			NDPF USE ONLY
PRINCIPAL INVESTIGATOR _	M. L. Jensen			N ID
GSFC	UN 173	, 		· · · · · · · · · · · · · · · · · · ·
ORGANIZATION	University of Utah		. •	

PRODUCT ID	FREQUENT	LY USED DESC	CRIPTORS*	DESCRIPTORS
(INCLUDE BAND AND PRODUCT)	1			
1181 - 18060 - M				0 Cloud
			, .	Snow
				Basin and Range
				Fault Block Mts.
·				Lake
		· · ·		Playas
• . •				Bajadas
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*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

MAIL TO	NDPF USER SERVICES CODE 563
	BLDG 23 ROOM E413
	NASA GSFC
	GREENBELT, MD. 20771
	301-982-5406

(See Instructions on Back)

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DRGANIZATIONU	nîversi	ty of Utal)	· · ·	
PRODUCT 1D (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESCR	PTORS*	DESCRIPTOR	5
1337 - 17,320 - M				0 Cloud Meandering River (Colorado Riv Lake Powell	
				Glen Canyon Dam Plateaus	•
				Monoclines Waterpocket Fold Comb Ridge	1
				Navajo Mtn. Dirty Devil Rive	er
				· · · · · ·	
*FOR DESCRIPTORS WHICH WILL COLUMN HEADING SPACES NOW ID LINES. (FOR OTHER DESCR	V AND USE	A CHECK () MARK	IN THE APPROPRIATE	E PRODUCT

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PRODUCT ID INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DES	CRIPTORS*	DESCRIPTORS	
1337 - 17314 - M				0 Cloud Roan Cliffs San Rafael Swell	
				Henry Mts. La Salle Mts. Abajo Mts.	
				Waterpocket Fold Colorado River Green River	
				Dirty Devil River Lake Powell Arches Nat'l Monument	
, ,				Upheaval Dome Canyonlands Nat'l Park Moab Graben Valley	
				· · ·	

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(See Instructions on Back)

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GSFC		ty of Uta	ah	
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESC	RIPTORS* DES	CRIPTORS
1337 - 17311 - M		REQUENTLY,	O Cloud Roan Plate Roan Cliff Green Rive Desolation Uinta Basi Duchesne F Colorado F Indian Res Uinta Mts.	s er A Canyon An River River Servation

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DES	SCRIPTORS'	DESCRIPTO	RS
1337 - 17305 - M				5% Cloud Uinta Mts. Hogback Ridge	
				Glacial Cirques Cirque Lakes Flaming Gorge J	
				Green River	
• •					
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ORGANIZATION	Iniversi	ty of U	tah	. · · · · · · · · · · · · · · · · · · ·	
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DE	SCRIPTCRS [,]	DESCRIPTO	RS
1337 - 17302 - M				5% Cloud Anticlinal Rang Hogback Ridges	e
				High Plains	
*FOR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NO ID LINES. (FOR OTHER DESC	M AND USE	A CHECK	(~) Mar Term Une To Ndi	K IN THE APPROPRIA	IE PRODUCI

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PRINCIPAL INVESTIGATOR					N	
	IN 113				L <u></u>	
ORGANIZATION	Iniversit	y of Ut	ah	·		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTL	Y USED DESC	RIPTORS*	DESCRIPTO	DRS	
1271 - 18063 - M			· · ·	40% Cloud Walker Lake	· .	-
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*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (\checkmark) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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III	N 113 niversi	ty of Utah		-	•	
DRGANIZATION				.	·	ı
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	Y USED DESCR	PTORS*	DESCRIPT	TORS	
1271 - 18061 - M			50	% Cloud	• .	
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DATE 4-20-73	(8-3-73)	NDPF USE ONLY
	DR M. L. Jensen	N
GSFC	UN 173	
ORGANIZATION	University of Utah	

PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*	DESCRIPTORS
1271 - 18054 - M		35% Cloud Snow
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*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (\checkmark) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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	NASA GSFC
	GREENBELT, MD. 20771
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PRINCIPAL INVESTIGATOR			
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DRGANIZATION	Iniversity of Utah		
PRODUCT ID	FREQUENTLY USED DESCRIPTORS*	DESCRIPTORS	
(INCLUDE BAND AND PRODUCT)		DESCHIPTONE	

1304 - 17490 - M			20% Cloud
,			Snake Range
			Ely
			McGill
			Baker
		·	Garríson
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*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK () MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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DATE 4-19-73 (8-3-	-73)		•		NDPF USE	
PRINCIPAL INVESTIGATOR					N ID	
GSFC	IN 113				. L	
DRGANIZATION	Iniversit	ty of Uta	h			
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTL	Y USED DESC	RIPTORS*	DESCRIP	TORS	
1270 - 18005 - M				75% Cloud	• .	
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> MAIL TO NDPF USER SERVICES CODE 563 BLDG 23 ROOM E413 NASA GSFC GREENBELT, MD. 20771 301-982-5406

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(See Instructions on Back)

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DATE 4-19-73	(8-3-73)	D
PRINCIPAL INVESTIGATOR	M. L. Jensen	N ID
GSFC	UN 113	
ORGANIZATION	University of Utah	
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PRODUCT ID	FREQUENTLY USED DESCRIPTCAS*			DESCRIPTORS	
INCLUDE BAND AND PRODUCT)	1		· · · · · · · · · · · · · · · · · · ·		
1270 - 18003 - M				80% Cloud	
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*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WHITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

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	BLDG 23 ROOM E413
	NASA GSFC
	GREENBELT, MD. 20771
	301-982-5406

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PRINCIPAL INVESTIGATOR	M. L. Jensen	N
GSFC	UN 173	
ORGANIZATION	University of Utah	
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PRODUCT ID	FREQUENTLY USED DESCRIPTORS*			DESCRIPTORS	
INCLUDE BAND AND PRODUCT)					
1270 - 18000 - M				90% Cloud	÷ .
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*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (✓) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

> MAIL TO NDPF USER SERVICES CODE 533 BLDG 23 ROOM E413 NASA GSFC GREENBELT, MD. 20771 301-982-5403

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(See Instructions on Eack)

PRODUCT ID (INCLUDE BAND AND PRODUCT) FREQUENTLY USED DESCRIPTORS* DESCRIPTORS 1270 - 18012 ~ M 30% Cloud White Mts. Inyo Range Sierra Nevada Snow Sierra Nevada	
(INCLUDE BAND AND PRODUCT) DESCRIPTORS 1270 - 18012 - M 30% Cloud White Mts. Inyo Range Sierra Nevada Snow	
White Mts. Inyo Range Sierra Nevada Snow	
Snow	
Owen's Valley	

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(See Instructions on Back)

RINCIPAL INVESTIGATOR				
RGANIZATION	أعصصنا	ty of Utah		
PRODUCT ID (INCLUDE BAND AND PRODUCT		LY USED DESCRIP	DESCRIPTORS	
1271 - 18070 - M			5% Cloud (cumulus) Snow: Sierra Nevad White Mtns.	1
			Cultivated Fields San Joaquin Reservoirs	Valley
			Mono Lake Graben Owen's V Lava Fields	/alley
			Cinder Cones Fault system Owen's Valle Glacial valleys	эy
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PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESCRI	PTORS*	DESCRIPTORS
1304 - 17484 - M			. :	10% Cloud Wendover Salt Flats Evaporation Ponds
				Highway Railroad Dugway Bombing Range Fish Springs Bird Ref.
			i	Gold Hill Lake terraces Pilot Range
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RGANIZATION	Iniversi	ty of Ut	ah		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DES	CRIPTORS*	DESCRIPTORS	
1054 - 18001 - M				0 Cloud Fault-block Mts. Graben Valleys	
			-	Bajadas Lava Fields Playas	
		-			
FOR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NO ID LINES. (FOR OTHER DESCI	W AND USE	A CHECK (🗸) MARK	IN THE APPROPRIATE PR	CODUCI

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PRGANIZATIONU	Iniversi	ty of Uta	h		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESCR	L'PTORS*	DESCRIPTORS	
1049 - 17313 - M				5% Cloud Horizontal Sed. Str Monoclines	ata
				Entrenched Meanders Laccolithic Mts. Reservoir	
•					
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FOR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NO ID LINES. (FOR OTHER DESCR	W AND USE	A CHECK () MARK	IN THE APPROPRIATE PR	09001
ID ERRED. (I ON OTHER DEDU		MAIL TO	NDPF CODE BLDG	USER SERVICES	

PRODUCT ID PRODUCT ID INCLUDE BAND AND PRODUCTI 1250 - 17,495 - M S% Cloud Fault-block Mts. Folded Sed. Strata Bajadas Playas Playas	RINCIPAL INVESTIGATOR ^M	N 173				· ·	
UNCLUDE BAND AND PRODUCT) DESCRIPTORS 1250 - 17495 - M 5% Cloud Fault-block Mts. Folded Sed. Strata Bajadas Playas	RGANIZATION	niversi	ty of Ut	tah		•	
Fault-block Mts. Folded Sed. Strata Bajadas Playas		FREQUENT	LY USED DES	CRIPTORS*	DESCRIP	TORS	
	1250 - 17495 - M				Fault-block I Folded Sed. S Bajadas		
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	This AL AVENIGATOR	L. Jei	nsen		·	ID	
	GSFC	N 113			•		
		niversi	ty of Ut	ah			
•	PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	Y USED DES	CRIPTORS*	DESCRIPTOF	S	
	1250 - 17492 - M				20% Cloud Snow		• -
					Fault-block Mts. Playas		
	*FOR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NOV ID LINES. (FOR OTHER DESCR	AND USE	A CHECK (🗸) MARK	IN THE APPROPRIAT	E PRODUCT	
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	niversi	ty of	Utah				
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED I	DESCRIP	TGRS*	DESCRIPT	ORS	
1250 - 17490- M					25% Cloud Snow Fault-block M	ts.	
•					Playas	*:	
• • •							
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*FOR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NOT ID LINES. (FOR OTHER DESCR	M AND USE	E A CHEC	く (シー)	MAKK	IN THE APPROPRI.	AIE PRODUC	- 1
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	1			
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESCRI	DE	SCRIPTORS
1019 - 18050 - M			2% Cloud Fault-blo Bajadas Playas Reservoin Cultivate Highway Railroad	ock Mts. c ed Fields
				· · · .
FOR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NO ID LINES. (FOR OTHER DESCI	W AND USE	A CHECK (MARK IN THE APPI	RIPTORS COLUMN).

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ORGANIZATION					
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	TLY USED DESC	RIPTORS*	DESCRIPTORS	
1019 - 18044 - M			· .	1% Cloud Fault-block Mts. Playa Lava Plain Cultivated Fields	
*FOR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NON ID LINES. (FOR OTHER DESCR	N AND LISP	= Δ СНЕСК (~	/) MARK	HE DESCRIPTOR TERMS IN THE IN THE APPROPRIATE PRODUC IR THE DESCRIPTORS COLUMN)	ال ما

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	niversi	ty of Uta	h	· · · · · ·	
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESC	RIPTCES*	DESCRIPTORS	
1181 - 18060 - M				0 Cloud Snow	
• .				Basin and Range Fault Block Mts. Lake	
				Playas Bajadas	
COLUMN HEADING SPACES NOV	N AND USE	A CHECK (~) MARK	HE DESCRIPTOR TERMS IN THE IN THE APPROPRIATE PRODUC R THE DESCRIPTORS COLUMN).	DT
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(See Instructions on Back)

SFC	JN 113	<u></u>		
RGANIZATION	Iniversi	ty of Utah		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESCRIPT	DESCRIPTORS	
1019 - 18053 - M			15% Cloud Fault-block Mts. Alluvial Fans	
·			Lakes Reservoir Playas	
			Lava Fields Glaciated Canyons	
- 	•			
ANT USENT WEADING SPACES NO	WALAND LISE	: А СНЕСК (🗸)	TE THE DESCRIPTOR TERMS IN T MARK IN THE APPROPRIATE PROD UNDER THE DESCRIPTORS COLUM	

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RINCIPAL INVESTIGATOR	
RGANIZATION University of Utah PRODUCT ID (INCLUDE BAND AND PRODUCT) FREQUENTLY USED DESCRIPTORS* DESCRIPTORS 1019 - 18055 - M 20% Cloud Fault-block Mts. Graben Valley Bajadas Glaciated Canyons Reservoirs Cities Cultivated Fields	
PRODUCT ID (INCLUDE BAND AND PRODUCT) FREQUENTLY USED DESCRIPTORS DESCRIPTORS 1019 - 18055 - M 20% Cloud Fault-block Mts. Graben Valley Bajadas Glacial Lakes Glaciated Canyons Reservoirs Cities Cultivated Fields Cultivated Fields	
(INCLUDE BAND AND PRODUCT) DESCRIPTORS 1019 - 18055 - M 20% Cloud Fault-block Mts. Graben Valley Bajadas Glacial Lakes Glaciated Canyons Reservoirs Cities Cultivated Fields	
INCLUDE BAND AND PRODUCT) 1019 - 18055 - M 20% Cloud Fault-block Mts. Graben Valley Bajadas Glacial Lakes Glaciated Canyons Reservoirs Cities Cultivated Fields	
Fault-block Mts. Graben Valley Bajadas Glacial Lakes Glaciated Canyons Reservoirs Cities Cultivated Fields	
Bajadas Glacial Lakes Glaciated Canyons Reservoirs Cities Cultivated Fields	
Reservoirs Cities Cultivated Fields	
Cinder Cones	

CODE 563 BLDG 23 ROOM E413 NASA GSFC GREENBELT, MD. 20771 301-982-5406 1 .

(See Instructions on Eack)

INTERPOLICE WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMNN HEADING SPACES NOW AND USE A CHECK (~) MARK IN THE APPROPRIATE PRODUCT		<u>1. L. Je</u> JN 173				ID	
PRODUCT ID (INCLUDE BAND AND PRODUCT) FREQUENTLY USED DESCRIPTORS DESCRIPTORS 1033 - 17423 - M 45% Cloud Fault-block Mts. Playas Lava Flows Volcanic Cover	SFC		ty of U	tah	- <u></u>		
INCLUDE BAND AND PRODUCTI DESCRIPTORS 1033 - 17423 - M 45% Cloud Fault-block Mts. Playas Lava Flows Volcanic Cover	RGANIZATION				······································		-
Fault-block Mts. Playas Lava Flows Volcanic Cover		FREQUENT	LY USED DE	SCRIPTORS	DESCRIPTO	ORS	
Lava Flows Volcanic Cover	1033 - 17423 - M				Fault-block Mt	s.	
POB DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE					Lava Flows	- .	
FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE					. •		
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	FOR DESCRIPTORS WHICH WI	LL OCCUR F	REQUENTI	Y, WRITE	THE DESCRIPTOR TE	RMS IN THE	SE

(See Instructions on Back)

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	Univers	ity of	Utah			
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PRODUCT ID (INCLUDE BAND AND PRODUCT)		TLY USED I	DESCRIP	TORS*	DESCRIPTORS	
1102 - 17262 - M				Entrencl	tal Sed. Strata hed Meanders ic Drainage	
				Volcanio Igneous Hogback	Dikes	
					· .	
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FOR DESCRIPTORS WHICH W COLUMN HEADING SPACES N ID LINES. (FOR OTHER DES	OW AND US	F A CHEC	K (🗸)	MARK IN THE AP	PROPRIATE PRODUCT	E

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RGANIZATION	UNIVERSI	ty of Uta	····		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESC	RIPTORS*	DESCRIPTORS	
1102 - 17265 - M				O Cloud Horizontal Sed. Strata Lava Fields	
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OCTUMENT LEADING COACES MI	MALAND HSE	A CHECK (🗸	I MARK	HE DESCRIPTOR TERMS IN TH IN THE APPROPRIATE PRODU R THE DESCRIPTORS COLUMN	

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NINCIPAL INVESTIGATOR	<u>L. Jer</u>	isen			10
SFC	N 173				
	niversi	ty of Utah			
PRODUCT ID	FREQUENTS	Y USED DESCRIP	TCRS*	DESCRIPT	085
(INCLUDE BAND AND PRODUCT)				DESSIN	
1248 - 17373 - M				80% Cloud	
•			,	Snow -	
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ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN). MAIL TO NDPF USER SERVICES CODE 563 BLDG 23 ROOM E413 NASA GSFC GREENBELT, MD. 20771

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RGANIZATIONU	Iniversi	ty of Ut	ah		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DES	CRIPTORS*	DESCRI	PTORS
11 80 - 17595 - M				75% Cloud	· .
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RGANIZATION	Jniversit	y of Utal) · · · · · · · · · · · · · · · · · · ·	
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY	USED DESCR	IPTORS* DESCRIP	TORS
1211 - 17314 - M			O Cloud Snow Anticlinal M Hogback Ridg Cirques Glaciated Ca Incised Mean Synclinal Ba Reservoir Farmlands	e nyons ders

GSFC 37-2 (7/72)

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SFC	UN 173			· · · · · · · · · · · · · · · · · · ·		
RGANIZATION	Univers	ity of	Utah		·	
PRODUCT ID (INCLUDE BAND AND PRODUCT)	l	TLY USED	DESCRIP	TORS*	DESCRIPTORS	
211 - 17320 - M					O Cloud Snow Horizontal Sed. Plateau Rivers with income meanders Dendritic tribut Anticlinal dome Highways Railroad	ised taries

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(See Instructions on Back)

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		ty of Uta	h		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTL	Y USED DESC	RIPTORS*	DESCRIPTORS	
1211 - 17323 - M			· s	Cloud now orizontal Sed. Strata	
• •				onoclines ncised Meanders Mendritic Tributaries accolithic Mts.	
				· · · · · · · · · · · · · · · · · · ·	
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GANIZATIONU	niversi	ty of U	tah		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED DESCRIPTORS*			DESCRIPTOR	s
1211 - 17325 - M	•			O Cloud Horizontal Sed. Dendritic Draina Lava Fields Volcanic Cones	ļ
• • • • •	· · · · ·				
OR DESCRIPTORS WHICH WIL			V WRITE	THE DESCRIPTOR TER	US IN THESE
OR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NOT D LINES. (FOR OTHER DESCI	N AND USE	A CHECK	(🗸) MAR	IK IN THE APPROPRIAT	E PRODUCE

ERTS IMAGE DESCRIPTOR FORM (See Instructions on Back)

RINCIPAL INVESTIGATOR			ID	
SFC	N 113			
DRGANIZATION	niversity of	Utah		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTLY USED	DESCRIPTORS*	DESCRIPTORS	
1212 - 17372 - M			O Cloud Snow Frozen Lakes Frozen reservoirs Cities Farmlands	
			Cirques Glaciated valleys Anticlinal Mts.	
	-			
*FOR DESCRIPTORS WHICH WII COLUMN HEADING SPACES NO ID LINES. (FOR OTHER DESC	N AND USE A CHEC IPTORS, WRITE TH	CK (~) MARK He term unde	IN THE APPROPRIATE PRODU R THE DESCRIPTORS COLUMN	

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(See Instructions on Back)

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	Universi	ty of Utah	1	
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESCRI	PTORS* DESCR	IPTORS
1212 - 17365 - M			0 Cloud Snow 95% Frozen Lake	
			Folded Sed.	Strata Sed. Strata
			Highway	
	-			
			WRITE THE DESCRIPTOR	YERMS IN TH'SE

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(See Instructions on Back)

	niversi	ty of U	tah	. '	
PRODUCT ID					
(INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DES	CRIPTCRS*	DESCRIPT	ORS
1212 - 17374 - M				0 Cloud Snow San Raphael Sw Plateau with g valleys Cities Highways	raben
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DATE 1-31-73 (8-10-73)	NDPF USE ONLY
PRINCIPAL INVESTIGATOR		
GSFC	UN 113 .	
ORGANIZATION	University of Utah	
PRODUCT ID	FREQUENTLY USED DESCRIPTORS	DESCRIPTORS
(INCLUDE BAND AND PRODUCT) 1192 - 17265 - M		45% Cloud Snow Plateau structure Monocline Dendritic drainage pattern

*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK () MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

MAIL TO	NDPF USER SERVICES
	CODE 563
	BLDG 23 ROOM E413
	NASA GSFC
	GREENBELT, MD. 20771
	301-982-5406

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RGANIZATION	Jniversi		0.011				
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	TLY USED D	ESCRIP.	TORS*	DESCRIPTO	RS	
1192 - 17251 - M					60% Cloud Snow	* .	
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FOR DESCRIPTORS WHICH WI		FREQUENT		RITE TH	E DESCRIPTOR TEL	AMS IN THES	E

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GSFC				
ORGANIZATION	Iniversi	ty of Utah	· ····································	
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESCR:	PTGRS+	DESCRIPTORS
1197 - 17545 - M			Ba	% Cloud sin and Range Structu
			Fc Al	nge front faults olded sed. Strata luvial fans
			P1 E1	layas Ly :Gill Smelter
			Ir	altivated fields Aclined Sed. Strata ross faults
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				· · · ·
FOR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NO	W AND USE	A CHECK (MARK IN	THE APPROPRIATE PRODU
ID LINES. (FOR OTHER DESC	RIPTORS, W	RITE THE TER	M UNDER T NDPF US CODE 53 BLDG 23	HE DESCRIPTORS COLUMN ER SERVICES 3 ROOM E413
			NASA GS	FC ELT, MD. 20771

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RINCIPAL INVESTIGATOR	<u>4. L. Je</u>	ensen		· · ·	N ID	
SFC	SEE NL					
RGANIZATION	Universi	ty of Ut	ah			
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	TLY USED DES	CRIPTORS*	DESCRIPT	rors	
1182 - 18105 - M				25% Cloud Basin and Ran Playas	ge Mts.	
• •				Lava Plain Bajadas Cultivated Fi	elds	
					·	
<u>-</u>						
FOR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NO ID LINES. (FOR OTHER DESC	W AND USE	E A CHECK (•	✓) MARK ERM UNDE	IN THE APPROPRI	ATE PRODUCI	Ē
		MAIL T	CODS BLDG NASA	USER SERVICES 563 523 ROOM E413 A GSFC ENBELT, MD. 20771		

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(See Instructions on Back)

DATE <u>1-19-73 (8-8-73)</u>		nsen		D N	·
PRINCIPAL INVESTIGATORM	N 173				
GSFC		ty of Ut	ah		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DES	CRIPTORS*	DESCRIPTORS	
1180 - 18004 - M			· · ·	30% Cloud Snow 100% Cover Basin and Range	
				·:	
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*FOR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NOT	N AND USE	A CHECK U	🗸) MAHK	IN THE APPROPRIATE PRODU	101
COLUMN HEADING SPACES NOT ID LINES. (FOR OTHER DESCR	RIPTORS, W	MAIL 1	ERM UNDE FO NDPF CODE BLDG NASA	USER SERVICES	1).

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DRGANIZATION	Iniversi	ty of Ut	ah		
PRODUCT ID	FREQUENT	LY USED DES	CRIPTORS*	DESCRIPTORS	<u> </u>
(INCLUDE BAND AND PRODUCT)	1				
1180 - 17592 - M				25% Cloud Snow	
				Basin and Range	
· . ·				Lava Field?	
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*FOR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NOT ID LINES. (FOR OTHER DESCR	N AND USE	A CHECK (~	/) MARK	IN THE APPROPRIATE PRODU	CT
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PRINCIPAL INVESTIGATORM				ID	·
GSFC	<u>IN 173</u>		<u> </u>		
ORGANIZATION	Iniversi	ty of Uta	h		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESC	RIPTORS*	DESCRIPTORS	
1181 - 18053 - M				0 Cloud Snow	
				Basin and Range Playas Reservoir Railroad	•:
				Highway	
				· .	
*FOR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NO ID LINES. (FOR OTHER DESC	W AND USE	A CHECK (\sim	🖊) MARK	IN THE APPROPRIATE	PRODOCI
		MAIL TO	COD! BLDC NASA	USER SERVICES 533 23 ROOM E413 A GSFC ENBELT, MD. 20771	

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		ty of Utal) 	
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESCR	DESCI	RIPTORS
1181 - 18051 - M			O Cloud Snow Basin and R	ange Structures
			Lava Plain Cultivated	Fields
· · · · · · · · · · · · · · · · · · ·				
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FOR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NOV D LINES. (FOR OTHER DESCR	N AND USE	A CHECK () MARK IN THE APPROP	RIATE PRODUCT
	·	MAIL TO		S 3

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PRINCIPAL INVESTIGATOR	<u>j, L. Jen</u> JN 113	1261			ID
GSFC		y of Uta	h	······································	•
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENTL	Y USED DESCR	NPTORS*	DESCRIPTO	RS
1213 - 17,431 - M			·	2% Cloud Snow Frozen Lake	• .
				Salt Lake Playas Cities Evaporation Por Fault-block Mt	
	•				
					•••••••••••••••••••••••••••••••••••••••
*FOR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NO ID LINES. (FOR OTHER DESC	W AND USE	A CHECK (🗸) MARX RM UNDE NDPF CODE BLDG NASA GREE	IN THE APPROPRIA R THE DESCRIPTORS USER SERVICES	LE BRODOC

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(See Instructions on Eack)

	DATE <u>12-25-72 (8-8-73)</u>				D
	PRINCIPAL INVESTIGATOR	, L, Je	ensen		N
	GSFCU				L
			ty of Utah)	
•	PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	TLY USED DESCRI		CRIPTORS
	1155 - 17204 - M			10% Cloud Snow	
				Vertical D	
				Dendritic Reservoirs Farmlands	
-					•
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	*FOR DESCRIPTORS WHICH WILL	OCCUR F	REQUENTLY, W	RITE THE DESCRIPTO	R TERMS IN THESE
	COLUMN HEADING SPACES NOW ID LINES. (FOR OTHER DESCR	AND USE IPTORS, W	A CHECK (~) RITE THE TERM MAIL TO	M UNDER THE DESCRI	PTORS COLUMN).
				CODE 563 BLDG 23 ROOM E4 NASA GSFC GREENBELT, MD. 20 301-982-5406	

(See Instructions on Back)

SFC UN RGANIZATION Unit PRODUCT ID (INCLUDE BAND AND PRODUCT)	Versity of Utah	
	REQUENTLY USED DESCRIPTORS*	······································
		DESCRIPTORS
1144 - 18010 - M		O Cloud Snow Fault-block Mts. Range front faults
		Alluvial Fans Bajadas Playas Graben Valleys Cinder Cones

FCU		ty of Ut	:ah		
GANIZATION					
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DES	CRIPTORS*	DESCRIPTORS	
1144 - 18003 - M				O Cloud Fault-block Mts. Playas Bajadas	
· ·			Ť	Alluvial Fans	
					بوالم والمحمد والمحم
NOT FIMAL READING SPACES NO	W AND USE	A CHECK (V) MARK	HE DESCRIPTOR TERMS IN THI IN THE APPROPRIATE PRODU IR THE DESCRIPTORS COLUMN	

GSFC 37-2 (7/72)

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(See Instructions on Back)

DATE <u>1-15-73 (8-8</u>	-73)	D
PRINCIPAL INVESTIGATOR	M. L. Jensen	N ID
GSFC	UN 173	
ORGANIZATION	University of Utah	

PRODUCT ID	FREQUENT	Y USED DES	CRIPTORS*	DESCRIPTORS
INCLUDE BAND AND PRODUCT)				
1176 - 17364 - M				15% Cloud
· · ·				Anticlinal Mtns.
				Synclinal Basins
				Fault-block Mtn.
				Range front fault
				Hogback ridges
				Glaciated Canyons
•			-	
•				Cirques
•			·	Reservoirs (frozen)
				Cities
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*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK (\checkmark) MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

MAIL TO	NDPF USER SERVICES
	CODE 563
	BLDG 23 ROOM E413
	NASA GSFC
	GREENBELT, MD. 20771
	301-982-5406
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PRINCIPAL INVESTIGATOR			N
GSFC	UN 113	-	
ORGANIZATION	University of Utah	 	
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	FREQUENTLY USED DESCRIPTORS*		· · ·

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PRODUCT ID (INCLUDE BAND AND PRODUCT)	PAEQUENT		DESCRIPTORS
1176 - 17371 - M			10% Cloud
·		-	Snow
			Anticlinal Dome (San Rafael Swell)
			Horizontal Sed. Strata
		-	Parallel Fault System
			Fault-block Mts.
•			Range front faults
			Reservoirs (frozen)
•			Cities
			Highway
			-
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University of Utah PRODUCT ID (INCLUDE BAND AND PRODUCT) FREQUENTLY USED DESCRIPTORS 1176 - 17362 - M 20% Cloud Snow Horizontal Sed. Strata Folded Sed. Strata Folded Sed. Strata Range front faults				<u> </u>		ID
DESCRIPTORS 1176 - 17362 - M 20% Cloud Snow Horizontal Sed. Strata Folded Sed. Strata Range front faults	1		ty of Ut	ah	······································	
Snow Horizontal Sed. Strata Folded Sed. Strata Range front faults		FREQUENT	LY USED DESC	RIPTORS	DESCRIPTO	RS
	1176 - 17362 - M				Snow Horizontal Sed Folded Sed. St Range front fa	rata ults
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	• • • • • •					
FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE	· .					

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PRINCIPAL INVESTIGATORM	N 173			ID
	niversi	ty of Utah		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DESCRIP	TORS*	DESCRIPTORS
1176 - 17,373 - M				30% Cloud Snow
				Henry Mts. and Navajo Mtsshow above clouds.
				Waterpocket Fold Straight Cliffsabove clouds
				Horizontal Sed. Strata Reservoirs
	- - -			
*FOR DESCRIPTORS WHICH WILL COLUMN HEADING SPACES NOV ID LINES. (FOR OTHER DESCR	AND USE	A CHECK (V)	MARK	IN THE APPROPRIATE PRODUCT
		MAIL TO	CODE	23 ROOM E413

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te <u>1-14-73 (8-8-73)</u>				D
INCIPAL INVESTIGATOR		N		
			<u> </u>	ID
RGANIZATION	Iniversity	/ of Utah		
PRODUCT ID	FREQUENTLY	USED DESCRIPTO	DRS*	CRIPTORS
(INCLUDE BAND AND PRODUCT)				
1175 - 17312 - M			10% Cloud	
			Snow	
			Edge of Pl (Roan C	lateau Cliffs)
			Anticlina (San Ra	l dome afael Swell)
				l Meanders River, Colo.
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*FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WRITE THE DESCRIPTOR TERMS IN THESE COLUMN HEADING SPACES NOW AND USE A CHECK () MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

MAIL TO	NDPF USER SERVICES
	CODE 563
	BLDG 23 ROOM E413
	NASA GSFC
	GREENBELT, MD. 20771
	301-982-5406

GSFC 37-2 (7/72) 0-2

ERTS IMAGE DESCRIPTOR FORM (See Instructions on Back)

	1. L. Je JN 113			ID	
	Iniversi	ty of Ut	ah		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DES	CRIPTORS*	DESCRIPTORS	
1174 - 17261 - M				10% Cloud Snow	
				Laccolithic Mt. (Abajo Mt.) Horizontal Sed. Strata Dendritic Drainage	
				Entrenched Meanders (San Juan River) Monocline (Waterpocket Fold)	
· · · · ·					
		1 1.			

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	JN 173				
	Jniversi	ty of Ut	ah		
PRODUCT ID (INCLUDE BAND AND PRODUCT)	FREQUENT	LY USED DES	CRIPTCRS*	DESCRIPTO	ORS
1067 - 17310 - M				<pre>10% Cloud Ledges and cli (Book Cliff Cliffs) Horizontal sed Anticlinal dom (San Rafael Upheaval D Entrenched Mea Graben Valley Cities (Greenriver Flat irons</pre>	s, Roan . Strața es Swell ome) nders , Moab)
				Dendritic Drai	nage
FOR DESCRIPTORS WHICH WIL COLUMN HEADING SPACES NO	L OCCUR F	REQUENTLY A CHECK (-	, WRITE TH	E DESCRIPTOR TEP	IMS IN THESE
ID LINES. (FOR OTHER DESCI	RIPTORS, W	RITE THE TR	ERM UNDER D NDPF CODE BLDG NASA	R THE DESCRIPTORS USER SERVICES 563 23 ROOM E413	S COLUMN).

GSFC 37-2 (7/72)

(See Instructions on Back)

SFCUN 113 RGANIZATIONUniversity of Utah PRODUCT IDIFREQUENTLY USED DESCRIPTORS INCLUDE BAND AND PRODUCT) DESCRIPTORS 1067 - 17312 - M 3% Cloud Contrails Horizontal sed. strata Cliffs and Ledges Entrenched Meanders Dendritic tributaries Laccolithic Mts. Monoclines Reservoir	ATE9-28-73 (8-8-7 RINCIPAL INVESTIGATOR		nsen			NDPF USE ONI D N
PRODUCT ID (INCLUDE BAND AND PRODUCT) FREQUENTLY USED DESCRIPTORS* DESCRIPTORS 1067 - 17312 - M 3% Cloud Contrails Horizontal sed. strata Cliffs and Ledges Entrenched Meanders Dendritic tributaries Laccolithic Mts. Monoclines	SFC	JN 113			- -	ID
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Contrails Horizontal sed. strata Cliffs and Ledges Entrenched Meanders Dendritic tributaries Laccolithic Mts. Monoclines		FREQUENT	LY USED DESCR	PTORS	DESCRIPTO	RS
Cliffs and Ledges Entrenched Meanders Dendritic tributaries Laccolithic Mts. Monoclines	1067 - 17312 - M			Co	ntrails	strata
Laccolithic Mts. Monoclines				C1 En	iffs and Ledg trenched Mean	es ders
				Мо	noclines	•
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FOR DESCRIPTORS WHICH WILL OCCUR FREQUENTLY, WHITE THE DESCRIPTOR TERMS IN THISE COLUMN HEADING SPACES NOW AND USE A CHECK () MARK IN THE APPROPRIATE PRODUCT ID LINES. (FOR OTHER DESCRIPTORS, WRITE THE TERM UNDER THE DESCRIPTORS COLUMN).

MAIL TO	NDPF USER SERVICES
	CODE 533
	BLDG 23 ROOM E413
	NASA GSFC
	GREENBELT, MD. 20771
	301-982-5406

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GSFC 37-2 (7/72)

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(INCLUDE BAND AND PRODUCT)	l 1			DESCR		ł
1049 - 17310 - M				10% Cloud	•	
				1	Sed. Strata	
				Anticlinal	Dome s	
•			:	Entrenched	Meanders	
				Flat irons	· :	
				Monocline		
. *				Laccolithic	Mts.	
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MAIL TO	NDPF USER SERVICES
	CODE 563
	BLDG 23 ROOM E413
	NASA GSFC
	GREENBELT, MD. 20771
	301-982-5406
	الشريحية المرجولة المركمية في والمركمة التي من من بين من

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(See	Instructions	on	Beck	ł
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GANIZATION	Universit	ty of Ut	ah	
PRODUCT 10 INCLÚDE BAND AND PRODUCT)	FREQUENT	LY USED C	DESCRIPTO	DESCRIPTORS
1307 - 18062 - M				5-10% Cloud Basin and Range Snow Walker Lake
, ,				Croplands Streams Alluvial fans Alluvial flats
· · ·				Playa
				ITE THE DESCRIPTOR TERMS IN THES
FOR DESCRIPTORS WHICH W COLUMN HEADING SPACES N ID LINES. (FOR OTHER DES	ILL OCCUR IOW AND US CRIPTORS,	SE A CHE	CK (/) I HE TERM	ITE THE DESCRIPTOR TERMS IN THES MARK IN THE APPROPRIATE PRODUCT UNDER THE DESCRIPTORS COLUMN).