



Volume 3

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CONGRESS PASSES '68 APPROPRIATIONS

On October 26, Congress passed the appropriations bill containing funds for ESSA. Amounts requested and finally approved are shown below:

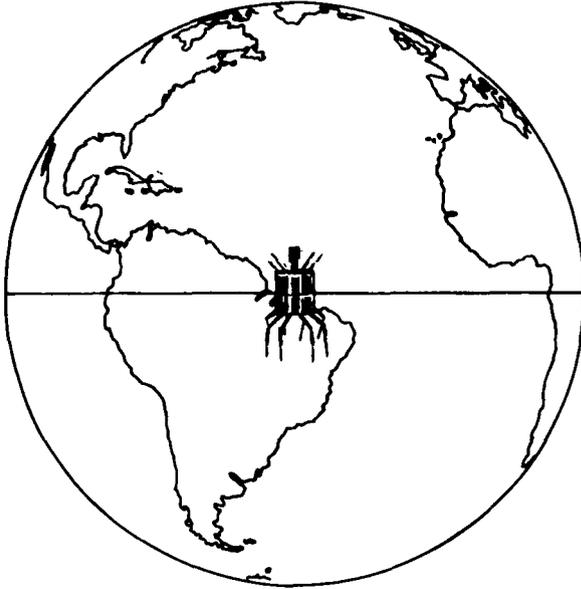
<u>Appropriations</u> <u>(\$ in thousands)</u>	<u>Budget</u> <u>Estimates</u> <u>1968</u>	<u>House</u> <u>Approved</u>	<u>Senate</u> <u>Approved</u>	<u>Final</u> <u>Bill</u>
Salaries & Expenses	113,430	105,000	110,846	105,000
Research & Development	29,979	24,000	26,997	24,000
Research & Development (Special Foreign Currency Program)	750	750	750	750
Facilities, Equipment, & Construction	6,117	5,200	5,710	5,200
Satellite Operations	<u>32,200</u>	<u>28,100</u>	<u>28,100</u>	<u>28,100</u>
Totals	182,476	163,050	172,403	163,050

The President has asked all agencies to reduce expenditures to an absolute minimum in order to reduce the expected Federal deficit this fiscal year. In line with the President's request, all employees are urged to assist in reducing expenditures whenever feasible.

SIXTH ESSA SATELLITE SET FOR LAUNCH

The sixth ESSA spacecraft is scheduled for launching by NASA on or after November 8. The new satellite will carry two Automatic Picture Transmission cameras, which have been modified to prevent the noticeable pattern which appeared in pictures received from ESSA 2 and ESSA 4. The planned orbit is approximately 910 statute miles above the earth.

NEW ATS SPACECRAFT TO CARRY ADVANCED EXPERIMENTS



A third Applications Technology Satellite (ATS) is scheduled for launching by NASA on or after November 3. The new spacecraft is destined for an earth-synchronous orbit over the Atlantic Ocean near the mouth of the Amazon River. Among the experiments aboard the satellite are a color spin-scan cloud camera, an Omega position-location experiment, an image-dissector camera, and VHF and microwave transponders.

The spin-scan camera, developed by the University of Wisconsin and NASA's Goddard Space Flight Center will provide meteorologists with high-resolution, full-color photo-

graphs covering portions of five continents. From the color print it may be possible to obtain cloud-height information at sunrise and sunset by studying the changes in coloring of the clouds at those times. The photos may also be useful in determining the width and location of ocean currents, such as the Gulf Stream.

OPLE, the position location experiment, will test a method of locating fixed or moving platforms on the surface or in the air. The link established for location can then be used to retrieve data gathered from the platform. One of the OPLE electronic packages will be placed aboard the USC&GSS DISCOVERER. Within a few months, the packages are slated for trial on aircraft, balloons, and buoys.

The VHF frequency will be used for a WEFAX (weather facsimile) experiment similar to that performed with ATS-1. In this experiment, data prepared by ESSA's National Meteorological Center and National Environmental Satellite Center are transmitted to the spacecraft and relayed to APT stations within receiving range. Selected spin-scan camera photographs will also be transmitted.

The microwave transponder will permit transmission to television (both color and black-and-white), voice, telegraph, and digital data to several ground stations simultaneously.

The new ATS will be the first spacecraft to carry an image-dissector camera, which scans electronically, rather than mechanically, and would be able to correct itself if one or more of the 1,328 lines per picture were garbled. The image-dissector camera will take black-and-white photographs covering an area of more than 40 million square miles.

DON'T DE-FACE HIM

Wendell V. Mickey, of C&GS' Seismology Division, recently met with representatives of the New Hampshire Department of Public Works and Highways, and the Bureau of Public Roads, in Concord, to discuss a seismic monitoring project on the Old Man of the Mountain, the state's official emblem. The conference was called due to the state's concern about the effects that blasting for a proposed highway will have on the rock formations comprising the Great Stone Face.

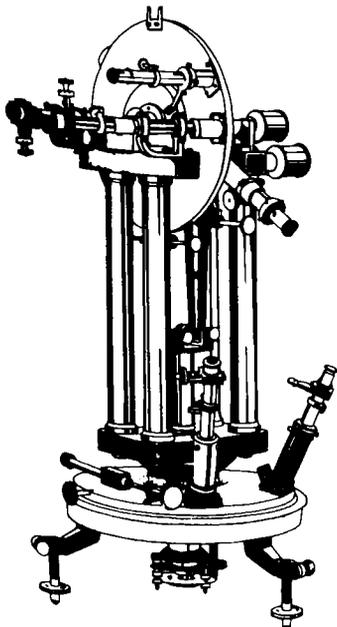
ESSA PUBLISHES WINTER STORM PAMPHLET

Winter Storms, a timely 8-page brochure, has been published by ESSA. The fully-illustrated publication explains in detail the winter forecast definitions of freezing rain, freezing drizzle, ice storms, snow, cold wave, and blizzards, and includes a full page listing winter storm safety precautions. The Wind Chill Index, an indicator of the combined effects of cold and wind upon the exposed parts of the body, is another feature of the brochure.

POMONA WEATHERMAN RECEIVES BRONZE MEDAL

William J. Rogers, principal assistant at WBO, Pomona, Calif., was presented the Commerce Bronze Medal during the annual Agricultural and Fruit-Frost Conference held at Pomona, Oct. 18-20. The award was made in recognition of Mr. Rogers' many noteworthy contributions to the development of the fruit-frost service of the Weather Bureau.

OBSOLETE INSTRUMENT GETS NEW LEASE ON LIFE



A 19th century theodolite, used to measure the angle of inclination of the earth's magnetic field, is being modified by instrument maker John Van den Heurk of C&GS' Fredericksburg Geomagnetic Center, for use by NASA in constructing an instrument that will measure the magnetic field in space. The old theodolite has a highly accurate turntable which will measure precisely the angles between the space instrument's three sensing coils. Modern theodolites would not serve NASA's requirements because they contain steel and do not meet the non-magnetic specifications. The museum piece had been stored on a shelf at the C&GS center, and its existence was brought to NASA's attention by Tom Skillman, a scientist at Goddard Space Flight Center, who had previously worked at Fredericksburg.

REGIONAL DIRECTORS TO MEET NEXT WEEK

WB Regional Directors will meet in Fort Worth Nov. 6-9 to discuss forecast reorganization, the utilization and career development of WB field employees, budget plans and problems, hydrology, and aviation programs, and to review regional plans.

WELCOME TO ESSA

The C&GS Mid-Continent Field Area welcomes Larry Dean Bishop, Andrew J. Lindsay, Robert C. Borden, Bobby D. Mink, Howard Lee Head, Gary D. Lyke, and Francis W. Fowler.

New employees in the WB Central Region are Ramon Orozco, WBAS, Denver; Porter Maxwell Thorne, Central Logistics Supply Center, Kansas City; Elida Margaret Grunseth, WBAS, Bismarck, N. Dak.; and Eugene W. Tolle, NSSFC, Kansas City.

REPORT ON BEULAH DISTRIBUTED

The WB's preliminary report of Hurricane Beulah, one of the great hurricanes of this century, has been printed and distributed. The 74-page report contains a map showing the storm's track, a photograph of Beulah as seen on the radar at Brownsville, narrative, advisories, bulletins, and statements.

SERVICE AWARDS

Length-of-service awards were presented to the following IER personnel during the past month. 30 years - Roderick D. Graham, Wash., D. C., and Mary P. Palmer, RFF, Miami. 25 years - Walter E. Johnson, ITSA, Boulder, and Helen R. Toombs, Silver Spring, Md. 20 years - Richard G. Green and Lucille S. Hayden, both of ITSA, Boulder, and Francis Pooler, Jr., ARL, Cincinnati.

DEATHS

James B. Small, chief of the C&GS Leveling Branch, died Tuesday, Oct. 24. Mr. Small, a veteran of 37 years with C&GS, was for many years chief of the Control Survey Section of the American Congress on Surveying and Mapping.

Floyd C. Chase, storekeeper at the C&GS Mid-Continent Field Area office, Kansas City, died Oct. 23.

Items to be considered for ESSA NEWS must be received by Friday for publication the following Friday. Send material to: Office of Public Information, ESSA, Room 804, Bldg. 5, WSC, Rockville, Md. 20852. Phone (301) 496-8243.

National Oceanic and Atmospheric Administration

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