PN-ACN-365
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TA/OST 73-19

DEVELOPING COUNTRY COVERAGE OF EARTH RESOURCES TECHNOLOGY SATELLITE, ERTS-1:

July 1972 - June 1973

AFGHANISTAN

Office of Science and Technology
Agency for International Development
Washington, D.C.

JULY 1973

A

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B

PREFACE

Recognizing the potential usefulness to developing countries of imagery available from the earth resources technology satellite, ERTS 1, the Office of Science and Technology has compiled this report from information provided by the EROS Data Center, Department of the Interior. The report lists the identification number, location, acquisition date, cloud cover, and related information for each ERTS 1 image acquired from the subject country between launch on July 23, 1972 and June 1973. A guide to interpreting the computer-based image listing, instructions for ordering, order forms for purchasing imagery in various formats, and related ERTS data facts are also included. The imagery can be purchased directly at the cost of reproduction and handling from the EROS Data Center, Sioux Falls, South Dakota 57198.

This report is intended to broaden awareness and facilitate the acquisition of ERTS 1 data products which might be used to strengthen developing country resource inventories and related investigations in agriculture, forestry, hydrology, geology, cartography, and land use planning and management. It was prepared at this time because considerable information already exists for many developing countries and technical problems in the satellite may limit future image acquisition. Other Office of Science and Technology reports contain similar listings for other developing countries.

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Codes for Computer Printout for Remote Sensing Data from the EROS Data Center at Sioux Falls, S.D.

FIRST LINE OF ACCESSION INFORMATION

- Longitude of Nadir
- Latitude of Nadir
- Zone of Accession
  - 1=NE
  - 2=NW
  - 3=SE
  - 4=SW
- Internal
- Film Generation Number
- Year, Month, Day Image Entered Data Base
- Incomplete Record Codes
  - 1=Missing Originator Number
  - 2=Missing Storage Location
  - 3=Incomplete Position
  - 4=No Microfilm
- Sensor Code
- Forward Overlap in 10's of Percent
- Cloud Cover in 10's of Percent
- Image Quality 0=Inferior, 9=Excellent
- Platform Height in 100's of Meters
- Representative Fraction Denominator
- Year, Month, Day of Observation
- Band Availability
  - 0 1=MSS-7
  - 1=RBV-3 1=MSS-6
  - 1=RBV-2 1=MSS-5
  - 1=RBV-1 1=MSS-4
- Internal
- Roll Number
- Internal
- 0=Bulk, 1=Precision, 2=Color Comp.
  A=Alaska, N=Goddard, G=Goldstone
  2=RBV, 5=MSS
  Tens of Seconds
- Min. of Observation
- Hour of Observation
- Days Since Launch
- 1=ERTS-1, 2=ERTS-2
  Originating Agency 8=NASA (ERTS)
- Originators Identification Numbers
  - 1=USGS
  - 2=USBR
  - 3=USFS
  - 4=BLM
  - 5=NASA (AMES)
  - 6=NASA (Strip)
  - 6=NASA (SLAR)
  - 6=NASA (SCANNER)
  - 7=NASA (MSC, APOLLO, GEMINI)
  - 8=NASA (ERTS)
  - 9=U. of Mich.
  - A=AMS
  - B=Air Force
  - C=Navy
  - D=NASA (Wallups)
  - (Except for USGS, the numbers used are the same as given by the originator)

Cameras (mm)

C31=Wild RC-8 (152)
C32=T-11 (152)
C33=APS
C34=K-17CHI AER (457)
C35=K-17NIKON DATA (70)
C36=ZEISS (305)
C37=ZEISS, RMK 30/23 (305)
C38=ZEISS, RMK 15/23 (152)
C39=HASS (40)
C40=ITEK M-Band (100)
C41=ITEK M-Band (150)
C42=HASS A (50)
C43=HASS B (80)
C44=HASS C (120)
C45=HASS D (150)
C46=HASS E (250)
C47=HASS F (500)
C48=KA62 A (76)
C49=KA62 B (76)
C50=KA62 C (76)
C51=KA 62 D (76)
C52=S190
C53=KA50 A (44)
C54=VINTEN (44)
C55=SMITH (152)
C56=FAIR CHILD (152)
C57=HURD (152)
C58=PARK (152)
C59=WILD RC-5 (152)
C60=K17 (152)
C61=AERO 63 (152)
C62=AEROGON (152)
C63=KARGL (152)
C64=AEROGON ENG-(152)
C65=WILD (152)
C66=AERO VIEW (152)
C67=KARGL K-17 (152)
C68=KARGL T-12 (152)
C69=WILD RC-9 (88)
C70=AERO (304)
C71=1^2S (100)
C72=RC8/4L (152)
C73=RC8/4R (152)
C74=RC8/4L (305)
C75=RC8/4R
C76=ITEK 9
C77=MFMR (35)
C78=M^2S

Scanners (angle)

S01=AAS-SUV
S02=Bendix 24 CH (80)
S03=UM
S04=RECON-4 (60)
S05=RS-7 (100)
S06=RS-14 (80)
S07=RS-310
S08=RS-314
S09=S192
S10=RBV
S11=MSS
S12=APQ-97
S13=DPD-2 (SLAR)
S14=HP-3070 (130)

SECOND LINE OF ACCESSION INFORMATION

Columns 016 to 100 Show the Latitude and Longitudes for the Corners of Each Image

- Format Width (mm)
- Format Length (mm)
- Film Condition
  - 1=Good
  - 2=Scratched
  - 3=Torn
- Internal
- Image Class
  - 06=Bulk
  - 07=Precision
  - 08=Color Comp
  - 11=Panchromatic
  - 12=IR (B&W)
  - 13=IR (Color)
  - 14=Color
  - 15=Multispectral
  - 18=Rectilinearized
  - 19=Non-Rec
  - 20=Slant Range
  - 21=Ground Range
  - 22=Non-Image
  - 23=Other Imaging
- Sensor Class (Hass.=Hassalblad)
  - 01=Vert. Carto
  - 02=Vert. Recon
  - 03=SLAR
  - 04=Thermal
  - 05=Panoramic
  - 09=PPI
  - 10=Microwave
  - 16=L. Oblique
  - 17=H. Oblique
  - 37=RBV
  - 38=MSS
- Film Codes
- Filter Code

2A	=	2A
2E	=	2E
3	=	3
12	=	12
15=	=	15
5G	=	15G
25	=	25
5A	=	25A
38	=	38
47	=	47
7A	=	47A
7B	=	47B
48	=	48
57	=	57
A	=	57A
58 =	=	58
8B	=	58B
6A	=	65A
9B	=	89B
ZA	=	Zeiss A
ZB	=	Zeiss B
ZC	=	Zeiss C
ZD	=	Zeiss D
20	=	2.0 AV
22	=	2.2 AV
W5	=	W-15
BL	=	Blue (USGS-5)
07	=	0.7 Microns
CL	=	Clear
CA	=	Clear AV
H3	=	HF3
H4	=	HF4
HF	=	HF/2
SE	=	SE
UV	=	UV-17
W1	=	W-1
18	=	1.8
1M	=	10M
3B	=	30B
3R	=	30R
5B	=	50B
0B	=	80B
8A	=	82A
1B	=	18B
56	=	W156
21	=	W21
22	=	W22
24	=	W24
W8	=	W58A
78	=	W78A
89	=	W89
50	=	W500
53	=	W530
70	=	W700
S1	=	0.41-0.46
S2	=	0.46-0.51
S3	=	0.52-0.56
S4	=	0.56-0.61
S5	=	0.62-0.67
S6	=	0.68-0.76
S7	=	0.78-0.88
S8	=	0.98-1.08
S9	=	1.09-1.19
SA	=	1.20-1.30
SB	=	1.55-1.75
SC	=	2.10-2.35
SD	=	10.2-12.5
T1	=	3.0-5.50
T2	=	0.3-0.55
T3	=	1.0-1.30
T4	=	1.5-1.8
T5	=	2.0-2.5
T6	=	1.0-2.5
T7	=	0.7-0.9
T8	=	8-14
T9	=	8-10.5
U1	=	10.0-12.0
U2	=	10.2-12.5
U3	=	10m-.515
U4	=	10m-.52
V1	=	.475-.575
V2	=	.580-.680
V3	=	.690-.760
V4	=	.510-.900
R1	=	RBV-1
R2	=	RBV-2
R3	=	RBV-3
M4	=	MSS-4
M5	=	MSS-5
M6	=	MSS-6
M7	=	MSS-7
M8	=	MSS-8
P1	=	.400
P2	=	1.6
P3	=	13.3
P4	=	1.420
P5	=	10.625
P6	=	22.235
P7	=	22.355
P8	=	31.4
P9	=	10.69
PA	=	16.5

- Film Codes

B & W Film

100=8401
101=8403
102=2405
103=2402
104=2403
105=2485
106=2498
107=3400
108=5425
109=3401
110=5401
111=XX
112=2404
113=S0467
114=5498
115=SO-206
116=SO-243
117=SO-349
118=SO-357
119=SO-380
120=2401
121=3404

Color

220=8442
221=2448
222=2450
223=SO-121
224=SO-118
225=SO-368
226=SO-397
227=D-500
228=D-1000
229=SO-271
230=SO-360
231=SO-278
232=267
233=--C
234=SO-168
235=SO-242
236=SO-278

Color IR

450=8443
452=SO-117
453=SO-180
454=2443
455=2445
456=SO-356
457=3443

Bl & Wh Infrared

340=SO-246
341=2424
342=5424
343=--1

INSTRUCTIONS: Each accession of imagery in the EROS data base can be printed out by computer in two lines of information. This sheet is at the same scale as the computer sheets and can be folded and matched for a direct interpretation of the information. Internal control data are labeled "Internal." Blank spaces are simply left blank. The equality signs are to be read as "stands for." 10/12/72 DLK

EROS DATA CENTER DATA INQUIRY SYSTEM (BATCH)

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TIME 16:58

C# 30500456 J FRY AFGHANISTAN RKF
GEOR 8 8/ 1 380000 760000 390000 710000 360000 600000 290000 600000 290000 680000
LIMIT OF 300

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2-

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3-

EROS DATA CENTER DATA INQUIRY SYSTEM (BATCH)

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TIME 16:58

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LIMIT OF 300

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        AREA=N028 21 15 E063 25 21 N028 03 17 E065 49 56 N029 49 27 E063 43 36 N029 30 54 E066 10 04 M5 113 3806 1 1    60  60

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8.

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TIME 16:58

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19

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ERTS DATA FACT SHEET PREPARED
BY EROS DATA CENTER

Introduction

On Sunday, July 23, 1972, the Earth Resources Technology Satellite (ERTS-A) was launched into a sun synchronous polar orbit around the earth. The satellite has the capability for producing coverage of most of the earth on an 18-day repetitive cycle. The sensors on board the spacecraft transmit images to NASA receiving stations in Fairbanks, Alaska; Goldstone, California; and Greenbelt, Maryland. Images are also received by the Canadian government at their antenna in Prince Albert, Saskatchewan. The images received at the NASA antennae are converted from electronic signals to photographic negatives at the Goddard Space Flight Center in Greenbelt, Maryland. Master copies of the images are immediately flown to the EROS Data Center in Sioux Falls, South Dakota where the images are placed in the public domain and where requests for reproductions of the images can be filled for the scientific community, industry, and the public at large.

The ERTS-A Sensors

The ERTS-A spacecraft carries two types of imaging sensors: The Multi-Spectal Scanner (MSS) and the Return Beam Vidicon (RBV) cameras.

Multi-Spectral Scanner

The Multi-Spectral Scanner (MSS) is a line-scanning device which uses an oscillating mirror to simultaneously scan the terrain passing beneath the spacecraft. The scanner produces four synchronous images, each at a different wave band. The wavelength ranges of each band are:

Band 4 (green)	0.5 to 0.6 micrometers
Band 5 (lower red)	0.6 to 0.7 micrometers
Band 6 (upper red-lower infrared)	0.7 to 0.8 micrometers
Band 7 (infrared)	0.8 to 1.1 micrometers

Band 7 is the best for land-water discrimination. Band 5 is best for showing topographic and cultural features,

such as drainage patterns, roads, and towns. Band 4 sometimes discriminates, qualitatively, the depth and/or turbidity of standing bodies of water. Band 6 shows the best tonal contrasts that reflect various land use practices; it also gives maximum land-water contrast. Thus, for general display purposes, a scene is best presented by four photos. If only one photo is wanted, however, band 5 will usually be the best selection. Bands 4, 5, 6 and 7 correspond respectively with MSS bands 1, 2, 3 and 4 on the ERTS Order Form.

The electronic signals are converted to 70mm System Corrected Images (Bulk) at Goddard Space Flight Center, and master reproducibles are shipped to the EROS Data Center. The image scale is approximately 100 nautical miles wide. Although the scanner data are acquired in a continuous swath, in the process of electronic signal to image conversion the images are divided into frames to correspond with the frame coverage of the RBV cameras.

Return Beam Vidicon

The Return Beam Vidicon cameras are television cameras mounted side by side in the spacecraft and bore-sighted to simultaneously photograph the earth beneath the spacecraft. The individual frames of RBV images cover approximately 100 x 100 nautical miles and overlap by 10% along the spacecraft track. They are converted from electronic signals to black and white photographic positives on 70mm film by Electron Beam Recorders (EBR's). These original images, called System Corrected Images (Bulk), have a scale of approximately 1:3,369,000. Master reproducible copies of all System Corrected Images (Bulk) collected by the spacecraft and processed by Goddard Space Flight Center are supplied to the EROS Data Center in the 70mm format.

Because of functional problems, the RBV sensor was rendered inoperative on approximately August 15, 1972. Therefore, we have received no RBV images since that time. Until such time that the RBV camera might be turned on again, we will substitute MSS images on all orders, if RBV scenes are not available. Some RBV scenes, viewed prior to its deactivation, are in our data base. The wave-length ranges of each band are:

Band 1 (green)	.460 to .600 micrometers
Band 2 (red)	.560 to .680 micrometers
Band 3 (infrared)	.660 to .820 micrometers

The spectral bands for the two systems are similar; the main difference is in the way in which the images are formed. The biggest loss resulting from failure of the RBV system was use of the images for cartography; the geometric fidelity of the RBV is higher than that of the MSS.

Scene Corrected Images

Selected frames of the RBV and MSS images are being further processed by the Goddard Space Flight Center into images called Scene Corrected Images (Precision Processed). In this process, the images are matched to ground control points with known locations, and the images corrected to a truly orthographic projection. A Universal Transverse Mercator (UTM) grid is super-imposed on the image. System Corrected Images (Precision Processed) are prepared at a scale of 1:1,000,000 with an image area of approximately 7 1/2" x 7 1/2" on a 9" x 9" format, including marginal data. Master reproducible copies of all scene corrected images produced by Goddard are supplied to the EROS Data Center in the 9" x 9" format.

Color Composites

Only selected scenes of the RBV and MSS images are reproduced as color composites. Therefore, color composites do not exist for all ERTS scenes. These are selected and created at the Goddard Space Flight Center and added to our data base at intervals as a master reproducible color positive.

Three spectral bands from either the RBV or MSS images are registered and sequentially exposed through appropriate filters onto color film at a scale of 1:1,000,000. The image size is approximately 7 1/2" x 7 1/2" on an overall format of 9" x 9". Inquiry should be made as to the availability of a color composite over a certain area before submitting payment.

Products Available

Bulk Images

The individual frames of system corrected (bulk) RBV and MSS images are available at contact scale (approximately 1:3,369,000 on a 70mm format) or as enlargements at a scale of 1:1,000,000 with an image area of approximately 7 1/2" x 7 1/2" on a 9" x 9" format; at a scale of 1:500,000 with an image area of approximately 15" x 15" on a 20" x 20" material; and at a scale of 1:250,000 with an image area of approximately 30" x 30" on 40" x 40" material. Reproductions can be provided on resin-coated paper at all scales above or on film as positive or negative images at the 1:3,369,000 or 1:1,000,000 scales.

Precision Images

For the selected frames that have been precision processed by Goddard Space Flight Center and master reproducibles supplied to the EROS Data Center, Scene Corrected Images (Precision Processed) reproductions are available at 1:1,000,000; 1:500,000; and 1:250,000 with image sizes corresponding to those listed above. Reproductions are available on paper at the above scales or on film as positive or negative images at the 1:1,000,000 scale.

Negative Products

All negative products produced by the Data Center are being reproduced on Eastman Kodak 2422 duplicating film unless specified otherwise by the customer. This film, which is a direct reversal film, allows us to make a duplicate negative in one photographic generation. It has, however, a limited density range (equal to 1.7 with a gamma of 1.14) which is not capable of encompassing the entire density range inherent in the original ERTS negative. These negatives are quite useful for making paper reproductions of the imagery since paper inherently has an even more compressed density range. They are of limited value, however, for customers planning to do radiometric studies or creating their own color composites. For these purposes, we suggest that an N-4 negative be ordered. This requires that an intermediate positive be produced

on Eastman Kodak 2430 film which is then contacted again to Eastman Kodak 2430 film to produce a fourth generation negative. This product has a density range of 2.0 corresponding to the second generation master reproducible negative. Customers ordering the fourth generation negative must specifically specify this product and pay for the intermediate positive which is required. The intermediate positive (P3) will be delivered along with the fourth generation negative.

Color Reproductions

For those RBV and MSS scenes that are color composited by Goddard and supplied to the EROS Data Center, color reproductions are available at 1:1,000,000, 1:500,000 and 1:250,000 as paper prints with image sizes corresponding to the above.

Computer Compatible Tapes

Computer compatible digital tapes of ERTS images may be ordered from the Data Center. However, only those scenes prepared in computer compatible tape (CCT) form by NASA/Goddard will be available. This represents a small percentage of the total scenes imaged by the ERTS Satellite. Those CCT's that are available for distribution are listed in NASA publications, the U.S. Standard Catalog and the non-U.S. Standard Catalog. Four CCT's are required for the digital data corresponding to one scene observation by either the RBV (three spectral images) or the MSS (four spectral images). The price per scene (four CCT's) is $160.00.

Microfilm

After every 30 days, the Goddard Space Flight Center prepares a complete listing of photography acquired and a 16mm "browse" microfilm or representative images acquired during the previous 30 days. The microfilms are not intended for analysis purposes, but are instead intended to provide visual index to the coverage and a capability for cloud cover assessment by the user. The Band 2 RBV and Band 5 MSS image from each scene will appear on the microfilm. The micro-

films are available for purchase from the Data Center on open reels suitable for mounting by the user in a cartridge of his choice or in microfiche jackets.

ERTS Data Catalogs

The listing of the imagery shown on the microfilm mentioned previously, is published in ERTS Standard Catalogs. These catalogs may be purchased from: Main GPO Bookstore, 710 North Capitol Street, Washington, D.C. 20402 at the following prices:

Standard U.S. Catalog	$1.25
Standard non-U.S. Catalog	$2.00

ORDERING ERTS IMAGES FROM THE EROS DATA CENTER

Placing an Order

You may place an order with the Data Center for reproductions of the System Corrected Images (bulk) by completing this form. Your cooperation in following these steps will be appreciated.

1. Please print or type all of the information on the form.

2. Give your complete address, including ZIP Code.

3. Give a telephone number where you can be reached during normal business hours. Enter the number in the blank marked "commercial" if the telephone given is not a Federal Telecommunications System number.

4. Indicate the photo identification code for the frame(s) you desire.

5. Select and check the RBV or MSS spectral bands desired. Each band checked is, of course, a separate photograph; therefore, if you check four different bands, you will receive four separate frames of photography.

6. Determine the size of the reproductions desired and enter in the Product Type Desired column. Note that there are separate entries for paper prints and transparencies. Be sure to enter the information from the appropriate column.

7. Complete any special printing instructions you may wish to give in the square at the lower left of the form. If you do not have any special printing instructions, our laboratory personnel will use their own judgment in attempting to make the best print possible. Film transparencies are reproduced to match the gray scale of the master film.

8. Multiply the number of units by the unit price and enter in the total price column. If you desire reproductions at several different sizes,

indicate accordingly, using a new line for each product type.

9. Add the total price columns and carry the grand totals to the price computation area at the lower right of the form. Submit payment by check, money order, or purchase order payable to the U.S. Geological Survey in the CORRECT amount.

10. The mail charges are as follows:

Surface	Charges
U.S., Canada, and Mexico	None
Other Areas	$1 + 1% of Line D
Air Mail	
U.S., Canada, and Mexico	$1 + 1% of Line D
Other Areas	$2 + 2% of Line D

11. If you wish to order Scene Corrected Images (precision), indicate in space provided. You will be notified whether precision data are available over your area of interest, if requested.

If you have any questions regarding the above information or about the EROS Data Center in general, we invite your telephone call to:

605-339-2270 from private or commercial telephones,
or 605-336-2381 from Federal Telecommunications System telephones.

E R T S O R D E R F O R M

(please print or type, see reverse for instructions)

THIS ORDER FORM IS INTENDED FOR USE WHEN THE USER KNOWS THE PHOTO IDENTIFICATION NUMBERS, HAVING ACCESS TO CATALOGS OR BROWSE FILMS.

DATA TO BE FURNISHED BY:
EROS Data Center
Sioux Falls, SD 57198
Commercial: (605) 339-2270
FTS : (605) 336-2381

DATE: _____

TOTAL: _____

NAME : _____
ADDRESS: _____

PHONE:
Commercial: _____
FTS : _____

DATA REQUESTED:

Photo Identification (black & white only)	Spectral Bands RBV 1	2	3	MSS 4	5	6	7	No. of Bands Requested	Product Type Desired	Unit Price	Total Price	Remarks
TOTAL								Enter in line A below →				

Photo Identification (color composites only)	No. of Copies Requested	Product Type Desired	Unit Price	Total Price	Remarks
TOTAL	Enter in line B below →				

Photo Identification Microfilm (b & w only)	No. of Copies Requested	Unit Price	Total Price	Remarks
TOTAL	Enter in line C below →			

Product	Scale	Black and White (price per frame) 1-25	Over 25	Full Rolls	Color (prices per frame) 1	Over 1	Full Rolls
Paper Prints							
70 mm	1:3,369,000	$1.25	$1.00	$0.65	N.A.	N.A.	N.A.
9" x 9"	1:1,000,000	1.75	1.25	1.00	$ 7.00	$ 5.00	N.A.
18" x 18"	1:500,000	3.50	3.00	N.A.	15.00	9.00	N.A.
36" x 36"	1:250,000	9.00	8.00	N.A.	25.00	20.00	N.A.
Film Transparencies							
16 mm (microfilm, 100' rolls)		N.A.	N.A.	$10.00 per 100' roll	N.A.	N.A.	N.A.
70 mm	1:3,369,000	$2.50	2.50	1.25	N.A.	N.A.	N.A.
9" x 9"	1:1,000,000	3.00	3.00	2.25	$10.00	$ 8.00	N.A.
18" x 18"	1:500,000	N.A.	N.A.	N.A.	20.00	15.00	N.A.
36" x 36"	1:250,000	N.A.	N.A.	N.A.	60.00	55.00	N.A.

NOTES:

-- *On black and white orders for over 25 photographs of the same size, there is a reduction in unit price for only those photos in excess of 25.*
i.e., 26 9" x 9" prints cost: 25 @ $1.75 = $43.75
1 @ $1.25 = 1.25
TOTAL = $45.00

-- On color orders for over one photograph of the same size, there is a reduction in unit price for all photos in excess of one.
i.e., 12 9" x 9" prints cost: 1 @ $7.00 = $ 7.00
11 @ $5.00 = 55.00
TOTAL = $62.00

-- Full roll price applies to orders for all frames on a roll. Will be delivered in roll form.

-- N.A. = not available.

_____ I wish to receive information on the availability of scene corrected images of the following area. Please give latitude and longitude, if known.

PRINTING INSTRUCTIONS:

1. Print to: (check one)

_____ Accentuate highlighted areas
_____ Normal
_____ Accentuate shadowed areas

2. Special requirements:

PRICE CALCULATIONS

A. Total from A (above) $_____
B. *Total from B (above)* $_____
C. Total from C (above) $_____
D. Total cost of reproductions (A + B + C) plus cost of shipping $_____
E. Regular or surface (see reverse) $_____
F. Air mail (see reverse) $_____

TOTAL PRICE OF ORDER (D + E + F) $_____

payment made by:
_____ Purchase order No. _____
_____ Check or money order No. _____
_____ U.S.G.S. account No. _____

EOCDM FORM 8 4-24-73
GMF 2M