ZA
333.7
A265

PN-ABN-854
ISN 81904

# 33400

TA/OST 73-19

#99

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

## July 1972 - June 1973

## ZAMBIA

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

JULY 1973

PN-ABN 854

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# DEVELOPING COUNTRY COVERAGE OF EARTH RESOURCES TECHNOLOGY SATELLITE, ERTS-1: JULY 1972 - JUNE 1973

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Agency for International Development
Washington, D. C. 20523

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# 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=I²S (100)
C72=RC8/4L (152)
C73=RC8/4R (152)
C74=RC8/4L (305)
C75=RC8/4R
C76=ITEK 9
C77=MFMR (35)
C78=M²S

**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

- Format Width (mm)
- Format Length (mm)
- FilmCondition
  - 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
- FilmCodes →
- Filter Code

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

| 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 |
| P3 | = | 31.4 |
| P9 | = | 10.69 |
| PA | = | 16.5 |

**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=-I

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



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EROS DATA CENTER DATA INQUIRY SYSTEM (TERMINAL)

DATE 06/15/73
TIME 13:16

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ERDS DATA CENTER DATA INQUIRY SYSTEM (TERMINAL)

DATE 06/15/73
TIME 13:16

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810680 73155A000 00041895 M07506     18    156    184 1111 720929 3369000   9171 82 1 S11 0 721011 2 2 0942 3 008 35 51 031 30 48
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810670 72515A000 00041776 M09101     18     84     88 1111 720928 3369000   9168 81 1 S11 0 721031 2 2 0928 3 008 37 33 032 55 09
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EROS DATA CENTER DATA INQUIRY SYSTEM (TERMINAL)

DATE 06/15/73
TIME 13:16

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   PHOTO ID        MF #      ROLL 1ST FR LST FR  NOF  BND TAKEN   SCALE F HGT  QC ST SNS I DATE  G F  ORB  ZN CTR LAT  CTR LON

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        AREA=S009 33 25 E026 22 11 S009 19 09 E024 44 49 S011 04 51 E025 57 43 S010 50 29 E024 19 53 M5 113 3806 1 1   60  60

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        AREA=S009 31 30 E029 14 41 S009 17 14 E027 37 26 S011 02 50 E028 50 13 S010 48 28 E027 12 31 M5 113 3806 1     60  60

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13

EROS DATA CENTER DATA INQUIRY SYSTEM (TERMINAL)

DATE 06/15/73
TIME 13:16

GEOR P 8/ 3 072000 310000 100000 340000 140000 340000 193000 240000 170000 220000 120000 220000
LIST FRY RKF ZAMBIA RKF

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14

FROS DATA CENTER DATA INQUIRY SYSTEM (TERMINAL)

DATE 06/15/73
TIME 13:16

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        AREA=S013 49 48 E035 26 10 S013 35 12 E033 46 45 S015 21 47 E035 01 15 S015 07 01 E033 21 10 M5 113 3806 1      60  60

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EROS DATA CENTER DATA INQUIRY SYSTEM (TERMINAL)

DATE 06/15/73
TIME 13:16

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LIST FRY RKF ZAMBIA RKF

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| 81180075625A000 | 00121427 M19903 | 34 | 142 | 144 | 1111 | 730119 | 3369000 | 9134 | 80 | 1 | S11 | 0 | 730207 | 2 | 2 | 2504 | 3 | 015 45 50 | 024 00 19 |
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| 81125075125A000 | 00131039 M15801 | 71 | 179 | 188 | 1111 | 721125 | 3369000 | 9169 | 81 | 1 | S11 | 0 | 730103 | 2 | 2 | 1737 | 3 | 015 55 34 | 025 16 51 |
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| 81179075035G000 | 00130535 M19203 | 9 | 53 | 59 | 1111 | 730118 | 3369000 | 9128 | 81 | 1 | S11 | 0 | 730226 | 2 | 2 | 2490 | 3 | 015 03 04 | 025 37 36 |
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| 81215075115A000 | 0 M23201 | 18 | 87 | 92 | 1111 | 730223 | 3369000 | 9234 | 89 | 1 | S11 | 4 | 730412 | 2 | 2 | 2992 | 3 | 015 43 49 | 025 19 00 |
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| 81233075125A000 | 0 M25103 | 31 | 130 | 134 | 1111 | 730313 | 3369000 | 9233 | 86 | 1 | S11 | 4 | 730417 | 2 | 2 | 3243 | 3 | 015 46 21 | 025 14 30 |
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| 81196074515A000 | 00140951 M20702 | 3 | 39 | 204 | 1111 | 730204 | 3369000 | 9186 | 82 | 1 | S11 | 0 | 730227 | 2 | 2 | 2727 | 3 | 015 45 11 | 026 48 10 |
| AREA=S015 06 24 E027 50 48 S014 51 51 E026 10 48 S016 38 24 E027 25 54 S016 23 41 E025 45 10 M5 113 3806 1 1 | | | | | | | | | | | | | | | | | | | 60 60 |
| 81214074535A000 | 0 M23101 | 62 | 131 | 136 | 1111 | 730222 | 3369000 | 9232 | 87 | 1 | S11 | 4 | 730328 | 2 | 2 | 2978 | 3 | 015 43 34 | 026 44 49 |
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| 81069073845A000 | 00050006 M08204 | 135 | 213 | 236 | 1111 | 720930 | 3369000 | 9202 | 80 | 1 | S11 | 0 | 721019 | 2 | 2 | 0956 | 3 | 015 49 26 | 028 19 21 |
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| 81123073935A000 | 00080884 M14503 | 6 | 39 | 177 | 1111 | 721123 | 3369000 | 9176 | 81 | 1 | S11 | 0 | 721229 | 2 | 2 | 1709 | 3 | 015 56 38 | 028 09 12 |
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| 81195073935A000 | 00140813 M20102 | 138 | 234 | 254 | 1111 | 730203 | 3369000 | 9183 | 85 | 1 | S11 | 0 | 730228 | 2 | 2 | 2713 | 3 | 015 46 50 | 028 13 32 |
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6

EROS DATA CENTER DATA INQUIRY SYSTEM (TERMINAL)

DATE 06/15/73
TIME 13:16

GEOR B P/ 3 C73000 310000 100000 340000 140000 340000 193000 240000 170000 220000 120000 220000
LIST FRY RKF ZAMBIA RKF

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DATE 06/15/73
TIME 13:16

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18

EROS DATA CENTER DATA INQUIRY SYSTEM (TERMINAL)

DATE 06/15/73
TIME 13:16

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19

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DATE 6/15/73
TIME 13:16

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22

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DATE 06/15/73
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17

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TIME 13:16

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811800 75745A[illegible]  [illegible]423[illegible]3    31   157[illegible] 168 1111 730119 3369000   9153 80 1 S11 4 730416 2 2 2504 3 020 04 07 022 55 29
       AREA=S[illegible]2[illegible] 51 42 E[illegible]21 38 49 S 21 [illegible]8 23 E023 55 31 S018 59 21 E021 55 48 S019 16 13 E024 11 22 M5 113 3806 1 1   60  60

811980 759[illegible]5A[illegible] [illegible]141221 [illegible]214[illegible]4    3[illegible]   156   168 1111 730206 3369000   9212 81 1 S11 0 730314 2 2 2755 3 020 01 59 022 50 33
       AREA=S[illegible]19 23 [illegible]8 E023 54 44 S[illegible]19 [illegible]8 23 E022 12 [illegible]8 S020 55 25 E023 29 28 S020 40 28 E021 45 53 M5 113 3806 1 1   60  60

812160 75815A[illegible]  [illegible] M232[illegible]4     4    37   1[illegible]0 1111 730224 3369000   9251 86 1 S11 4 730425 2 2 3006 3 020 03 57 022 48 44
       AREA=S[illegible]21 51 14 E[illegible]21 31 55 S[illegible]21 [illegible]9 29 E023 48 32 S018 59 [illegible]2 E021 49 25 S019 16 20 E024 04 51 M5 113 3806 1 1   60  60

813530 75135A[illegible] [illegible]3 475 [illegible]63[illegible]3    14   [illegible]   88 1111 72[illegible]914 3369000   9170 8[illegible] 1 S11 0 721013 2 2 [illegible]0733 3 020 15 32 024 20 22
       AREA=S[illegible]19 37 11 E[illegible]25 24 35 S[illegible]19 21 58 E023 42 23 S021 08 56 E024 58 50 S020 53 30 E023 15 40 M5 113 3806 1     60  60

811430 75225A[illegible] [illegible]1156 [illegible]174 4     5    92   116 1111 721213 3369000   9127 82 1 S11 0 730130 2 2 1988 3 020 14 21 024 13 26
       AREA=S[illegible]19 35 51 E[illegible]25 17 [illegible]7 S[illegible]19 21 15 E023 35 19 S021 07 17 E024 52 02 S020 52 29 E023 09 16 M5 113 3806 1 1   60  60

812150 75235A[illegible]  [illegible] M232[illegible]1    21    9[illegible]    92 1111 730223 3369000   9250 83 1 S11 4 730412 2 2 2992 3 020 02 13 024 14 22
       AREA=S[illegible]21 49 39 E[illegible]22 57 37 S[illegible]21 [illegible]6 37 E025 14 15 S018 57 22 E023 14 53 S019 14 28 E025 30 21 M5 113 3806 1 1   60  60

812330 75245A[illegible]  [illegible] M251[illegible]3    33   133   134 1111 730313 3369000   9244 87 1 S11 4 730417 2 2 3243 3 020 04 19 024 10 30
       AREA=S[illegible]22 51 54 E[illegible]22 53 27 S[illegible]21 [illegible]8 39 E025 10 12 S018 59 34 E023 10 34 S019 16 28 E025 26 03 M5 113 3806 1 1   60  60

812140 74645A[illegible]  [illegible] 4231[illegible]1    65   134   136 1111 730222 3369000   9249 82 1 S11 4 730328 2 2 2978 3 020 01 58 025 39 44
       AREA=S[illegible]20 49 32 E[illegible]24 23 [illegible]5 S021 [illegible]6 16 E026 39 45 S018 57 11 E024 40 08 S019 14 06 E026 55 37 M5 113 3806 1 1   60  60
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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,



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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:



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| | |
|---|---|
| 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.



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## 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 seenes 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-



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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.



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# ERTS ORDER FORM

(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) $_____

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

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

EDCOM FORM 8 4-24-73
GMF 3M