



VOLUME 2 NUMBER 14 APRIL 15, 1966

**ITSA SPACE STATION RIDES THE WAVES**

The Institute for Telecommunication Sciences and Aeronomy's Space Disturbance Monitoring Station, located at Elmendorf Air Force Base (Anchorage), has a new installation which is improving the station's capability to report disturbances in the space environment. The riometer measures absorption of radio waves above Barter Island, Alaska. A riometer's signal is converted to an audio tone, which is transmitted over a microwave telephone circuit to the Anchorage station. There, the tone is converted back to its original form so that a continuous real-time record is available for comparison with local records of ionospheric absorption. Plans call for the installation of additional riometers between Anchorage and Barter Island. Weather Bureau personnel operate the equipment at Barter.

**SAVINGS BOND CAMPAIGN KICKED-OFF**

The "1966 Star-Spangled Savings Bond Campaign" was held yesterday. Secretary John T. Connor signed a bond application form at a rally held in the Departmental Auditorium. The program included the United States Marine Corps Flag Pageant, the premiere showing of a new film "Twenty-Five Years of Savings Bonds" narrated by Miss Lucille Ball, a film message from President Johnson and a personal appearance by TV actor John Forsythe.

**ESSA AIDS GEMINI 8 FLIGHT**

The Weather Bureau's Spaceflight Meteorology Group reports that ESSA 1 and 2 photographs gave the most complete worldwide weather coverage ever available to support a manned spaceflight during Gemini 8 mission last month. As a regular procedure, forecasts are made for two or three possible emergency landing areas during each of the spacecraft's orbits around the earth. These forecasts are given to the NASA Flight Director and his staff at Houston, Tex. One such forecast, issued by the Group's Honolulu representatives, became vitally important after Gemini 8's crisis in space, and prediction of good weather in the reported area was a factor in its selection as the emergency landing site.

**HYDROGRAPHER SURVEYS FLORIDA WATERS**

The ESSA (C&GS) ship Hydrographer is making a three-month survey of the waters between Daytona Beach and St. Augustine, off Florida's East Coast. Expected to sail 10,000 miles on the project, the ship is collecting data to update nautical charts for safe navigation. In addition to the charting project, the Hydrographer will conduct oceanographic studies off Daytona Beach and the St. Augustine Inlet. The survey is part of a continuing ESSA program to chart the ocean floor in United States coastal waters. The Hydrographer began the Florida East Coast project in 1963 and has progressed northward to the Daytona Beach area. In August of this year the ESSA ship Peirce will work southward from Charleston, S. C. -- the intervening waters will be surveyed during the next decade.

### WARM WATER RAISES EYEBROWS

The ESSA (C&GS) ship Explorer discovered a warm eddy about 50 miles in diameter in the Atlantic Ocean during Gulf Stream investigation. Temperature gradient between the eddy and surrounding water was approximately 5°C. The Explorer and the Naval Oceanographic flight facility will make further studies of the area this month.

### ESSA CORPS ON PARADE

Lt. Bruce I. Williams has been named commanding officer of the ESSA (C&GS) hydrographic survey ship Patton, which sails this month to make surveys in Alaskan waters. Williams was commissioned in 1960 and since has served on three C&GS ships and headed a C&GS geodetic field party. Lt. Archibald J. Patrick has been appointed to head a 17-man C&GS hydrographic field survey party in Texas, with headquarters at Galveston. The party is surveying Galveston Bay and surrounding bodies of water to provide new nautical chart data. Patrick joined the commissioned corps in 1960, has served on five C&GS ships, and was chief of an airport survey party. Lt. Raymond L. Speer is currently serving as pilot and navigator on an air photo mission for C&GS' Photogrammetry Division.



### DROUGHT IS SUBJECT OF TALK

Jerome Namias, chief of the WB's Extended Forecast Division, was one of the principal speakers at the meteorological drought analysis conference held last week at Austin, Tex. (ESSA News No. 12, April 8). Namias spoke on "Drought as a Manifestation of the General Circulation." He discussed the circulation aspects of the current drought and its oceanographic association, as well as other droughts.

### ASOMS MEET IN KC

Aviation services and quality control activities were reviewed at a national conference of Aviation Service Operations Meteorologists (ASOM's), held at the Weather Bureau Regional Office in Kansas City, Mo. ESSA Director of Aviation Affairs N. A. Lieurance attended some sessions; S. V. Wyatt, Chief of Flight Services Quality Control for the Weather Bureau (Washington) was conference chairman, Charles Woffinden of the WB's Kansas City Regional Office opened the conference, and R. H. Reece from Washington WB participated in the meetings. Each ASOM chaired one conference session -- George Yount, New York City; Howard Martin, Kansas City; Joe Sassman, Ft. Worth, Tex.; Charles Inskip, Salt Lake City, Utah; John Kuhn, Anchorage, Alaska; and Rue Rush, Honolulu. Federal Aviation Agency representatives were present, along with other WB officials, to discuss cooperative ESSA-FAA programs.

### HIGHER LOOK AT UPPER ATMOSPHERE

The U. S. Committee on Extension to the Standard Atmosphere (COESA) is publishing a new volume which details the earth's atmospheric properties at all altitudes up to 600 miles. Sponsored by ESSA, the National Aeronautics and Space Administration, and the Air Force Cambridge Research Laboratories, the new publication ("U.S. Standard Atmosphere Supplements, 1966") supplements a 1962 volume, also issued by COESA, which tabulates the atmosphere up to about 400 miles. Data for the 1966 study were gathered primarily through precise tracking of artificial earth satellites and instrumented rockets and satellites. Dr. Sidney Teweles, of ESSA's Institute for Atmospheric Sciences, is a co-chairman of COESA.

### WEATHERMISS TALKS SATELLITES AT MARS HILL



Miss Mary Ann Ruzecki, a meteorologist at the National Environmental Satellite Center, Suitland, Md., spoke on meteorological satellites and numerical weather prediction at Mars Hill College, N. C. She discussed the development of meteorological satellites and showed photographic slides taken during the Gemini 4 mission.

### ESSA FIELD APPOINTMENTS MADE

George E. Moore has been named to head the Coast and Geodetic Survey's Boston Field Office. He replaces Capt. William F. Deane who is assuming command of the ESSA (C&GS) ship Discoverer to be commissioned later this year. In his new position, Moore coordinates C&GS activities in New England covering oceanography, geodesy, photogrammetry, cartography, geomagnetism, and seismology. The Weather Bureau announced two new Meteorologists in Charge (MIC's): Dale Harris will be MIC at the Weather Bureau Office in Pomona, Calif.; and Robert J. Babb (currently MIC at Rochester, Minn.) will report as MIC, Weather Bureau Airport Station, Lansing, Mich., in early May.

### FIRE/WEATHER IS HOT TOPIC

A fire-weather conference, sponsored by the Weather Bureau's Western Region, was held at Portland, Ore., to promote close working relationships between forester and fire-weather meteorologists. H. H. Bedke, Western Regional Director, addressed the conference, as did O. R. Warner, Leonard Snellman, L. H. Magar, and H. E. Root -- all of the Western Regional Office. Dr. L. C. Rainiere from ESSA's Office of User Affairs also attended the meeting.

### USER SERVICES REPS TO MEET

Plans have been announced for the Second Annual Conference of Regional User Services Representatives to be held May 3-6. The meeting will permit WB service program leaders and planners in Washington to exchange views on requirements with user services representatives for all six WB regional offices on the mainland, Hawaii, and Alaska. In addition to specific discussions on WB service program operations and plans, one day will include briefings by leaders of other ESSA service activities in the C&GS, EDS, ITSA, and ESSA Public Information Office.

### DATA PROCESSING REVIEWED

 A conference of Regional Substation Management Section (RSMS) chiefs was held at the National Weather Records Center in Asheville, N.C. Data processing and other procedures were reviewed by the following RSMS chiefs: George S. Stephenson, Weather Bureau Eastern Region; Davis S. Hill, Southern; Oliver M. Asp, Central; Alvida Nordling, Alaska; and William J. Taliaferro, Hawaii. Other officials attending were from ESSA's Environmental Data Service and the WB's Data Acquisition Division.

### C&GS VISITS NORTHERN NEIGHBORS

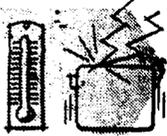
C&GS satellite triangulation parties are now occupying the following stations in Canada: Goose Bay, Labrador; Timmins, Ontario; and Lynn Lake, Manitoba.

### SCIENTISTS CONVERGE ON ANTARTIC CONVERGENCE

Charles L. Roberts, Jr., Special Assistant for Polar Affairs, Overseas Operations Division, has been named as the National Science Foundation's representative aboard the Antarctic research vessel USNS Eltanin for cruise No. 23. Roberts will coordinate scientific programs on the ship which departed Punta Arenas, Chile, March 28. The cruise will end around June 1 in New Zealand. During the South Pacific voyage, the Eltanin will cross the Antarctic Convergence 16 times permitting 38 scientists to study it in detail. The scientific programs are supported by the National Science Foundation and include an ESSA managed program in synoptic meteorology.

### ENGINEERS FIGURE NUMBERS WILL TALK

The Washington Engineering Division will soon conduct a 90-day test at WBAS, Washington, of a device that will convert digital readings from meteorological instruments into voice for transmission over telephone lines. Plans are to connect it to the ceilometer and transmissometer at Washington National Airport for remote interrogation at the division's office.



### CLIMATE MAPS PUBLISHED

Hot off the press is the Office of Data Information (EDS) booklet "Selected Climatic Maps of the United States." It consists of 27 maps that cover everything from annual precipitation and summer sunshine to freeze-free days and winter snow. They're priced at 25¢ and are available through the Government Printing Office.

### VETERAN ESSA OFFICERS RETIRE

Captain Horace G. Conerly and Captain Edgar F. Hicks, two Coast and Geodetic Survey officials, retired last month. Each officer had almost 36 years' service in the Federal Government. At the time of retirement, Hicks was C&GS Director of Executive and Technical Services; Conerly was Associate Director of the Office of Hydrography and Oceanography.

### FORECASTERS BRACE FOR HURRICANES

The annual Interdepartmental Hurricane Conference was held this week at San Francisco to plan the 1966 season tropical cyclone forecast service in the North Pacific. Weather Bureau Western Regional Director H. H. Bedke attended the meeting along with other WB representatives and officials from the Air Weather Service and Naval Weather Service. Arthur F. Gustafson, meteorologist in charge of San Francisco's WBAS was chairman of the conference.

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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 1021, Bldg. 5, WSC, Rockville, Md. 20852. Phone (301) 496-8193.

# **National Oceanic and Atmospheric Administration**

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