THE UTILIZATION OF ERTS-I-GENERATED PHOTOGRAPHS IN THE EVALUATION OF THE IRANIAN PLAYAS AS POTENTIAL LOCATIONS FOR ECONOMIC AND ENGINEERING DEVELOPMENT

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7 March 1974

Type I Progress Report for Period 1 January - 28 February 1974

Prepared for:

Goddard Space Flight Center
Greenbelt, Maryland 20771

E74-10415) THE UTILIZATION OF ERTS-I-GENERATED PHOTOGRAPHS IN THE EVALUATION OF THE IRANIAN PLAYAS AS POTENTIAL LOCATIONS (Geological Survey, Reston, Va.) 3 p HC $4.00 CSCL 08H G3/13 00415

Unclas
Type I Progress Report
ERTS-I

a. Title: The Utilization of ERTS-I Generated Photographs in the Evaluation of the Iranian Playas as Potential Locations for Economic and Engineering Development

ERTS-I Proposal No.: SR 195

b. GSFC 10 No. of P. I.: IN 037

c. No problems were encountered during this reporting period.

d. Accomplishments during the reporting period include:

1. Completion of the final report for Proposal No.: SR 195. This report contains analyses of the playas from three areas and consists of 40 pages of text, 35 figures, 4 tables, and references.

2. Completion of contribution to book to be published by the EROS Program, USGS. Contribution consists of one page of text and 3 figures.

e. Scientific results include:

1. Seasonal monitoring of hydrologic conditions at three playa lakes provides a basis for constructing an annual water inventory for these lakes. Although the extreme annual variation in the extent of playa lakes must be considered, the principal periods of their fluctuations are generally constant. Playa lakes provide an important water source for arid-region needs, and their water can be diverted and stored for use during the long, hot, dry summer. At their 1973 maxima, approximately $400 \times 10^6$ m$^3$ and $794 \times 10^6$ m$^3$ of water were available at the lakes at Qom and Neriz Playas, respectively. These lakes adjoin areas of moderately dense population that have severe annual water deficits.

2. A preliminary road alignment across the Great Kaver in north-central Iran has been prepared from an analysis of ERTS-I images of that area from September 2, 1972, through May 12, 1973, a total of 6 scenes. An all-weather road constructed along this alignment could reduce the distance between points north and south of the Great Kavir by as much as 700 km.

f. The following abstract has been published:

g. No recommendations are made at this time.

h. No changes (corrections) were made in the Standing Order Forms during this reporting period.

i. No ERTS Image Description forms have been completed at this time.

j. Data Request forms have not been used during this reporting period.