# Photogrammetric Engineering

Volume XXXIII

March 1967

Number 3

# Contents

COVER PAGE—Three methods of displaying the same geographic data using a Calcomp under computer control, with Ann Arbor population summed into 900-foot squares. Top figure is a block diagram with peaks representing height of the "population surface". Middle diagram is a stereopair of computer generated contour curves, Bottom example is a three-dimensional histogram. Block diagram and histogram plots are isometric views with an isometric angle of 35 degrees. Diagrams furnished by Frank J. Rens, University of Michigan.

EC	CHNICAL ARTICLES
	UNAMACE Tests Murrared lindanista May Competed Eging Edward F. Burzynski
	Continuous-Strip Photography  Spencer O. Gullicksen
	Digital Structural Analysis  Vernon N. Jackson
	Photogeologic Interpretation in Antarctica  H. T. U. Smith
	Currents at the Columbia River Mouth  Prof. Alyn C. Duxbury
	Mapping the Ocean Floor  Joachim G. Stephan
	Chronocyclegraphy with a Pinhole Polaroid Camera  Prof. T. A. Preston
	The Critical Path Method  Earle Prescott
	(Continued on page 237)

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

Published monthly by the American Society of Photogrammetry, 105 N. Virginia Ave., Falls Church, Virginia 22046. Publications Office—The George Banta Company, Inc., Curtis Reed Plaza, Menasha, Wisconsin 54952. (The Society Headquarters telephone number is 703-534-6617.)

Copyright 1967 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 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; \$15 annually for all subscribers, postage paid. The price for current issues, beginning with January 1966, is \$3 per copy. For back issues prior to 1967, prices may be obtained from the Society headquarters.

## (Continued from page 235)

IAGS College-Level Training  Merrill R. Brown and Paul E. Norm	an		,							33
Comparison of Elements of Relative										33
NEWSLETTER							,			34
Discussion Notes: Synthetic Aperture Contour	Ca	me	ra	, .						24
Articles for Next Month						,				25
Articles in Other Photogrammetry Journal								>		25
New Publication										25
Meeting Notices										25
Society Affairs	,							·		
List of Sustaining Members New Sustaining Member: Maps, Inc. Emeritus Members MANUAL OF PHOTOGRAMMETRY MANUAL OF PHOTOGRAPHIC INTERPRETATION Board of Direction 1967 Semi-Annual Convention										24 24 24 28 31 24 23
The Photogrammetric Society, London										31
Manual of Color Aerial Photography .										340
Abstracts of Technical Articles Appearing										254 339
Errata										258
Journal Administration Advertising in Photogrammetric Engineer	ING-	—R	ate	es an						260
Index to Advertisers					*			>-	,	339
Notice to Authors										239
Publications Committee										242

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, Manual of Photogrammetry, and Manual of Photographic Interpretation. Telephone: (703) 534-6617.

#### **AERIAL MAPPING INSTRUMENTS**

Kelsh Plotters-Multiplexes

Ideal for Training and Photogrammetric Studies

### METRIC SYSTEMS, INC.

729 East Third Street, Long Beach 12, California HEmlock 775-29

Paid Advertisement