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BIMONTHLY ERTS-A USER INVESTIGATION PROGRESS REPORT

September 30, 1972

Title of Investigation: Interpretation and Automatic Image Enhancement
Processing Facility

ERTS-A Proposal No. 60-2

Co-Principal Investigators: R. M. Haralick and Gerry Kelly

GSFC PI ID No. UN 317

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R. M. Haralick

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The main objective for the ERTS data processing facility is to provide the opportunity to use the analog and digital processing available at Kansas for all ERTS investigators.

During this report period, several programs have been developed for the digital processing of ERTS-A imagery data using KANDIDATS (Kansas Digital Image Data System). Computer programs completed at this time include: (1) a retrieval program to extract the digital multispectral data from a ground area of interest from the bulk MSS digital tapes supplied by NASA, (2) a program to perform equal probability quantization of the data and (3) a program implement a regression type discrimination algorithm. Programs are currently being developed to implement various boundary enhancement algorithms and registration algorithms.

The analog/digital processing facility IDECS (Image Discrimination Enhancement Combination System) has been utilized by Dr. H. L. Yarger of the University of Kansas and Dr. Ed. Kanemasu of Kansas State University to perform several quick look analysis of ERTS-A imagery. The results of these analyses will be reported by the respective user groups.

At the present time there have been no significant problems that have impeded the progress of the investigation and we do not anticipate any difficulty with conformance of contract work.

