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Billionth NOS Chart Presented to Chief Pressman

Florida University System Is Awarded \$975,000 Sea Grant

The State University System of Florida has received a \$975,000 Sea Grant from NOAA to continue its studies of fisheries resources, ocean engineering, and coastal zone law. The grant will be augmented by \$936,000 in matching funds from State and private industrial sources.

Florida's Sea Grant Program supports activities of the University of Florida (Gainesville), Florida State (Tallahassee), South Florida (Tampa), West Florida (Pensacola), and Florida Atlantic (Boca Raton) Universities, as well as the Florida Institute of Technology (Melbourne) and North Florida Technical College (Jacksonville). The program is under the direction of Dr. Hugh Poponoe.

The Florida System, which has received Sea Grant support for four years, has achieved considerable success in several marine fields, including aquaculture, Dr. Poponoe said. Recently concluded studies at the University of West Florida on the cultiva-

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Stratospheric Research Grant Awarded by ERL

A \$50,000 grant for aerosol sampling research in the stratosphere has been given to Drs. David Hoffman and James Rosen of the University of Wyoming's Department of Physics and Astronomy by the Environmental Research Laboratories.

The grant will enable the University to begin a collaborative research effort with ERL's Aeronomy Laboratory in Boulder, Colo., and to continue monthly stratospheric aerosol samplings from Laramie, Wyo., and annual samplings from Antarctica using

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SECRETARY OF COMMERCE ELLIOT L. RICHARDSON (right) compliments Marvin Emminizer, the National Ocean Survey's Chief Pressman, for his role in producing the NOS' Billionth Navigational Chart. Other participants in the ceremony, held in the NOS pressroom in the Commerce Department Building, included Dr. Robert M. White, NOAA Administrator (second from left), and R. Adm. Allen L. Powell, NOS Director.

Secretary of Commerce Elliot L. Richardson this week received the billionth navigational chart issued by the National Ocean Survey--and promptly presented it to the pressman who printed it.

He said it was only right to present it to the "dedicated craftsman who has given the last 25 years of his life to the production of better and better charts."

The recipient was Marvin Emminizer, of 4140 Annapolis Road, Baltimore, Md., Chief Pressman of the NOS.

Secretary Richardson then accepted the billion-and-first chart, also a navigational chart of Annapolis Harbor, at the special ceremony in the Department of Commerce pressroom. The billionth chart ceremony was attended by more than 50 Federal and State officials.

The new edition of the Annapolis Harbor Chart has been designated by NOAA as one contribution to the Nation's bicentennial celebration. In addition to an inset of the original Annapolis Harbor chart printed 130 years ago, the new edition contains a description of the technological advances made in the printing process since the Survey was created by Thomas Jefferson in 1807.

Secretary Richardson pointed out that navigational charts--both nautical and aeronautical--are businesslike in appearance

(Continued on page 3)

New York Receives CZM Grant

NOAA has awarded a \$373,000 grant to New York State to assist it in planning for the physical, social, and economic onshore changes which could occur from oil and gas leasing on the Outer Continental Shelf.

Planning will focus on five areas considered likely to be most affected by offshore operations: a portion of New York City and the coastal counties of Nassau, Suffolk, Westchester, and Rockland.

The various studies the State will perform to determine potential onshore impacts include identification of the probable benefits of offshore production on the State economy; analysis of the need for additional housing, educational, health, and recreational facilities to support offshore operations; examination of land use and master plans to determine where to locate necessary onshore support facilities; determination of the nature of shore operations required to service OCS development; evaluation of the effects of offshore production on State and local revenues; surveying activities originating outside the State which

could affect areas within, such as pipelines and oil spills; identification of critical natural resources which are particularly vulnerable to spilled oil; and assessment of factors contributing to oil spills.

The State also may evaluate existing laws affecting its coastal

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Arnold R. Hull, EDS Deputy Director, Dies

Arnold R. Hull, Deputy Director of the Environmental Data Service since October 1974, died March 2 in Bethesda, Md.

He joined the EDS Headquarters staff in April 1971 as Associate Director for Climatology, after retiring from the U.S. Air Force with the rank of Colonel and as Commander of the Sixth Weather Wing.

In that Air Weather Service position he was responsible for providing aerospace environ-

mental support to all U.S. Air Force research and development activities, and also directed the Air Force climatological program and the efforts of the Environmental Technical Applications Center.

He was a member of the American Meteorological Society and chairman or member of eight World Meteorological Organization committees. His military honors included the Legion of Merit, the Bronze Star, and the Air Force Outstanding Unit Award.

He is survived by his wife, Doreen, of 4624 Westridge Place, Camp Springs, Md.; a son, Robert; and a daughter, Mrs. Paul Condit.



Mr. Hull

Current Vacancies in NOAA

To insure that NOAA employees are aware of job possibilities throughout the agency, a list of current NOAA-wide vacancies is published below. Employees interested in any of the listed vacancies

should contact their servicing personnel office for information on where to apply.

Announcement Number	Position Title	Grade	MLC	Location	Issue Date	Closing Date
420-76	Supv. Fishery Biologist	GS-14	NMFS	Milford, Conn.	2-26-76	3-11-76
421-76	Meteorological Tech.	GS-10	NWS	St. Cloud, Minn.	2-26-76	3-11-76
422-76	Supv. Meteorologist	GS-14	NWS	Denver, Colo.	2-26-76	3-11-76
423-76	Meteorological Tech.	GS-9	NWS	Limon, Colo.	2-26-76	3-11-76
424-76	Meteorological Tech.	GS-10	NWS	Kansas City, Mo.	2-26-76	3-11-76
425-76	Computer Spec.	GS-11/12	NOS	Rockville, Md.	2-26-76	3-11-76
426-76	Computer Spec.	GS-13	NOS	Rockville, Md.	2-26-76	3-11-76
428-76	Supv. Oceanographer	GS-13	NMFS	Woods Hole, Mass.	2-26-76	3-11-76
408-76	Industry Economist	GS-13	NMFS	Washington, D.C.	2-27-76	3-12-76
430-76	Supv. Oceanographer	GS-15	ERL	Miami, Fla.	2-27-76	3-12-76
431-76	Supv. Meteorologist	GS-14	NWS	Washington, D.C.	2-27-76	3-12-76
432-76	Mathematical Statistician	GS-12	NMFS	Seattle, Wash.	2-27-76	3-12-76
433-76	Meteorologist	GS-13	NWS	Salt Lake City, Utah	2-27-76	3-12-76
434-76	Meteorologist	GS-14	NWS	Washington, D.C.	2-27-76	3-12-76
435-76	Meteorologist	GS-14	NWS	Boston, Mass.	2-27-76	3-12-76
436-76	Electronics Tech.	GS-10	NWS	Augusta, Ga.	2-27-76	3-12-76
437-76	General Physical Scientist	GS-15	NOS	Bay St. Louis, Miss.	2-27-76	3-12-76
438-76	Hydrologist	GS-9	NWS	Silver Spring, Md.	3-1-76	3-15-76
439-76	Electronic Tech.	GS-10	NWS	Waterloo, Iowa	3-1-76	3-15-76

Performance Ratings

The annual performance rating is a supervisor's evaluation of an employee's overall performance during the preceding rating period which begins April 1 of each year and ends March 31 of the following year. The rating is expressed as outstanding, satisfactory, or unsatisfactory.

Performance ratings must cover a minimum period of ninety days. For this reason, employees who have more than three months service on March 31, but who, after January 1, have been promoted or reassigned, have had a change in supervision, or have received a warning of unsatisfactory performance, will not be rated until ninety days thereafter. Employees who initially entered on duty after January 1, will not be rated for the current performance rating year.

Supervisors and employees share the responsibilities in making sure that performance ratings are meaningful. Employees should ask their supervisors to clarify any phase of assigned work they do not understand, and supervisors are expected to establish an open door policy, whereby any employee may feel free to request job clarification. Employees, likewise, are expected to accept any constructive evaluation of and suggestions for improvement of their work.

Supervisors, in addition to counseling with employees to improve their work, serve as rating officials. They determine the level of performance required for each kind of work under their supervision and continually appraise employees' performance against the requirement.

Outstanding ratings are awarded when an employee's performance clearly exceeds all aspects of performance standards relating to the position and when the employee deserves special commendation as well. Supervisors periodically consider recommending an incentive award for an employee who has been assigned an outstanding rating.

Employees whose performance meets or exceeds most aspects of the position are rated satisfactory. An employee rated as satisfactory generally has some aspects of work performance which could be improved, balanced with outstanding work performance in other work areas. Satisfactory ratings do not require a written justification.

Unsatisfactory ratings are used when an employee's performance is weak in essential aspects of the job requirements and is not offset by strong performance in other areas. Employees may be given an unsatisfactory rating only after a written warning has been issued, not less than ninety days nor more than six months prior to the date the rating period ends. Warning letters must inform employees where their job performance has not met performance standards, how they may bring their work up to a satisfactory level and what efforts the supervisor will make to help raise the level of job performance. If an employee's performance remains at a low level after the ninety day period, an unsatisfactory rating is prepared.

Employees receiving unsatisfactory ratings must be removed from the positions they currently occupy. They may be reassigned or demoted to positions in which they can perform at a satisfactory level or, if necessary, employees receiving unsatisfactory ratings may be separated from the Federal Service.

Employees may appeal both satisfactory and unsatisfactory ratings within thirty days after the receipt of the rating. Appeals of unsatis-

factory ratings may be made within NOAA and to the Civil Service Commission. However, an appeal may not be made to NOAA after it has been made to the Civil Service Commission. Appeals of satisfactory ratings may be made to either NOAA or CSC but in no case to both. The original choice is final.

Supervisors and employees who have any questions regarding performance ratings should consult Chapter 18, Performance Ratings, of the NOAA Personnel Handbook or contact their servicing personnel office.

New Special Emphasis Coordinators Appointed

The EEO and Special Emphasis Section, Special Personnel Programs Branch, Personnel Division is responsible for formulating NOAA's National EEO Affirmative Action Plan; coordinating all of NOAA's recruitment efforts; placing special emphasis on minority and women applicants; and coordinating the Federal Women's Program, the Spanish-Speaking Program, the Cooperative Education Program, the Handicapped Program, and the Vietnam Era and Disabled Veterans Program. These special emphasis areas within the overall NOAA EEO Program have been designated as such by either Federal legislation or Executive Orders.

In order to give these programs the special attention required by law, the following personnel have been appointed as Program Coordinators: Ms. Hale Lopes, Co-operative Education Program; Ms. Joyce Thomas, Federal Women's Program; Ms. Anita Daymude, Spanish-Speaking Program; and Mr. John Wetstine, Handicapped Program, and the Vietnam Era and Disabled Veterans Program. The coordinators are responsible for monitoring their special emphasis programs and seeing that proper consideration is given to the employment, placement, training, and promotion of the groups involved. In addition, it is also their responsibility to coordinate their activities with their counterparts in the field and to report on their programs as required. They must be thoroughly familiar with all current legislation and new approaches in their areas of responsibility in order to keep NOAA employees aware of any changes in these programs as they occur. The appointment of these coordinators will help to assure that NOAA has a more vital and aggressive EEO Program.



Hale Lopes



Anita Daymude



Joyce Thomas



John Wetstine



THE 1976 NATIONAL CATFISH COOKING CHAMPION, Martha Gayle Peeler (center), receives her first-place awards from Bertha Fontaine, National Marine Fisheries Service Seafood Consumer Specialist, and Bob Finley, Director of the NMFS National Fishery Education Center. Ms. Peeler is a home economist with the Mississippi Department of Agriculture and Commerce, stationed at Pascagoula. Ms. Fontaine and Mr. Finley cochaired this national cook-off in Biloxi, Miss., during the recent national convention of the Catfish Farmers of America.
The recipe for Ms. Peeler's prize-winning entry, Dixie Catfish Over Pecan Rice, appears below.

DIXIE CATFISH WITH PECAN RICE

- 4 skinned, pan-dressed catfish (8-10 ounces each) fresh or frozen
- 1/2 cup cornmeal
- 1 teaspoon salt
- 1/4 teaspoon black pepper
- 1/4 cup cooking oil
- 1/2 cup pecans, finely chopped
- 1 lemon wedges
- 1/4 parsley sprigs

Thaw frozen catfish. Mix cornmeal, salt, and pepper. Dip catfish in cornmeal mixture. Place catfish on a flat, well-greased baking pan. Pour oil over catfish. Oven-fry at 500° F., approximately 15 minutes or until catfish flakes easily when tested with a fork. Sprinkle with pecans toward the end of the cooking period. Serve catfish on platter along with Pecan Rice. Garnish with lemon wedges and parsley sprigs. Serves 4.

PECAN RICE

- 2 1/2 cups cooked brown rice
- 1/4 cup onion, finely chopped
- 2 tablespoons margarine
- 1/2 cup pecans, finely chopped
- 2 tablespoons minced parsley
- 1/4 teaspoon basil
- 1/4 teaspoon ground ginger
- 1/4 teaspoon black pepper
- 1/4 teaspoon salt

Saute onion in melted margarine. Add onion, pecans, parsley, and spices to rice and mix well.

Dr. Little and Wait Named Officers Of National Scientific Organization

The National Academy of Sciences' National Research Council has appointed Drs. C. Gordon Little and James R. Wait of the Environmental Research Laboratories to three-year terms as Vice-chairman and Secretary, respectively, of the U.S. National Committee of the International Union of Radio Science. Dr. Little has just completed a term as the Committee's Secretary.



Dr. Little **Dr. Wait**

The International Union of Radio Science is one of 17 world scientific unions organized under the International Council of Scientific Unions. Its principal aims are to promote the scientific study of radio communications, to aid and organize radio research requiring cooperation on an international scale, to encourage the discussion and publication of the results, and to facilitate agreement upon common methods of measurement and the standardization of measuring instruments.

Dr. Little, Director of ERL's Wave Propagation Laboratory, in Boulder, Colo., has received a Commerce Gold Medal for distinguished contributions to the physics of radio propagation and other research programs in radio science; was awarded the first NOAA Program Management and Administration Award for his leadership of the WPL; and has been recognized for distinguished authorship. He has also served on several National Academy of Sciences committees and currently chairs a panel on violent

storms. WPL Director since 1967, Dr. Little also served as Acting Deputy Director of ERL from 1972 - 1974.

Dr. Wait, Director of ERL's Theoretical Studies Group, is internationally recognized as a leader in theoretical studies of electromagnetic wave propagation in the earth and its atmosphere. His work in the area of wave-guide theory is considered basic to understanding the propagation of radio waves in the ionosphere.

One of the most prolific authors in the field, he has written three books, edited or contributed to several others, and has published several hundred papers on electromagnetic wave propagation. He was awarded a Commerce Gold Medal "for highly distinguished authorship in the field of radio propagation" in 1958, and also has won several awards from national scientific organizations.

BOMEX Rawinsonde Atlas Is Published

The "BOMEX Rawinsonde Atlas," the last of the atlas publications dealing with the Barbados Oceanographic and Meteorological Experiment, has been published by the Environmental Data Service's Center for Experiment Design and Data Analysis.

Based on data collected during the first three BOMEX observation periods (May to June 1969),

it contains time cross sections of specific humidity, potential temperature, u and v wind components and windspeed and direction; temperature profiles; and pseudodiabatic charts.

The BOMEX Period III Atlas of Low-Level Atmospheric Data and the BOMEX Period III Radar-Satellite Atlas were also published in 1975. The former consists of day-to-day time series displays of data obtained in late June and early July 1969 from the boom instrumentation on the BOMEX ships and from the specially designed Boundary Layer Instrument Package (BLIP). The latter, covering the same time period, shows time-matched radar and satellite products: (1) composites of data from the radar on the island of Barbados, one of the ship radars, and the radar aboard one of the aircraft; and (2) satellite photographs and maps consisting of ATS III cloud photographs and Nimbus 3 high-resolution and medium-resolution infrared radiometer minimum cloud top maps.

For availability of copies of these publications, write to the Center for Experiment Design and Data Analysis, EDS, NOAA, Washington, D.C. 20235.

Billionth Chart Ceremony (Continued from page 1)

but "to the men and women who use them, these charts have more glamor than the most spectacular centerfolds yet devised," for their lives and safe navigation depend upon them.

In presenting a signed copy of the chart to the Secretary, Dr. Robert M. White, NOAA Administrator, pointed out that while the chart is a special bicentennial issue, "it is and remains a mariner's chart, and can be used by commercial shippers and recreational boaters."

Although the Annapolis Harbor Chart is a nautical chart, Dr. White said, "it was aviation, with its burgeoning demands, that brought us into really high vol-

ume production. It is certain that we shall reach our second billion in infinitely less time than it took to attain the first."

NOS Director R. Adm. Allen L. Powell said that the Survey today issues approximately 43 million copies of charts each year, in addition to Coast Pilots, tide tables, tidal current tables, and aeronautical chart supplements.

The Annapolis Harbor Chart, number 12283, 16th Edition, is priced at \$3.25. It may be obtained from the NOS Distribution Division (C44) Riverdale, Md. 20840 (telephone 301-436-6990) or from local marine supply agents.

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NOAA Week reserves the right to make corrections, changes or deletions in submitted copy in conformity with the policies of the paper or the Administration.

Therese S. Cawley, Editor
 Warren W. Buck, Jr., Art Director

notes about people

Billy J. Smith, who has been Principal Assistant at the National Weather Service Office in Athens, Ga., Since 1972, has been named to succeed G. Cleveland Holladay as Meteorologist in Charge there.



Mr. Smith

Mr. Holladay, who retired recently after 37 years of Federal Service, served in Louisville, Ky.; Washington, D.C.; Chattanooga, Tenn.; Atlanta, Ga.; Manila, P.I.; North Platte, Nebr.; Philadelphia, Pa., and San Juan, P.R., before going to Athens.

Mr. Smith joined the NWS at Amarillo, Tex., in 1959, after three years of weather work in the Air Force. He has studied at Amarillo College and West Texas State College, and received his meteorological education through courses from Oregon State, Penn-

sylvania State and the University of Oregon.

James H. Henderson has been named as the new Regional Radar Meteorologist at the National Weather Service Central Region Headquarters in Kansas City, Mo. He was formerly Forecaster and Special Programs Meteorologist for Air Pollution and Forestry at the Weather Service Forecast Office in Birmingham, Ala.



Mr. Henderson

He previously served as Research Meteorologist with the National Severe Storms Laboratory at Norman, Okla.; as Agriculture Meteorologist at Quincy, Fla.; and with the Air Weather Service.

He has B.S. and M.S. degrees from Florida State University and has worked toward his Ph.D. at the University of Oklahoma.

Sea Grant to Florida Universities *(Continued from page 1)*

tion of lugworms (used as bait in sport fishing) resulted in a model plan for a lugworm farm capable of producing more than a million marketable worms annually. Plans for several pilot hatcheries along the Atlantic coast are now being considered. The worms command premium prices of up to three dollars a dozen.

Under this year's grant, scientists at the University of Florida will conduct a biological study of the spiny lobster, responsible for the State's second largest commercial fishery. The lobsters' distribution, abundance, and seasonal movements will be examined with the goal of providing information helpful in developing a long-term management strategy for the lobster industry.

Biologists at Florida Atlantic University are trying to discover a synthetic chemical bait to attract spiny lobsters which would be cheaper and more convenient than conventional, natural baits now in lobster pots.

The System's Ocean Engineering program will see continuation of investigations at the University of Florida on erosion of Florida's beach sand. Studies at Florida Atlantic University will examine seawater corrosion of steel reinforced concrete structures. Many of Florida's 4,000 reinforced concrete bridges are in hostile coastal zone areas or even the open sea. The State Department of Transportation, which estimates that the anticipated replacement of the Florida Key bridges alone over the next 10 years could cost as much as \$250 million, is especially inter-

ested in discovering the best and most economical materials with which to build new bridges.

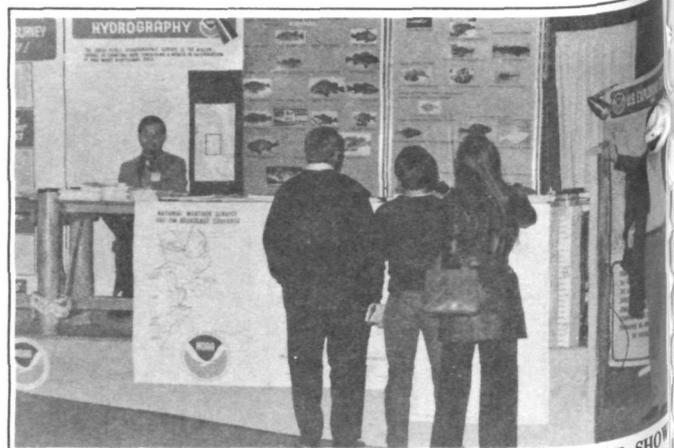
Several legal experts, including an investigator at the University of Florida's Center of Competence for Eastern Water Law, will work on a law program designed to protect the public's interest in Florida's beaches. Researchers will develop model ordinances based on types of coastal beaches, wetlands, and dunes for which protection has been attempted at the State, county, or local level. The model ordinances, including those pertaining to beach access, coastal construction setback lines, and dune protection and preservation, will be made available to State and county legislative bodies.

Stratospheric Research Grant *(Continued from page 1)*

balloon-borne instrument packages.

Aeronomy Laboratory scientists used the university's balloon launch facilities at Laramie last year to conduct a stratospheric gas sampling program and to "piggy back" an experiment package on the university's balloon launch from Antarctica in January.

NOAA and Wyoming scientists are particularly interested in sampling the amounts of fluorocarbons (used principally as refrigerants and propellants in aerosol sprays) and nitrogen oxides in the stratosphere on a global scale to assess the possible danger these compounds may pose to the ozone layer.



NOAA'S EXHIBIT AT THE RECENT SEATTLE BOAT SHOW was manned by National Ocean Survey, National Weather Service, and National Marine Fisheries Service personnel in the Seattle area. Here, Lt. Cdr. Kenneth E. Lilly, Jr. (left), who is assigned to the Seattle Weather Service Forecast Office, is ready to talk to some of the approximately 84,000 persons who attended the 10-day show.

N.Y. Receives CZM Grant *(Continued from page 1)*

zone and recommend new or amended legislation, provide the Governor and legislature with an appraisal of OCS activities, and allocate a portion of the NOAA grant to interstate agencies to develop a work program for each of the proposed OCS leasing areas, including Baltimore Canyon and Georges Bank.

New York officials said that the results of the studies will be integrated into the development of a broad coastal zone management program currently being developed to preserve coastal ecosystems, while allowing the coast to be used for recreation, development, housing, agriculture, transportation, energy production, and other important purposes.

New York is in the initial phase of developing its CZM program, which is expected to take three years to produce. The current grant is a supplement, awarded under terms of the Coastal Zone Management Act of 1972, to the first year grant of \$550,000 the State received in November 1974 from the Office of Coastal Zone Management.

Under the Act, New York

may receive two more grants to develop its CZM program, and additional grant funds to implement the plan once it is approved by the Secretary of Commerce.

obituaries

Lawrence L. Graves

Lawrence L. Graves, former Compiler in the Coastal Mapping Division at the National Ocean Survey's Atlantic Marine Center in Norfolk, Va., died on February 12 in Virginia Beach, Va. He had retired in 1973 with more than 27 years of service.

He is survived by his wife, Ann, a son, and a daughter. The family may be contacted at 748 Emerald Lake Drive, Apt. 101, Virginia Beach, Va. 23457.

Jane B. Katusha

Jane B. Katusha, former Weather Service Specialist at the National Weather Service Office in Harrisburg, Pa., died on February 29. She had retired in 1971.

During her NWS career, which began in 1940, she also served at Kylertown, Park Place, Philadelphia, Williamsport, and Curwensville, Pa.; and Cleveland and Akron, Ohio.

She is survived by her husband, William, and a daughter, Kathy, of R.D. 3, Mechanicsburg, Pa. 17055.

Jacob J. Smith

Jacob J. Smith, former Weather Service Specialist at the National Weather Service Forecast Office in Indianapolis, Ind., died on February 4. He had served in Indianapolis for 40 years before his retirement in 1956.

He is survived by his wife, Frances, of 201 N. Shortridge Road, Indianapolis, Ind. 46217, and six children.

National Oceanic and Atmospheric Administration

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