Photogrammetric Engineering

Volume XX VII

DECEMBER, 1961

Number 5

Contents

COVER PAGE-Winter photograph of Conifers and northern hardwoods taken with

image motion compensation magazine. Scale 1:1000. Super XX film exposed beneath high overcast near Bangor, Maine. Photo by U. S. Forest Service SOCIETY AFFAIRS List of Sustaining Members Manual of Photogrammetry—Information and Order Form . MANUAL OF PHOTOGRAPHIC INTERPRETATION—Information and Order Form Announcement—The new Index to Photogrammetric Engineering . . .

TECH

Announcement—Photogrammetric Engineering.	66
Announcement—1962 ASCM-ASP Convention	09.
HNICAL PAPERS	
Aerial Photographs Are Obsolete	
Talbert Abrams	69
Comparative Forest Aerial Photo Interpretation Results from Variable-Contrast	
and Single-Contrast Paper Prints	
Hugo H. John and Merle P. Meyer	698
A Test of Polaroid Variable-Color Filters for Forest Aerial Photography	
Merle P. Meyer and Louis H. Trantow	70.
Comparative Usefulness of Three Parallax Measurement Instruments in the Meas-	
urement and Interpretation of Forest Stands	
Karl E. Moessner.	703
A Photographic Study of Aerosol Particles in a Thermal Gradient	
Robert S. Sholtes	710
A Symposium—Human Factors Studies in Image Interpretation	
Harold Martinek and Robert Sadacca, John E. Ranes, Alfred I. Schwartz	
and Joseph Zeidner and Anthony E. Castelnovo	714
Investigation of the Church Method for Orientation of a Single Aerial Photograph	
Donald C. Burditt.	728

(Continued on page 661)

Second-class postage paid at Menasha, Wisconsin and at additional mailing offices.

Published five times a year, during the months of March, April, June, September and December, by the American Society of Photogrammetry, Publication Office, Curtis Reed Plaza, Menasha, Wis., and at Society's Address-1515 Massachusetts Ave., N.W., Washington 5, D. C. The Editor's address is 3523 Raymond St., Chevy Chase 15, Md.

Copyright 1961 by the American Society of Photogrammetry. Reproduction of this issue or any part thereof (except for short quotes in the preparation of technical and scientific papers) may be made only after obtaining the specific approval of the Society's Chairman of the Publications Committee.

The Society is not responsible for any statements made or opinions expressed in the technical papers,

advertisements or other portions of this Publication.

Subscription Rates—No charge to Society members in good standing; \$6 annually for subscribers in the United States and its possessions; and \$6.50 annually, elsewhere. Society pays the postage. Price of individual back numbers—in U. S. and its possessions, \$1.75 per copy for single purchase of 3 or less and \$1.65 per copy for 4 or more; elsewhere \$1.85 per copy for single purchase of 3 or less and \$1.75 per copy for 4 or more. Orders for subscriptions or for individual copies should be sent to the Society's address.

Printed in the United States of America

(Continued from page 659)

Photogrammetric Systems and Operations Research										
E. F. Yost	,		į.				,			733
A Slit-Scan Electro Optical Rectifier										
Samuel W. Levine							,	-		740
Panoramic Progress, Part I										
Itek Laboratories			ž.			4	ž.,			747
Relative Geometric Strength of Frame, Strip and Par										
Victor Abraham				,						755
The Utilization of Constraints in Analytical Photogra										
James B. Case	*					8.0				766
Precision Photogrammetry a Tool of Geodesy										
Hellmut Schmid			*			•	*		\mathbf{x}_{i}	779
Cumulus Cloud Photogrammetry										4000004
Harold D. Orville	٠.				٠.	•				787
Recognition of Tree Species on Air Photographs by C										
L. Sayn-Wittgenstein				2.5	$\tilde{\epsilon}_{0}$	¥.	3:	*	*	792
Levelling the Stereo Model										
G. C. Tewinkel		•								810
Application of Aerial Photographs and Regression Tec	hnic	que	for	Sur	vey	ing	Ca	spia	ın	
Forests of Iran										011
Earl J. Rogers	,	*				*		15	•	811
Journal Administration										
Announcement—Photogrammetric Engineering		W								661
Discussion and Comments										694
Advertising Rates and Information										823
Application for Subscription				,						687
Index to Advertisers					91					663
Index to Photogrammetric Engineering, Vol. XXVII,										817

Announcement

PHOTOGRAMMETRIC ENGINEERING

Important Changes Coming

Those who have been confused by the 5 issues-per-year basis will be highly pleased to learn that the Board of Direction has approved changing to 6 issues per year, that is semi-monthly.

The change will not be fully effective until 1963 with the January issue being numbered 1. In 1962 there will be 5 issues as now. The months of issue will be March, May (formerly April), July (formerly June), September and November (formerly December). For advertising, there will be no change in base rates, frequency reduction, agency commission and also the 2% if earned. Beginning with the second issue in 1962, the closing dates will be changed.