COVER PHOTO



COVER PHOTO—Athens Georgia as rendered by SPOT simulation data, July 3, 1983, at 13:53 (GMT), 08:18 (Local). The ground resolution is comparable to 10 meters. © SPOT Image Corporation; used by permission.



FRONTISPIECE PHOTO—Indianapolis, Indiana, taken July 1984 using a Zeiss RMKA camera with a 152mm lens and 2445 color film.

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 for Photogrammetry and Remote Sensing, 210 Little Falls Street, Falls Church, Virginia 22046. Publication Office—The Sheridan Press, Hanover, Pa. 17331. (Also see Notice on second following page.)

Copyright 1985 by the American Society for Photogrammetry and Remote Sensing. 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.

PHOTOGRAMMETRIC ENGINEERING & REMOTE SENSING



JOURNAL OF THE AMERICAN SOCIETY FOR PHOTOGRAMMETRY AND REMOTE SENSING

AMERICAN SOCIETY FOR PHOTOGRAMMETRY AND REMOTE SENSING
Volume LI August 1985 Number 8
Introduction to SPOT Image Articles Gilbert Weill Cartographic Potential of SPOT Image Data R. Welch SPOT Simulation Imagery for Urban Monitoring: A Comparison with Landsat TM and MSS Imagery and with High Altitude Color Infrared Photography
Robert N. Colwell and Charles E. Poulton
S. D. DeGloria
Marcus X. Porengasser and James V. Taranik
Imagery Martin P. Buchheim, Ann L. MacLean, and Thomas M. Lillesand1115 A Comparison of SPOT Simulator Data with Landsat MSS Imagery for Delineating Water Masses in Delaware Bay, Broadkill River, and Adjacent
Wetlands Steven G. Ackleson, Vytautas Klemas, Harlan L. McKim, and Carolyn J. Merry1123 Managing Mapping Data Using Commercial Data Base Management Software
Atef A. Elassal
Interview: Frederick J. Doyle and Gottfried Konecny1160 Professional Placement1170
Implementing a National Multipurpose Cadaster

(Continued on page 1045)

MEMBERSHIP RATES: Membership in the American Society for Photogrammetry and Remote Sensing is open to any person actively engaged in the practice of Photogrammetry, Photointerpretation, 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 \$40.00 which includes a \$20.00 member subscription to the Society's official journal, Photogrammetric Engineering and Remote Sensing. The annual dues for accredited student members are \$15.00 which includes an \$8.00 student subscription to the official journal. (All memberships are on a calendar year basis.) Add \$5 for all international memberships to cover cost of postage. Postmaster: send address changes to the American Society for Photogrammetry and Remote Sensing, 210 Little Falls Street, Falls Church, Virginia 22046.

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 . . . \$65.00 per year (calendar)

Add \$5 for international subscriptions.

Printed in the United States of America.

PERMISSION TO PHOTOCOPY

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee of \$2.25 through the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale.

(Continued from page 1043)

Society Affairs
Frontispiece: Indianapolis, Indiana1039
Convention Invitation
Gary Kent1040
Win A Free Trip to Indianapolis
Membership Application
Membership Application1047 D
Officers of the Society
Sustaining Members1051
Spot Simulation Applications Handbook
The Photogrammetric Society, London1091
Manual of Remote Sensing, Second Edition1092
Close Range Photogrammetry1102
New Sustaining Members, Collins & Moon Limited and
Dewberry & Davis Ltd1130
New Sustaining Member, SWISSAIR Photo &
Surveys Ltd1131
ACSM-ASPRS 1985 Fall Convention Preliminary
Program1151
Meeting Schedule1172
ASPRS Publications
A Full Account of Cartographic Activities In the U.S1180
In Memoriam: Virgil Kauffman1181
Extraction of Information from Remotely
Sensed Images
In Memoriam: Robert S. Quackenbush, Jr1183
Color Aerial Photography in the Plant
Sciences1184
President's Page, Guest Editorial
Al Quinn1193
Journal Affairs
Permission to Photocopy1045
Index to Advertisers1049
Journal Staff1049
What Photogrammetric Engineering and
Remote Sensing is1049
Instructions to Authors1150
Announcements
Symposium: Remote Sensing for Resource Development
and Environmental Management1114
Meeting: Remote Sensing for Wetlands
Tests Consider Common Pomoto Consider 1120
Tenth Canadian Symposium on Remote Sensing1129
Short Course: Remote Sensing for Geologists
Conference: Optical Remote Sensing From Space1132
Colloquium: Spectral Signatures of Objects in
Remote Sensing
ACSM-ASPRS 1985 Fall Convention1159
ACSM-ASPRS 1986 Annual Convention1167
at any district multiple and other Society publications

Notice: Correspondence relating to all business and editorial matters pertaining to this and other Society publications should be directed to the American Society for Photogrammetry and Remote Sensing, 210 Little Falls Street, Falls Church, VA 22046, including inquiries, memberships, subscriptions, changes in address, manuscripts for publication, advertising, back issues, and the Manuals of Photogrammetry and Remote Sensing. The telephone number of the Society Headquarters is (703) 534-6617.

1045