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U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

Fargo Radar Remote Facility Commissioned

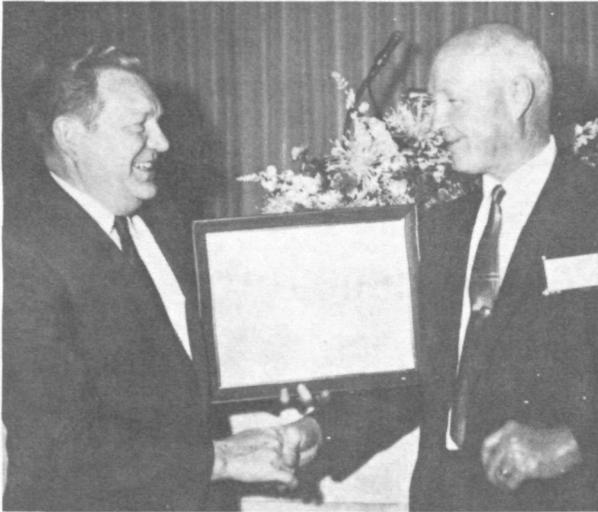


Congressman Mark Andrews, center, cuts ribbon assisted by Senator Quentin N. Burdick. Looking on, from left, are: Roy L. Fox, Weather Bureau Central Region Director, and Major Jack Greve, Detachment Commander, Grand Forks AFB. E. Vernon Hendrickson, Fargo, North Dakota, meteorologist in charge, is at right.

A Weather Bureau Radar Remote System that will provide weather radar data from the Grand Forks Air Force Base was commissioned at the Fargo, North Dakota, Weather Bureau Office, Apr. 17. The new radar system consists of a transmitter that processes the radar signals for transmission by telephone lines, and a recorder that makes a facsimile copy of the radarscope picture. The installation will provide the Weather Bureau office with information on the location, intensity, and movement of precipitation areas to serve residents in the Fargo-Moorhead, N. Dak., vicinity.

Senator Quentin N. Burdick and Congressman Mark Andrews participated in the ribbon-cutting ceremonies. Other officials attending were Mayor Laskowitz of Fargo and Mayor Stordahl of Moorhead, N. Dak.; Leonard Caverley, Civil Defense Director for Cass County, N. Dak.; Jim Grondahl, Civil Defense Director for Clay County, Minn.; Maj. Jack Greve, Weather Detachment Commander from the Grand Forks AFB; Joe Parmer, Fargo Airport Director; E. Vernon Hendrickson, Fargo MIC; Roy L. Fox, Director, Weather Bureau Central Region; and Ray E. Jensen, ESSA State Climatologist for North Dakota.

Flagstaff OIC Receives Commerce Bronze Medal



Left to right: Hazen H. Bedke, Western Region Director, and Paul Sorenson

Paul Sorenson, Flagstaff, Arizona, official in charge, received the Department of Commerce Bronze Medal at the Spring Conference of the Arizona Civil Defense and Disaster Association, Apr. 9-10. H. H. Bedke, Weather Bureau Western Region Director, presented the award to Mr. Sorenson "in recognition of his sustained performance." Mr. Sorenson began his Weather Bureau career at Salt Lake City in 1942. In 1951, he transferred to Flagstaff. He has been in charge of the station since 1958.

First Annual ESSA Awards Event Planned

The first annual ESSA Awards will be presented at a dinner dance, to be held at the Indian Spring Country Club, Silver Spring, Md., on Friday, July 10, 1970. This special event will also mark the fifth anniversary of the agency's establishment. Four \$1000 awards will be given for special achievement in public service, scientific research, engineering and applications development, and program administration and management. An ESSA Awards Night Dinner Dance Committee is planning the program and will coordinate the ticket sales. ESSA component representatives on the committee are: James B. Jones, NESG; Robert H. Reece, Weather Bureau; Guy Meredith, C&GS; B. G. Holzman, EDS; Robert Culnan, ERL; and Nels Johnson, ESSA headquarters.

Contract Awarded for Improved Weather Satellite Instrument

A \$1.6 million contract for the construction of an Infrared Temperature Profile Radiometer (ITPR)--an advanced satellite instrument for obtaining temperature soundings through the atmosphere to the earth's surface--has been awarded to the Data Systems Division of Gulston Industries, Albuquerque, New Mexico, which will serve as the prime contractor. The National Environmental Satellite Center is developing the instrument for the National Aeronautics and Space Administration, which plans to fly it on Nimbus E in the first half of 1972. The contract represents a further step in the continuing effort by NASA and ESSA to develop remote sensing devices that will provide meteorologists with the quantitative, global measurements of atmospheric pressure, temperature, moisture, and wind needed for computer weather forecasting.

New York/Boston Weather Offices To Forecast for America Cup Races

Weather Bureau Forecast Offices at New York and Boston have been requested to supply meteorological support for the America Cup Races this summer and fall. For the first time, there will be an elimination series between two contenders--France and Australia--to pick the challenger who will compete against the United States in September.

Ship Weather Programs Observed



Richard Schwerdt, editor of EDS' Mariners Weather Log, is on a three-week cruise aboard the United States Lines container ship AMERICAN LEGION to study the problems of shipping companies and their crews in handling weather observations. During the course of the voyage to Rotterdam, Hamburg, London, and Le Havre, Mr. Schwerdt will work with coded weather analyses transmitted to the ship and take routine surface synoptic observations.

ERL Personnel Cited for Scientific Papers and Service



Left to right: Dr. Bryan Isacks, Dr. Fred Fehsenfeld, Dr. Wilmot N. Hess, Dr. Eldon Ferguson, Otto Strand, Edgeworth Westwater, Dr. George Reid, Douglass Crombie, and James Watts.

Awards for outstanding scientific papers authored by ERL personnel were recently given to 13 people as authors or coauthors of seven selected publications, by Dr. Wilmot N. Hess, Director of ERL. Individual author awards went to Dr. George C. Reid, Theoretical Studies Group; Dr. Bryan Isacks, Earth Sciences Laboratories; and Dr. Chester P. Jelesnianski, Atlantic Oceanographic and Meteorological Laboratories. Group award winners were: Dr. Kikuro Miyakoda, Dr. Joseph Smagorinsky, Robert F. Strickler, and G. Daniel Hembree of the Geophysical Fluid Dynamics Laboratory; Douglass D. Crombie and James M. Watts of the Institute for Telecommunication Sciences; Dr. Fred C. Fehsenfeld, Jr., and Dr. Eldon E. Ferguson of the Aeronomy Laboratory; and Edgeworth R. Westwater and Otto N. Strand of the Wave Propagation Laboratory.

Individual cash awards for outstanding service were given to Dr. Bradford N. Bean, Raymond E. McGavin, and Richard O. Gilmer of the Wave Propagation Laboratory; Monte Poindexter, Richard L. Rutkowski, and William H. Everard of the Atlantic Oceanographic and Meteorological Laboratories; and Friedrich J. Hoelzl of the ERL audiovisual section for their efforts during BOMEX.

Dr. Hess announced the award of an ESSA Unit Citation to 44 employees of the Research Flight Facility (RFF) for their contributions to the Barbados Oceanographic and Meteorological Experiment (BOMEX) and to Project Stormfury, a joint ESSA-Navy effort to explore hurricane modification. The RFF is based in Miami, Florida, but some of its planes and personnel have been working in Colorado on hail modification and mountain wave projects during the past year.

Gramax Telephone Service To Improve

An improved telephone system will be available to ESSA employees located in the Gramax Building in Silver Spring, Md., within the next two months. As a result of surveys made by the Communications Division of the Weather Bureau's Office of Meteorological Operations, it was determined that all of the circuits coming into the building were substandard and in need of upgrading. The telephone company and the General Services Administration agreed to the findings.

C&GS Publishes New Gulf Coast Chart

A new small-craft chart covering the Gulf Intracoastal Waterway in Texas from Stover Point to Port Brownsville has been published by the Coast Survey. The chart is a valuable aid to mariners navigating the southernmost section of the Texas Triangle. A large portion of Padre Island, a national seashore preserve, and the ports of Isabel and Brownsville are included on the chart. Copies are available from authorized nautical chart agents or from the Coast Survey's Distribution Division for \$1.50.

Sigurdson To Head New Seattle Weather Radar Unit



Samuel Sigurdson, a member of the Missoula, Montana, WSR-57 radar staff, has been selected to head the newly established Air Route Traffic Control Weather Radar Unit at the Seattle ARTC Center. Mr. Sigurdson was attached to the Air Weather Service during the Korean conflict before joining the Weather Bureau at Pocatello, Idaho, in 1959. The Seattle radar program is scheduled to begin operation in June, and will be under the supervision of the Seattle Weather Bureau Forecast Office. The expanded operation will bring four additional radars to the western network, making a total of 20 ARTC and two WSR-57 radars.

Quinlan Appointed to WMO Working Group

Frank Quinlan of EDS' National Weather Records Center has been appointed to the Working Group on Aeroclimatology of the World Meteorological Organization's Commission on Climatology (CCI). The Group was established to review two CCI documents and resolve climatological aspects of standard atmospheres.

1969 Tornado Deaths Lowest Since 1963

A state-by-state tornado count conducted by the Environmental Data Service shows that 66 persons lost their lives in the 602 tornadoes that struck the United States in 1969. Only the states of Alaska, Connecticut, Delaware, Hawaii, Nevada, New Jersey, Oregon, and Rhode Island escaped these deadly storms last year. Statistics show that the 602 tornado total in 1969 is somewhat less than the 641 yearly average. The 66 tornado-related deaths are well below the national yearly average of 119. The death toll last year was the lowest since 1963, when 31 persons lost their lives.

Forty-Nine Coast Survey Men Win 1969 Karo Plaque

Forty-nine members of the Coast Survey's Satellite Triangulation Field Parties received the Karo Plaque for 1969 from the Society of American Military Engineers. The plaque is awarded annually to the Coast Survey field unit that has made an outstanding contribution in the field of science and engineering. The award was presented in recognition of the contribution made by the parties' officers, geodesists, electronic technicians, surveying technicians, surveying aids, geodetic technicians, radio operators, and mechanics to the successful completion of the worldwide Satellite Triangulation Network. The survey program, which covered four years, took the parties to many outlying areas of the world. The award is named for Vice Adm. H. Arnold Karo (Retd.), former Director of the Coast Survey and Deputy Administrator of ESSA. Personnel assigned to the Satellite Triangulation Field Parties during the project were:

Officers

Lieutenants B. C. Eversole, L. Genzlinger, T. E. Gerish, R. T. LeRoy, B. N. Mandelkern, R. K. Matsushige, H. B. Milburn, C. Y. Molyneaux, L. K. Nelson, G. W. McGill, T. Ballentine, and R. Lawson.

Geodesists

R. D. Bakula, R. S. Cohen, L. D. Hothem, J. W. Johnson, W. F. Miller, B. M. Putziger, D. S. Snellgrove, P. R. Spofford, and J. H. Till.

Electronic Technicians

J. D. Byrd, S. A. Cofer, J. R. Cromwell, H. F. Douglas, G. M. Edwards, J. Fried, H. G. Hair, B. D. Holland, S. P. Kuhn, B. A. Nichols, W. A. Reinke, D. D. Simons, M. O. Wellons, and H. W. Wood.

Surveying Technicians

E. S. Alsop, R. W. Anderson, J. W. McClure, and M. L. McGinley.

Surveying Aids

J. E. Mezyk, F. M. McCarthy, R. H. Moyer, and L. L. Pomeroy.

Geodetic Technicians

K. Drehmann, S. A. Frizzell, and F. A. Wright.

Radio Operators

C. H. Lloyd and K. L. McClure.

Mechanic

K. G. Kerr

Telephone Companies Honored for Public Weather Services



1.



2.



3.



4.



5.



6.

(1) Charles L. Brown (right), President of Illinois Bell Telephone Company, receives public service award from Joe R. Fulks, MIC, Chicago Weather Bureau Office. Mrs. Weatherspoon (standing) and Mrs. Walski (seated) are Directory Assistance Supervisors. (2) Claude B. Sharp, Vice President and General Manager of the Bell Telephone Company of Pennsylvania (third from left) displays award presented by George Cowdright, WBO Philadelphia Forecaster (left). Mr. Sharp is flanked by the Chief Operator and one of the voices heard on WE 6-1212. (3) Ralph W. Frey, C&P's Vice President and General Manager (right), receives award from Jerrold A. LaRue, Washington WBFO. (4) Oscar Tenenbaum, MIC of the Boston WBFO (center), awards certificate to Paul K. Palmer, General Traffic Manager of the New England Telephone Company (right). Rosemary Crayton (left) and Rosemary Traill (third from left) are employees who prepare some of the automatic recordings. (5) Bill Harns (far left), meteorologist in charge at Milwaukee, Wisc., presents award to officials of the Wisconsin Telephone Company. Accepting the award on behalf of the company are (left to right) Arno Hinrichs, who maintains the company's announcement facilities; Libbie Witzlsteiner, who supervises the recording, and H. B. Groh, company president. (6) Norman Matson, MIC, WBFO, Seattle (left), presents awards to Zane Barnes, President of the Pacific Northwest Bell Telephone Company (center), and Jack Bankson, General Manager, KVI Radio, Seattle (right).

Upham To Receive 1969 Colbert Medal



Cdr. Clinton D. Upham, ESSA commissioned officer, has received the Colbert Medal of The Society of American Military Engineers for 1969. This achievement award, named for Rear Adm. Leo O. Colbert, former Coast Survey Director, is given annually to a member of the Coast Survey

"for the most outstanding contribution to military engineering through achievement in design, construction, administration, research, or development." Commander Upham received the award for supervising an experimental program in high-speed hydrography. The medal will be presented to Commander Upham at the annual Military Engineers Dinner, May 15.

ESSA Offices Receive Safety Awards

ESSA continued to reduce its injury and motor vehicle accident rate during 1969. Management Control Centers receiving Safety Awards "for achieving a substantial reduction in accidents and injuries to our personnel for 1969" are: Office of the Assistant Administrator for Administration and Technical Services, Weather Bureau Eastern Region, Weather Bureau Western Region, Weather Bureau Alaska Region, Research Laboratories, and Environmental Data Service. Management Control Centers cited "for an outstanding contribution in maintaining an accident free record for 1969" are: Office of the Administrator; Office of the Director, Weather Bureau; Office of Meteorological Operations, Weather Bureau; Office of Hydrology, Weather Bureau; Office of the Director, C&GS; Office of Hydrography and Oceanography, C&GS; Office of Seismology and Geomagnetism, C&GS; and Office of Systems Development, C&GS.

Pacific Weather Broadcast Network Extended

Continuous FM weather broadcasts from the Honolulu Weather Bureau, ESSA Radio Weather for Hawaii, were extended to a much larger portion of the state, including Maui, Windward Oahu, and the Kona Coast, when ESSA's new broadcast repeater on Mt. Haleakala began 24-hour operations, Apr. 30. Storm warnings, forecasts, and other weather information will be broadcast continuously on a frequency of 169.075 megahertz. The broadcasts are designed to meet needs of the general public and of agricultural and marine interests for weather data. All of the broadcast information is compiled and recorded at the Weather Bureau Forecast Office at Honolulu Airport. The broadcasts originate on Oahu from ESSA's transmitters located on Mt. Kaala on 162.55 megahertz. This signal from Oahu is picked up at the Haleakala site on Maui where it is automatically and simultaneously rebroadcast on the new frequency. The Honolulu broadcasts have been on the air with statewide and marine forecast coverage since November 1965.

Julius Bosen To Chair WMO Committee Panel



Julius Bosen of EDS has been appointed chairman of the World Meteorological Organization Executive Committee's Panel on Collection, Storage and Retrieval of Data for Research. The Panel, which acts as an advisory group reporting to the Executive Committee, consists of seven members representing various technical commissions

and member nations of the WMO. At its first meeting in Geneva, Switzerland, Apr. 14-17, the Panel explored ways to coordinate the handling of meteorological data with data in other disciplines, and also looked into requirements that the Global Atmospheric Research Program (GARP) might place on the World Weather Watch.

Scientists Trace Bottle's Seven-Year Ocean Voyage

A bottle tossed into the Atlantic Ocean off Savannah, Ga., in June 1962 by a group of Explorer Scouts, was recovered on Ft. Myers Beach, Fla., last July. Oceanographers at the Atlantic Oceanographic and Meteorological Laboratory, who were asked to trace the route the bottle could have drifted on its 850-mile-trip, suggested probable routes the bottle might have taken. The possibilities were: (1) When the bottle was picked up by the Gulf Stream it would have drifted at a speed of about two to four miles per hour up the coast of the United States to the vicinity of Cape Hatteras, N.C., where it would move easterly across the North Atlantic until it was caught up by the Canary Current. This current would carry the bottle southward, down the bulge of Africa, and to the North Equatorial Current, which would transport it westward across the Atlantic into the Caribbean Sea. The Caribbean Current would then convey the bottle to the Yucatan Channel where it would pass into the Gulf of Mexico and land on Ft. Myers Beach. (2) The bottle could have traveled a longer route. After drifting down the west coast of North Africa, it could have been caught up in the Guinea Current and carried south of the African bulge to the South Equatorial Current. This would have transported the bottle across the Atlantic and northwestward along the hump of South America into the Caribbean Sea where it would follow the previously outlined course.

Chicago ESSA Weather Radio Begins Full-Time Operation

The VHF-FM ESSA Weather Radio at Chicago was put into full-time operation, Apr. 15. The Chicago station, operated by the Weather Bureau's downtown office, had been broadcasting from 6 a.m. to 10 p.m., May through October, for marine interests on Lake Michigan. Its new programming, with updated equipment allowing year-round, day and night operation, includes extended forecasts for the area, a midwest weather outlook, Lake Michigan and harbor forecasts during the "water season," radar summaries, local forecasts, and other weather data.

Tsunami Warning Meeting Scheduled in Canada

Three ESSA officials will represent the United States at the second meeting of national participants in the Tsunami Warning System in the Pacific, to be held in Vancouver, Canada, May 12-14. Attending along with representatives of the Soviet Union, Japan, Peru, Chile, and Canada will be Leonard Murphy, Chief of the Seismology Division, and Robert Eppley, Chief of the Tsunami Services Coordinating Branch, (C&GS), and Bernard Zetler of the Atlantic Oceanographic and Meteorological Laboratories. Capt. Robert C. Munson, Director of the International Tsunami Information Center in Honolulu, will attend as an observer. The meeting is sponsored by the Intergovernmental Oceanographic Commission's International Coordinating Group on the Tsunami Warning System in the Pacific.

Regional Engineers Hold Conference



Participants in the Regional Engineers' Conference recently held at Weather Bureau Central Region headquarters, Kansas City, Mo., were, from left (front row): F. M. Keyes, Pacific Region; H. D. Anderson, Central Region; J. A. Cunningham, WBH. (Back row) H. L. Lewis, Western Region; B. H. Russler, Eastern Region; R. V. Baughman, Southern Region; R. H. Hagemeyer, WBH; D. M. Bergstrom, Alaska Region; H. D. Hobart, WBH. Not pictured are: C. F. Cherry, J. L. Ford, R. L. Hovey, G. J. Littleton, H. C. Besmen, and R. G. Wiggers, WBH; and L. K. Eide, WB Technical Training Center.

Length-of-Service Awards

The following employees were eligible to receive length-of-service awards during the first quarter of 1970:

Weather Bureau Central Region

40 years - Alois G. Topil, Denver, Colo. 30 years - John J. Holstein, CRH; Lars C. Christensen, Springfield, Ill.; George Blandino, Milwaukee, Wisc.; Finn A. Johnson, LaCrosse, Wisc.; Burton Handy, Jr., NSSFC, Kansas City; Frank I. Branthaver, Springfield, Ill.; George B. Hummer, Topeka, Kans.; Clayton E. Moe, Minneapolis, Minn.; Fred R. Mueller, Marquette, Mich.; and Morris B. Braswell, Topeka, Kans. 25 years - Rocco J. Caporaso, Chicago, Ill.; Eugene Remington, Springfield, Ill.; Neil M. Coulter, Casper, Wyo.; Wayne W. Cooper, CLSC Kansas City; James W. Zoller, Detroit, Mich.; and Robert H. Dickson, RFC Kansas City. 20 years - William E. Williams, St. Louis, Mo.; Maynard L. Renfrow, Sioux City, Iowa; Fred R. Cherry, NSSFC Kansas City; and Robert L. Dolan, Omaha, Nebr.

Weather Bureau Western Region

30 years - Ralph L. Cutshall, Eugene, Oreg.; Ben W. Harlin, Ft. Huachuca, Ariz.; Alan H. Jones, Wenatchee, Wash.; Paul R. Nelson, Santa Maria, Calif.; Barton F. Pinson, Oakland, Calif.; and Howard E. Hybskmann, Pocatello, Idaho. 25 years - Dale O. Collins, WRH; Russell B. Hanns, San Francisco; Edwin D. House, Medford, Oreg.; and Robert A. Tomes, San Nicolas, Calif. 20 years - Robert W. Brentano, San Francisco; Gaylord A. Rainsbarger, Long Beach, Calif.; and George A. Bonawit, San Francisco.

30 years - Aubrey J. Bentley, Tucson, Ariz. 25 years - Howard Albrethson, San Francisco; Herbert L. Eger, Tucson, Ariz.; and Robert E. Todd, Salt Lake City.

OCEANOGRAPHER To Dress Ship For Maritime Week Celebration

The USC&GS Ship OCEANOGRAPHER has been selected to represent ESSA at the observance of Maritime Administration Week in Seattle, Wash., May 18-20. The observance will include placing U.S. flag vessels on display to the public. Each vessel will dress ship and hold open house. The ship making the best overall impression will receive an award.

Joiner Receives 35-year Service Pin



Raymond L. Joiner, digital systems advisor at EDS' National Weather Records Center, has received a 35-year length-of-service award. The presentation was made by William H. Haggard, NWRC Director in Bay St. Louis, Miss., where Mr. Joiner is currently engaged in reducing the data collected during the 1969 BOMEX project. Mr. Joiner joined the Weather Bureau in 1939. Subsequent assignments included Harrisburg and Pittsburgh, Pa., and in the Washington, D.C., area. In 1967, Mr. Joiner received the Department of Commerce Silver Medal in recognition of his contributions to the development of the advanced digital computer complex at NWRC.

Tornado Statistics Pamphlet Published

A new leaflet entitled "Weather Bureau Local Storm Warning Service and Tornado Statistics, 1953-1968" has been published as part of the Skywarn '70 campaign to lower the tornado death toll by encouraging preparedness. Copies are available for 20 cents from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Airport Surveys

Surveys of Stinson Municipal Airport, San Antonio, Tex.; Troy Municipal Airport, Troy, Ala.; and Moultrie-Thomasville Airport, Moultrie, Ga., are now in progress.

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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