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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

INTERAGENCY REPORT NASA-129

SELECTED BIBLIOGRAPHY

OF

REMOTE SENSING*

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Compiled by

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and

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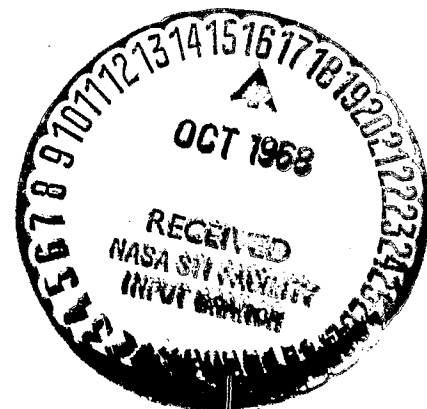
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**Members of Commission on Geographic Applications of Remote Sensing
established by the Association of American Geographers under the
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PREFACE

The objective of this monograph is to present a selective bibliography of publications pertaining to geographic applications of remote sensing techniques with special reference to land use classification and analysis. The monograph is intended to partially fulfill a need within the profession for a select remote sensing bibliography that can serve as a guide to introductory, technical background, applied studies, and data handling literature. The bibliography is therefore grouped into four parts.

Part I consists of a short list of publications which will serve as an introduction to the field of remote sensing and to its geographic applications. A review of these articles should provide an overview of the field and a general background of knowledge, and perhaps stimulate a quest for further understanding.

Part II is a list of technical publications in the field of remote sensing. Items on this list include essential reference materials for those intending to do research or otherwise participate in the field. For this reason both the publisher and the retail price are noted. It is further suggested that a diversified selection of these publications be included in institutional libraries for ready reference.

For more selective reading involving a knowledge of specific remote sensors, types of imagery and data, and electro-magnetic spectrum characteristics, the following classification scheme is

offered. The numbers in each category refer to specific citations in the bibliography of Part II.

- (1) Geographic applications - 1, 13, 26, 33, 36, 37, 38, 39, 40
- (2) Photography - 2, 3, 4, 10, 11, 12, 16, 21, 22, 24 (see also 37-40)
- (3) Radar - 6, 8, 9, 29, 32, 35, 41 (see also 37-40)
- (4) Infrared - 18, 19, 23, 31, 42 (see also 37-40)
- (5) Physics and Optics - 5, 7, 8, 11, 14, 15, 17, 20, 25, 27, 28, 30, 34 (see also 37-40)

Part III is a selected list of publications pertaining to land use investigations using remote sensing techniques. These publications are considered to be of significance to land use research. The listing is not exhaustive but many of the publications cited contain lengthy bibliographies pertaining to additional literature.

Part IV is a selected bibliography of literature pertaining to data handling and automatic data processing techniques. It has been compiled in an attempt to emphasize the revolutionary effect remote sensing has had on analysis and assimilation of geographic data. Geographers find it difficult to handle the quantities of geographic data currently available, yet through remote sensing we will accumulate data at an ever-increasing rate. The only practical means to handle the data is by automation. The references on this list indicate that considerable research has been devoted to the development of automated techniques. Most experts, however, agree that practical applications are still far in the future.

In conclusion, acknowledgments are directed to the staffs of many institutions throughout the United States who are presently

conducting remote sensing research. Without their cooperation in search for reference material, this bibliography could not have been completed.

The finances and impetus for the bibliography were provided in part by the United States Geological Survey through the Commission on Geographic Applications of Remote Sensing of the Association of American Geographers, Contract No. 14-08-0001-10921. This support is gratefully acknowledged.

We trust that those of the Commission who aided this project will share in the credit for this publication, but the authors assume full responsibility for the items included and for errors.

Robert B. Honea

Virginia L. Prentice

East Tennessee State University
University of Michigan
May 22, 1968

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PART IV

TECHNIQUES OF DATA HANDLING AND
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