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NEW ASSISTANT SECRETARY TAKES OFFICE



Dr. John F. Kincaid, who was confirmed by the Senate on Sept. 27, was sworn in as Assistant Secretary of Commerce for Science and Technology, Oct. 10, succeeding Dr. J. Herbert Hollo-

mon, now President-Designate of the University of Oklahoma. From 1958 until 1962, Dr. Kincaid was with the Institute for Defense Analysis and since has served as Vice President for Research and Development for the International Minerals and Chemicals Company in Chicago. He received his A.B. from Central College in Fayette, Mo., in 1934; his M.A. from George Washington University in 1936; and his Ph.D. in chemistry in 1938 from Princeton University. Dr. Kincaid taught at Princeton and the University of Rochester. In 1948, he received the President's Certificate of Merit for his work in explosives technology and his contribution to national defense.

Secretary of Commerce Alexander B. Trowbridge recently inspected IER laboratories at Boulder, Colo. Ralph Slutz (back to camera) explains a project to the Secretary. Others, from left: Dale Bucknam, Dr. C. Gordon Little, IER Deputy Director, Dr. John Kincaid, Assistant Secretary for Science and Technology, Dr. George S. Benton, IER Director, Robert W. Knecht, and Dr. Robert M. White, ESSA Administrator.



40 CHARLIE CREW HONORED



At a ceremony held Sept. 11 at the Miami International Airport, the flight crew of RFF Aircraft 40C was presented a plaque by Dr. Joanne Simpson, chief of the IAS Experimental Meteorology Branch. John McCann, pilot, and Harlan Davis, meteorologist, received the plaque for the crew who were cited for "outstanding achievement in cumulus cloud research in Puerto Rico, July 1967, and with sincere appreciation of the dedication, devotion, origin-

al thinking and hard work given by the crew of ESSA-RFF aircraft 40C, whose great spirit of cooperation and adventure went far beyond the call of duty." Crew members, in addition to McCann and Davis, are Merlin Ahrens, William Callahan, Frank Cicirelli, Gerald Conrad, Robert Daniels, Richard Decker, Lloyd DeVol, William Freedman, Jack Lubin, James McCarthy, John Michie, Tom Nunn, Alexander Ricci, Robert Sandquist, and John Thompson. (Shown in photo left to right: Dr. Simpson, Harlan Davis and John McCann. Aircraft 40C in background.)

DATA FROM OCEO TRIP AVAILABLE NOW

The geophysical data collected during the first six legs of the OCEANOGRAPHER's global expedition have been microfilmed by EDS. Copies are available at low cost to geophysicists throughout the world, even before the ship completes its expedition.

POSTDOCTORAL ASSOCIATES NAMED

The Institutes for Environmental Research, in association with the National Research Council, has awarded 1968 postdoctoral residence research associateships to the following: Dr. George Skardron, University of Maryland; Dr. Diethard Boehme, University College, London; and Dr. Richard C. Somerville, National Center for Atmospheric Research, Boulder. Andrew Melnyk, Michigan State University; Michael Mosesman, University of California; and George Hess, Colorado State University, will be awarded the associateships when they receive their doctorates later this year. The postdoctoral program offers an opportunity for full-time independent research in close association with more experienced investigators, and serves to complete the transition from graduate student to mature scientist.

GLACIER NAMED FOR HENDERSON

Felix E. Henderson, Jr., Weather Bureau Forecast Center, Anchorage, has recently been honored by having a glacier in the Ellsworth Mountains on the Antarctic Continent named after him. Mr. Henderson served as a scientific observer in Antarctica during the winters of 1964 and 1965.

SMITHSONIAN DISPLAYS ESSA EXHIBIT

The ESSA exhibit, displayed earlier this year at the Paris Air Show, opened for public viewing Oct. 1 in the Art and Industries Building of the Smithsonian Institution. The ESSA exhibit points up the permanence and importance of the aviator-environment relationship, and the evolution in the quality of that relationship during the 40 years since Lindbergh flew the Atlantic. Portraits of Lindbergh and excerpts from his book, The Spirit of St. Louis, provide the theme for the display, which is dominated by a full-scale model of an ESSA spacecraft. The exhibit will remain at the Smithsonian through mid-January 1968.

CHART REVISIONS MOUNTING

Suggested chart revisions received from the U. S. Power Squadrons' voluntary observers through the third quarter of 1967 totaled 1,184, nearly four times the number submitted for the same period during 1966. Since 1962, the USPS, an organization of 62,000 members, has provided approximately 25,000 "vessels of opportunity" to assist the C&GS in keeping the mariner informed of the latest changes affecting the safety of navigation.

WEATHERCASTER SURPRISED

Frank Peddie, weathercaster on KTAR-TV, Phoenix, Ariz., was the surprised recipient of a WB Western Region Special Service Award for significant public service. MIC Robert Ingram, with the station manager's approval, interrupted Mr. Peddie's Sept. 14 telecast to make the presentation. Mr. Ingram also presented Mr. Peddie with the Regional Director's letter congratulating him on his eighth anniversary of TV weather reporting in the Phoenix area.

TSUNAMI WARNING BRANCH ESTABLISHED

A Tsunami Service Coordinating Branch has been established at C&GS headquarters. The Branch's objective is to insure and coordinate adequate national tsunami warning services in the Pacific, Alaska, and the west coast.

A WEEKEND TO REMEMBER



The weekend of Sept. 16-17 was a memorable one for ESSA's hurricane forecasters. Hurricane Beulah was pounding the northern tip of the Yucatan Peninsula and posing an increasing threat to the Gulf of Mexico; Hurricane Doria had reversed her field and was lashing the Maryland/Virginia/North Carolina coastal area; and tiny Wake Island in the far Pacific was taking the full brunt of Typhoon Sarah.

Sarah was first discovered by satellite photographs southeast of the Hawaiian Islands. She rapidly intensified into a hurricane, but when her course took her across the Pacific into the Eastern Hemisphere, she was renamed a typhoon. As the eye of Sarah passed directly over Wake Island, the anemometer stopped working, but not before recording winds of 98 miles per hour with gusts up to 133 mph. Sarah's high winds

whipped roofs off many buildings, making them vulnerable to the heavy rains which accompanied the storm. The storm surge brought sea water well inland, flying debris battered everything in its path, and the island was stripped of trees.

Remarkably accurate forecasting by the Joint Typhoon Warning Center in Guam and the splendid job done by the forecast staff at Wake Island provided ample warning of every possible storm contingency. As a result, no deaths were recorded and the casualty toll was exceptionally low, although damage estimates amounted to well over one million dollars. Considerable damage to Weather Bureau housing occurred, and surface observational equipment was lost. Working under the most adverse conditions, the Weather Bureau was back in action quickly, taking surface observations immediately after the passage of the storm, and completing a radiosonde observation barely 12 hours later.

On September 18, with Sarah moving away, Doria fading fast, and Chloe gone, forecast attention was centered on Hurricane Beulah, gathering strength in the warm waters of the Gulf and moving west-northwestward. For a few fleeting hours on the 18th, the southeast Texas coastal cities had hopes that Beulah's course might steer her to the south of them, but by the morning of the 19th, the news was all bad. During the afternoon and evening of the 19th of September, two reconnaissance planes reported a central pressure of 27.26 inches--the second lowest pressure ever reported in a Gulf hurricane. Beulah had achieved the dubious distinction of the rarely

given title, "Great Hurricane."

The center approached land during the early morning of the 20th, passing between the Brownsville Weather Station and the mouth of the Rio Grande River about 8 a.m. Peak wind gusts of 109 miles per hour were recorded at the Bureau office, but this figure may be low since the wind had tilted the anemometer about 30 degrees. A ship at Port Brownsville reported winds of 136 mph.

Beulah's winds tore off a section of the roof of the airport terminal building, exposing the Weather Bureau offices to strong winds and drenching rain. When the rain shorted out the telephone and teletypewriter circuits, the office began to transmit radar and surface observations by amateur band to a ham operator located in the San Antonio Weather Bureau station for relay to appropriate points.

Hurricane force winds occurred along the South Texas coast from Brownsville to Corpus Christi, with tides as high as 10 feet in evidence along the coast in the vicinity of Brownsville. Torrential rains fell in southeast Texas and northeast Mexico, with amounts nearing 30 inches reported in some areas. A record number of 95 tornadoes was spawned by this hurricane, striking in many localities in South Texas.

Through the efforts of the Hurricane Warning Service, loss of life was held to a minimum in this extremely dangerous storm. Warnings were out early and were well heeded, with orderly evacuation of exposed areas proceeding without incident. Only ten deaths in Texas have been attributed to the hurricane. Of these, four were killed in the tornado in Palacios, Texas. The amount of damage caused by Beulah is still in doubt, with the major flood toll just becoming apparent, but it appears that the billion dollar figure will be approached, placing Beulah's property cost second only to Hurricane Betsy in 1965.



Opposite page, waves beat the Corpus Christi waterfront during Hurricane Beulah. (Photo by Corpus Christi Caller-Times.) Left, Typhoon Sarah crumpled the FAA's tower on Wake Island, crushing a car. (Photo by Honolulu Advertiser.)

WB OBSERVER CITED

Yuji Takemoto, meteorological technician at the Lihue WB office, has been named Pacific Region "Observer of the Quarter" for the second quarter of 1967. Mr. Takemoto entered on duty at Wake Island in 1953 and served at that station until his transfer to Lihue in 1955.

TONKEL NAMED TO WATER GROUP

Captain Miller J. Tonkel, Associate Director of Hydrography and Oceanography, has been named the C&GS representative on the Federal Advisory Committee on Water Data. Capt. Tonkel succeeds Rear Adm. Don A. Jones, ESSA Associate Administrator.

METEOROLOGICAL COLLOQUIA SCHEDULED

Arthur W. Johnson, Deputy Director, NESAC, and staff members will open the WB Office of Meteorological Operations Colloquia with a discussion of "Current Status of Plans and Programs at NESAC," Oct. 18, at 3 p.m. in the fourth floor conference room, Gramax Building. The forums are designed to discuss problems having operational significance now and in the future.

BOYER ATTENDS NAVIGATION MEETING

Commander John O. Boyer, chief, Marine Chart Division, attended the National Marine Navigation meeting of the Institute of Navigation held at the U. S. Naval Academy, Annapolis, Md., Oct. 11-12. Various phases of navigation were discussed in sessions held during the two-day meeting as well as live demonstrations of OMEGA and NAVSAT systems.

HAHN ELECTED TO DIRECTORS' BOARD

Walter A. Hahn, ESSA Acting Assistant Deputy Administrator, has been elected to the board of directors of the Administration of Research at its 21st National Conference held in Asheville, N.C. Also attending from ESSA were Dr. William O. Davis, acting chief, Plans and Requirements Division; Merritt N. Techter, Director, WB Systems Development Office; William H. Haggard and Harold L. Crutcher of the National Weather Records Center.

HOUSE ACTS ON PAY RAISE

On Oct. 11, the House of Representatives passed a bill giving pay increases of 4.5 percent to classified Federal employees. The bill was sent to the Senate where hearings are already in progress.

MAGNETIC SURVEYS DUE IN NORTHEAST

C&GS is initiating magnetic repeat observations in the northeastern part of the U. S. for the redetermination of long-term secular change. The first measurements to be made before winter will be in New England, with one observing point at Fort Kent, near the international boundary between northern Maine and New Brunswick.

PA. STATE CLIMATOLOGIST MOVES

The WB State Climatologist's office for Pennsylvania moved from the Harrisburg-York State Airport to the campus of Pennsylvania State University, Sept. 27. The move was made to make the records and services of the State Climatologist available to research people at the university, and to give the State Climatologist the benefit of the university's facilities.

PAULSON HEADS SLC CHARITY DRIVE

Captain Marvin T. Paulson, USESSA and Chief ADTEC, WB's Western Region, is serving as director of the Salt Lake Area Combined Federal Campaign. Capt. Paulson is also chairman of the Working Committee for the campaign.

MAPPERS MEET IN ST. LOUIS

Roy O. Williamson of EDS; Albert K. Heywood and Charles Theurer, C&GS Photogrammetry Division; and G. Carper Tewinkel, IER, represented ESSA at the joint midyear convention of the American Society of Photogrammetry and the American Congress on Surveying and Mapping in St. Louis, Oct. 2-5.

C&GS PARTIES ON THE MOVE

C&GS Satellite Triangulation Party G-1 has moved its operations from Maui, Hawaii to Zanderij, Surinam (formerly Dutch Guiana) in South America. Satellite Triangulation Party G-14 is at Pago Pago, American Samoa.

TAKE IT OR LOSE IT

In planning your leave schedule for 1967, bear in mind that the leave schedule includes 27 pay periods rather than 26, and depending on your leave-earning category, you will earn 108, 166, or 216 hours of annual leave. If you have accumulated, or will have accumulated the maximum authorized amount of annual leave, you must use the excess by January 13, 1968 or lose it.

FLOATING ISLAND RESTOCKED

Personnel, mail, and freight, including helium cylinders, were landed on Floating Ice Station T-3, to replenish the nearly exhausted supplies. In a recent 68-hour period, the island moved 8.3 nautical miles and rotated clockwise 40.8 degrees.

C&GS PARTY HEADS CHANGE

Robert A. Price has been named to head Astronomical Party G-48, now working at Glasgow, Montana. Mr. Price relieved Lt. John B. Jones, III, who became the new chief of Triangulation Party G-18, now at Grafton, N. Dak. Lt. John W. Carpenter, former chief of G-18, has a full time university assignment.

SERVICE AWARDS

Length-of-service awards were presented to the following WB Western Region personnel in September: 30 years - Gilbert F. Grafton, Los Angeles. 25 years - Earl M. Bates, Eugene, Oreg.; Rex J. Hess, Sacramento; Robert Kirkpatrick, Jr., Salem, Oreg.; Louis Krezak, Jr., Salt Lake City; Joseph W. Newmyer, Bishop, Calif.; Hugh D. Watson, Missoula, Mont.; and Robert N. Wing, Lewiston, Idaho. 20 years - Thomas E. Aubin, San Diego; Peter Gertonson, Lewiston, Idaho; and Leonard C. Jones, Eugene, Oreg.

AIRPORTS SURVEYED

C&GS surveys are underway at Sheridan County (Wyo.) Airport; Albert Whitted and St. Petersburg-Clearwater (Fla.) International Airports; Lee County (N. Mex.) Airport; and Springfield Municipal (Ohio) Airport. Results of the surveys will appear on Airport Construction Charts early in 1968.

WB CLIMATOLOGIST DIES

Clarence E. Watson, who served as WB Regional Climatologist in Alaska from 1955 until his retirement in 1965, died Sept. 28 in Honolulu. Mr. Watson began his Weather Bureau career in 1936 at Seattle and served at Medford, Oreg.; Sioux City, Iowa; and Omaha, Nebr., prior to his assignment in Alaska.

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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Beltsville, MD 20704-1387
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