

Volume 3

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C&GS TAKES PART IN NOISE STUDY

The De Havilland Buffalo aircraft, used in C&GS charting activities, took part in a noise abatement study conducted by the National Aeronautics and Space Administration at Wallops Island, Va., during November. The purpose of the study was to measure human reaction to various types of aircraft noise. Participating aircraft flew in a racetrack pattern, making repeated passes over four microphones and 100 human subjects in and about two typical residential houses. The passes were made at different altitudes and power settings.

AVIATION FORECASTS SENT TO MOSCOW

In preparation for the direct flights between Moscow and New York, scheduled to begin in December, the Weather Bureau station at John F. Kennedy International Airport began test transmissions to Moscow in mid-November of weather information required for west-bound flights.

LOS ANGELES YOC WINS SCIENCE FAIR SWEEPSTAKES



Eugene W. Warren, a 17-year-old Youth Opportunity employee at the Los Angeles Forecast Center, has developed a science project, "Conic Parabola Equation Point Calculator," which won Sweepstakes at the Los Angeles High School Science Fair; third place at the Los Angeles County High School Science Fair; and fourth place at the California State

High School Science Fair. In the photograph (left to right), MIC George W. Kalstrom explains APT satellite photographs to Mr. Warren and student employees Harvey E. Cogen and Rodney B. Lyon.

Give the gift that keeps on giving--U.S. SAVINGS BONDS.

HAM OPERATORS GET ORBITAL DATA

Beginning the week of Dec. 3, information on passes of APT spacecraft over the continental U.S. will be distributed to interested radio amateurs over station W1AW, Newington, Conn. Station W1AW is the headquarters station of the American Radio Relay League, the National Society of Radio Amateurs.

C&GS CREW TO SEARCH FOR LOST ISLAND

A 17-man C&GS crew headed by Lt. Cdr. Archibald J. Patrick will begin a hydrographic survey of Mississippi Sound in December. During the survey, the party will search for a mile-long island, which the U.S. Power Squadron reports to be almost obliterated. The island, Isle au Pitre, appears on existing nautical charts approximately 10 miles offshore, between Pass Christian and Gulfport.

RADAR GOING IN AT CAPE HATTERAS

The newest in WB radar, the WSR-57M, is being installed at Cape Hatteras, N.C., one of the more critical hurricane and winter-storm surveillance sites along the eastern seaboard. Commissioning is expected before Christmas. The radar staff, headed by meteorologist in charge Max Cagle, will consist of Lucy A. Stowe, Robert Brown, James C. Myers, Arthur Sharman, and Paul Gullick.

A COTTON PICKIN' WEATHER REPORT

John L. Baldwin, EDS, editor of the Weekly Weather and Crop Bulletin, has been asked by the House of Representatives Committee on Agriculture to prepare a report on weather conditions in the cotton belt in 1965, '66, and '67. There was a bumper crop in 1965, while 1966 and 1967 saw poor harvests, principally because of unfavorable weather. Mr. Baldwin has been asked to compare the weather of '66 and '67 with that of '65 and of previous years.

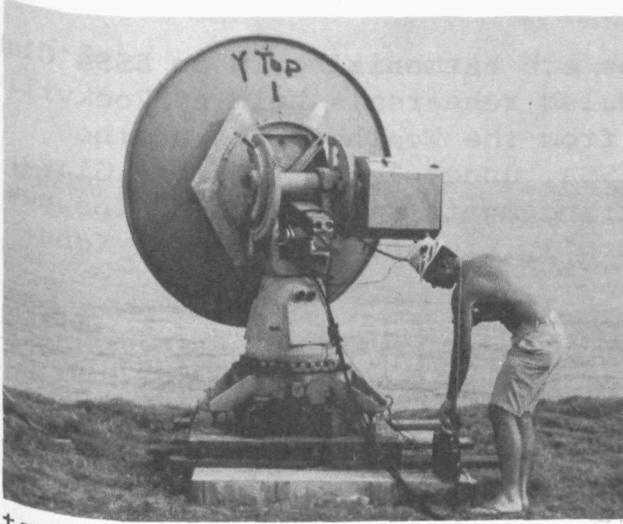
MAP DEPICTS SEA FLOOR

A new C&GS map shows the topography of a 14,700-square-mile area of the sea floor off the Southern California coast. The map, which depicts an area south and west of Santa Rosa Island, is the fourth in a series designed to provide adequate bathymetric coverage of the entire west coast.

NMC BRANCH TRANSFERRED

On Nov. 5, the Communications Branch at the Weather Bureau's National Meteorological Center was transferred to the Communications Division of the WB's Office of Meteorological Operations. Fifty-one positions (11 vacant) were affected by the transfer.

WEATHER EFFECTS ON MICROWAVE TRANSMISSION STUDIED



A team of scientists from the Tropospheric Telecommunications Laboratory has completed a year's study, sponsored by the Air Force, of the turbulent troposphere-- the region in which weather disrupts the accuracy of radio measurement instrumentation. The group, headed by Dr. Moody C. Thompson, Jr., studied pressure, temperature, and water vapor in the atmosphere over Hawaii to determine the turbulence that causes apparent errors in electronic dis-

distance measurements. A radio beam was transmitted along a 40-mile path from a fixed point on the coast of the island of Hawaii to a point 10,000 feet above sea level on Mt. Haleakala on Maui. With the distance between the fixed positions known, any variation in the apparent position of either point could be attributed to atmospheric conditions. Comparisons of the various measurements have led to the development of techniques which can be used to increase the accuracy of missile and tracking systems and of measurement in such fields as seismology and geodesy. (Shown in photo at left) Tom Grady aims microwave antenna toward Mt. Haleakala from Upolu Point, Hawaii, to perform microwave range measurements.

BUREAU MAN BEAUTIFIES BEACH

Robert G. J. Rivard, electronic technician at WBAS Majuro, has initiated a beautification project on the island. In an effort to see the beaches of Majuro clean and beautiful again, he deposited \$20 with the Community Development Office, to be paid to Youth Corps Volunteers at the rate of 25 cents per copra bag of bottles, cans, and rubbish collected from the shores of the Majuro lagoon.

RAVES FOR WRAIGHT

"Our Dynamic World: A Survey in Modern Geography," a 286-page book by C&GS chief geographer Joseph A. Wraight, was enthusiastically reviewed in the September 1967 issue of "The Professional Geographer." Mr. Wraight, the reviewer said, "has managed to do for the field of geography what Rachel Carson did for oceanography." The book "involves the reader in a fascinating search for the forces, both physical and cultural, behind our ever changing world of today." Mr. Wraight's book was published by Chilton Books and sells for \$7.95.

ESSA MAKES MUSIC

Washington-area ESSA components are harmonizing in an ESSA Club dance band, with regularly scheduled rehearsals held at Rockville headquarters. Instrumentalists from the Weather Bureau, the Coast and Geodetic Survey, and ESSA, under leader Raymond Glaser of C&GS, have been working on arrangements and searching for new members for the group which will play free at ESSA social functions in the Washington area.

HOUSTON SURVEY SCHEDULED

C&GS will soon begin a geodetic survey of Houston, Tex., in cooperation with the city. Seven months will be required to establish a network of precisely located horizontal control points in accessible locations throughout the city.

SERVICE AWARDS

Two women meteorologists, who work in the same weather office, will receive their 25-year service pins in early December. Mrs. Virginia H. Carswell, then Miss Virginia Hickman, transferred to Augusta, Georgia, from Spartanburg, South Carolina, in 1946. Mrs. Ruth C. Jolly, then Miss Ruth D. Cooke, arrived in Augusta from Beaumont, Texas, in 1953.

The following WB Central Region employees will become eligible for length-of-service awards in December. 30 years - Carl F. Stefan, Denver. 25 years - John E. Bowers, Springfield, Mo.; Robert E. Douglas, Topeka; Ruth D. Garrison, Kansas City; Truman P. Dingledein, Cairo, Ill.; Donald R. Pittman, Casper, Wyo.; Eugene C. Harris, Chicago; LaVerne M. Wermich, Chicago; Marshall F. Grace, Denver; and Albert Frost, Denver. 20 years - Lawrence K. Eide, Kansas City.

Employees in the C&GS Mid-Continent Field Area eligible for service awards this month are: 35 years - Carl F. Odgers, Kansas City. 25 years - James C. Corbett, Kansas City. 20 years - Charles R. Lesley.

USESSA OFFICER KILLED

Lieutenant (junior grade) George B. Wharton, Jr., stationed aboard the USC&GSS SURVEYOR, was killed Nov. 5 as a result of an automobile accident in Seattle, Washington.

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, Rockville, Md. 20852. Phone (301) 496-8243.

National Oceanic and Atmospheric Administration

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