


 The logo for ESSA NEWS, with 'ESSA' in a large, bold, black font and 'NEWS' in a smaller, outlined font below it.

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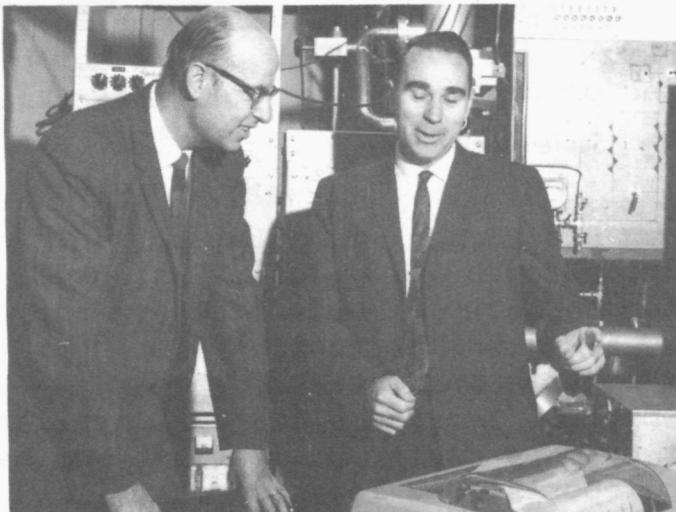
HAM OPERATORS KEEP TAB ON BEULAH

As Hurricane Beulah lashed into Brownsville, Tex., last week blanking out normal communications channels, a dedicated group of radio hams kept the city's Weather Bureau facility "on the air" transmitting hourly radar reports and surface weather observations. Arthur Ross, a member of the Radio Amateur Civilian Emergency Service (RACES), set up shop at the Brownsville weather station and began transmitting reports when local power failed Sept. 20. Mr. Ross's broadcasts were picked up by several other stations in the RACES network and relayed to William A. Kuning, who was operating the Weather Bureau Radio Club amateur station at the Bureau's Silver Spring, Md., headquarters. Mr. Kuning fed the reports to the Emergency Warnings Branch, and they were then passed on to the National Hurricane Center in Miami. Other ham operators who helped the Weather Bureau keep tabs on Beulah when all other communications failed were William Hale of San Antonio, the men of the Military Amateur Radio Station at Randolph Air Force Base, and W5WQM in Bryan, Tex., who identified himself only as "Mike."

COMMERCE FELLOWS SELECTED FOR 67-68

Eight ESSA men are participating in the Department of Commerce Science and Technology Fellowship Program for 1967-68. After an intensive educational and orientation program, they will work in other agencies, in activities related to their specialities. The Fellows, and their agency assignments for the coming year, are: ESSA - Howard L. April, Department of State. Weather Bureau - Edward W. Bisone, Office of State Technical Services, Commerce; Arthur R. Kneer, National Bureau of Standards. Coast Survey - Frank H. Branca, National Bureau of Standards; Everett H. Ramey, Office of Hydrology, Weather Bureau. National Environmental Satellite Center - Jerry C. Glover, National Aeronautics and Space Council; Holmes S. Moore, President's Commission on Marine Science, Engineering and Resources. Institutes for Environmental Research - Paul I. Wells, Office of World Weather Systems, ESSA.

✓ FERGUSON TO HEAD AERONOMY LAB



Dr. Eldon E. Ferguson has been named director of IER's Aeronomy Laboratory, succeeding Dr. E. K. Smith. Dr. Ferguson, who has headed ITSA's Atmospheric Collision Processes section, received his Ph.D. in physics from the University of Oklahoma. Before joining the Boulder laboratories in 1962, he worked in private industry and for the Naval Research Laboratory and served on the faculty of the University of Texas. In 1965, he received the Com-

merce Gold Medal for his work on the atomic and molecular processes in the upper atmosphere. In the photograph, Dr. E. K. Smith (left) and Dr. Eldon E. Ferguson discuss scientific data in the Atmospheric Collision Processes laboratory.

ESSA SWEEPS ART SHOW

ESSA employees and their spouses walked away with most of the honors in the Fifth Department of Commerce Art Show, sponsored by the Commerce Welfare and Recreation Council. ESSA winners in the five categories were: Oils - Joanne Dvorak, first prize. Water colors - Helen B. Vogt, second prize; Beulah Ramey, third prize and honorable mention. Pastel drawings and graphics - Robert G. Hall, first prize; Shirley Harnish Ganse, second prize; Arthur F. Lamay, third prize; and Edward F. Beisel and Dorothy E. Allen, honorable mention. Sculpture - Dorothy E. Allen, first prize; Joanne Dvorak, second prize; and Wendell P. Taylor, third prize. Ceramics - Vernon Dvorak, second prize; and Joanne Dvorak, third prize. Edward F. Beisel also won the popular vote prize, which was offered for the first time this year. Mrs. Alexander B. Trowbridge, wife of the Secretary of Commerce, presented the awards in a ceremony held Wednesday, Sept. 27.

✓ BOOK ON ESSA PUBLISHED

"The Environmental Science Services Administration," a 278-page book by Roy Popkin, has recently been published by Frederick A. Praeger. The book reviews the history and functions of ESSA and its components, and also contains a section on career opportunities. Mr. Popkin has been an official of the American Red Cross for more than 20 years.

EXPEDITION TO ANALYZE NODULES ON OCEAN FLOOR

Oceanographers from ESSA's Land and Sea Interaction Laboratory (LASIL) will conduct a survey in October of manganese nodule deposits on the ocean floor off the southeast U.S. coast. The primary purpose of the survey is to determine the concentration of elements in manganese nodules at 62 locations on the northern Blake Plateau, a submerged area 75 to 120 miles off South Carolina, Georgia, and Florida. The USC&GSS DISCOVERER will leave from Norfolk, October 2, for the 15-20 day survey. Bruce Grant will serve as chief scientist of the expedition, assisted by David Tyler. In addition to the LASIL oceanographers, scientists from NASA and Florida State University will participate in the survey, making a wide variety of chemical tests on the nodules.

AUSTRALIANS WELCOME OCEANOGRAPHER

The globe-circling USC&GSS OCEANOGRAPHER received her biggest welcome when the vessel reached Fremantle, Australia. More than 3000 visitors attended an open house aboard ship. Capt. Arthur L. Wardwell, the ship's commanding officer, and Vice Adm. H. Arnold Karo (Ret.), the expedition director, were received by the Lord Mayor and the City Council. Adm. Karo addressed an overflow crowd at the Rotary Club, and Dr. Robert Dietz was a guest speaker at the University of Western Australia.

JOHANNESSEN ON PACIFIC TOUR

Karl R. Johannessen, WB Associate Director, is visiting the Pacific Region Sept. 24 - Oct. 4. Accompanied by Brig. General William Martensen, Commander, 1st Strategic Aerospace Division of the Strategic Air Command, Mr. Johannessen will tour installations at Eniwetok, Kwajalein, and Johnston islands. Other members of the inspection group include Kenneth M. Nagler, chief of the WB Space Operations Support Division, Norman Asbridge, WB Western Test Range Coordinator, and Col. Robert F. Durbin, Commander of Detachment 30, 6th Weather Wing, Vandenberg Air Force Base, Calif. Mr. Johannessen also will spend a week in Hawaii visiting Pacific Region Headquarters and facilities at Honolulu, Lihue, Barking Sands, Kahului, and Hilo and also the Mauna Loa Observatory.

BRITISH SCIENTIST COMPLETES YEAR AT ESSA LAB

Dr. F. Barry Smith, research meteorologist, British Meteorological Office, has returned to England after spending a year at IER's Atmospheric Turbulence and Diffusion Laboratory in Oak Ridge, Tenn. Dr. Smith's principal area of research during his stay at the ATDL was the various theoretical aspects of the motion of particles in a turbulent atmosphere.

MARITIME COLLEGE SENIORS TOUR ESSA

Seventeen senior cadets of the 1968 graduating class from the Maritime College, State University of New York, visited ESSA Sept. 18-22 to obtain information on the current activities of the various ESSA components in the meteorological and oceanographic sciences. The cadets are enrolled in a curriculum leading to a B.S. degree in meteorology and oceanography. Rear Adm. Don A. Jones, ESSA Associate Administrator, welcomed the cadets, who were also addressed by Paul H. Kutschenreuter, Col. E. J. Cartwright, and Dr. William V. Wright.

NEW ESSA BROCHURES AVAILABLE

ESSA has published two new brochures and a folder listing "Publications from ESSA Office of Public Information." The 20-page "New Knowledge From the Global Sea" describes the mission, programs, and organization of the Institute for Oceanography. "The Hydrologic Cycle" is an eight-page illustrated pamphlet explaining the continuing sequence through which water is transferred from ocean to atmosphere, from atmosphere to land, and from land back to the sea.

OLIVER INSTRUCTS HONOLULU SEMINAR

Vincent J. Oliver, National Environmental Satellite Center, and James Sadler, University of Hawaii, were the principal instructors at the Pacific Satellite Meteorology Seminar held Sept. 12-14 at the University of Hawaii. The training sessions instructed meteorologists in the Pacific area in interpretation of cloud patterns as observed by weather satellite. The seminar was sponsored jointly by the Weather Bureau and the University of Hawaii.

James Sadler, University of Hawaii (left), and Vincent J. Oliver, National Environmental Satellite Center, Suitland, discuss lecture plans at the Pacific Satellite Seminar.



CLOUD MOSAICS CATALOGED

EDS is now publishing daily computer-generated photographic cloud mosaics of both the Northern and Southern Hemispheres in its Catalog of Meteorological Satellite Data. The Catalog provides an index of television cloud photography by the various ESSA satellites. Beginning with the current issue (ESSA 3, Part 2) each number will cover a three-month period. The mosaics replace the hand-drawn nephanalyses of previous issues and are generated operationally at the National Environmental Satellite Center.

LASER-GEODIMETER DEMONSTRATED

The first production model Laser-Geodimeter was demonstrated by C&GS Sept. 11 to about 75 visitors from various Government agencies. The demonstration was made in bright sunlight over an 11-mile line with an accuracy approaching one part per million.

GREENING AT CLEMSON U.

Richard M. Greening, the WB's Eastern Regional Hydrologist, is presently on full-time university assignment for graduate study in water resources engineering at Clemson University in South Carolina. During Greening's absence, A. S. Kachic will serve as Acting Regional Hydrologist.

ITSA-C&GS BEGIN JOINT PROJECT

ITSA personnel have completed the installation of a three-component micropulsation array (N-S, E-W and vertical) at the C&GS Newport Geophysical Observatory. The system will contribute toward a joint ITSA/C&GS geophysical data acquisition venture.

HAGERTY CITED BY FORESTERS

Paul H. Hagerty, Forestry Coordinator for the WB's Southern Region, was presented a special award in ceremonies held at Lake Jackson, Ga., Sept. 11. The award recognized Mr. Hagerty's meteorological contributions toward the protection of Georgia forests against fire hazards during the past year. Ray Shirley, President of the National Association of Foresters, made the presentation.

RETIRED ADMIRAL WINS UNIVERSITY AWARD

Rear Adm. Paul A. Smith, USESSA (Ret.) has recently been presented the Sesquicentennial Award from the University of Michigan. This is the second citation Adm. Smith has received from the university.

INTERNATIONAL STUDY OF GREAT LAKES PLANNED

In connection with the International Hydrologic Decade, an International Field Year for the Great Lakes (IFYGL) is being planned to study in detail Lake Ontario and its effect on the atmosphere. The steering committee has set up four task groups to plan studies of the energy balance, water movement, surface and ground water budget, and lake meteorology. The IFYGL, which will run from April 1970 through September 1971, is a cooperative effort of international scope with participants coming from private and governmental groups in both Canada and the United States. Carlos R. Dunn, chief of the Techniques Development Branch at WB Eastern Region Headquarters is a member of the Working Group for Lake Meteorology. The first organizational meeting of this group was held in Buffalo, N.Y. on Sept. 11.

HIRE THE HANDICAPPED

"National Employ the Physically Handicapped Week" is being observed throughout the nation Oct. 1-7 to remind each of us of the importance of utilizing this resource of skilled and conscientious manpower. ESSA employs large numbers of handicapped workers and is proud to join in the annual observance.

MIC CHOSEN FOR BARKING SANDS

Paul E. Woolard, former official in charge of the WB office in Agana, Guam, has been selected to head the Pacific Missile Range Weather Unit at Barking Sands, Hawaii. Mr. Woolard joined the Weather Bureau in 1951 at Rapid City, S. Dak., and has served at Kotzebue, Alaska; Waterloo, Iowa; and Sheridan, Wyo.

PATTON TO SURVEY GRAYS HARBOR

The USC&GSS PATTON is preparing to go to Grays Harbor, Wash., to conduct a survey at the request of the Corps of Engineers, U.S. Army. C&GS will provide data for a scale model of the Grays Harbor area, including current observations, salinity probes, and topography of the harbor bottom and all navigable tributaries and channels. Grays Harbor is a major outlet for the western Washington timber industry and is a base for commercial and sport fishermen.

CRY AUTHORS TECHNICAL PAPER

ESSA Professional Paper 1, "Effects of Tropical Cyclone Rainfall on the Distribution of Precipitation over the Eastern and Southern United States," by George W. Cry, ESSA State Climatologist, Baton Rouge, La., has recently been published.

DATAAC CONFERENCE ENDS



Participants in the WB Data Acquisition conference, held in Silver Spring, Sept. 11-15, included (left to right): Wesley Irvin and Stuart G. Bigler, Central Office DATAAC; Henry Rockwood, Eastern Region; James M.

Beall, Alaska Region; Sidney Teweles, Chief, Data Acquisition Division, Central Office; Hoyer S. Dunham, Southern Region; Harry L. Elser, Western Region; John T. Lee, Pacific Region; Alfred A. Skrede, Central Region; James Giraytys, Central Office DATAAC; and Wilson Tschiffely, NWRC, Asheville.

OVER THE TOP

ESSA has reached 101 per cent of its quota in response to the blood donor program in the Washington area.

CHIVERS AT BOULDER

Dr. Hugh J. A. Chivers, former scientific director of the Space Disturbance Monitoring Station, Elmendorf AFB, Alaska, transferred to ITSA, Boulder, on July 18. Dr. Chivers was replaced by Warner L. Ecklund of Boulder.

NEW CHART ISSUED FOR ALASKA

C&GS has published the first of a completely new series of aeronautical charts to cover Alaska. This is the first chart of Alaska at 1:500,000 scale to be produced for the use of civil aviation. The new series is constructed under specifications developed by the Inter-Agency Air Cartographic Committee to provide charts with a common topographic base for both civil and military use. The remaining 15 charts of Alaska are expected to be published by mid-1968.

BEERS TO ACT FOR KUBERRY

Clyde J. Beers, geophysicist, has been appointed Acting Chief of Fredericksburg Geomagnetic Center, to serve during the absence of Richard Kuberry, who has a full-time university assignment. Mr. Beers, a veteran of 19 years with the C&GS, has served on several field assignments, including the C&GS Airborne Magnetic Survey Party, the College (Alaska) Magnetic Observatory, and the Tucson (Ariz.) Magnetic Observatory.

ARNOLD JOINS C&GS

Dr. E. P. Arnold, formerly with the University of Cambridge, England, and the International Seismological Centre, Edinburgh, Scotland, has joined the staff of the Geophysics Research Group of the C&GS Office of Seismology and Geomagnetism.

ANOTHER CHANCE FOR FEGLI

Employees who previously waived coverage under the Federal Employees Group Life Insurance Program may now enroll, provided they meet the following qualifications: under age fifty; at least one year has elapsed since effective date of last waiver; and satisfactory medical evidence of insurability is furnished. Contact your Personnel Office for further particulars concerning insurance benefits and the procedure for cancellation of waiver.

AIRPORTS SURVEYED

C&GS airport surveys are in progress at Muscle Shoals (Ala.) Airport, Salina (Kans.) Municipal Airport, and Vernal (Utah) Airport.

WYATT CHAIRS WEATHER DISCUSSION

S. V. Wyatt, chief of the WB's Aviation Safety and Quality Control Group, served as moderator for the weather discussion at the National Flying Physicians Association meeting in Williamsburg, Va., on Sept. 12. Other ESSA participants were George Yount, WB Eastern Region, and Marvin Hunter, Washington Forecast Center. Bernard Cooke, chief of C&GS' Visual Chart Branch, manned the ESSA display.

SERVICE AWARDS

Length-of-service awards were presented to the following IER personnel during September. 40 years - Giles Slocum, IAS, Silver Spring. 25 years - George Evers, J. Virginia Lincoln, John Pitts, and Charles Simon, all of ITSA, Boulder. 20 years - Kent Boggs, ITSA, Ft. Belvoir; and James R. Little, IAS, Las Vegas, Nev.

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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