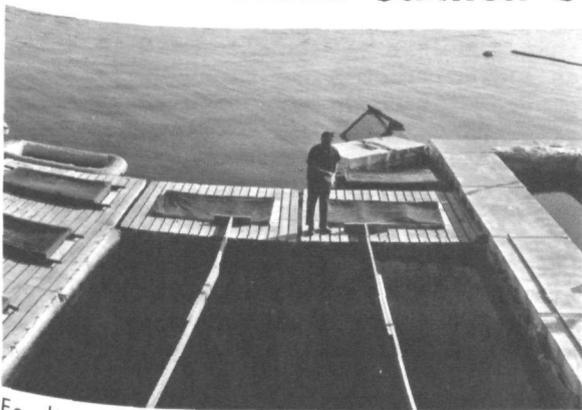




NOAA WEEK

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

\$100,000 Sea Grant Awarded to Private Firm For Commercial Salmon Culture Experiment



Feeding time for the young salmon being reared in captivity.

Salmon culture experiments by the National Marine Fisheries Service have proven so successful that a private firm has started to adapt and expand the system for possible commercial production.

With the aid of a Sea Grant, the firm of Ocean Systems, Inc., based in Reston, Va., will attempt to demonstrate the feasibility of a commercial-sized pilot operation to raise pan-size salmon from egg to market size in enclosures in Puget Sound. The NMFS Biological Laboratory, Seattle, Wash., will provide technical advisory services on the grant.

The NOAA Sea Grant of \$100,000 will be matched by the firm, which is investing an additional amount of nearly \$160,000 in the project. Principal investigator for the project is Jon Lindbergh of Ocean Systems, Inc.

The NMFS Seattle laboratories developed a method of intensively rearing salmon in a relatively short time, providing the direct impetus for the commercial project. The total project to be carried out by Ocean Systems, Inc., is in three phases:

--Salmon are now being cultured for market, under the NOAA Sea Grant.

--The marketability of the cultured salmon will be assessed through test marketing and cost evaluation, in conjunction with the NMFS Division of Marketing. NMFS is now test marketing pen-reared small salmon weighing up to a pound in major U.S. cities. Initial activity has brought verbal commitments from retail chains and restaurants to buy approximately 300,000 pounds. This summer, the fish will be test marketed in several restaurants to determine consumer reaction.

--Information and guidance will be provided to Federal, state, and local agencies on principles of aquaculture, compatibility with other water uses, and possible modification of fishery laws to permit commercial salmon culture operations.

The coho or silver salmon was chosen for this project primarily for its resistance to disease, voracious feeding, history in culture experiments, and value as a food fish. The chinook, another highly desirable species, was included to obtain comparative results. Salmon have several advantages for efforts at culture. They are highly prized as food, they grow rapidly, and their hatchery technology is perhaps the most highly developed of any marine fish. In addition, Puget Sound has an abundance of marine resources where intensive fish culture, using a large supply of clean flowing salt water, is possible.

This Sea Grant is unusual both because it is the first such grant awarded solely to a private firm, and because it was awarded by the NOAA administrative service office in Seattle rather than by the Office of Sea Grant. Following review of the proposal through normal Sea Grant channels, the Office of Sea Grant suggested that grant award and monitoring be undertaken by NOAA field staff in Seattle.

Weather Forecast Service For Travelers Is Test Project

The National Weather Service is conducting a test program in eight Midwestern states of a system of experimental weather forecasts designed specifically for travelers. For some time, officials of the Weather Service have felt that there is a demand for abbreviated forecasts for major U.S. cities that will give long-distance travelers an idea of what to expect when they reach their destinations. The new system, designed initially for publication in newspapers, should fill such a need. Possible use of the forecasts by television and radio stations will also be explored.

The eight states to receive the service in the test program are Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Missouri, and Wisconsin. They will get forecasts for 65 cities, distributed nationwide. Initial release will be to major Midwest newspapers and wire-service offices. After about 60 days, media managers and editors will be asked for reader response to the forecasts. When the new system has been evaluated and refined, it is planned to issue the travelers' forecasts nationally. A daily summary will be compiled by computer at the NWS National Meteorological Center. Cities included in the forecasts will be major transportation centers or state capitals.

Dr. Whitten Serves on NAS Board

The National Academy of Sciences has confirmed the membership of Dr. Charles A. Whitten, Chief Geodesist of the National Ocean Survey, on the Geophysics Research Board. The Board serves as a means of communication and informal coordination among the various committees concerned with the geophysical sciences and for the review of major Board studies.

NOAA Spring Dance Scheduled

The association of NOAA employees in the Washington, D.C., area will have its spring dance on Friday, June 4, in the Crystal Room of St. Bernard's Church in Riverdale, Md. The program features two groups that will play from 9 p.m. to 1 a.m.--Ralph Graves' orchestra and the Colony Rock group. Tickets--at \$3.00 per person--are available from club delegates or Mary Gearhart. Table reservations may also be made through Mrs. Gearhart, telephone code 14-68134.

Florida Seaweed Study Sponsored With \$40,000 NOAA Sea Grant

A \$40,000 NOAA Sea Grant has been awarded to the University of South Florida, Tampa, for ecological and culture studies of a red alga known as *Eucheuma isiforme* that is found in tropical and subtropical regions throughout the world. This common Florida seaweed is one source of carrageenan--a little known but important element in many processed foods. Dr. Clinton J. Dawes, Associate Professor in the Department of Biology, will head the two-year study.

The present world demand for carrageenan far exceeds its supply. In the United States, carrageenan is valued at more than \$25 million annually, and is used as a stabilizer in milk products, toothpaste, diet foods, and shoe shines. Carrageenan is a colloidal extract of seaweed, extracted from several species of red algae including *Eucheuma* and "Irish moss", *Chondrus crispus*. It derives its name from the Irish town of Carrageen. Both the two principal sources are harvested by hand, and *Eucheuma*--the subject of the University of South Florida research--is at present harvested only in the Philippines.

Five species of *Eucheuma* are known in the Caribbean region, but little is known of its ecology and growth cycle. *Eucheuma* harvesting in the Eastern Pacific accounts for more than \$12 million in carrageenan processed each year. Dr. Dawes' studies are expected to aid in the establishment of defined mariculture techniques for potential commercial harvesting in Florida.

New Corps Officers Receive Assignments

The following recent graduates of the NOAA Corps' 36th Officer Training Class have been assigned shipboard duty: Frank B. Arbusto, Jr. - FAIRWEATHER; Steven R. Birkey - McARTHUR; Bruce L. Crumley and Patrick L. Wehling, Jr. - DISCOVERER; James R. Faris - RAINIER; Robert C. Hoge - WHITING; Michael F. Kolesar and Larry L. Minter - MT MITCHELL; James A. Wexler and Carl S. Smyth - OCEANOGRAPHER; Charles L. Kureth, Jr., and James E. Newcomer - SURVEYOR; Richard P. Moore - FERREL; Richard A. Zachariason, Stephen D. Whitaker, and Christopher B. Lawrence - PATHFINDER; Joseph D. Wilson and Robert B. Zider - RESEARCHER; and Stephen A. Young - DAVIDSON.

Five ERL Scientists Receive Awards for Authorship



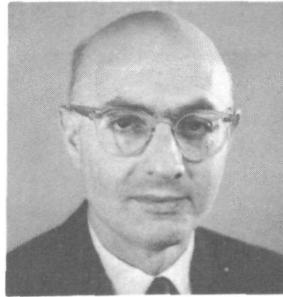
Dr. W.N. Hess ERL Director (right), congratulates Dr. Weinstock.

The 1970 winners of the annual NOAA-ERL Outstanding Paper Awards have been announced by Dr. Wilmot N. Hess, ERL Director. Winners are Drs. Donald V. Hansen, Bryan L. Isacks, Edwin Kessler, Lester Machta, and Jerome Weinstock. In this unique competition, open only to ERL employees, each winner receives a \$500 cash award and a Certificate of Distinguished Authorship.

Dr. Hansen, a research oceanographer at ERL's Atlantic Oceanographic and Meteorological Laboratories in Miami, was honored for his paper, "Gulf Stream meanders between Cape Hatteras and the Grand Banks," Deep-Sea Research, 17, 495-511, 1970. Dr. Hansen, a graduate of the University of Washington, came to AOML in 1965. In 1969, he became Director of AOML's Physical Oceanography Laboratory. He has served as an associate editor for the Journal of Geophysical Research, and as a visiting investigator at Woods Hole Oceanographic Institution.

Dr. Isacks is a research geophysicist in the Earth Sciences Laboratories, and is stationed at the Lamont-Doherty Observatory in Palisades, N. Y. His award-winning paper, co-authored with Peter Molnar, is "Mantle earthquake mechanisms and the sinking of the lithosphere," Nature, 223, 1121-1124, September 1969. Dr. Isacks received his Ph.D. from Columbia University in 1965, and has been associated with the Lamont Observatory since 1964. He was also given an Outstanding Paper Award in 1969.

Dr. Kessler, Director of the National Severe Storms Laboratory in Norman, Okla., won his award for a book entitled "On the distribution and continuity of water substance in atmospheric circulations," Meteorological Monographs, Vol. 10, No. 32, November 1969. Dr. Kessler joined



Dr. Machta



Dr. Kessler



Dr. Hansen



Dr. Isacks

NSSL in 1964, when it was a part of the Weather Bureau, and became an associate professor at the University of Oklahoma in the same year. He received his Sc.D. in meteorology from the Massachusetts Institute of Technology in 1957.

Dr. Machta, Director of ERL's Air Resources Laboratories in Silver Spring, Md., was selected as a winner for a paper co-authored with E. Hughes of the National Bureau of Standards, "Atmospheric oxygen in 1967 to 1970," Science, 168, 1582-1584, June 1970. Dr. Machta, who received his Sc.D. degree from M.I.T., joined the Weather Bureau in 1948 as chief of the Special Projects Section of the Office of Meteorological Research. During the 1950's, he became an advisor to the Atomic Energy Commission on the meteorological interpretation of radioactive fallout, and was active in international groups concerned with fallout. In 1957, the Department of Commerce awarded Dr. Machta a Gold Medal.

Dr. Weinstock, a supervisory physicist in the Aeronomy Laboratory in Boulder, Colo., was honored for his authorship of "Formulation of a statistical theory of strong plasma turbulence," Physics of Fluids, 12, 1045-1058, May 1969. After receiving his doctorate from Cornell University in 1959, Dr. Weinstock joined the National Bureau of Standards as a physical chemist. In 1965, NBS recognized him with a special service award for distinguished theoretical work.

Peterson Receives Bronze Medal; Retires After 35 Years Service



Carl M. Peterson (left), Chief of Observations at the National Weather Service's Pacific Region headquarters, has received the Department of Commerce Bronze Medal "for his outstanding administration of the Pacific Region's observational quality control program." Mr. Peterson, who joined the Weather Bureau as an observer at Huron, South Dakota, retired May 19 after completing more than 35 years of Federal service. He has served at various other weather offices on the mainland, including the Weather Records Processing Center, Kansas City, Mo. Mr. Peterson moved to the Pacific Region in December 1961 as official in charge at Kahului, Maui, and transferred to regional headquarters in May 1965. Paul H. Kutschenreuter, Pacific Region Director, made the presentation at a retirement luncheon in honor of Mr. Peterson.

Dr. Austin, EDS Director, Represents NOAA On International Federation for Documentation

The National Academy of Sciences has appointed Dr. Thomas S. Austin, Director, Environmental Data Service, as NOAA representative for 1971-73, to the International Federation for Documentation (FID). The organization is an international, non-governmental organization, which seeks to promote the development of documentation and information activities through international cooperation. Dr. Austin represented NOAA at a May 21 meeting of the U.S. National Committee for FID--a group comprising representatives from U.S. government and professional organizations, and members-at-large, which serves as the advisory body to the Academy-Research Council on FID matters.

NWS Headquarters Officials Visit Canadian Met Service

Four members of NWS's Systems Development Office visited the Canadian Meteorological Service at their Instrument Division in Toronto, Canada, and Instrument Laboratory in Scarborough, Canada, May 6-7. The meeting was a mutual exchange of information on research and development activities of the two weather services, including automation of weather observing and sensor development. Canadian programs of potential interest to the U.S. meteorologists were: Canada's operational meteorological automatic reporting station similar to the NWS's AMOS III; a meteorological data acquisition component system, similar in concept to the Data Acquisition by Remote Communications system which NWS's Office of Hydrology plans to use; a two-parameter recording system, using a small tape recorder, for obtaining climatological data in uninhabited areas; a unique sunshine switch which eliminates problems found in the model now being used by NWS; an electronically-damped wind direction transducer that is potentially a replacement for the NWS damped wind vane; and a modification to the tipping bucket rain gage, using volume rather than weight, to eliminate most of the "lost tips" in heavy rain.

Attending the meetings from NWS were: Merritt N. Techter, Director, Systems Development Office; Roy E. Wyett, Systems Plans and Design Division; Wayne F. Staats, Equipment Development Laboratory; and Matthew Lefkowitz, Test and Evaluation Laboratory. Canadian hosts were: Hugh Bindon, Chief, Instrument Division; Robert Vockeroth, Superintendent, Instrument Research and Development Section; Henry Belhouse, Superintendent, Plans and Implementation Section; J. Dickson, Supervisor, Instrument Laboratory.

Marini Offers Free Boat Inspections

C. Peter Marini, a qualified Coast Guard Auxiliary Courtesy Examiner, will set up an Examination Station for trailered boats if a number of NOAA employees in the D.C. Metropolitan area are interested in determining whether or not their boats are seaworthy and equipped with the required safety devices. If the boat cannot be trailered, other arrangements can be made. If interested, contact Mr. Marini at 496-8351 (office), or 493-4594 (home).

Cdr. R.W.Franklin To Direct NOS Anchorage Field Office; Scattergood, Corzine, Keeney, and Lowman Named to New Posts



K.L.Keeney



Cdr Franklin



H.E.Lowman



L.W. Scattergood



H.A.Corzine

Cdr. Robert W. Franklin, NOAA Corps officer, has been appointed Director of the NOS Anchorage (Alaska) Field Office, succeeding Capt. G. E. Haraden, who has been named Operations Officer at the Survey's Pacific Marine Center in Seattle. Cdr. Franklin, former Executive Officer of the NOAA Ship RESEARCHER, is scheduled to assume his new duties the first week of June. He joined the Corps following graduation from the Worcester, Mass., Polytechnic Institute in 1957. His assignments have included duty in Washington, D.C.; as chief of party of a Louisiana tide unit; aboard the NOAA Ships SURVEYOR, PATTON and RESEARCHER; and with a photogrammetric flight operations mission.

Leslie W. Scattergood, former Chief of the U.S. Fish and Wildlife Service's Reports Branch, is now Chief of the Scientific Information and Documentation Division's Editorial Branch. In this position, he will supervise and coordinate the reviewing, editing, and printing of NOAA's scientific publications. A graduate of the University of Washington with a bachelor's degree in Fisheries Biology, Mr. Scattergood has spent most of his 33 years of Federal service with the U.S. Fish and Wildlife Service of the Department of Interior.

Harold A. Corzine has joined the Scientific Information and Documentation Division as the new editor of the Monthly

Weather Review. Mr. Corzine, holding both bachelor's and master's degrees in meteorology, has had extensive experience in meteorological research. Prior to his recent appointment, he served with the Naval Air Systems Command's Research and Development Management Office. He was the project officer of the Navy program in weather modification.

Kenneth L. Keeney is the new Official in Charge of the Winslow, Arizona, Weather Service Office. He succeeds Richard S. Baker, who has assumed a new supervisory position at the Phoenix Weather Service Office. Mr. Keeney entered the National Weather Service in 1966, after completing a military career in the U.S. Air Force. Previous Weather Service assignments were at Tatoosh Island and Quillayute, Washington, and, most recently, at Twin Falls, Idaho.

Harold E. Lowman has been named the new official in charge of the NWS office at Concordia, Kansas. He replaces Lee Stinson, who recently moved to the official in charge post at Dodge City, Kansas. Mr. Lowman entered the National Weather Service at Goodland, Kans., in 1946, and also served in weather work at Dodge City and in the cloud physics project at Wilmington, Ohio, before transferring to Alaska in 1956. He will be coming to Concordia from Annette Island, Alaska, where he has been principal assistant.

NOAA Corps Presents Awards To K. F. Burke and H. Dolan



K. F. Burke



H. Dolan

Lt. Cdr. Kenneth F. Burke, NOAA Corps officer in NOS's Geodesy Division, and Hugh J. Dolan, staff attorney in NOAA's Office of the General Counsel, received awards from the NOAA Corps at a dinner held May 15 in Bethesda, Md., to commemorate the 54th anniversary of the commissioned corps.

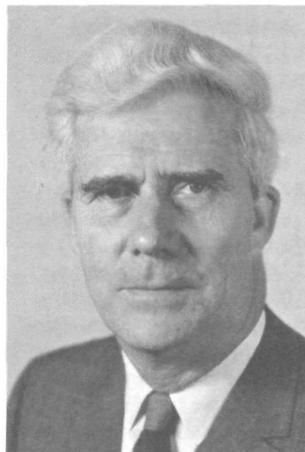
Lt. Cdr. Burke received the Career Motivation Award, a framed certificate given each year to a junior officer in recognition of outstanding achievement, duty performance, and career development. He joined the commissioned officers corps in 1964, following graduation from Manhattan College with a civil engineering degree. He spent two years on hydrographic survey ships and was chief of a geodetic astronomy party for an additional two years. In 1969, Lt. Cdr. Burke received a master's degree from Purdue University. Last June, he completed the basic requirements for the Ph.D. degree in Geodesy.

Mr. Dolan received a replica of the NOAA Corps emblem cast in bronze in appreciation for his service in securing passage of recent legislation providing additional rights and benefits for members of the Corps, and for his legal intervention on behalf of officers who had been denied certain rights and benefits. Mr. Dolan was also cited for taking a special interest in the Corps. Mr. Dolan joined ESSA as a staff attorney in 1966. He received a bachelor's degree in 1950 from St. John's College, Brooklyn, N.Y.; a doctor of law degree from St. John's in 1952; and a master of laws from George Washington University in 1966. Cdr. R. Lawrence Swanson, President of the NOAA Association of Commissioned Officers, made the presentations.

NOS Surveys Florida County For Flood Insurance Data

A two-man National Ocean Survey team, headed by Robert R. Wagner, was scheduled to arrive in Brevard County, Fla., to conduct a survey of coastal areas flooded from hurricanes and severe ocean storms, May 27. The survey is being made at the request of the Department of Housing and Urban Development's Federal Insurance Administration. The Federal Insurance Administration is responsible for establishing insurance rates for private structures, and information furnished by NOS and other cooperating agencies is being used as the basis upon which suitable rates can be determined. In conducting the survey, the NOS team will rely on flood heights and limits of severe storms of the past. Much of this information can be furnished by local residents. The National Weather Service will also furnish the Federal Insurance Administration with analysis of flooding over a larger region of the coast. From this, the highest probable flood of a century will be derived to be used as a basis for establishing insurance rates.

L.M. Murphy Serves as Delegate To International Earthquake Meeting



Leonard M. Murphy, Acting Associate Director of the NOS Office of Seismology and Geomagnetism, represented Dr. Robert M. White, NOAA Administrator, as a member of the U.S. delegation to the International Meeting on Earthquakes, in San Francisco, May 20-25. Mr. Murphy also officially represented the U.S. interest in

the International Tsunami Information Center. The international meeting of earthquake experts was part of a comprehensive study on disaster prevention and post-disaster assistance, which is carried out by the U.S. Government for the Committee on the Challenges of Modern Society of the North Atlantic Treaty Organization (NATO). Other NOAA staff members attending the meeting were: Rutlage J. Brazee, Dr. Don Tocher, Dr. R. Nason, and W. Eskite.

NWS Regional Directors Attend Headquarters Conference



The National Weather Service's Regional Directors' Conference was held in Silver Spring, Md., May 17-21. Shown above are some of the participating officials. Standing, left to right: Harlan K. Saylor, Deputy Director, NMC; Stuart G. Bigler, Alaska Regional Director; Silvio G. Simplicio, Eastern Region Director; Paul H. Kutschenreuter, Pacific Region Director; Charles G. Knudsen, Central Region Director; Lawrence R. Mahar, Southern Region Director. Seated, left to right: William

E. Hiatt, Associate Director for Hydrology; Roy L. Fox, Central Region Director (retired); Dr. George P. Cressman, NWS Director; Dr. Robert M. White, NOAA Administrator; Frank W. Burnett, Deputy Director, NWS; Hazen H. Bedke, Western Region Director; and Merritt N. Techter, Director, Systems Development Office. Not shown is Karl R. Johannessen, Associate Director for Meteorological Operations, NWS.

Operational Amplifiers Studied In NMFS Instrumentation Course

Participants in a laboratory session of the NMFS Instrumentation Course are learning to program and operate operational amplifiers. These devices are useful in synthesizing electronic instruments for use in chemical, biochemical, and analytical laboratories. The short course, co-sponsored by the NMFS Pioneer Research Laboratory and the NMFS Fishery Products Technological Laboratory, both in Seattle, also included laboratory sessions on printed circuitry and solder glass methodology. In addition, mercury determination by atomic absorption spectroscopy, spin-labeling of proteins by electron paramagnetic resonance, advanced polarography, and automated peroxide value determination of lipide were demonstrated.

Dr. Foltz Is Elected Chairman Of AMS Chapter in Washington, D.C.

Dr. Harry P. Foltz, Chief of the NWS Weather Analysis and Prediction Division, has been elected chairman of the Washington, D.C., Chapter of the American Meteorological Society, succeeding Cdr. K. W. Ruggles, Officer in Charge of Navy Project FAMOS (Fleet Applications of Meteorological Observations from Satellites). Other officers elected for the year 1971-1972 in the local chapter include: Captain Hugh Albers, USN - vice chairman; Earl Estelle, Deputy Chief, Analysis and Forecasting Division, NWS - corresponding secretary; Harry O. Davis, Naval Weather Service Command - recording secretary; Maurice E. Pautz, Weather Analysis and Prediction Division, NWS - treasurer; and Dr. Duane Cooley, Chief, Technical Procedures Branch, NWS - member at large.

ADTECH Advisory Committee Discusses Savings Bonds Drive

From the ADTECH Newsletter, May 1971

At a recent ADTECH Advisory Board meeting, a topic of debate was the Savings Bond Campaign and some of the hang-ups that seem to surround it. Following are some of the thoughts and attitudes arising from the discussion.

Every year at this time, our Government asks us to make an all out effort to increase participation in the U.S. Savings Bond program. Federal employees react to this appeal in the same ways--sometimes negatively; sometimes with resignation. Some of the negative reactions are:

The Bond Drive leads to pressuring of the little guy.....

Only if the definition of pressure includes appeals to the traditional American attributes of thrift, competitiveness, helpfulness, and pride, then pressure is a factor in this effort. How many employees would turn in an allotment authorization if no one made an effort to point out the advantages of the program?

There is more money to be made by investing on Wall Street....

There is if you are an astute investor and if you have money to invest which you can risk losing, but do you really find it easy to accumulate a sum large enough to make a meaningful investment? Shouldn't you be buying stock in your own company?

Lake Survey Center Changes System For Disposal of Obsolete Charts

Lake Survey Center Sales Agents are now authorized to cut off and return just the corner of obsolete charts for replacement. The clipped corner will show the chart number and edition data. Previously, agents were required to return the whole chart. Agents have been directed to destroy obsolete charts after clipping the corners. Since there is a possibility that the obsolete charts could be mixed inadvertently with new editions and mistakenly replaced in stock, boaters are advised to check their charts for missing corners. These charts are obsolete.

I have to pay Federal tax on the interest so I'm not really making 5 1/2 percent....

True, you pay tax on most other interest you earn, but if you are saving for a child's education or retirement, there are ways to defer reporting the interest income until a time when the tax due will be eliminated or greatly reduced.

I cash my bonds as soon as I can. I probably cost the Government money.

Savings bond allotments are a good, low-cost source of funds for the Government even if cashed before they mature. If you increase the denominations of the bonds you buy, the Government can use the money longer, and since you will receive them less frequently, you might break the cashing-in habit. Start off with a minimum allotment to purchase a \$50 certificate. You will receive about two bonds a year, which should help reduce the inclination to rush out and cash it. Also, you start earning interest from the date your allotment accumulations total half the price of the bond.

Are you getting a raise between now and September 1? Time your allotment to coincide with the increase. You won't miss the money so much. All things considered, it seems to most of us that saving with U.S. Bonds is a practical thing to do this year.

Frankel, NESS Computer Specialist, Dies

Morris E. Frankel, computer specialist in the Data Processing and Analysis Division, National Environmental Satellite Service, died April 22. Mr. Frankel had completed 39 years of government service. In addition to superior accomplishment awards received during his career, he was awarded the Department of Commerce Bronze Medal in January 1971.

Correction

James C. Myers is the new meteorologist in charge of the National Weather Service Meteorological Observatory at Garden City, Kansas, not New York, as stated in the May 21 issue of NOAA WEEK.

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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