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U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

NOAA WEEK

Atlantic Air Pollution Doubled In 50 Years, ERL Scientist Says

Air pollution has doubled over the North Atlantic since the early 1900's while the cleanliness of the South Pacific has remained unchanged, a NOAA scientist reports in the August issue of the Journal of Atmospheric Sciences.

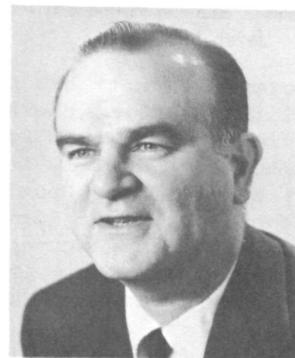
William E. Cobb, a meteorologist with the Environmental Research Laboratories' Atmospheric Physics and Chemistry Laboratory in Boulder, Colo., studied comparable observations/ made between 1909 and 1929 by two ships of the Carnegie Institution and during the 1967 world cruise of NOAA's OCEANOGRAPHER. Particulates, the dust-like pollutants that hang suspended in the air, reduce the atmosphere's ability to conduct electricity. The OCEANOGRAPHER discovered conductivity to be the same in the South Pacific on two voyages, separated by nearly a half-century.

In the Northern Hemisphere, however, conductivity observed by the NOAA ship was 40 percent less than in the Southern Hemisphere and at least 20 percent less than that previously measured by the Carnegie crews in the same mid-North Atlantic waters. According to Mr. Cobb, this indicates an increase in air pollutants in the north.

While admitting that the consequences of an increasingly global particulate concentration are not well known or understood, Mr. Cobb cited a widely accepted hypothesis that claims pollutants retard the rainfall needed to cleanse the atmosphere, thereby allowing still more pollutants to accumulate creating dangerous and, perhaps, catastrophic atmospheric conditions.

"It is essential that we keep a close watch on (nature's) attempts to handle man's continuous polluting since nature's reaction could be something drastic. Even another ice age is possible," Cobb concluded.

Stuart G. Bigler Named Director Of Weather Service in Alaska



Stuart G. Bigler

Stuart G. Bigler has been named director of the National Weather Service's Alaska Region. In his new job at the Region's Anchorage headquarters, he will supervise the activities of 29 Weather Service stations scattered throughout the state.

For the past 11 years, Mr. Bigler has been in the Data Acquisition Division of the Weather Service's headquarters. His last post was as chief of the sounding systems branch.

Mr. Bigler has had 25 years' experience in meteorology. He served in the Navy as a weather observer from 1945 to 1948 serving on the islands of Peleliu and Guam, aboard three weather ships, and on the aircraft carrier BAIROKO. He took part in the atomic bomb testing at Eniwetok in June 1948.

Mr. Bigler holds a bachelor's degree in meteorology from Pennsylvania State College, and a master's degree in meteorology and physics from Texas A & M College. He taught meteorology for several years at Texas A & M before beginning his weather service career in 1959.

An internationally recognized authority on radar meteorology, Mr. Bigler has played a leading role in the development and management of the Weather Service's radar network.

Pruett and Gregg Appointed As National Weather Service MIC's



Jeter A. Pruett



George T. Gregg

Jeter A. Pruett has become meteorologist in charge of the National Weather Service's Fort Worth Forecast Center. He succeeds Aurel J. Knarr, who retired last summer. Mr. Pruett entered the weather service at Fort Worth in 1946, and subsequently served at Pittsburgh, Pa.; St. Louis, Mo.; Shreveport, La.; and Oklahoma City, Okla., before coming to Fort Worth again. At Oklahoma City, he served for two years as a special meteorological training officer at the Federal Aviation Administration's Air Academy and was placed in charge of the National Weather Service Office at Oklahoma City in 1963. Mr. Pruett's first academic degree is in engineering. He earned a master's degree in meteorology at the California Institute of Technology while serving in the Army Air Corps during World War II, and later earned a master's degree in Business Administration at St. Louis University.

George T. Gregg has been named meteorologist in charge of the National Weather Service's Albuquerque, N. Mex., Forecast Office. Mr. Gregg, who has been the station's principal assistant since 1968, succeeds H. L. Jacobson who retired earlier this year. He began his weather career at Amarillo, Tex., in 1940. He also held weather assignments in Los Angeles and San Francisco before moving to Albuquerque in 1946.

Hull Becomes NMFS Acting Personnel Chief

Bernard D. Hull, assistant to Guy H. Dorsey, Acting NOAA Personnel Officer, has been named Acting Chief, Division of Personnel Management in the National Marine Fisheries Service.

Artificial Structures Used To Attract Fish in NMFS Study

The National Marine Fisheries Service is studying the use of artificial underwater structures to attract fish for commercial harvest.

In field studies off Panama City, Fla., the NMFS Exploratory Fishing and Gear Research base at Pascagoula, Miss., used eight structures to determine effect of size and color on the number of fish attracted. Observations by scuba divers were supplemented with experimental sets by a chartered purse seiner to yield data on total catch, species composition, and size range.

Preliminary analysis of field data indicates that fish are attracted to the structures during the day, but tend to leave them at night. Daily purse seine sets averaged approximately 1,000 pounds of fish; night sets around structures observed to have more than 1,000 pounds of fish associated with them during the day averaged less than 100 pounds per structure.

Billings, Mont., Radio and TV Receive Weather Service Awards



Public Service Awards from the National Weather Service went to radio and television stations in Billings, Mont., recently for their outstanding cooperation in broadcasting information and warnings of severe weather. Flanking Billings meteorologist in charge Morris E. Woerner, who has since transferred to Great Falls, Mont., are Hugh Bader (left), program director for KULR-TV, and Richard Kober, representing radio station KGHL.

Commissioning of the NOAA Ship RESEARCHER



The National Oceanic and Atmospheric Administration commissioned its newest scientific survey vessel--the RESEARCHER--in Miami, Fla., Oct. 8. Dr. Edward E. David, Jr., Science Advisor to the President, and Director of the Office of Science and Technology, was the principal speaker at the commissioning ceremonies, which took place at the Port of Miami, Passenger Terminal Pier 5, on Dodge Island. Open House for the public was held on the ship, Oct. 10.

With the RESEARCHER in the center, the photographs (counterclockwise from upper right) are: ship's officer discusses the vessel's advanced data acquisition system and computer with Dr. David; speakers on the platform for the commissioning ceremonies; NOAA Acting Administrator Robert M. White, Dr. David, ship's sponsor Mrs. John C. Bull, and Commerce Assistant Secretary for Science and Technology Myron Tribus; Mrs. Bull presents ship's plaque to Capt. Steven L. Hollis, Jr., RESEARCHER's commanding officer; Dr. David delivers the principal address; Dr. White and Dr. David, with Miami shoreline in the background; guests at the commissioning ceremonies; and Captain Hollis, Cook Joaquin T. Linssnga, Chief Steward Justiniano Salanga, and Commander Robert W. Franklin, Executive Officer, proudly display the cake baked for the festive occasion.

Canadians, Soviets Join NOAA In Georges Bank Herring Study

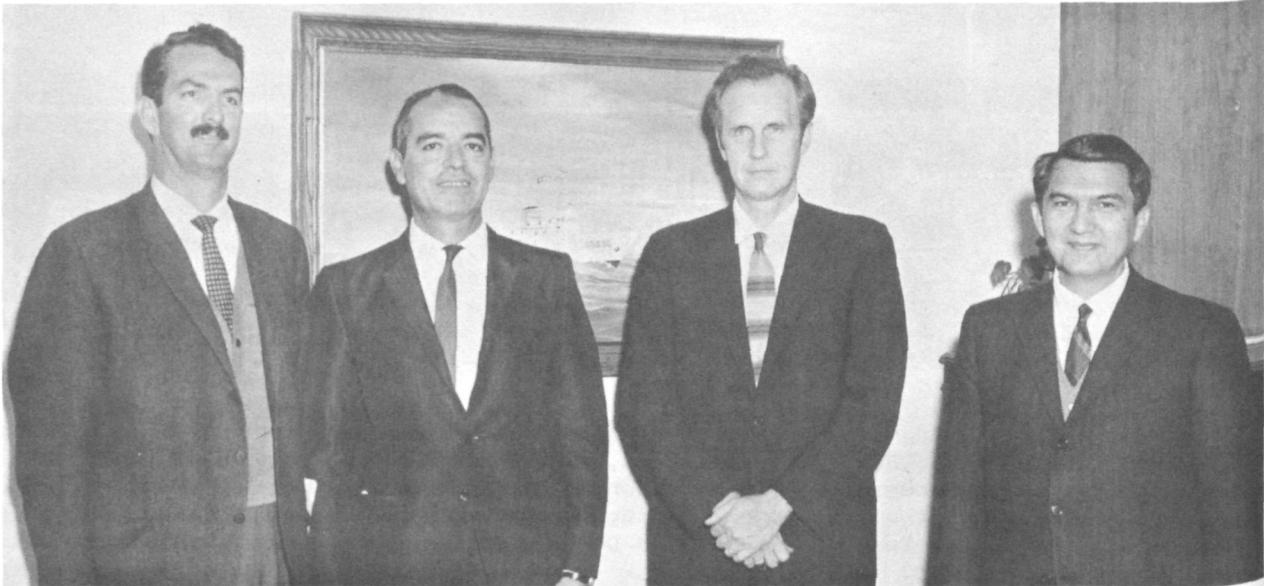
The United States, the Soviet Union, and Canada are cooperating in a study along the North Atlantic Coast which fishery scientists hope will lead eventually to accurate spawning estimates for the herring of Georges Bank, a world famous fishing area.

The National Marine Fisheries Service research vessel ALBATROSS IV, the Soviet vessel KVANT and a Canadian two-man submarine weighing seven tons are participating in the research. Scientific personnel are exchanged between the two larger vessels. Only one successful dive has been reported thus far, but scientists say the observations from that single dive have provided a wealth of information.

NOAA Administrative & Technical Services Personnel Announced by Acting Administrator

NOAA's Acting Administrator Dr. Robert M. White has announced the following assignments in Administrative and Technical Services: Edwin F. McCann, Acting Chief, NOAA Administrative Operations Division; Jerome A. Goldenberg, Acting Chief, NOAA Budget Division; A. Newton Page, Acting Chief, NOAA Management Systems Division; Guy H. Dorsey, Acting Chief, NOAA Personnel Division; Horace E. Hardaway, Acting Chief, NOAA Finance Division; Mirco P. Snidero, Chief, NOAA Computer Division; James E. Caskey, Chief, NOAA Scientific Information and Documentation Division; and James E. Ogle, Chief, NOAA Radio Frequency Management Division.

Two Venezuelan Officials Tour NOAA Facilities, Meet Officials



Venezuelan officials visited a number of Federal agencies in Washington, D.C., early in October seeking advice on the creation of a National Organization of Earth Science Activities in their country. The government is interested in the creation of an organization with official character that will have the disciplines of seismology, engineering seismology, and geology under one organizational structure. The officials, who are preparing a basic report on the possible

organization of the new agency, met with several NOAA officials on October 5 and 6. Shown here from left to right are: A. F. Espinosa, National Ocean Survey Research Geophysicist; Dr. Felix Briceno, Executive Secretary of the Presidential Earthquake Commission of Venezuela; Rear Admiral Harley D. Nygren, Acting Director, NOAA Corps; and Dr. Adolfo C. Romero, Administrator and Director of the National Cartographic Agency of Venezuela from the Ministry of Public Works.

NWS Mobile Van Tours Canada

The National Weather Service's mobile unit for determining high-level wind speed and direction returned recently from a trip to Canada, where it was shown to the Canadian Meteorological Service. Earlier this summer, the experimental unit was taken on a 5,000-mile test journey around the United States.

The mobile unit is contained in a small van and can be operated by two men. It does the same job as the large, fixed tracking antennas used in conventional wind-finding systems. The operators pinpoint the direction of a balloon-borne radiosonde by analyzing signals from widely spaced radio-navigation stations that the radiosonde picks up and re-transmits to the van. Tiny variations in these signals permit determination of the balloon's position with a high degree of accuracy. Repeated measurements give speed and direction of the wind. A long-distance phone hookup with a Washington, D.C., computer provided almost instantaneous calculations in the Canadian demonstration.

The new system lends itself to specialized wind-finding jobs such as those in forest fire control, observations from moving ships, and predictions of air-pollution potential.

Participating in the Canadian trip were John Lovkay, Kenneth Shreeve, and Raymond Mosher of the National Weather Service.



Show You Care • Give Fair Share

Cdr. Jeffries Addresses EEO Committee



Commander Freddie Jeffries, NOAA Corps commissioned officer, assigned to the National Ocean Survey's Geodesy Division, recently addressed members of the NOAA Equal Employment Opportunity committee. Cdr. Jeffries, one of three black officers in the Corps, will soon join the recruiting team in an effort to in-

terest more young black college graduates with science and engineering backgrounds in the NOAA Corps' programs.

Cdr. Jeffries, who holds a bachelor's degree in civil engineering from Tennessee State University, and a masters' degree in geodetic engineering from the University of Michigan, served on the SURVEYOR, and with a field party at the Pacific Missile Range, Point Mugu, Calif.

ERL Earth Sciences Laboratories Director To Participate in AGU Geophysics Program

Dr. Leroy Alldredge, Director, Earth Sciences Laboratories, ERL, has been invited to participate in the American Geophysical Union's Visiting Scientists Program in Geophysics. The Program consists of a series of lectures on geophysics in colleges and universities. Dr. Alldredge is scheduled to speak at Pomona College, Claremont, Calif.; California State Polytechnic College, Pomona, Calif.; and the University of Arizona, during October.

Duane E. Pond Appointed Section Chief At Headquarters of NWS Central Region

Duane E. Pond has been named chief of the National Weather Service's Central Region Facilities Section. Mr. Pond received his bachelor's degree in civil engineering from the University of Wyoming in 1959, and worked for a private consulting firm prior to entering government service. His most recent assignment was with the U.S. Air Force, Aerospace Defense Command, in Colorado Springs, Colo.

Lake Survey and Hurricane Centers Celebrate Creation of NOAA



The National Ocean Survey's Lake Survey Center in Detroit, Michigan, and the National Weather Service's National Hurricane Center in Miami both celebrated the formation of the National Oceanic and Atmospheric Administration with informal presentation and cake-cutting ceremonies. Photograph (above left) shows Lieutenant Colonel James M. Miller, Director of the Lake Survey Center (at right),



accepting a montage of Lake Survey activities autographed by all members of his organization from Frank A. Blust, Chief, Engineering Division. Right photograph shows joint cutting of "Hello NOAA, Good Bye ESSA" cake by Miami-based NOAA officials (left to right) Dr. William Woodley, EML; Dr. R. H. Simpson, NHC; Jack Kofoed, AOML; and Dr. Cecil Gentry, NHRL.

Eastport Harbor Serves as Outdoor Aquarium

The harbor at Eastport, Maine, apparently serves as an outdoor aquarium for an unusual inshore population of redfish, or ocean perch.

Eastport is unique as the only known place in the North Atlantic Ocean area where this species, normally a deepwater fish, occurs regularly at the surface. Although the fish are free to roam, they do not appear to stray far from the harbor.

In tagging studies which began in 1956, biologists with the National Marine Fisheries Service have marked more than 7,000 of the Eastport redfish.

More than 3,000 tagged fish have been recaptured at the tagging site, and hundreds have been caught and released two or more times, providing information on growth rates and longevity, as well as comparative data on relative durability of the plastics and stainless steel used in manufacture of different types of tags.

Becker Becomes Iowa Conservation President

Paul J. Becker, meteorologist in charge of the National Weather Service's Dubuque, Iowa, office, has been named president of the Board of Directors of the Iowa Association of County Conservation Boards.

Richard Maestas To Head Weather Programs On Ice Island Drifting in Arctic Ocean

Richard Maestas has been selected technician in charge of the National Weather Service's programs on the floating Arctic ice island, T-3. Mr. Maestas' most recent assignment was at Las Nicolas Island, Calif., where he was a specialist in upper-air soundings. He is currently undergoing special training at Boulder, Colo., and is expected to fly to T-3 about Oct. 20. T-3 is a 22-square-mile chunk of ice which, for a number of years, has been used as a platform for the scientific experiments of a number of Federal and private organizations as it drifts about in the Arctic Ocean. The National Weather Service maintains a three-man station on the island.

Fred McNally, Rapid City MIC for 23 Years, Retires



Fred H. McNally, meteorologist in charge of the National Weather Service's Rapid City, South Dakota, office for the past 23 years, has retired after 29 years. Mr. McNally joined the weather service at Rapid City in 1941, and, after a series of transfers to Bismarck, North

Dakota, Minneapolis, Minnesota, and Cheyenne, Wyoming, returned to Rapid City as MIC in 1947. In 1968, Mr. McNally received the Department of Commerce Bronze Medal for timely warnings of severe winter storms in southwestern South Dakota and the Black Hills region.

Louisiana Leads Nation in Fishing Take

The National Marine Fisheries Service reports that Louisiana is the leading fishing State in volume with 1 billion 16 million pounds landed. Atlanta leads in value of catch, \$71.1 million.

Administrative Operations Division Leads In Employment Opportunity Programs

The NOAA Administrative Operations Division is leading the way in developing an Equal Employment Opportunity Affirmative Action Plan within the Office of Administration and Technical Services.

As a result of a meeting between Theodore P. Gleiter, AdTech's Assistant Administrator, and supervisory personnel of AOD, a number of actions on the part of the division personnel have increased the possibilities for success of this program. E. F. McCann, Acting Chief, AOD, enlisted the aid of his supervisors in devising and developing a program of contact with local and metropolitan area organizations committed to the positive involvement and inclusion of minorities in filling AOD vacancies.

AOD contacts received the active support of the Montgomery County Chapter, NAACP, the Department of Human Relations, Montgomery County Board of Education, Opportunities Industrialization Center, Washington, D.C., and the Montgomery County Community Action Committee.

Damaged Lake Survey Center Tower Rebuilt

Lake Survey Center's instrument tower in Lake Michigan near Grand Haven, Mich. toppled by a recent storm, has been salvaged, reerected and reinforced. The tower is used jointly by the Argonne Laboratory of the University of Chicago and Lake Survey. The Lab is making studies of up-draft currents, and the Lake Survey is studying water motion. The tower, in 20-foot deep water, is 1,500 feet off shore; its platform 10 feet above the water. The storm occurred in late September and was accompanied by 10 to 12-foot waves. Luckily, no instruments were lost as tests are made periodically and the storm occurred during one of the periods when the instrumentation had been removed.

Rigby Attends Documentation Conference

Malcolm Rigby, of NOAA's Scientific Information and Documentation Division, was among the nearly 1,000 people from more than 50 nations attending the "35th Conference of the International Federation for Documentation" (FID), held Sept. 14-24 in Buenos Aires in conjunction with an International Congress on Documentation. Mr. Rigney, who is a member of the FID Central Classification Commission and of its Executive Committee, and Chairman of a Joint Committee on Mechanization of the Universal Decimal Classification, presented a report on "A Decade of Progress" in the use of computers with the UDC at a session attended by more than 300 library or information specialists.

Three Nations Exchange Communications Data

Detailed reports are now being exchanged between scientists of the Soviet Union, Japan, and the United States of a successful experimental test from the USSR Tsunami Communications Center at Khabarovsk, Siberia, to the International Tsunami Information Center at Honolulu. The test broadcasts will be repeated at three-month intervals. The December transmission will originate at the Honolulu facility and will be monitored by Japan and the Soviet Union. The Honolulu Observatory, operated by NOAA's National Ocean Survey, is headquarters for the Pacific-wide tsunami warning network.

Joseph Strahl Bridges Generation Gap



Joseph A. Strahl of the National Weather Service's Office of Hydrology, is having the unique experience of attending college with three of his children. He also shares a hydrology class with his oldest son. Mr. Strahl is enrolled in the University of Maryland for the 1970-71 school year under an agency-sponsored university scholarship. Shown in photo (left to right) are son, Joseph L., a senior majoring in civil engineering; Mr. Strahl; daughter Celeste Ann, a junior majoring in mathematics; and son, Robert, a freshman in the pre-dental school.

Freed and Sulecki Will Receive Training Under AdTech Pilot Fellowship Program

William H. Freed, NOAA Personnel Division, and Wayne Sulecki, NOAA Administrative Division, are the two candidates who will receive training under the AdTech Fellowship Program--a pilot program initiated last August. The two employees were selected from eleven applicants from the Washington AdTech area. Mr. Freed and Mr. Sulecki will begin their formal training after Jan. 1, 1971. If the program proves successful, other AdTech employees will be considered at a later date.

Commercial Shrimp Potential in Africa Article Authored by NMFS Employee

The August-September issue of "Commercial Fisheries Review" includes an article on "The Commercial Shrimp Potential in West Africa--Dakar to Douala," by Norman L. Pease of the National Marine Fisheries Service Exploratory Fishing and Gear Research Base, Pascagoula, Miss.

The present estuarine fishery for juvenile shrimp in West Africa indicates that shrimp breed there in substantial quantities. Eleven species believed to be available in commercial quantities have been identified--three found primarily within the 50-fathom depth, and the other eight between 50 and 400 fathoms.

Mary Lou Cunningham, Lake Survey Center, Commended on Work by Corps of Engineers

Mary Lou Cunningham of the Lake Survey Center recently received a certificate from the Army Corps of Engineers in recognition of her excellent handling of security material while with the Survey's Cartographic Division in Detroit. The Cartographic Division, which provided military map-making support for Army's Topographic Command, was dissolved last spring. During the deactivation process, it was necessary to prepare and dispose of quantities of classified material, including secret documents. It was during a security inspection that Mrs. Cunningham's key role in this project was noted and acknowledged. Mrs. Cunningham, with more than 20 years' Federal service, has been transferred to the Lake Survey's administrative offices in Detroit.

John L. Frazee, NWS Forecaster, Dies

John L. Frazee, Jr., senior general forecaster at the National Weather Service's Los Angeles, Calif., Forecast Office, died Oct. 13. Mr. Frazee entered the National Weather Service in 1941. He attended the California Institute of Technology and was a Phi Beta Kappa graduate of the University of Chicago in 1945. Mr. Frazee had served at Los Angeles since 1945.

Items to be considered for NOAA WEEK must be received by Monday for publication the following Friday. Send material to: Office of Public Information, NOAA, Room 804, Bldg. 5, Rockville, Md. 20852. Phone (301) 496-8243.

National Oceanic and Atmospheric Administration

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