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LIBRARY

U. of N.C. Is Designated a Sea Grant College

Secretary of Commerce Elliot L. Richardson has announced the designation of the University of North Carolina as a Sea Grant College. Ceremonies marking the event will take place later in the year.

"In the North Carolina Sea Grant Program's six years of existence," the Secretary said, "its constituent projects have made considerable strides in the fields of aquaculture, coastal zone studies, education, and advisory services." Most important to the program's success, he added, have been its strong ties with State agencies and private industry.

In recognition of the excellence of a university's marine program, the Secretary of Commerce may confer on it Sea Grant College status. Since the founding of the National Sea Grant Program in 1968, only ten

(Continued on page 3)

President Ford Congratulates Sea Grant

President Ford has added his congratulations to the National Sea Grant Program on its tenth anniversary and commended the people who conceived and sponsored it: Dr. Sanford Atwood, Dr. John A. Knauss, Sen. Claiborne Pell, Cong. Paul G. Rogers, and Dr. Athelstan Spilhaus, who is now Special Assistant to Dr. Robert M. White, NOAA Administrator.

Cong. Charles A. Mosher, Master of Ceremonies at the American Oceanic Organization's reception honoring Sea Grant last night, read the following letter he had received from the President to the estimated 300 persons who attended the event:

July 27, 1976

Dear Chuck:

I have just learned that the American Oceanic Organization is hosting a reception in the Senate Caucus Room to celebrate the creation of the National Sea Grant Program. I hope that as Master of Ceremonies, you will express my very best wishes to all who participate.

Created by the Congress
(Continued on page 4)

Templeton Is EDS Employee of Year

Benjamin Templeton, Chief of the Equipment Operations Section of the Environmental Data Service's Center for Experiment Design and Data Analysis, has received the EDS Outstanding Employee of the Year Award for his dedication and personal involvement in every phase of data processing for the GARP Atlantic Tropical Experiment (GATE).

He supervised the production system which processed all U.S.B-scale GATE data—the largest batch of data ever amassed in an oceanic expedition. These included navigation data, surface and upper air meteorological data, subsurface oceanographic data, and digital radar data collected by five U.S. research vessels.

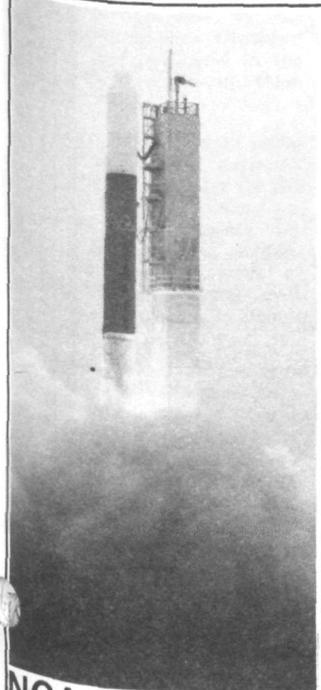
(Continued on page 4)

ERL Stratospheric Sampling Technique Is Demonstrated for Soviet Scientists

An Environmental Research Laboratory scientist is launching two large balloons into the stratosphere over Wyoming to measure manmade chemicals there—and demonstrate the technique for a team of Soviet scientists.

Dr. Arthur Schmeltekopf, Program Leader of the Aeronomy Laboratory's Stratospheric Sampling Group, uses instrument-bearing balloons in an effort to learn whether such manmade chemicals as fluorocarbons actu-

(Continued on page 3)



NOAA-5 Launched

On July 29, NOAA-5, the Nation's newest operational environmental satellite, was put into orbit aboard this NASA two-stage Delta launch vehicle from Vandenberg Air Force Base, Lompoc, Calif. NOAA-5 will provide visible and infrared images of cloud cover, snow, ice, the sea surface and information on atmospheric moisture and temperatures.

WELCOMING THE FORMER COAST AND GEODETIC SURVEY HYDROGRAPHIC VESSEL EXPLORER during her visit to Washington, D.C., last week, as part of Operation Sail were Sen. Warren G. Magnuson (right) of Washington State and top NOAA officials. The senator presented the Explorer's skipper, Dr. Clayton Janecky, with an American flag which had flown over the Capitol Building, and, in turn, received a mounted brass spike similar to the ones used to construct the ship in 1904.

Dr. Janecky also received a NOAA flag and a geodetic survey marker bearing South Pole coordinates which he displays (at right) flanked by (from left) R. Adm. Harley D. Nygren, Director of the NOAA Corps; Dr. Robert M. White, NOAA Administrator; and R. Adm. Allen L. Powell, Director of the National Ocean Survey.



personnel perspective

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
703-76	Meteorological Tech.	GS-10	NWS	Omaha, Nebr.	7-21-76	8-4-76
709-76	Contract Specialist	GS-5	NOS	Bay St. Louis, Miss.	7-22-76	8-5-76
716-76	Physicist	GS-13	ERL	Boulder, Colo.	7-26-76	8-9-76
722-76	Meteorological Tech.	GS-10	NWS	Grand Rapids, Mich.	7-26-76	8-9-76
708-76	Supv. Cartographic Tech.	GS-13	NOS	Rockville, Md.	7-22-76	8-12-76
725-76	Electronics Tech.	GS-12	NWS	Columbia, S.C.	7-29-76	8-12-76
726-76	Electronics Tech.	GS-10	NWS	Burlington, Vt.	7-29-76	8-12-76
727-76	Electronics Tech.	GS-9	ERL	Miami, Fla.	7-29-76	8-12-76
710-76	Oceanographer	GS-15	HDQS	Rockville, Md.	7-23-76	8-13-76
711-76	Supv. Operating Accountant	GS-11	HDQS	Boulder, Colo.	7-23-76	8-13-76
712-76	Supv. Computer Specialist	GS-15	HDQS	Rockville, Md.	7-23-76	8-13-76
713-76	Realty Specialist	GS-12	HDQS	Washington, D.C.	7-23-76	8-13-76
729-76	Electronics Tech.	GS-10	NWS	Charleston, W. Va.	7-30-76	8-13-76
730-76	Electronics Tech.	GS-10	NWS	Scranton, Pa.	7-30-76	8-13-76
731-76	Meteorological Tech.	GS-10	NWS	Huntington, W. Va.	7-30-76	8-13-76
732-76	Meteorological Tech.	GS-10	NWS	Caribou, Maine	7-30-76	8-13-76
736-76	Meteorologist	GS-12	EDS	Houston, Tex.	7-30-76	8-13-76
737-76	Personnel Assistant	GS-6	NWS	Salt Lake City, Utah	8-2-76	8-16-76
742-76	Equal Opportunity Specialist (Part-time)	GS-9	ERL	Boulder, Colo.	8-2-76	8-16-76
717-76	Electronics Tech.	GS-9	ERL	South Pole, Antarctic	7-26-76	8-17-76
719-76	Supv. Meteorologist	GS-14	ERL	Boulder, Colo.	7-26-76	8-17-76
720-76	Supv. Space Scientist	GS-14	ERL	Boulder, Colo.	7-26-76	8-17-76
721-76	Electronics Tech.	GS-9	ERL	Barrow, Alaska	7-26-76	8-17-76
723-76	Supv. Physical Scientist	GS-14	ERL	Miami, Fla.	7-26-76	8-17-76
724-76	Engineering Tech.	GS-12	NOS	Rockville, Md.	7-29-76	8-19-76
728-76	Oceanographer	GS-14	ERL	Miami, Fla.	7-29-76	8-19-76
733-76	Meteorologist	GS-14	NWS	Washington, D.C.	7-30-76	8-20-76
734-76	General Biologist or Geologist	GS-13	HDQS	Washington, D.C.	7-30-76	8-20-76
735-76	Foreign Affairs Officer	GS-14	NMFS	Washington, D.C.	7-30-76	8-20-76
743-76	Mathematician	GS-12	NESS	Suitland, Md.	8-6-76	8-20-76
744-76	Physical Scientist	GS-13	EDS	Camp Springs, Md.	8-6-76	8-20-76
745-76	Hydrologist	GS-11	NWS	Des Moines, Iowa	8-6-76	8-20-76
746-76	Supv. Electronics Engineer	GS-12	NWS	Kansas City, Mo.	8-6-76	8-20-76
747-76	Hydrologist	GS-11	NWS	Omaha, Nebr.	8-6-76	8-20-76
748-76	Supv. Meteorologist	GS-14	NWS	Minneapolis, Minn.	8-6-76	8-20-76
749-76	Supv. Meteorologist	GS-13	NWS	Bismarck, N. Dak.	8-6-76	8-20-76
750-76	Meteorologist	GS-13	NWS	San Juan, P.R.	8-6-76	8-20-76
751-76	Meteorologist	GS-13	NWS	Atlanta, Ga.	8-6-76	8-20-76
752-76	Meteorologist	GS-13	NWS	Birmingham, Ala.	8-6-76	8-20-76
753-76	Meteorologist	GS-12	NWS	Reno, Nev.	8-6-76	8-20-76

Suggestion Awards Given

In order to recognize the contributions of NOAA employees who have offered suggestions on ways to cut costs, improve efficiency or safety or, in other ways, contribute to an overall improvement in the operations of NOAA, *Personnel Perspective* is publishing on a quarterly basis, the names and suggestions of employees who have been given suggestion awards.

The following NOAA employees received suggestion awards during the period of April 1 - June 30, 1976:

Suggester's Name	Amount of Award	Suggestion Title
Jack R. Main	\$100.	Self Service Gasoline Use
Martin Rich	\$ 25.	Protector for Anchor Bolt Threads
T. J. Drey	\$ 25.	Laser Eye Safety
M. Lindstrom	\$ 25.	Memo Forms
Robert Van Fleet	\$100.	Organizational Directory
Arthur A. Cousin	\$ 25.	Paint Shaker (Chemical Mixer)
LaRue Amacher	\$150.	Satellite Applications Information Note Visual Aids
LaRue Amacher	\$200.	Annotated Video Satellite Data Communications
LaRue Amacher	\$ 80.	Video Tape Animated Satellite Loops (Real Time)
Jocelyn B. Martin	\$ 75.	Lat. or Long. Sort
Roger E. Moquin	\$ 25.	Identifying and Color Tabing of Lithographic Plates

Name	Amount	Description for Property
James E. Fuchs	\$350.	Owner
C. H. Stanton Massey, Jr.	\$ 50.	Page Numbering on Communications
Donald J. Bowers	\$100	Fire Protection
David L. Chapman	\$150.	Appreciation Token
Thelma Jones	\$ 25.	Smooth Sheet Protectors
William K. Poust	\$330	Archival Negative Storage
Frank J. Soboczynski	\$450.	Mailing HPD Charts
Yolanda R. Goodge	\$ 40.	Addition of Jogger to Room 280-A
Robert O. Hefferman	\$150.	Minicomputer Card Support
Claude E. Grisham	\$ 25.	Standardization of the Barogram Legend
Harvey W. Pointer	\$300.	B103 and B104 Attenuator and Test Set
Clyde R. Welsh	\$ 25.	Correction of Weight Variance in Shutter Assemblies
David G. Brandon	\$ 25.	MFLT Verification Log
William C. Henry	\$ 25.	Fisher Porter Interrogation
Fred P. Durrett	\$ 25.	Mini Computer Paper Tape Guide
Walter E. Highberg	\$ 75.	Editing of Computer-Generated RAOB Message Tape
James R. Henley	\$ 35.	VHF Tone Keying

ERL Hosts WMO Conference On Weather Modification

Weather modification activities in the United States, the Soviet Union, Argentina, Israel, and many other nations were the subject of an international meeting held this week in Boulder, Colo.

Hosted by the Environmental Research Laboratories, the August 2-6 meeting was the Second Scientific Conference on Weather Modification organized by the World Meteorological Organization. The first was held in the Soviet city of Tashkent three years ago.

More than four hundred scientists from a score of nations—many of them in Boulder for the International Cloud Physics Conference—exchanged theories, discussed results of field experiments, and described some of the specialized equipment used in scientific attempts to change the weather.

A major purpose of the conference was to discuss plans for a weather modification program—the Precipitation Enhancement Project (PEP)—a major experiment now planned by the multinational organization.

Co-sponsors of the present meeting included the International Association of Meteorology

and Atmospheric Physics, American Meteorological Society, and the National Center for Atmospheric Research.



COMMISSIONING CEREMONIES FOR THE NEW WSR 74-C RADAR at the National Weather Service Office in Norfolk, Nebr., were held recently. Norfolk's Mayor James Miller (left) cut the ribbon, assisted by Herald Alexander, former Meteorologist in Charge at the WSO.

The new radar replaced a WSR-1 radar in use at Norfolk since 1947—a piece of Navy airborne equipment modified for ground use which was the third weather radar installed in the United States.

Maryland Receives \$810,290 CZM Grant

The Office of Coastal Zone Management has awarded an \$810,290 grant to the Maryland Department of Natural Resources to complete development of a coastal management program.

Under the grant, Maryland will contribute an additional \$486,563 in State matching funds. The grant is the third Maryland has received to formulate a Statewide program for achieving optimum use and management of its coastal resources and environment.

Since Maryland began its program in 1974, OCZM has awarded it nearly \$1.7 million, and the State has added about \$907,000 of its own funds.

The major emphasis of Maryland's third year effort will be on completing all necessary Federal program approval requirements, including developing a draft of the final program to submit for Federal review.

Two other important elements of the Maryland effort will include a demonstration project, funded jointly by OCZM and the U.S. Department of Housing and Urban Development, to assess urban coastal problems and management needs—particularly those along the Baltimore Harbor—and incorporate a method for considering them in the State management plan; and a system for determining the onshore impacts of offshore oil and gas production.

Maryland plans to submit its program to OCZM for review in January 1977.

Diversity of N. C. Designated Sea Grant College

(Continued from page 1)
Other schools have been so named: the Universities of Rhode Island, Wisconsin, Hawaii, California, Washington, and Delaware; Oregon State University; Texas A&M University; the State University System of Florida; and the combined State University of New York/Cornell University.

With the help of a \$535,000 Sea Grant, scientists at the University of North Carolina and North Carolina State University are studying one of the State's most prominent marine resources—the two and one-half million acres of estuaries, sounds and marshes behind its barrier islands.

These valuable salt water areas are the foundation for a large commercial and recreational fishing industry as well as growing tourist activity. In one project, which examines the build up and erosion of the shoreline from eastern Albermarle Sound to southern Pamlico Sound, researchers are trying to discover what makes some areas more vulnerable than others to scouring, and will devise methods for dealing with coastal erosion problems. Special "erosion potential maps" are being drawn to help implement North Carolina's Coastal Zone Management Act.

Aquaculture scientists at the University of North Carolina are expanding a unique eel rearing project this year. Live eels, which command premium prices of up to \$3.00 per pound, enjoy a large overseas market, particularly in Japan, where recent pollution and low production have limited native cultured eel supplies. UNC biologists are building a special facility for rearing eel in outdoor ponds and will survey natural eel runs along the North Carolina coast to determine the best areas for capturing the young eelers for later rearing in culture ponds.

Last year some 32,000 eelers were captured during migration and, with special feed formulated at the aquaculture facility, are expected to reach market size in about 18 months.

Stratospheric Sampling Technique

(Continued from page 1)
ally make it to the stratosphere, where they are suspected of destroying the protective ozone layer.

The Soviet Union, says Dr. Schmeltekoef, has been conducting surface, balloon, and aircraft measurements of tiny particles, called aerosols, in the atmosphere. If they would sample for chemicals as well, the geographic range of such studies could be greatly extended and the global effects of man's activities could be more accurately assessed.

The Soviet scientists are in Wyoming to participate in a joint balloon study with the University of Wyoming in which three balloons, carrying U.S. and Soviet instruments, will be launched at dawn into the atmosphere. The Wyoming study is the western-hemisphere counterpart of measurements made last summer over Rylysk, southeast of Moscow. Dr. Schmeltekoef, who participated in May meetings in Leningrad to discuss the results of the Rylysk study and plan the Wyoming launches, will release two additional balloons for chemical sampling.

The joint protocol drafted at the May Leningrad meeting recognized that "understanding the earth's ozone balance, and particularly man's effect on it, is an important international prob-

lem," and suggested that during their stay, the Soviet team visit ERL's Boulder laboratories "to discuss the U.S. experiments and calculations concerning the fluorocarbon problem. It is important that close contact be maintained regarding this problem, as well as a continuing exchange of information." The Soviet team is scheduled to visit the Boulder laboratories August 12 to 14.

NOAA's stratospheric package consists of five stainless steel sampling spheres with a mini-computer programmed to open and close valves on the flasks at predetermined altitudes. Dr. Schmeltekoef and his colleagues at the Aeronomy Laboratory designed the unique, lightweight package. After the package descends, the samples are analyzed in the laboratory for nitrous oxide and fluorocarbons 11 and 12, all of which have been implicated in a chain of reactions believed to result in the destruction of ozone.

LSC Is Closed

Lake Survey Center, a Detroit based unit under the National Ocean Survey, has been closed.

All concerned NOAA elements are requested to check their mailing lists and remove the Lake Survey, Detroit address as necessary.

noaa week

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

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

Slide Show in Main Lobby Tells Story of Commerce Department

Commerce employees interested in knowing more about what their fellow workers do in carrying out the Department's missions are being invited to visit the Main Commerce lobby.

There the Department's Office of Communications has set up three large cabinets, modeled after the one in the lobby's southwest corner containing the famous Census Clock. Each cabinet houses equipment for projecting a 40-slide show requiring four minutes for viewing.

One cabinet features the programs and services of the entire Department. It operates continuously during working hours and on weekends (its show, like the two others, being designed to inform visitors and employees alike).

A second cabinet, labeled Program in Focus, deals with subjects that may encompass several Commerce agencies (such as energy conservation, science and technology programs, etc.) or with a single large agency. Its

President Congratulates Sea Grant Program

(Continued from page 1)

ten years ago, the Sea Grant Program has been unique among our federally-funded research and development projects. As a mechanism for encouraging the wise use of the oceans, it has been remarkably effective in marshaling the interdisciplinary resources of our nation and providing the necessary bridge between oceanic research and program application. It has benefited both scientific knowledge and our national economy.

I enthusiastically join you in congratulating Dr. Robert B. Abel, who has directed the Program since its inception and all who have worked with him toward its success. I also commend the initiative of the American Oceanic Or-

ganization in giving it the recognition it so richly deserves.

With kindest personal regards,

(signed)
Jerry Ford

ganization in giving it the recognition it so richly deserves. With kindest personal regards, (signed) Jerry Ford

Also among the special honored guests at the reception, which was held in the Senate Caucus Room of the Russell Senate Office Building, were Dr. Robert B. Abel, Director of the Office of Sea Grant, and NOAA's Associate Administrator, Dr. John W. Townsend, Jr., who represented Dr. White.

Kentucky Tax Changes

Employees who are subject to state tax withholdings for the State of Kentucky may notice a minor change in their state tax for salary checks dated on or after August 11, 1976.

EDS Honors Templeton (Continued from page 1)

Due to the diverse nature of these data sets and the programs required, it was necessary to use three different computer systems: CEDDA's PDP-11/50 mini-computer for decommutation and preprocessing, and NOAA's IBM 360/65 and CDC 6600 for scaling, editing, and validating data for archives. Mr. Templeton trained several employees to operate the PDP-11/50 and various terminals to NOAA's computer systems. At the same time, he organized and trained production monitoring teams to submit batch jobs in strict serial mode and to quality control all outputs. Much of this work was ac-

complished at night and weekends to accommodate the large number of computer hours required from January 1975 to July 1976. Mr. Templeton personally filled in on many shifts. Mr. Templeton was cited for the timeliness and completeness of these GATE data sets and the efficiency with which they were processed. According to EDS, his dedication and expertise have resulted in the archive of a superb set of data for the tropics which is now available for use by national and international scientists from EDS' National Climatic Center in Asheville, N.C.



Shown with Mr. Templeton (right) here are Dr. Thomas S. Austin, EDS Director (in the foreground), and Dr. Joshua Holland, CEDDA Director.

obituaries

Harry S. Davis

Harry S. Davis, Supervisory Fishery Reporting Specialist with the Statistics and Market News Division of the National Marine Fisheries Service, died on July 28.

He had supervised the Division's activities in the South At-

lantic states for the last 12 years. His office was located at the NMFS Atlantic Estuarine Fisheries Center in Beaufort, N.C. During his 21 years with the Division he served also at Terminal Island, Calif., and in Washington, D.C.

He is survived by his wife, Carol, and three children.

Robert J. Grace

Robert J. Grace, a Meteorologist in the Communications Division at National Weather Service Headquarters, died July 26. He joined the Department of Commerce in 1946, and worked as a Meteorologist on special projects in Peru and Bolivia for three years. From 1949 to 1958, he was assigned to the Weather Service in the U.S. and in Puerto Rico. He then worked for the World Meteorological Organization, the Federal Aviation Administration, and the Agency for International Development on various overseas assignments until returning to the NWS in 1960. He is survived by his wife, Viljanke Grace, five children, and a grandchild.



PARTICIPANTS IN THE FIRST STATION MANAGEMENT AND SUPERVISION CLASS, conducted recently at the National Weather Service Technical Training Center in Kansas City, Mo., were (seated, from left) Ignacio C. Rodriguez, Pueblo, Colo.; Richard Y. Takemoto, Lihue, Hawaii; Wilbur F. Mincey, West Palm Beach, Fla.; Doyle Cook, Louisville, Ky.; William G. Cain, Jr., Salt Lake City, Utah; Kenneth E. Fay, Stampede Pass, Wash.; Ralph W. Koepsel, Birmingham, Ala.; (standing, from left) Frank Dillenkoffer, Instructor; Ronald D. Linder, Barrow, Alaska; Raymond W. Agee, Ruskin, Fla.; John C. O'Brien, Longview, Tex.; Robert L. Stalnaker, Stephenville, Tex.; David L. Reeves, Louisville, Ky.; Robert C. Haywood, Palmdale, Calif.; Robert L. Thompson, Denver, Colo.; Joseph O. Holloway, Daytona Beach, Fla.; Jack L. Canzonire, New Orleans, La.; and Ralph T. Tice, Instructor.



National Oceanic and Atmospheric Administration

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