

NOAA WEEK

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

\$18 Million Budget Increase Approved for NOAA

The House Appropriations Committee approved the following increases on June 21 for NOAA for the fiscal year beginning July 1, 1971 (dollars in thousands):

Appropriations	Amount for Continuation of Programs at 1971 Levels		Requested 1972 Increase for Program Expansion		House Committee Allowance for Program Expansion	
	Pos.	Amount	Pos.	Amount	Pos.	Amount
Salaries and Expenses	8,771	\$174,451	433	\$12,955	174	\$ 5,549
Research, Development, and Facilities	2,140	89,284	240	24,176	146	10,716
Research, Development, and Facilities (Special Foreign Currency)	-	-	-	900	-	500
Satellite Operations	336	25,919	151	6,006	151	1,581
Pribilof Islands	80	2,914	-	-	-	-
Fisherman's Loan Fund (Limitation on Admin. Expenses)	-	(417)	-	-	-	-
Fisherman's Protective Fund	1	61	-	-	-	-
Total	11,328	\$292,629	824	\$44,037	471	\$18,346

The President's budget for NOAA submitted to Congress in January, when adjusted for pay increase amounts, totaled \$336,666,000, an increase for program expansion of \$44,037,000 for Fiscal Year 1972. The House Appropriations Committee approved \$310,975,000, an increase of \$18,346,000 -- 41 percent of the requested rise. This will permit an increase of 471 employees and will provide for support of the highest priority program expansion items.

Action on the appropriations bill for State, Justice, Commerce, and related agencies now goes to the Senate where hearings on the Commerce portion are scheduled for June 28-29.

Dr. White Assures Public All Fish Not Contaminated

In an address before the Shellfish Institute of North America on June 21, Dr. Robert M. White, NOAA Administrator, said it would be "needless and tragic" if incidence of mercury in limited numbers and species caused the nation to avoid all fish. Fish should remain a valued staple of the American diet. NOAA, through its National Marine Fisheries Service, will seek to learn, as quickly and thoroughly as possible, the extent to which mercury or other heavy metals may occur in fish, and to keep the public informed, not only of those products with high levels, but those which fall below the guidelines offered by the Food and Drug Administration. NOAA, Dr. White said, works closely with the FDA to help protect the public in the area of fish contaminants. "So far," he said, "what we have found gives us reason for optimism. Since the mercury problem first came to light about a year ago, swordfish is the only species that the FDA felt should be the subject of a warning to the public. "I have faith in the common sense of the American people. I am confident that they will be guided by specific cases and will not deprive themselves of the nourishment, the economy, and the pure enjoyment of eating the vast majority of fish, which there is no reason to distrust."

Phoenix, Arizona, Facility Expanded To Weather Service Forecast Office

The Weather Service Office at Phoenix, Ariz., was expanded to a Weather Service Forecast Office, June 21. The Phoenix Forecast Office will be responsible for issuing the official weather forecasts for Arizona. In the past, these basic public forecasts were prepared at Albuquerque, New Mexico. The professional staff has been increased at Phoenix to enable the office to maintain a continuous watch of weather and river conditions in Arizona 24 hours a day. The upgrading of the Phoenix facility was made in recognition of the rapidly increasing population of the state and the variety of requirements for weather service. Robert S. Ingram will remain as meteorologist in charge of the enlarged facility. The principal assistant is Nicholas J. Ropar, who recently transferred to Phoenix from the Albuquerque Forecast Office.

NOAA Funds Awarded To Support Pacific Advisory Program

NOAA has awarded \$36,500 to support a Pacific Sea Grant Advisory Program (PASGAP). The regional program is being established because many users of marine resources do not confine their efforts within the boundaries or off the shores of a single state.

The NOAA grant was made to Oregon State University, which will act as administrator for the seven participants. Other PASGAP participants are the University of Alaska, University of British Columbia, University of California, University of Hawaii, University of Washington, and the National Marine Fisheries Service. Because fishermen who take commercially important fish of the northeastern Pacific tend to specialize in species, and follow the fish, they are frequently difficult to reach with useful extension advisory services, and hard to communicate with while at sea. PASGAP will therefore help link together the productive marine advisory programs that have already begun to operate from Alaska to California, through the impetus of Sea Grant and other programs of state, provincial and local authorities.

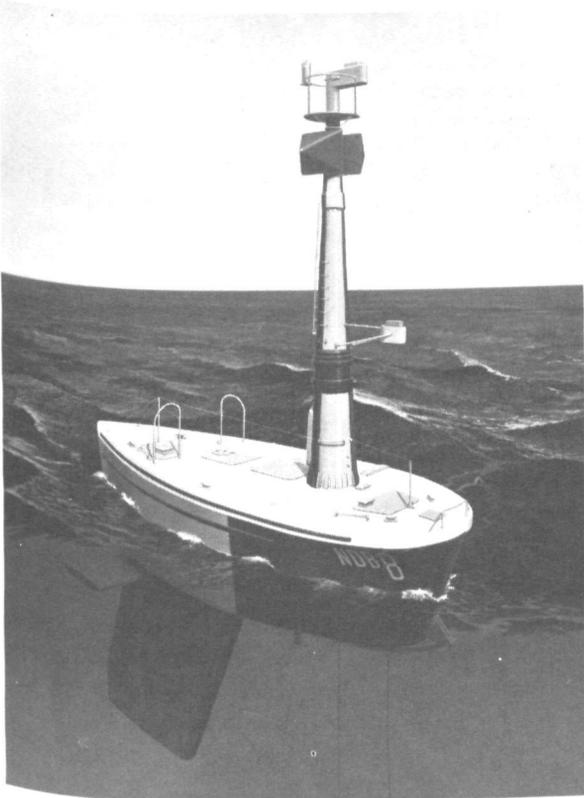
Activities planned under the NOAA grant will include additional publications, conferences, and workshops designed to provide needed information to marine resource users in a form that they can use immediately.

NSF Board Names Antarctic Glacier For Svendsen, Ocean Survey Chief



Kendall L. Svendsen (left), Chief of the National Ocean Survey's Geomagnetism Division, has been advised by the National Science Foundation that the U.S. Board on Geographic Names has named in his honor the geographical feature Svendsen Glacier. The glacier is located in the area of northern Victoria Land, Antarctica. Mr. Svendsen visited the glacier in 1967. He is in charge of NOAA's geomagnetic activities, including those in Antarctica.

\$1.4 Million Contract Granted to Lockheed for Ocean Platform



Artist's conception of Ocean Platform

The Lockheed Missiles and Space Company, Sunnyvale, Calif., has been selected to develop and test a unique ocean platform design for NOAA's Data Buoy Project Office. An important step in the agency's development and testing of new hull and mooring concepts, the contract is expected to total about \$1.4

million. The buoy designed by Lockheed is a 28-foot, boat-shaped hull with a large stabilizing keel. It can be transported by truck or barge, and readily towed to its station at sea. An antenna is integrated into its mast structure, and the mooring line is attached to the hull directly below the mast foundation, so as to ensure that the buoy streams with the current. Sensors on the buoy platform are expected to be limited to those required to check the performance of the hull and mooring, and their effects on environmental measurements. The hull will be fabricated and basic equipment installed at the Lockheed Shipbuilding Company, Seattle, Washington. Final equipment, integration, and pre-deployment testing of the platform system will be performed at the Buoy Project's facilities at the Mississippi Test Facility, Bay St. Louis, Miss. This buoy system, as well as several larger, fully instrumented buoy platforms, will be deployed for test and evaluation in the Gulf of Mexico during the spring of 1972. The U.S. Coast Guard Cutter ACUSHNET, to be berthed at Gulfport, Miss., will deploy and service the ocean platforms during the two-year test period.

The mission of the National Data Buoy Project Office is to develop the capability for deploying an operational network of automatic marine data-collection platforms that would provide meteorological and oceanographic measurements in the deep oceans, coastal waters, bays, estuaries, and the Great Lakes.

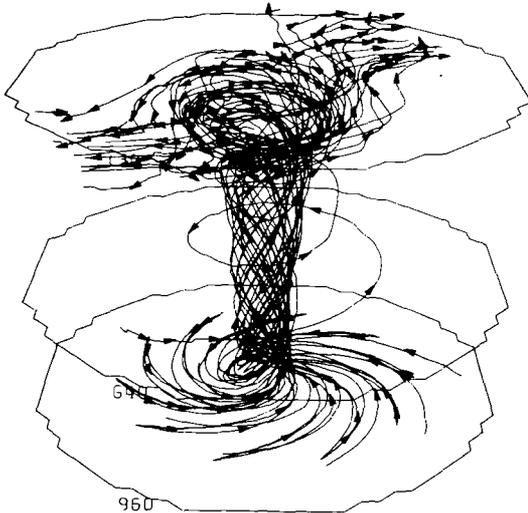
H. C. S. Thom To Present Invited Paper To International Building Council in France

Herbert Thom of the Environmental Data Service is participating as an invited respondent and official representative to the Fifth Congress of the International Building Council, Versailles, France, June 22-30. His paper, a reply to several other papers presented earlier on the theme of natural data will stress several aspects of this main congress topic -- siting and architectural design, structural design, design for comfort, and design for economy. The meeting, sponsored by the Centre Scientifique et Technique du Batiment, Paris, is expected to draw an international attendance of several thousand.

New Official in Charge Is Appointed For Elkins, W. Virginia, Weather Office

Ashby E. Craft has been appointed to head the Elkins, W. Va., Weather Service Office, succeeding Aubrey F. Tyson, who recently retired as official in charge after 30 years' Federal service. Mr. Craft, a veteran of 26 years with NWS, assumed his new duties, June 14. His most recent assignment was as official in charge of the Allentown, Pa., Weather Service Office. He joined the Weather Service in 1945 as an observer at Cape Hatteras, N.C., and transferred to Nashville, Tenn., the following year. From 1948 to 1968, he served as official in charge at Nome, Alaska, except for a four-year tour of duty at Albany, N. Y.

Computer Model Produced To Trace Particles in Hurricanes



Computer drawing of particle tracks in a hurricane.

Dr. Richard A. Anthes and James W. Trout of the National Hurricane Research Laboratory, and Stellan S. Ostlund of Coral Gables, Florida, Senior High, have teamed up to produce three-dimensional computer drawings of particle tracks through a hurricane. The three designed the trajectory experiment and programmed the computer to produce the drawings. The purpose of the experiment is to illustrate the time-dependent, three-dimensional structure of the hurricane and help in developing balloon monitoring systems for investigating the circulation in actual hurricanes.

Dr. Mitchell Is Named to NAS Review Panel

Dr. J. Murray Mitchell, Jr., of EDS' Laboratory for Environmental Data Research, has been appointed to a new National Academy of Sciences review panel established to advise the National Science Foundation with respect to the planning, scope, and conduct of the Arctic Ice Dynamics Joint Experiment (AIDJEX) scheduled for 1972-74. AIDJEX is an ambitious project spearheaded by University of Washington scientists and supported by several other university groups and by Government agencies including NOAA. The basic aim of the experiment is to arrive at an understanding of the relationship of Arctic ice conditions to the atmospheric and oceanic phenomena controlling them, and to the polar heat budget.

Each line in a drawing represents the track of one particle. The arrows show the positions at nine-hour intervals. Ten particles were tracked, beginning at the lower (inflow) level of the model hurricane about 3000 feet above sea level. Whenever a particle was carried outside the model storm, another was introduced into the inflow layer with its starting point rotated 36 degrees to provide uniform coverage of the layer.

The three-dimensional model hurricane used in this experiment was previously developed by Dr. Anthes, Mr. Trout, and Dr. Stanley L. Rosenthal of NHRL. For this experiment the model simulates an eight-day period during the life of the big storm, starting with maximum wind speeds of about 35 knots (40 miles per hour) that intensified and eventually exceeded 110 knots (126 miles per hour). The drawing clearly shows several characteristics of particle trajectory during a hurricane.

NHRL's model hurricane used in this experiment simulates the physical processes that are currently considered to be crucial to hurricane formation and maintenance. The model storm was isolated from any steering currents and hence remained nearly stationary during its life cycle.

Mr. Ostlund's participation in this project is part of a program of the Dade County school system, through which outstanding high school science students work directly with research groups, for high school credit.

Little To Head Del Rio, Tex, NWS Office

James Little has been selected to fill the position of official in charge of the National Weather Service Office at Del Rio, Texas, replacing Shreves Goodwin, who will retire at the end of June. Mr. Little comes to Del Rio from Wichita, Kansas, where he was an assistant in the weather office. He is a veteran of 24 years of weather work, which includes service in the U.S. Navy. His previous assignments were at Omaha, Nebraska; Huron, South Dakota; North Platte, Nebraska; Bethel and Annette, Alaska. Prior to going to Wichita, Kansas, in 1969, Mr. Little was lead meteorological technician at the Air Resources Laboratory at Las Vegas, Nevada. He expects to enter on duty in his new assignment in early July.

NMFS Safety Board Reviews Scuba Diving Operations



Left to right: Clifford Newell, Boothbay Harbor, Maine; Ray Shuey, La Jolla, California; Ian Ellis, Seattle, Washington; Mike Russell, Pascagoula, Mississippi; John Naughton, Honolulu, Hawaii; William L. High, Seattle, Washington; Richard Cooper, Boothbay Harbor, Maine; and Louis Barr, Auke Bay, Alaska.

The National Marine Fisheries Service's Diving Safety Board met recently in Boston, Mass., to review NMFS scientific diving activities conducted during the past year. Regional Diving Officers and NMFS Diving Coordinator William L. High, sought to pinpoint unsafe procedures and to document successful uses of diving as a research tool. Currently about 91 scientist-divers are active in NMFS. Board members were confident that continued upgrading of safety gear and pro-

cedures will encourage increased underwater activities during the next year. The safety group traveled to Boothbay Harbor, Maine, where Dr. Richard Cooper, Regional Diving Officer at Boothbay Harbor, and his laboratory diving officer, Clifford Newell, guided Board members in a series of dives to expand their awareness of diving conditions in cold, low visibility northeast waters. Actual dives permitted members to observe lobsters in their habitat.

Sheridan Is Pacific Region Hydrologist

John F. Sheridan has become Regional Hydrologist for the NWS Pacific Region. Mr. Sheridan spent the last ten years working as a hydrologist at the River Forecast Center in Tulsa, Okla.

Survey of Pennsylvania Airport Underway

An NOS field team is conducting a survey of Reading (Pa.) Municipal/Gen. Carl A. Spaatz Field. Head of the team is William M. Reynolds.

NOAA Sea Grant Awarded For Chesapeake Bay Research

A \$249,600 Sea Grant has been awarded to the Virginia Institute of Marine Science (VIMS), Gloucester Point, to support activities in improved management and use of estuarine and coastal resources on Chesapeake Bay. Emphasizing research to improve crustacean and mollusc fisheries, the VIMS scientists are working on the general biology of the blue crab, assessing rock crab for commercial potential, and studying the distribution and habitat preferences of larval blue crabs. They are also working to determine the optimum conditions for holding blue crabs for commercial shedding by the soft crab industry. Other efforts include interesting industry in small-scale attempts to grow bay scallops, and making bioassay cultures of algae isolated from nature for their effects on water quality and food value for shellfish larvae.

A significant part of the VIMS program includes a marine advisory program to provide information and assist private industry and the general public in the solution of marine resource problems. Principal investigator for the project is Dr. William J. Hargis, Director of the Institute.

BLIP Data Reduction Task Completed By Mississippi Test Facility Staff

The Mississippi Test Facility located at Bay St. Louis, Miss., has completed the task of reducing the more than 700 hours of Boundary Layer Instrument Package (BLIP) data gathered on fixed ships during the Barbados Oceanographic and Meteorological Experiment (BOMEX), conducted in 1969. BLIP is a tethered, dirigible-like balloon instrumented for low-level soundings to provide temperature, humidity, and wind speed at three levels close to the sea surface. The first of several steps used by the MTF in reducing the BLIP data (analog-to-digital conversion) required 850 magnetic tape reels. The resulting data set consists of one-sample-per-second averages of temperature, wet bulb temperature, wind direction and speed and pressure contact values. From these, relative humidity and wind components were computed. These data are on both magnetic tape and plotted as time series on microfilm. Both forms will be placed in the BOMEX data archive when documentation is completed.

NOAA Retirements

Listed below and on the following pages are the remainder of the NOAA employees retiring from Federal service during April and May.

Walter R. Davis, meteorologist at the National Hurricane Center, has retired after serving all 41 years of his career with the National Weather Service in Miami. Mr. Davis' last assignment was as executive officer and Chief of Aviation Services. His work included international liaison in support of the hurricane service. He also served on a UN Task Force to Costa Rica to assist in setting up a rainfall and flood forecasting program.

Mrs. Annie Ruth Kolbohn, secretary at NWS's Southern Region headquarters, Fort Worth, Tex., has retired after almost 32 years of service. Mrs. Kolbohn entered the weather service in 1939 in the hydrologic office at Fort Worth. She later became supervisor of time, leave and payroll accounting, then property and supply officer before returning to the Hydrologic Division.

Marion E. Crawford, meteorologist at the Jackson, Miss., Weather Service Office, has retired with 40 years of Federal service. Mr. Crawford entered the weather service at New Orleans in 1930. Subsequent assignments included Broken Arrow, Okla.; Tulsa, Okla.; San Antonio, Tex.; and Atlanta, Ga. Mr. Crawford's career spans the era from meteorological kites to operational applications of satellite data.

Rollo H. Dean, meteorologist and fruit-frost forecaster at the Lakeland, Fla., Weather Service Office, has retired with almost 41 years service. Previous places of service included Mobile, Ala.; Meridian, Miss.; Memphis, Tenn.; and Pensacola, Fla. Almost 30 years of Mr. Dean's career was spent in the specialized fruit-frost service program in Florida.

James Anspach, supervisory cartographer in NOS's Aeronautical Chart Division, Silver Spring, Md., has retired after 30 years' Federal service. All of Mr. Anspach's service has been with NOS.

William E. Richards, cartographer in NOS's Aeronautical Chart Division, Silver Spring, Md., has retired with 30 years' Federal service, all of which has been with the National Ocean Survey.

Hoye S. Dunham, Chief, Data Acquisition Branch, Weather Service Regional headquarters, Fort Worth, Tex., has retired after 43 years' service. Mr. Dunham entered the Weather Bureau at Springfield, Mo. His later assignments were at San Juan, Puerto Rico; Tampa, Fla.; Austin, Tex., where he was meteorologist in charge; and since 1964, Chief of the DATAC Branch. Mr. Dunham was awarded the Department of Commerce Bronze Medal for outstanding leadership in 1970.

Lionel Broussard, meteorological technician at Port Arthur, Tex., has retired after 35 years of Federal service. Mr. Broussard's government service began in the Post Office Department in 1936. He joined the Weather Bureau at Port Arthur and spent his entire weather service career there. He became principal assistant there in 1960.

Lawrence M. Dye, meteorologist in charge of the Tampa, Fla., Weather Service Office, has retired after almost 34 years of service. Mr. Dye joined the Weather Bureau at Omaha, Nebr. He subsequently accepted a number of other posts to broaden his experience. These included Miami, New York City, Boston, and at the Weather Records Processing Center in Chicago. After several years of service at Asheville, N.C., he became meteorologist in charge at Worcester, Mass. He has been MIC at Tampa since 1965.

Robert F. DeLong, meteorological technician at the Key West, Fla., Weather Service Office, has retired after completing 31 years of Federal service. Joining the weather service at Akron, Ohio, he later served as hydroclimatic inspector at Cincinnati and meteorological aide at Tampa. In 1956, he changed to electronics work and continued as electronic technician at Tampa for four years before returning to meteorological operations. Mr. DeLong has been at Key West since 1966.

William C. Ezzell, meteorological technician at the Oklahoma City Weather Service Forecast Office, has retired after 29 years' service. Mr. Ezzell joined the Weather Bureau at Big Spring, Tex., in 1946. He later transferred to Wichita Falls, Tex., and in 1947 entered on duty at Oklahoma City.

Thomas F. Cummings, financial assistance specialist in NMFS's Division of Financial Assistance, Arlington, Va., has retired after 15 years' Federal service.

Licausi, Retired Employee, Wins Commerce Bronze Medal



Gaspere Licausi, who retired last month as a production specialist in the Reproduction Division of NOS's Office of Aeronautical Charting and Cartography, has received the Department of Commerce Bronze Medal in recognition of his extraordinary contributions in developing procedures to effectively improve the reproduction of navigational charts. Mr. Licausi was first assigned to the Weather Bureau as a junior press operator in 1939. He entered the military service in 1943 and returned to his Weather Bureau position in 1946. He was appointed as assistant press foreman of the WB reproduction plant in 1952. Mr. Licausi entered private business in 1962, but returned to the Bureau in 1963 to accept the assignment of supervisor of the Weather Bureau plant. With the formation of ESSA in 1965, he was assigned as a production specialist. C. Walter Lane, Jr., (right), Chief, Reproduction Division, presents the Bronze Medal to Mr. Licausi.

Emmett H. Miller, principal assistant at the Atlanta, Ga., Weather Service Forecast Office, has retired after more than 40 years' service. Mr. Miller joined the Weather Bureau at Due West, S. C., and transferred to Atlanta in 1938. He subsequently held posts at Charleston, S.C. the University of Chicago; and Washington, D.C.; before his Atlanta assignment.

Mark W. Ellett, meteorologist at the Atlanta, Ga., Weather Service Forecast Office, has retired with more than 39 years of Federal service. Mr. Ellett's other assignments were at Davenport, Iowa; Rock Springs, Wyo. and Kansas City, Mo.

Clayton B. Crooker, meteorologist at the Houston, Tex., Weather Service Office, has retired after completing more than 40 years of service. Joining the Weather Bureau at Wichita, Kans., Mr. Crooker moved to Omaha, Nebr., in 1937 and to Fort Worth in 1940. He has been at Houston since 1956.

Junius K. Farlowe, meteorologist at the Atlanta, Ga., Weather Service Forecast Center, has retired with 34 years' service. Mr. Farlowe entered the Weather Bureau at Charlotte, N.C., and later served at Birmingham, Ala. He transferred to Atlanta in the early days of World War II where his previous training and experience in teaching was put to use in training young women to take over the coding, observing, and communicating jobs in the Bureau and the Federal Aviation Administration stations to relieve the manpower shortage. Later, Mr. Farlowe became a forecaster at Atlanta.

Arville C. Gibson, meteorologist at the Atlanta, Ga., Weather Service Forecast Office, has retired after more than 38 years of service. Mr. Gibson entered the Weather Bureau at Knoxville, Tenn., and later served at Murfreesboro and Nashville, Tenn.; Los Angeles and Pomona, Calif.; and Jacksonville, Fla. He was among the first weather service employees to receive a special meteorological scholarship as air mass analysis techniques were officially adopted in the late 30's.

M. Alma Cooke, meteorological technician at the Macon, Ga., Weather Service Office, has retired after more than 28 years of service. Miss Cooke entered the weather service in 1943 at Butler, Ga. She subsequently held positions at Crestview, Fla.; Atlanta, Columbus, and Athens, Ga., before returning to Atlanta as a meteorologist. In 1959, she transferred to Macon. Miss Cooke was among those young women who, during the critical manpower years of World War II, mastered the tasks of observing and briefing and were the mainstay of weather service field operations.

Christian Fritz, carpenter at the NOS Pacific Marine Center, Seattle, has retired after 44 years of Federal service. Mr. Fritz first joined the Coast and Geodetic Survey in 1926 and served until 1942 when he entered the U.S. Coast Guard. Following his retirement from USCG in 1962, he returned to the Coast Survey.

Claude K. Vestal, regional climatologist at the NWS Southern Region headquarters, Fort Worth, Tex., has retired with 34 years' service. Mr. Vestal joined the Weather Bureau at Greensboro, N.C. Subsequent assignments included Washington National Airport; New York City, where he worked on a special wartime climatological data project; climatological divisions in Washington; and two years as meteorological consultant in Monrovia, Liberia, under a State Department program. After a year of graduate study at Florida State University, Mr. Vestal transferred to Fort Worth where he has served since 1957.

Isaac W. Lord, electronic technician at the Fairbanks, Alaska, Weather Service Office, has retired with 31 years of Federal service. Mr. Lord entered on duty with the Weather Bureau in 1962 following his retirement from the U.S. Navy.

Mrs. Muriel Christgau, employment development specialist in NOAA's Career Development Branch, Personnel Division, has retired after more than 30 years' Federal service. Mrs. Christgau has been involved in the field of employee development programs for more than 13 years.

Frank Fischer, assistant foreman, Litho-Process Section, NOS Reproduction Division, Washington, D.C., has retired after 30 years of Federal service.

Thomas D. Whitely, supervisory electronics engineer in the NWS Engineering Division's Test and Standards Branch, NWS headquarters, has retired after 35 years of service. All of Mr. Whitely's career was spent in the Washington, D.C. area.

Lucius D. Drewry, electronics technician in charge of the Athens, Ga., Weather Service Office, has retired after 15 years of Federal service. Prior to joining the Weather Service at Cape Hatteras, N.C., in 1959, Mr. Drewry had service in the Army Signal Corps and extensive experience as a broadcast engineer.

Mrs. Teddie F. Braselton, secretary at the NWS Southern Region headquarters, Fort Worth, has retired after 13 years of Federal service.

James T. DeJevsky, chemical engineer with NMFS's Division of Fishery Products Technology, College, Park, Md., has retired after ten years' Federal service.

Items to be considered for publication in NOAA WEEK should be submitted to: Office of Public Affairs, NOAA, Room 221, Bldg. 5, Rockville, Md. 20852. Phone (301) 496-8243.

National Oceanic and Atmospheric Administration

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