

PHOTOGRAMMETRIC ENGINEERING and REMOTE SENSING

Volume XLIV

May 1978

Number 5

COVER PHOTO — Quantitative distribution of Chlorophyll *a* in the James River, Virginia, on May 28, 1974, from calibrated aircraft multispectral scanner data. Lowest chlorophyll *a* concentration areas are indicated by dark blue with areas of increasing concentrations by light blue, green, and orange. (See page 617.)

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

Published monthly by the American Society of Photogrammetry, 105 N. Virginia Ave., Falls Church Virginia 22046. Publication Office—Everybody's Press, Hanover, Pa. 17331. (Also see Notice on second following page.)

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Printed in the United States of America.

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