

(EARTH SATELLITE CORPORATION)

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SUMMARY

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ERTS-1 Analysis in the Monterey Bay Area, using digital tapes.

Earth Satellite Corporation and the IBM Corporation have been performing experimental crop classification in the San Joaquin Valley using wholly digital processing of MSS bulk imagery. The main analytical tool for this work has been the computer programs developed by the Laboratory for Applications of Remote Sensing at Purdue University.

Initial crop classification was based upon an inspection of computer-generated shade prints of MSS data taken by the ERTS-1 Spacecraft on July 25, 1972. Results of multi-spectral analysis performed on the basis of the initial classification have been compared with aircraft overflights and ground truth analysis of selected agricultural areas of the San Joaquin Valley. Preliminary results are encouraging. They suggest that elementary crop classification might be possible using ERTS MSS data with little prior ground truth information.

Slides are shown of the computer-generated classification, the aircraft overflights, the ground truth analysis and the relevant ERTS sub-image. Intensity shade prints of the area are also shown. Continuing analysis is proceeding, to substantiate these initial conclusions.

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(E72-10051) ERTS-1 ANALYSIS IN THE  
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