

E 7.4 - 1 0. 1-8,2
CR-136321

The Cartographic Application of ERTS/RBV
Imagery in Polar Regions

William R. MacDonald
U.S. Geological Survey
Reston, Virginia 22092

**"Made available under NASA sponsorship
in the interest of early and wide dis-
semination of Earth Resources Survey
Program information and without liability
for any use made thereof."**

1 November 1973

Type I Progress Report for Period 1 September 1973 - 31 October 1973

Prepared for:

Goddard Space Flight Center
Greenbelt, Maryland 20771

Publication Authorized by the Director, U.S. Geological Survey

(E74-10182) THE CARTOGRAPHIC APPLICATION
OF ERTS/RBV IMAGERY IN POLAR REGIONS
Progress Report, 1 Sep - 31 Oct 1973
(Geological Survey, Reston, Va) 4 p HC
\$3.00

N74-14048
Unclas
00182

CSCL 08B G3/13

Type I Progress Report
ERTS-A

- a. Title: The Cartographic Application of ERTS/RBV Imagery in Polar
Regions

ERTS/A Proposal No. 149

- b. GSFC ID No. of P.I.: IN 391

- c. Statement and explanation of any problems that are impeding the
progress of investigation:

No imagery has been received from NASA over the Antarctic Region
since March 1973.

The cloud-free imagery that has been received does not provide
complete coverage over any one experimental area in Antarctica.
Therefore, the cartographic products that have been prepared are
incomplete and will be treated as preliminary products.

- d. Discussion of the accomplishments during the reporting period and
those planned for the next reporting period.

Antarctica

ERTS-1 scene, 1174 19433-7, 13 January 1973 was enlarged to 1:500,000
and 1:250,000. Both of the single scene ERTS image products contain
grids and marginal information. Proof copies have been produced.

They are presently being reviewed prior to authorization for printing.

Mosaic preparation continues on the Victoria Land Coast photoimage
strip mosaic, Thwaites Area, and the McMurdo Sound Region.

Arctic

Data request for ERTS-1 imagery not received on automatic distribution was submitted to NASA. This request is being processed and some of the 70 MM images have been received. The images are being analyzed and filed for later mosaic preparation with regard to experiment no. 6, physical map of the Arctic region, 1:5,000,000 scale.

Mosaic preparation continues on the 1:1,000,000-scale Fairbanks, Alaska IMW (Experiment No. 7).

- e. Discussion of significant scientific results and their relationship to practical applications or operation problems including estimates of the cost benefits of any significant results (To be prepared in scientific abstract form of 200 words or less): N/A
- f. A listing of published articles, and/or papers, preprints, in-house reports, abstracts of talks, that were released during the reporting period:

Outline of talk presented at the Discipline Panel Review on the investigations and status of SR-149 experiments. Presentation given at GSFC/NASA, Greenbelt, Maryland, November 1, 1973.
- g. Recommendation concerning practical changes in operations, additional investigative effort, correlation of effort and/or results as related to a maximum utilization of the ERTS system: N/A
- h. A listing by date of any changes in Standing Order Forms: N/A
- i. ERTS Image Descriptor forms: N/A

- j. Listing by date of any changed Data Request forms submitted to
Goddard Space Flight Center/NDF during the reporting period: N/A

- k. Status of Data Collection Platforms (if Applicable): N/A