

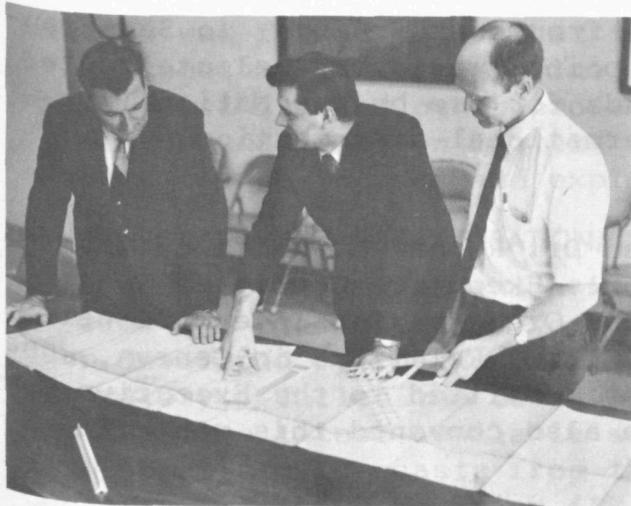
# ESSA NEWS

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## NORTH PACIFIC SEA CHANNEL STUDIED



The Pacific Oceanographic Research Laboratory is now studying newly-gathered data on a sea channel at the bottom of the North Pacific, south of the Aleutian Islands, which once connected the North American Continent to an underwater plain. The channel, whose existence became known only last fall, is regarded by scientists as a repository of evidence which may shed new light on the geological history of the area. An investigation of the

sea channel was conducted in April by the Pacific Oceanographic Laboratory and the USC&GS Ship OCEANOGRAPHER. Barrett H. Erickson, geophysicist (right), was chief scientist for the investigation, assisted by Paul J. Grim (center), and William H. Lucas (left).

## JAPAN AGENCY DIRECTOR VISITS ESSA

Dr. Yoshizi Shibata, Director-General, Japan Meteorological Agency, visited ESSA headquarters facilities on June 17. During his one-day stay, he was briefed on ESSA operations by Dr. Robert M. White, ESSA Administrator; Dr. George P. Cressman, WB Director; R. Adm. James C. Tison, Jr., Coast Survey Director; David S. Johnson, NESC Director; James M. Klaasse, C&GS Associate Director, Seismology and Geomagnetism; Dr. Frederick G. Shuman, Director, NMC; Frank W. Burnett, Deputy Director, NMC; and Nels E. Johnson, International Affairs Director. The organization of the JMA was found to be similar to that of ESSA.



Dr. Shibata with Dr. White

### INTERNATIONAL DATA RELAYED BY COMPUTER

Fully automatic computer switching of weather data being relayed to or through the U.S. recently replaced manual methods on several Weather Bureau communications circuits. Information from all parts of the world is received in the Weather Bureau computer at NMC and automatically switched to the point-to-point radio teletypewriter circuit to Buenos Aires. Computer switching also is being done on all data from Europe to the east coast from Montreal to Miami, all data from Buenos Aires to San Francisco for relay to Honolulu and points west, and selected data received via a circuit from Canada for use by the National Meteorological Center and for international distribution.

### LIEURANCE ATTENDS WMO ICAO MEETING

Newton A. Lieurance represented Dr. Robert M. White on the World Meteorological Organization's Executive Committee Panel of Experts on World Meteorological Organization/International Civil Aviation Organization (WMO/ICAO) Relations in Geneva, June 1-7. The report of the Panel was submitted to the Executive Committee at its 20th Session which also convened this month in Geneva.

### C&GS TO PROVIDE BUOY FOR SATELLITE TEST

The Coast Survey will provide a buoy platform for a test in July of the Omega position location experiment aboard NASA's ATS-3 spacecraft. The position location experiment, called OPLE, will test a method of locating fixed or moving platforms on the surface or in the air. The link established for position location can then be used to receive data gathered from the platform. Three sensors will be included in the electronic package aboard the ESSA buoy platform. The system will be tested first off Miami and will then be placed in a location where currents favor free drift.

### SDO BRANCH RELOCATES TO STERLING

The Observations and Methods Branch of SDO's Test and Evaluation Laboratory will end a major phase of its program June 28, when it transfers from the National Aviation Facilities Experimental Center, Atlantic City, N.J., to the Sterling (Va.) Research and Development Center. The Branch has cooperated in an applied research program with the Federal Aviation Administration for the past nine years, and has been active in mesometeorology and specialized studies of aviation visibility. Members of the Branch relocating to the Sterling headquarters are Matthew Lefkowitz, branch chief; Robert J. McCann; and Frederick G. Hochreiter.

## FOUR TO ATTEND LAW OF THE SEA INSTITUTE

Dr. Hyman Orlin, chief, C&GS Geodetic Research Group, and Atty. W. L. Griffin, consultant to the Coast Survey Director, will present papers at the third annual Law of the Sea Institute to be held at the University of Rhode Island, June 24-27. Capt. Miller J. Tonkel, C&GS Associate Director, Hydrography and Oceanography; and Angelo A. Ferrara, C&GS Office of Systems Development, are also expected to participate. The Law of the Sea Institute was formed in 1965 at the University of Rhode Island to bring together lawyers, marine scientists, businessmen, government officials, and other professionals for the exchange of information and ideas on matters of law and policy evolving from efforts to use the sea and exploit its resources.

## NEW FORECAST MODEL GOES OPERATIONAL

A new computer model which will produce short-range forecasts of wind and precipitation for the eastern third of the U.S. has been developed by the Weather Bureau's Techniques Development Laboratory. Called the Subsynoptic Advection Model (SAM), it combines the latest available surface weather observations with upper-air forecasts from the National Meteorological Center's Primitive Equation (PE) model. The resulting forecasts have been tested for a year and found to be about 10 percent better than those produced by the PE model alone. Full operation began in June, with initiation of a twice-daily teletypewriter bulletin giving forecasts for approximately 100 eastern cities.

## "21ST CENTURY" TO FEATURE ESSA

A crew from the CBS-TV program "21st Century" shoots a sequence in the Space Disturbance Forecast Center of the ESSA Research



Laboratories. Viola J. Hill, mathematician (right), checks communication capability in the worldwide observing system. The CBS crew has been shooting scenes at Boulder and at ESSA facilities throughout the country for a program on weather scheduled to be shown this coming fall.

### LONG ISLAND SOUND SURVEY RESUMED



A Coast Survey field party, headed by Lt. John D. Boon, III (left), and the USC&GSS WHITING are resuming hydrographic surveys this month in Long Island Sound as part of a project to chart the Sound's entire length. Using shore-based launches, the party will chart the water's depth and the location of underwater terrain features. The work will take them into waters too rocky and shallow for a ship, in search of underwater changes made by man and by wind, currents, and other causes. The survey will continue until November, when it will terminate until the following year. The WHITING will chart the deep water of the Sound,

beginning at Mt. Sinai Harbor and extending eastward until October. The Long Island Sound survey began last year, and is expected to take several years to complete.

### LUBBOCK WEATHER WIRE FULLY SUBSCRIBED

The WB airport station, Lubbock, Tex., headed by MIC Harold Frost, is the first station in the WB Southern Region to achieve 100 percent ESSA Weather Wire participation by all commercial radio and television stations in its area of county responsibility. All 20 AM radio stations within Lubbock's 17 counties are now connected to the West Texas Weather Wire.

### EDS AIDS SUBMARINE SEARCH

In response to an urgent request by the Naval Oceanographic Office, the Environmental Data Service has furnished fathograms from the USC&GSS OCEANOGRAPHER's global cruise to aid in the search for the missing nuclear submarine SCORPION. The OCEANOGRAPHER's records were the only ones available for the search area.

### NEW JOB SERIES AUTHORIZED

A new "Physical Science Technician, GS-1311-10" series has been authorized for Weather Bureau programs conducted in Mexico and the Caribbean by the Overseas Operations Division, Office of Meteorological Operations. The positions will require the combined abilities of electronic maintenance (GMD and SCR-658 rawinsonde equipment) and the supervision of rawinsonde observations. The first position will be established at Barbados, West Indies. Qualified personnel are urged to watch for the vacancy announcement, expected to be released soon, which will detail the new career opportunities for technicians.

### STALLARD NAMED MEMPHIS MIC

Glenn Stallard became meteorologist in charge of the Memphis, Tenn., WB airport station on June 20, replacing Gilley T. Stephens, who retired in February. Mr. Stallard, a 27-year Bureau veteran, recently returned from Panama where he directed a two-year study of the weather factors which could affect the construction of a sea-level canal across the American Isthmus. He began his Weather Bureau career at Knoxville, Tenn., and subsequently served at Detroit, Miami, Keflavik, Iceland, San Juan, P.R., and St. Louis. Prior to his Panama assignment, Mr. Stallard was MIC at Philadelphia, Pa.

### COASTAL ECONOMY ANALYZED IN REPORT

A 132-page report--"Economic Impact of Marine-Oriented Activities--A Study of the Southern New England Marine Region"--has been published by the University of Rhode Island. The study, part of a cooperative program conducted by ESSA, the Economic Development Administration, and the University of Rhode Island, analyzes the impact of ocean and continental shelf resources on the economy of a coastal region, and is designed to assist planners in developing those resources. Economists who surveyed the New England area found that, during a recent year, 11.1 percent of the area's total personal income was generated by economic activity directly dependent on the nearness of the marine environment. The study of this particular region can be adapted to other regions if the framework in which the marine activities operate is similar.



Weather Bureau Central Region and American Federation of Government Employees officials sign basic labor-management agreement covering employees at the WB airport station, Minneapolis, Minn. Shown left to right: Milton R. Lefebvre, president, AFGE Lodge No. 2476, Minneapolis, Minn.; Philip W. Kenworthy, MIC, WBAS, Minneapolis, Minn.; R.M. Lumpkin, chief, Personnel, WB Central Region; Leo E. Giernet, National Representative, AFGE 8th District, Minneapolis, Minn.; Roy L. Fox, Director, WB Central Region; and Dean F. Nesley, Secretary, AFGE Lodge No. 2476.

### GEODETC SURVEY SET FOR VERMONT



A Coast Survey field party, headed by Lt. John B. Jones, III (left), is conducting a three-month, eight-county geodetic survey of Northern Vermont. A series of large-scale maps covering the entire state is planned by state officials as a base for future mapping projects and studies. The maps will be compiled from aerial photographs and designed for the widest possible range of users, including individual, commercial, educational, and governmental.

### RADAR PICTURES SENT ON REGULAR TELEPHONE LINES

The Data Acquisition Division at Weather Bureau headquarters has completed the initial testing of a system in which radar facsimile pictures can be transmitted over regular, commercial telephone lines. Radar and Telephone Transmission Systems (RATTS) are already operational in several sections of the nation, but specially conditioned leased lines are necessary for their use. With some modifications to the RATTS system, good quality facsimile pictures of the Pittsburgh weather radar display have been received at Silver Spring, Md., with a normally-dialed telephone call. If the new system proves feasible from other standpoints and becomes operational, forecast facilities such as the National Severe Storms Forecast Center and Weather Forecast Offices could obtain the valuable radar data from any radar station having a RATTS transmitter.

### KANSAS CITY MEN EARN DEGREES

Don Whitman, Public Service Supervisor, and Wilbur Wray, forecaster, NSSFC, Kansas City, Mo., were recently awarded bachelor of science degrees from the University of Missouri. Both Mr. Whitman and Mr. Wray entered college in 1955 and continued their studies while engaged in shift work. Since 1955, Mr. Whitman has attended Kansas State, Washburn University, University of Washington, University of Utah, University of Miami, and the University of Missouri. Mr. Wray attended Missouri Western, Penn State, Kansas University, St. Thomas University, and the University of Missouri.

### BROWN HEADS ENGINEER CHAPTER

Captain Edward B. Brown, C&GS Mid-Continent Field Director, has been elected president of the Greater Kansas City post of the Society of American Military Engineers.

## MICRONESIAN TRAINING PROGRAM RESUMED

A two-month program to train eight Micronesians as meteorological technicians will begin in Honolulu on July 15. The course is jointly sponsored by the Institute for Technical Interchange, East-West Center, and the WB Pacific Region in cooperation with the Trust Territory Government. Formal classroom instruction will be held at the WB's training facility in Honolulu and will include techniques for taking, evaluating, recording, and transmitting surface and upper-air weather data, and climatological record-keeping. Upon completion of classroom instruction, the students will return to their districts for on-the-job training at Weather Bureau stations. Between 1954 and 1957, a total of 38 trainees received this classroom and on-station experience and about fifty percent are still employed at various weather stations.

## AIRPORT SURVEYS

C&GS field surveys were recently completed at General Brees Field, Laramie, Wyo.; Fanning Field, Idaho Falls, Idaho; Capital City Airport, Lansing, Mich.; Burlington (Vt.) Municipal Airport; Laurence G. Hanscom Airport, Bedford, Mass.; Emmet County Airport, Bellston, Mich.; and Rochester (Minn.) Municipal Airport. Other survey parties have moved to Hector Airport, Fargo, N. Dak.; Sault Ste. Marie (Mich.) Airport; Houghton County Airport, Hancock, Mich.; Field-Manchester (N.H.) Municipal Airport; and Helena (Mont.) Airport.

## McKINNIE RECEIVES COAST GUARD PLAQUE



Millard E. McKinnie, meteorologist in the Weather Bureau Office's Marine Unit, Houston, Tex., was recently praised by the U.S. Coast Guard for promoting merchant marine participation in the Automated Merchant Vessel Reporting System. Capt. Robert G. Schwing (right), USCG Officer in Charge of Marine Inspection, Houston, Tex., presents a letter of appreciation, signed by the Commander, Eighth Coast Guard District, to Mr. McKinnie (center). Lt. Cdr. Nelson

G. Emory, USCG Senior Inspector, Materiel, Houston, Tex., is at left.

#### AIRCRAFT SAVED AFTER WB WARNING

G. C. Anderson, meteorologist in charge, WBAS, Wilmington, Del., has been commended by the Civil Defense Director for Delaware, for the station's promptness in relaying severe storm warnings for the southern Delaware area on June 3. A severe thunderstorm with high winds and hail hit the airport approximately one hour after warnings were received, but because of their timely dissemination, fourteen small aircraft were tied down and saved.

#### C&GS MAN WINS FAA SUGGESTION AWARD

A suggestion by Wen Cizek, of the C&GS Aeronautical Chart Division, to update en route charts when air traffic is lightest has been put into effect. Mr. Cizek was awarded \$150 from the Federal Aviation Administration for his suggestion.

#### OPERATION DEEP FREEZE REUNION PLANNED

A reunion will be held June 26, in Washington, D.C., for civilians who have served in the U.S. Antarctic Research Program and officers and enlisted men who have served in Operation Deep Freeze. The reunion will honor the director of the U.S. Antarctic Research Program, National Science Foundation, and the six Admirals who have commanded U.S. operations in the Antarctic. For information and reservations, call OX3-3321.

#### DAY IS OFFICIAL IN CHARGE

ESSA NEWS, No. 24, dated June 14, reported that Frederick H. Day was scheduled to become MIC at the WB airport station at Sault Ste. Marie, Mich. Mr. Day's proper title will be Official in Charge.

#### REQUESTS FOR PI PUBLICATIONS

Requests from ESSA offices for publications in the PI (Public Information) series should be addressed to the ESSA Office of Public Information. Previous issues of ESSA NEWS incorrectly stated that such orders should be sent to the ESSA Publications Section.

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

# **National Oceanic and Atmospheric Administration**

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