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7 DEC 1973

MEMORANDUM FOR: Director, NPIC

SUBJECT : Government Funded Facilities Engaged
in Overhead Censor Exploitation for
Civil Application

The number of government agency facilities utilizing remote sensing is quite extensive. Many of these have one or two small projects being carried on depending upon the interests of scientists working at the installation. These facilities which have relatively small roles to play will not be listed since I don't believe they warrant a special visit. The attached list covering the volume of civil effort is divided into three categories: government in-house facilities, government support facilities, commercial contractors who have developed capabilities based on work done with the classified and unclassified systems.



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Lt. Colonel, USA
Deputy Chief
Planning Staff, NPIC

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Government In-House Facilities

NASA

1. The Marshall Space Flight Center, Huntsville, Alabama
2. Mississippi Test Facility, Gulf Port, Mississippi
3. Goddard Space Flight Center, Beltsville, Maryland
4. LBJ Space Flight Center, Houston, Texas

The Marshall Space Flight Center and the Mississippi Test Facility are both involved in projects utilizing high-altitude aircraft (U-2 and RB-57) along with ERTS data for a variety of state, municipal, and regional projects involving agriculture, forestry, urban planning and pollution problems. The Mississippi Test Facility has resident scientists from the Geological Survey, Department of Agriculture, and Department of Commerce. The programs at the Mississippi Test Facility are probably the best cross section of interdepartmental type in operation today.

The Goddard Space Flight Center operates the ERTS Data Processing Center which produces the hard copy photography from ERTS tapes received from Goldstone and Alaska, in addition to the imagery received directly at Goddard. NASA sends the hard copy photography from Goddard to Sioux Falls where it is reproduced and distributed to the public and other government agencies. Goddard also produces limited amounts of imagery for the NASA funded principle investigators. However, the plan is that most users would receive the ERTS imagery from Sioux Falls.

The LBJ Man Space Center, Houston, operates the NASA U-2 and RB-57 aircraft programs. They also process Skylab and Apollo photography. They have limited programs under their management for the exploitation of this material. For example, the lunar maps for Apollo photography are being compiled at the LBJ Space Center and at DMA, however, the lunar mapping program is being run and managed from the LBJ Space Center.

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The contact for scheduling visits to any of the NASA Centers is either [redacted] at NASA Headquarters.

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USGS

1. EROS Data Center, Sioux Falls, South Dakota
2. USGS Facility, Menlow Park, Calif.
3. USGS Facility, Federal Center, Denver, Colo.

The EROS Data Center is the principle center serving the requirements of the federal civil agencies, state and local governments, foreign governments and the general public for ERTS imagery. The functions at the EROS Data Center include reproduction and distribution of ERTS and aircraft imagery, library storage of ERTS and aircraft imagery, and training government, commercial, and foreign personnel on the techniques of exploitation of remote sensing data. The USGS Menlow Park and Denver offices are conducting extensive projects involving the geological interpretation of high altitude aircraft and ERTS imagery. They are also engaged in several mapping programs utilizing these materials.

Contact for visits to any of the USGS facilities is [redacted], EROS Program Office, Reston, Virginia.

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EPA

1. National Environmental Reconnaissance Center, Las Vegas, Nevada
2. Vint Hill Photographic Analysis Center

The EPA Environmental Reconnaissance is engaged in utilizing NASA procured imagery for pollution studies and the application of remote sensed data for enforcement purposes. They also are conducting some R&D to determine types of pollution and sources which can be controlled most efficiently by remote sensing. The Vint Hill Center which will become operational in January 1974 is being set up as a TK Center. This Center's function will be to extract

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information from TK imagery which can be portrayed at the secret or unclassified level and fed to all EPA regional offices. The Center will have the capability for photographic processing and photographic interpretation.

Contact for visits to any of the EPA facilities is EPA Headquarters.

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Government Sponsored Facilities

1. Lawrence Livermore Laboratory, Berkley, Calif.
2. Stanford Research Institute, Palo Alto, Calif.
3. Battelle Memorial Institute, Columbus, Ohio
4. Environmental Research Institute of Michigan
5. Jet Propulsion Labs, Pasadena, Calif.

Livermore Lab

AEC and Department of Interior currently have contracts with the Livermore Lab for remote sensing projects. These involve primarily the use of high altitude imagery for geological studies. The work done at the Livermore Lab utilizes both conventional and TK source material.

Stanford Research Institute

SRI programs have involved Agency sponsored studies along with Department of Commerce, Department of Interior, and AEC specialists working on a variety of civil applications using TK and conventional imagery.

Battelle Memorial Institute

Battelle has been used extensively by the intelligence community, the Department of Agriculture and Department of Interior on studies involving the use of satellite photography for a variety of applications. They currently have contracts with CIA, NASA, and Department of Interior concerning interpretation of multi-spectral imagery and data enhancement.

Contact for visits to Battelle is NPIC's contract monitor or ODE.

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ERIM

ERIM is the new name for the Willowrun Radar Lab, formerly of the University of Michigan. This institute is primarily involved in projects of the Agency and other government agencies dealing with the applications of side-looking radar to both reconnaissance and civil requirements. At the present time their work is about equally divided between NASA and Agency/DoD contracts.

Visits can be arranged either through the Agency contracting officer or the contacts listed for Interior and NASA.

Jet Propulsion Labs

Jet Propulsion Labs has been extensively engaged in digital enhancement of imagery on a variety of programs to include ERTS, lunar survey, and the Mars and Jupiter probes. Frank Billingsly has been in charge of these programs and is considered one of the true experts in this field. Briefings by him or his people should be very worthwhile considering the new system.

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