

VOLUME 3

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### **DISCOVERER JOINS THE FLEET**

The USC&GSS DISCOVERER, sister ship of the OCEANOGRAPHER, will be commissioned tomorrow, Apr. 29, at Commodore Point, Jacksonville, Fla. Dr. Donald F. Hornig, Special Assistant to the President, and Director of the Office of Science and Technology, will be the principal speaker at the 2 p.m. ceremony. Dr. J. Herbert Hollomon, Acting Under Secretary of Commerce, will introduce Dr. Hornig. Captain William F. Deane will assume command of the ship



which is to be based on the east coast. The DISCOVERER and the OCEANOGRAPHER are the largest and most automated oceanographic research vessels in the United States.

### **ESSA 5 SENDS EXCELLENT PHOTOS**

ESSA 5 was successfully launched at 6:21 a.m. EST Apr. 20 from the Western Test Range in California. In an orbit ranging from 840 to 883 statute miles above the earth, the spacecraft crosses the Equator at about 3 p.m. local sun time. First pictures were received Apr. 24 and proved to be of high quality. After being checked by NASA, the satellite will be turned over to ESSA for operational use.

ESSA 2 has emerged from the "twilight zone" and on Apr. 27 was turned on again. APT coverage is now available from two spacecraft, ESSA 2 and ESSA 4.

### **NEW MAPS SHOW ATLANTIC SHELF FEATURES**

A series of 15 bathymetric maps, published by the Coast and Geodetic Survey, depicts the continental shelf from Massachusetts to Maryland. The maps, the most detailed ever published for this area, portray the topography of the seafloor in detail by depth contours at one fathom (six feet) intervals to the 100 fathom curve and 10 fathom intervals to the 500 fathom curve. Submarine features are emphasized by gradient tints. The maps were produced under a cooperative arrangement between the New England Regional Development Commission, the Coast Survey, the Bureau of Commercial Fisheries, and the Commerce Department's Economic Development Administration.

## MIAMI SITE SELECTED FOR EAST COAST LAB

Selection of Virginia Key-Dodge Island, Miami, Fla., as the site of ESSA's East Coast Oceanographic Research Facility was announced Apr. 24 by Acting Secretary of Commerce A. B. Trowbridge. The facility will become a major center for the work of ESSA's Institute for Oceanography and will house three Institute research groups: the Marine Geology and Geophysics Laboratory, headed by Dr. George Keller; the Physical Oceanographic Laboratory, headed by Bernard D. Zetler; and the Sea-Air Interaction Laboratory, headed by Feodor Ostapoff.

Dodge Island, the new seaport of Miami, is a 300-acre island now under construction in the northern end of Biscayne Bay. It is three miles from the open ocean and another three miles from the harbor entrance to the Gulf Stream. C&GS vessels to be berthed at Dodge Island include the DISCOVERER, the RESEARCHER (now being built), and a coastal survey ship.

The Dade County Commissioners are giving ESSA more than eight acres of land on Virginia Key for the laboratory facilities. This site is near the University of Miami Marine Institute, the U. S. Department of Interior's Tropical Atlantic Biological Laboratory, and the Miami Seaquarium.

The site was chosen after a search lasting nearly a year, during which 115 proposed locations were inspected by a Site Evaluation Committee, headed by Dr. Harris B. Stewart, Jr., Director of the Institute for Oceanography. Other members of this committee were A. W. Anderson (IO); Capt. Allen Powell (C&GS); Cdr. Jack Guth (ESSA); Dr. William Wright (ESSA); Loy Shipp and John Dye, General Services Administration; and Dr. John Lyman, a private oceanographic consultant.

Final recommendation to the Department was made by a Site Recommendation Committee composed of Dr. Robert M. White, Administrator; Dr. George S. Benton, IER Director; Rear Admiral James C. Tison, Jr., C&GS Director; and Vice Admiral H. Arnold Karo, retired ESSA Deputy Administrator.

## BRITISH AGAIN JOIN SEVERE STORM STUDY

Mervyn Hardman of the British Meteorological Office is at the National Severe Storms Laboratory participating in the spring severe storm data-gathering operations. Until June 15, he will be working on airborne and ground-based photography of cloud formations associated with severe local weather systems in the Norman, Okla., area. Mr. Hardman's assignment with the Laboratory is a continuation of a cooperative Anglo-American program of meteorological research involving the exchange of scientists and data, now in its third year.

### **RCA GETS CONTRACT FOR IMPROVED TOS**

A contract for four spacecraft of the TIROS M/Improved TOS series was signed by NASA and RCA on Apr. 21. The total contract cost is \$29,837,000, with ESSA funding \$18,100,000. The contract calls for one NASA research and development satellite and three operational (ESSA) spacecraft and supporting ground equipment.

### **12 ATTEND COMMERCE COURSE**

ESSA students at the Commerce Middle Management Course Apr. 17-21 were: Cdr. Leonard S. Baker, User Affairs; Julia Bankovsky, Finance Division; Earl M. Bragonje, C&GS Marine Chart Division; Wesley Irvin, WB Data Acquisition Division; Willard A. Kuncis, C&GS Photogrammetry Division; William Leffingwell, C&GS Electronic Computing Division; Leslie Lenfest, WB Hydrologic Services Division; Ralph Meintel, WB National Meteorological Center; Lloyd R. Rhine, WB Systems Development Office; Roger W. Sherburne, C&GS Seismology and Geomagnetism; Raymond Tomlinson, C&GS Geodesy Division; and Friason Travis, C&GS Aeronautical Chart Division.

### **NINE PROJECTS APPROVED FOR C&GS SHIPS**

Nine proposed oceanographic projects for 1967, to be conducted by universities, outside institutions, and agencies aboard C&GS ships, have been recommended by the Advisory Board on Allocation of Oceanographic Ship Facilities and approved by the C&GS Director.

### **NESC, WB AID POLAR EXPEDITION**

The Satellite Center and the Weather Bureau are cooperating with the Dominion Observatory of Canada during its current expedition to the North Pole. Forecasts of cloud coverage and type are sent twice daily to the expedition members via Alert, N.W.T., Canada. The expedition party flew from Alert to the North Pole. They will return to Alert by means of snowmobile, making precision gravity measurements as they travel. In return for its assistance, ESSA will receive photographs taken with a 180° fisheye lens camera during the expedition, and weather observations made along the way.

### **ESSA ARTIST 'DISCOVERED'**

ESSA exhibit designer Ted Butts was described in the Washington Star of Apr. 16 as "a new art find here." Comparing his work to that of Andrew Wyeth, the Star article reported that his paintings sell so fast he has nothing to exhibit. His pictures are owned by many Washington notables and by the State Department, which displays them in U. S. embassies around the world.

## **DROUGHT CONFERENCE SET**

Seven ESSA scientists will participate in a Conference on the Drought in the Northeastern United States, to be held at Tuxedo, N.Y., May 15-17, under the sponsorship of the New York State Science and Technology Foundation. Scheduled to present papers are Jerome Namias, Chief of the WB Extended Forecast Division; Gerald L. Barger, Director, and Wayne C. Palmer and J. Murray Mitchell, Jr. of EDS' Laboratory for Environmental Data Research; Norman L. Canfield, Eastern Regional Climatologist; Glenn W. Brier, IAS; and O. D. White, WB Hydrologist in Charge, Harrisburg, Pa.

## **PERIPATETIC PARTIES**

A survey party, headed by Eugene T. Ogilby, was scheduled to arrive in Knoxville, Tenn., about Apr. 27 for a three-week survey of McGhee-Tyson Airport.

Party G-3, headed by J. A. Joll, is at Beltsville, Md., preparing its satellite triangulation equipment for a move to Thursday Island, Australia, where the party will conduct PAGEOS observations for the worldwide satellite triangulation program.

C&GS geodetic field parties scheduled to move in May are: G-20 from Lyons, Kans., to Fargo, N. Dak.; G-21 from Stephenville, Tex., to Williston, N. Dak.; G-23 from Verona, Miss., to the Baudette, Minn., vicinity; G-31 from Houston, Tex., to Chandler, Minn.; G-32 reactivated in southern Oregon; G-34 from Childress, Tex., to the Glendive, Mont., vicinity; G-37 from Panama City, Fla., to north central Ohio; G-38 from Chandler, Ariz., to Kentucky; G-46 from Italy to Japan; G-48 from Brenham, Tex., to North Dakota; and G-49 from Killeen, Tex., to North Dakota.

## **WB, IER COOPERATE TO IMPROVE STORM PREDICTION**

The Weather Bureau and the Institutes for Environmental Research have signed a Memorandum of Understanding under which the Techniques Development Laboratory, Systems Development Office, will transfer funds and lend positions to the National Severe Storms Laboratory to establish a new research unit at Norman, Okla., to improve the prediction and understanding of severe local storms and tornadoes. The technical program will include the following tasks: (1) studies of dynamical and numerical models of the atmosphere in relation to operationally feasible techniques for prediction of severe storms; (2) reexamination of existing forecast and diagnostic aids directed to clarification of their importance and their utility for predicting severe storms and associated hazards; and (3) review and development of operational techniques for analysis of the current state of the atmosphere to use all available data more effectively.

### **McGREW JOINS WB SYSTEMS DESIGN GROUP**

Russell G. McGrew has joined the Weather Bureau's Systems Development Office as Program Coordinator for Long Range Design in the Systems Plans and Design Division. Mr. McGrew was chief climatological consultant to the Strategic Air Command for more than five years. He is a graduate of Westminster College and holds a degree in meteorology from New York University.

### **G-18 GETS TEXAS-SIZE WELCOME**

Geodetic field party G-18, under Lieutenant John W. Carpenter, received a royal welcome when they moved in March to Childress, Tex. They were photographed and interviewed for newspapers, radio, television, and the party's 85 men, women, and children were honored guests at a reception sponsored by the Chamber of Commerce.

### **AMOS V UNDER OBSERVATION**

A six-month test of AMOS V (Automatic Meteorological Observing System) equipment was scheduled to begin in April at Washington National Airport and in May at Chicago-O'Hare and Salt Lake City airports. The equipment will be evaluated for its ability to alert observers to significant weather changes, to take reliable routine observations, and to reduce the amount of time observers must spend in assessing the weather.

### **ISRAEL, INDIA PLAN DATA CENTERS**

Joel Campbell and Leon Park of C&GS' Office of Seismology and Geomagnetism and Herbert Meyers of EDS left for Israel and India Apr. 14, to discuss plans for the establishment of service and data center activities in connection with the World Wide Network of Standardized Seismograph Stations.

### **SPREADING THE SAFETY WORD**

One of the jobs of the staff at the National Severe Storms Forecast Center in Kansas City is to encourage tornado preparedness. In the first three months of 1967, NSSFC representatives have spent 240 man-hours visiting local officials and civic and school groups. They have given 78 talks to 3000 people, made 13 television appearances, and traveled 3000 miles carrying the preparedness message to rural counties near Kansas City.

### **NOW HIRMAN HAS A PEAK**

An Antarctic mountain has been named for ITSA physicist Joseph W. Hirman, who scaled the granite peak while serving as Scientific Leader at Eights Station during 1965-66.

### **SOUTHERN NEIGHBORS MAY AID SATELLITE PROGRAMS**

Dr. William O. Davis, Office of Science and Engineering, served as the ESSA representative on a NASA-led task force which visited Rio de Janeiro and Mexico City to discuss possible future cooperative programs with Brazil and Mexico involving the use of satellites to evaluate and locate earth resources. ESSA is concerned with aspects of the program relating to oceanography, hydrology, and geodesy. Proposed participation by Brazil and Mexico includes furnishing of ground facilities and personnel for calibration of aircraft and satellite-borne sensors.

### **DAVIDSON CRASHES ISLAND PARTY**

USC&GSS DAVIDSON put in at Christiansted, St. Croix, Virgin Islands, at the end of March to set up a Hi-Fix station for a combined hydrographic and oceanographic project in the area. Finding the islanders in the midst of a celebration marking the purchase of the Virgin Islands from Denmark, DAVIDSON joined the festivities. Open house was held aboard ship on April 1 and 2.

### **HONORS FOR ESSA MEN**

Richard Dightman, meteorologist in charge of the Helena Weather Bureau station, has been appointed by the Governor of Montana to the State's Air Pollution Control Advisory Council.

Captain Marvin Paulson, chief of Administrative and Technical Services at WB Western Region Headquarters, has been reelected to the Governing Board of the United States Power Squadrons.

Edmund D. V. Dickey, IER placement officer, has been appointed to the Colorado Governor's Committee on Employment of the Handicapped.

Samuel Smith, chief of the Administrative Branch at WB Eastern Region Headquarters, received a "Silver Award" from the Greater New York Fund for his participation as employee chairman in their fund-raising campaign earlier this year.

### **MORE PARTIES ON THE MOVE**

A satellite camera triangulation party has left icy Thule, Greenland, for sunbathed Christmas Island. Three additional parties were scheduled to move in April from Catania, Sicily, to Easter Island, Chile; from Tromso, Norway, to Beltsville, Md.; and from Hohenpeissenberg, West Germany, to Pago Pago, American Samoa.

A field party headed by Lieutenant (j.g.) James L. Murphy was scheduled to begin a survey of Newark, N. J., Airport on Apr. 15.

## **OUR OWN JET SET**

C&GS personnel who maintain the seismograph network in 68 countries are among the most traveled men in the world. During a recent typical month they visited stations at Howrah and Shillong, India; Charters Towers, Adelaide, and Mundaring, Australia; Shiras, Tabriz, and Meshed, Iran; Lembang, Indonesia; Quito, Ecuador; and Copenhagen, Denmark. The maintenance crew works out of the Survey's Albuquerque (N. Mex.) Seismological Center.

## **ALASKANS GATHER FOR SATELLITE SEMINAR**

Vincent Oliver, chief of NESC's Application Group, conducted a seminar at WB Alaska Region Headquarters this week. Bureau personnel from Annette, Fairbanks, Juneau, and Nome were among those attending the sessions on synoptic interpretation of APT satellite data.

## **SYMPOSIUM SET FOR 1968**

James H. Nelson, chief of the C&GS Geomagnetism Division, has been named chairman of the local arrangements committee for an international symposium on "Description of the Earth's Magnetic Field", to be held in Washington in 1968. Announcement of the symposium was made by the International Association of Geomagnetism and Aeronomy.

## **ACTIVITIES HERE AND THERE**

William H. Haggard, Director of the National Weather Records Center, is conducting a 13-week course on weather for the Asheville (N.C.) Squadron of the U. S. Power Squadrons.

Tucson meteorologist in charge Robert L. King discussed career opportunities in ESSA at the National Conference on Aerospace Education meeting in Tucson, Mar. 30 - Apr. 1.

Lieutenant (j.g.) Carl Fisher, on detail to the Atlantic Marine Center, spoke Mar. 31 at the State University of New York Maritime College, on the Gulf Stream studies.

Charles L. Bristor and Edward W. Ferguson of NESC discussed applications of satellite data at the Air Weather Service-sponsored Techniques Development Conference held at the Naval Postgraduate School, Monterey, Calif., during the week of Apr. 3.

Robert W. Schloemer (Deputy Director of EDS), Lothar A. Joos (EDS), and Ralph H. Frederick (WB) served as judges for the Earth and Astronomical Sciences Division of the annual Prince Georges County (Md.) Science Fair, Apr. 15 - 18.

### **OBSERVERS HONORED FOR 60-YEAR SERVICE**

Carlos A. Call of Fort Ross, Calif., was honored at a dinner in Santa Rosa Apr. 20 on the completion of his 60th year as a cooperative weather observer for the Weather Bureau. Mr. Call, the first 60-year cooperative observer in California history, received a congratulatory letter from President Johnson at the ceremony.

Another 60-year cooperative observer in the Western Region is Walter O. Eckert of Grapeview, Wash. Mr. Eckert, who will be 90 this summer, will receive his length-of-service award and a letter from President Johnson at ceremonies in Shelton, Wash., on May 2.

### **SWANSON ATTENDS VENICE CONFERENCE**

Captain L. W. Swanson, C&GS Project Manager of the Geodetic Satellite Program, will attend a meeting of the Western European Subcommission of the International Commission for Artificial Satellites in Venice, Italy, Apr. 29 - May 7.

### **WHITE SANDS SURVEY AID DIES**

Donald Halstengard, 26, a surveying aid with C&GS Special Projects Party G-57 at White Sands Missile Range, was killed Saturday Apr. 22 in a highway accident. Mr. Halstengard worked for C&GS in 1962-63 and had worked at White Sands since August 1964.

### **SERVICE AWARDS**

Length-of-service awards were presented Apr. 12 to the following personnel of C&GS' Marine Chart Division: Raymond H. Carstens, 35 years; Herbert W. Burgoyne, Cyrus R. Helmer, Alexander J. Hoffman, and Clyde A. White, Jr., 25 years; and Milton A. Lightfoot, Jr., and Helen M. Quimby, 20 years.

WB Western Region personnel who received service awards in March were: 25 years - Ernest E. Beckerleg, San Francisco; Eugene S. Bradley, Eureka, Calif.; Richard B. Graves, Eugene, Oreg.; and Thomas E. Keough, San Francisco; 20 years - David M. Fehling, Seattle; Aran Markarian, San Francisco; and Devon D. Smith, Salt Lake City.

A 30-year pin was presented to Frank S. Farquhar of ESSA's Scientific Information and Documentation Division in a ceremony at his home where he is convalescing.

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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, 6010 Executive Blvd., Rockville, Md. 20852. Phone (301) 496-8243.

# **National Oceanic and Atmospheric Administration**

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