PHOTOGRAMMETRIC ENGINEERING and REMOTE SENSING

Volume XLVI

January 1980

Number 1

COVER PHOTO — A Landsat scene produced directly on the Optronics C-4300 Colorwrite from computer tapes obtained from the EROS Data Center. The scene depicts the Colorado River/Fry Canyon area (mostly southeastern Utah) with data having been arranged to maximize color representation over the full response range of the film. Photo was provided by Optronics International, Inc., of Chelmsford, Massachusetts.

I ECHNICAL ARTICLES
Image Scanner Technology John S. Montuori
Satellite Remote Sensing Markets in the 1980's G. William Spann
Quantification of Changes in Coastal Topography Using Simple Parallax Measurements Harold F. Hennigar
Remote Sensing for Water Quality and Biological Measurements in Coastal Waters Dr. Robert W. Johnson and Dr. Robert C. Harriss
Multispectral Aerial Photography for Wetland Vegetation Mapping William G. Howland
Crop Identification with L-Band Radar Fawwaz T. Ulaby, Percy P. Batlivala, and Janet E. Bare101

(Continued on page 5)

Second-class postage paid at Falls Church, Virginia and at additional mailing offices.

Photogrammetric Engineering and Remote Sensing (ISSN 0099-1112) is published monthly by the American Society of Photogrammetry, 105 N. Virginia Ave., Falls Church Virginia 22046. Publication Office—Everybodys Press, Hanover, Pa. 17331. (Also see Notice on second following page.)

Copyright 1980 by the American Society of Photogrammetry. Reproduction of this issue or any part thereof (except short quotations for use in the preparation of technical and scientific papers) may be made only after obtaining the specific approval of the Editor.

The Society is not responsible for any statements made or opinions expressed in the technical papers, advertisements, or other portions of this Publication.

MEMBERSHIP RATES: Membership in the American Society of Photogrammetry is open to any person actively engaged in the practice of Photogrammetry, Photo-interpretation and Remote Sensing, or who by means of education or profession is interested in the application or development of these arts and sciences. The annual dues for Regular members are \$25.00 which includes a \$10.00 member subscription to the Society's official journal, "Photogrammetric Engineering and Remote Sensing." The annual dues for accredited student members are \$10.00 which includes a \$7.00 student subscription to the official journal.

SUBSCRIPTION RATES: Persons or organizations that are not affiliated with the Society may obtain non-member subscriptions to Photogrammetric Engineering and Remote Sensing in accordance with the following schedule:

Non-member subscription . . . \$30.00 per year (calendar)

Student* non-member subscription . . . \$10.00 per year (calendar)

(*Students must submit evidence of enrollment)

Printed in the United States of America.

(Continued from page 3)

A Seasonal Verification of the Suits Spectral Reflectance Model for Wheat E. W. LeMaster, J. E. Chance, and C. L. Wiegand107

NEWSLETTER127
The Close-Range Column
Engineering Reports116
Professional Placement
14TH INTERNATIONAL CONGRESS OF THE INTERNATIONAL SOCIETY
FOR PHOTOGRAMMETRY, TRAVEL ARRANGEMENTS 46
CIS CONVENTION '80 61
1980 ACSM-ASP Convention
ANALYTICAL PLOTTER SYMPOSIUM AND WORKSHOP
14th International Symposium on Remote Sensing of Environment. 69
CALL FOR PAPERS, 1980 ACSM-ASP FALL TECHNICAL MEETING 70
GEORGE MASON UNIVERSITY NEEDS JOURNALS
Forthcoming Articles
Воок Review, Aerial Archaeology105
Воок Review, Georgia from Space106

SOCIETY AFFAIRS

Officers of the Society	7	
List of Sustaining Members	11	
Handbook of Non-Topographic Photogrammetry	76	
ASP Publications		
ASP Manual Prices1	00	

JOURNAL AFFAIRS

Index to Advertisers	9
What Photogrammetric Engineering and Remote Sensing is	9
Notice to Contributors	75
Journal Staff	.75

NOTICE: Correspondence relating to all business and editorial matters pertaining to this and other Society publications should be directed to the American Society of Photogrammetry, 105 Virginia Ave., Falls Church; Virginia 22046, including inquiries, memberships, subscriptions, changes in address, manuscripts for publication, advertising, back issues, and the MANUALS OF PHOTOGRAMMETRY, REMOTE SENSING, and COLOR AERIAL PHOTOGRAPHY. The telephone number of the Society Headquarters is (703)-534-6617.