National Mapping Program

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A Bibliography of

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Earth Resources Observation Systems (EROS) Office

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By Helen L. Bowman

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PREFACE

The U.S. Geological Survey's Earth Resources Observation Systems (EROS) Program was established in 1967 by Secretarial order to plan and develop techniques for collecting and analyzing remotely sensed data, and to apply these techniques to the resource inventory and management responsibilities of the Department of the Interior. U.S. Geological Survey scientists, realizing the potential benefits of synoptic views of the Earth, were among the first members of America's scientific community to press for the launch of civilian Earth-surface observation satellites. Under the leadership of Director William T. Pecora, U.S. Geological Survey initiatives greatly influenced the National Aeronautics and Space Administration's (NASA) development of the Landsat program.

As part of the Landsat program, an agreement between NASA and the Geological Survey was signed to provide Landsat archiving and data production capabilities at the EROS Data Center in Sioux Falls, South Dakota. This partnership with NASA began in 1972 and continued until Presidential Directive 54 designated the National Oceanic and Atmospheric Administration (NOAA) of the Department of Commerce as the manager of U.S. civil operational land remote-sensing activities. NOAA has managed the Landsat program since Fiscal Year 1983, and EROS continues to process, archive, reproduce, and distribute Landsat data under a Memorandum of Understanding between NOAA and the Geological Survey. Archives at the EROS Data Center include over 2 million worldwide Landsat scenes and over 5 million aerial photographs, primarily of U.S. sites.

Since the launch of Landsat 1, global imaging of the Earth's surface has become an operational tool for resource exploration and land management. As technology evolved, so did the EROS Program mission. Research and applications efforts began at the EROS Headquarters Office in the Washington metropolitan area in 1966; at the EROS Data Center in 1971; and at the EROS Field Office in Anchorage, Alaska, in 1980. EROS functions were realined under the National Mapping Division of the Geological Survey in Fiscal Year 1983, when the EROS Headquarters Office was closed. EROS research and applications functions are now conducted by the EROS Data Center and the EROS Field Office in Anchorage. Approximately 50 civil servants and 250 contract personnel carry out the EROS mission of research, development, and technology transfer in remote sensing, geographic information systems, and digital data base applications.

This bibliography is a compilation of publications between 1975 and 1982 by EROS Program personnel and by persons under contract to the EROS Program. Requests for information regarding EROS research and/or publications should be directed to: Chief, EROS Data Center, Sioux Falls, South Dakota 57198.

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AUTHOR INDEX