

Volume 5

Number 23

U. S. DEPARTMENT OF COMMERCE
ESSA
NATIONAL WEATHER RECORDS CENTER
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JUN 6 1969

Secretary Urges Bond Drive Support

The 1969 Share in America Savings Bond Campaign is now in full swing throughout ESSA. The number of ESSA employees purchasing bonds and shares has increased from 60 percent when the drive opened to 63 percent on June 2. The Environmental Data Service leads all ESSA components, with 81.6 percent employee participation. But at this stage of the campaign, ESSA is near the bottom of Commerce agencies in percentage of employee participation. Secretary of Commerce Stans has expressed the hope that the Bond Drive will receive maximum support during these last few weeks of the campaign.

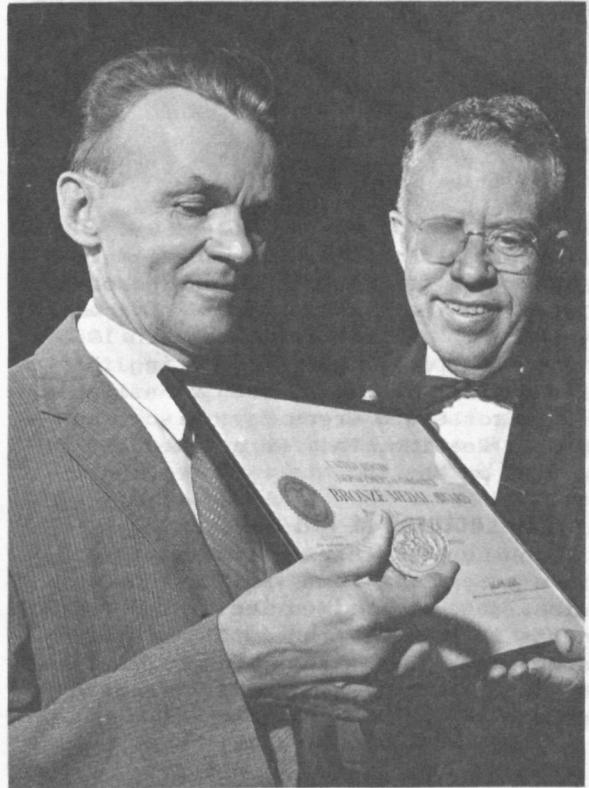
Schuyler Receives AMS Award

Norman Schuyler, aviation forecaster at the Los Angeles Weather Bureau Forecast Office, has received the 1968-69 Outstanding Achievement Award of the Los Angeles Chapter, American Meteorological Society "for noteworthy contribution to the spread of popular understanding of the science of meteorology and its applications." Mr. Schuyler has, over the past year, pursued a vigorous program of submitting pilot weather reports and encouraging other private pilots to follow his example. His efforts have brought about an improvement in both quality and quantity of pilot weather reports in the Los Angeles area and have contributed to flying safety.

Two Appointed to Science Subcommittee

Dr. Woodrow C. Jacobs of EDS and Martin T. Decker of ESSA's Research Laboratories have been appointed to three-year terms on the Subcommittee on Earth and Life Sciences of the Committee on Radio Frequency Requirements for Scientific Research, National Academy of Sciences.

Phoenix Man Awarded Bronze Medal



Left to right: Robert Schmidli and Arizona Governor Jack Williams.

Robert J. Schmidli, weather service specialist at the Weather Bureau's Phoenix, Ariz., office, received the Department of Commerce Bronze Medal in a ceremony held May 19, "for sustained accomplishment in the field of local quality control and public service climatology." Arizona Governor Jack Williams made the presentation. Mr. Schmidli came to the Phoenix office in 1962 from Denver, Colo. He had served previously at Chicago, Ill., LaCrosse and Milwaukee, Wisc.

Toledo MIC Named



Milton N. Schmitz has succeeded Fred Davis as meteorologist in charge of the Toledo, Ohio, Weather Bureau office. Mr. Schmitz joined the Bureau in 1946 at East Liverpool, Ohio, and during the intervening years, served in assignments at LaCrosse and Green Bay, Wisc., and as MIC at Reading, Pa. He assumed his new duties on May 19.

Lovkay Lectures at NIH

John Lovkay, chief of the Weather Bureau's Systems, Plans and Design Division, gave an invited lecture on "Developments in Modern Management" to staff members of the National Cancer Institute of the National Institutes of Health during May.

Scientists Find Fit Between Two Continents

Two geological oceanographers at the Atlantic Oceanographic Laboratories -- Walter Sproll and Dr. Robert S. Dietz -- report that they have found that Australia and Antarctica, now separated by 2,000 miles of water, were once part of an ancient supercontinent. Oceanographic data -- obtained by U.S. and Australian scientists in 1967 during the global cruise of the USC&GS Ship OCEANOGRAPHER -- was run through a computer to determine a "precise fit" between the two continents. Mr. Sproll and Dr. Dietz are supporters of the theory that the continents are constantly drifting, about one inch each year, in the earth's mantle, the part of the earth's interior which rests between the molten central core and the crust.

ERL Men To Speak in Sweden

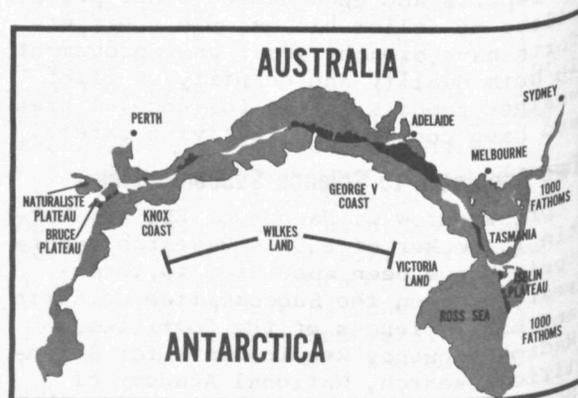
Dr. Bradford R. Bean and Dr. Roger Lhermitte of ERL's Wave Propagation Laboratory will present papers at the international colloquium on the "Spectra of Meteorological Variables" in Stockholm, Sweden, June 9-19. The colloquium is jointly sponsored by the Swedish National Committee on Radio Science and the Inter-Union Committee on Radio Meteorology of the International Scientific Radio Union and the International Union of Geodesy and Geophysics. Dr. Bean will also serve as organizing chairman.

Cartographer Heads City Council

Cedric B. Samuel, cartographer in the Coast Survey's Oceanographic Mapping Group, has been elected to a two-year term as President of the Mt. Rainier, Md., City Council.

Oklahoma City Radar Aids River Forecasting

The article "NSSL Radar Aids River Forecasting," in the May 23 issue of ESSA NEWS, should have stated that the data being used in the operational field test is acquired by the radar at the Oklahoma City Weather Bureau office, using techniques developed by the National Severe Storms Laboratory, and is transmitted from Oklahoma City to the Fort Worth River Forecast Center. The program is a cooperative effort of the Weather Bureau's Office of Hydrology and its Fort Worth River Forecast Center, the Weather Bureau at Oklahoma City, and the National Severe Storms Laboratory.



Drawing depicts how Australia and Antarctica were once part of an ancient supercontinent. Diagonal lines represent continental shelves of Australia and Antarctica; solid black areas the overlap of the two continents.

BOMEX Finds New Temperature-Humidity Relationship



Navy WC-121 Aircraft

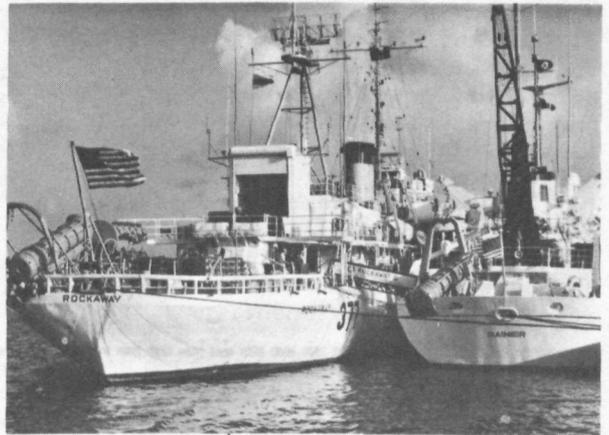
In the first phase of the Barbados Oceanographic and Meteorological Experiment, May 3-17, BOMEX aircraft flew nearly the equivalent of eight times around the Equator, averaging some 14,180 miles daily.

As a result of initial data collected during the first phase of BOMEX, scientists may revise their ideas about certain small-scale phenomena. Data from a cluster of shipboard instruments has shown a previously unrecorded relationship between temperature and humidity under certain common marine atmospheric conditions. Ordinarily, scientists expect that in the tropical marine atmosphere, where both temperature and humidity are generally below those existing right next to the water surface, small-scale temperature and humidity changes are closely linked. When the temperature goes up, the humidity goes up; when one drops, so does the other. Initial BOMEX measurements have shown, however, that in small atmospheric "fronts" -- three to four miles long -- sudden temperature and humidity increases are often followed by a rapid temperature drop, while the humidity goes back down only slowly, over a period of about 10 minutes. Scientists are not yet sure why this happens. The new pattern that appears to be emerging from the data is that in the most rapid fluctuations, temperature and humidity do go up and down together to a great extent. In the low frequency fluctuations, or longer period trends, on the other hand, they do not parallel each other at all closely. The instrument cluster that recorded these unusual effects was mounted on the FLIP (Floating

Laboratory Instrument Platform). Conducting the experiments aboard FLIP was a scientific team that included Dr. Robert Stewart of the University of British Columbia, chief scientist on board FLIP for the first BOMEX phase; Gordon McBean of the University of British Columbia; Dr. Clayton Paulson, Eric Leavitt, and Fred Walker of the University of Washington; and Dr. Stephen Pond of Oregon State University, whose humidity sensors contributed critical data to the project.

Another imaginative study underway in the BOMEX project is one conducted by Navy Hurricane Hunters and a NASA Nimbus satellite. Between now and July 30, they will "rendezvous" around midnight over a point in the Atlantic 390 miles east of Barbados to take photos simultaneously of the earth's cloud cover. NASA's Nimbus can take nighttime temperatures of the cloud cover, but sees only the tops of clouds -- an incomplete picture. The upper radar sets on the Navy's Weather Reconnaissance Squadron 4 WC-121's determine heights of precipitating clouds, while the lower sets map precipitation areas of 100,000 square miles. Comparison of NASA and Navy photos may enable scientists to evaluate precipitation from the satellite photos.

The Navy-Nimbus investigation is incidental to another effort; the first objective of the Navy's weather flights is to determine how much wind and moisture enter and leave the BOMEX box. It is a nighttime operation; much of the tropical precipitation falls between midnight and sunrise. Similar measurements are taken by day by other BOMEX participants.



Port Scene at Bridgetown

Honolulu Observatory Employee Retires



Arthur R. Tanaka (above right), Honolulu Observatory Facility and Grounds Maintenance employee for 22 years, received a letter of appreciation and a gift from Robert A. Eppley, chief, Tsunami Services, ESSA headquarters, at a retirement ceremony. Mr. Tanaka has 28 years of Federal service.

Weather Squadron Reunion Planned

The 11th Weather Squadron of Anchorage, Alaska (1942-45) is planning a reunion at the Americana Hotel, New York City, Aug. 15-17. Weather Bureau employees, who are former members, are invited to attend. For additional information, contact Albert Drasser, 56 Doris Ave., Franklin Square, L.I., N. Y. 11010.

Deaths

Commander Carl A. Egner, retired Coast Survey commissioned officer, died May 4. Cdr. Egner joined the Survey in 1914 soon after he was graduated from Purdue University, and was one of the original group of 119 Coast Survey officers commissioned in 1917.

Claude W. Chapman, weather service specialist at the Albany, N. Y., Weather Bureau office, died June 2. Mr. Chapman had previously served at Nantucket, Mass.; Portland and Caribou, Me.; Buffalo and Rochester, N. Y.

J. K. Hargis, who retired as meteorologist in charge at Alexandria, La., in 1965, died there May 31. Mr. Hargis had completed 39 years with the Weather Bureau prior to retirement.

Alaska Earthquake Volume Published

The Coast Survey has published a third volume on the great Alaska earthquake of 1964, entitled "Prince William Sound, Alaska, Earthquake of 1964 and Aftershocks." The book contains research studies and interpretive results in the fields of geodesy and photogrammetry. Copies are available from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C., 20402, at \$4.25 each.

FAIRWEATHER To the Rescue

In response to an emergency call on May 24, the USC&GS Ship FAIRWEATHER, engaged in hydrographic and topographic surveys in the Gulf of Alaska, towed the R/V HUSTLER to Cordova, Alaska, after the ship struck a rock and began to sink. The U. S. Coast Guard air dropped the damaged ship a pump to keep her afloat.

New Prices Set for Publications

Following a general review of publication prices by the Superintendent of Documents, U. S. Government Printing Office, subscription prices for two EDS publications will be increased effective July 1. "Daily Weather Maps-Weekly Series" will be \$7.50 per year, and "Weekly Weather and Crop Bulletin" will sell for \$5.00 per year.

Service Awards

The following Weather Bureau Eastern Region employees became eligible to receive length-of-service awards during April, May, and June. 35 years - Woodrow W. Lennon, Wilmington, N. C. 25 years - Fred Wiley, Boston, Mass.; August E. Johnson, Caribou, Me.; James E. Morgan, Roanoke, Va.; Dominic Guarcello, Wallops Island, Va.; Bernard A. Rugg, Burlington, Vt.; Peter G. Putz, Charleston, S. C.; Edith L. Horner, Washington, D. C.; William B. Phelan, Block Island, Va.; Donald Reynders, Raleigh, N. C.; Andrew M. Romano, Garden City, N. Y.; Arthur W. Wakeling, N. Y.; Jackson P. Webb, Cincinnati, Ohio; and Salvatore Turano, ERH.

Items to be considered for ESSA NEWS must be received by Monday 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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July 23, 2010