

## NOAA Studies Flash Floods

Flash floods, which caused more than \$1.5 billion in property and crop damage and in excess of 100 deaths in the United States last year, seem to strike most often at night during the summer, according to a recent study of significant flash floods made by NOAA scientists.

The NOAA study, conducted by Robert A. Maddox and Dr. Charles F. Chappell of the Environmental Research Laboratories, was undertaken to identify specific, large-scale weather patterns that are associated with intense rainfall, and to isolate common features that trigger and focus these events.

After examining data on 20 significant flash floods in the United States between 1972 and 1977, the NOAA scientists unearthed some striking similarities. For example, the heavy rains responsible for 15 of the floods began between 6 p.m. and

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## Fox Named Director of Southeast Fisheries Center In Miami, Fla.

Dr. William W. Fox, Jr., has been named Director of NOAA's Southeast Fisheries Center in Miami, Fla.

As Director of the Center, one of our major research centers in the Fisheries Service, Dr. Fox will be responsible for laboratories in Miami; Galveston, Tex.; Beaufort, N.C.; Panama City, Fla.; Bay St. Louis and Pascagoula, Miss.; and Charleston, S.C.

Since 1975, Dr. Fox has been the Chief of the Oceanic Fisheries Resources Division at the Southwest Fisheries Center

La Jolla, Calif., where he has played a major role in the development of tuna policy and has been chiefly responsible for the direction and conduct of

## NOAA Will Celebrate Eighth Year

OCT 1 2 1978

Playing with computers, receiving messages from space, touring ships, eating seafood snacks. What a great way to celebrate a birthday.

NOAA will be eight years old

in October. Headquarters and field facilities will be holding open house throughout the month for the public to view and experience the many projects involving the weather,

oceans, earth, and space.

The celebration begins September 28 in Boulder, Colo., with a two-day science fair sponsored by the Environmental Research Laboratories and the National Geophysical and Solar Terrestrial Data Center. Some highlights of the fair will be: real-time messages from space received from NOAA's geostationary satellite 22,300 miles above Earth's surface; a flight through a hurricane as it looks to the time-lapse camera in the nose of NOAA's hurricane research planes; a solar radiation exhibit showing how sunlight is measured and information put to work by solar engineers; a conversational computer; lasers that measure winds; and sensors that "hear" rain.

The National Ocean Survey's open house in Rockville, Md., on October 5 and 6 will feature a data buoy, exhibits on ocean science, the National Geodetic Survey exhibit trailer, a 60-foot survey tower, demonstrations on how NOAA aids aviation, and a NOAA Corps exhibit.

National Weather Service, National Environmental Satellite Service, and the National Meteorological Center have teamed up to display their computer systems on October 7, at Federal Building 4 in Suitland, Md. Their exhibits will demonstrate how computers deal with information for satellites, research, and day-to-day forecasting. Exhibits on aviation and Weather Watch Radio will be on display.

The Atlantic Marine Center in Norfolk, Va., plans an October 13 celebration that will include the participation of NOS, NWS, NMFS, and the NOAA ship Whiting.

Seafood snacks, a marine mammal exhibit featuring live seals, and an electron microscope

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NOAA Administrator Richard A. Frank kicks off the 1978 Combined Federal Campaign by handing his contribution pledge to CFC Coordinator for NOAA, Michael Binder, OCZM.

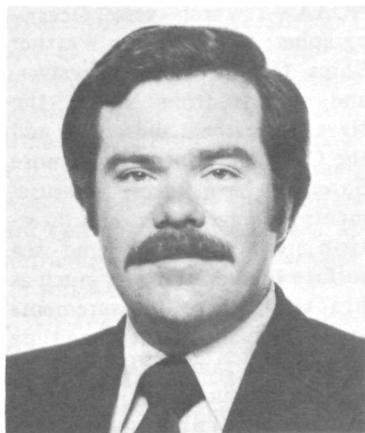
## Seasat Data Undergoes Verification

A month-long verification mission to assure accuracy of the oceanographic measurements being obtained by the recently launched Seasat-1 satellite is being conducted in the Gulf of Alaska under NOAA management according to John W. Sherman, III, NOAA's Seasat Project Manager.

U.S. and Canadian ships and aircraft, as well as a number of ocean buoys, are collecting sea surface information in the Gulf, for comparison with the same kinds of data being sensed by instruments aboard the first satellite dedicated to studying the

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research programs on the tuna/porpoise interaction in the



Dr. William W. Fox, Jr.

purse seine fishery in the eastern tropical Pacific.

Dr. Fox began his career in

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## He Takes His Bicycling Seriously

Taking 84 days to go from Williamsburg, Va., to Astoria, Ore., may sound like 19th century travel. But Rick Roberts, Management Analyst, Records Management Section, ADMIN, went by bicycle. All 4500 miles cross-country.

Participating in the bicentennial Bike-a-thon, Roberts left Williamsburg May 22 in a group of 10, christened "Mangies" by a gas station operator in Virginia. They followed the TransAmerica Trail established during 1976, going west to Pueblo, Colo., north through Yellowstone and Missoula, Mont., arriving in Astoria on August 13.

"We got a feeling of what the pioneers must have gone through on their trips West," says Roberts, recalling 105° temperatures through the flat lands of Kansas and eastern

Colorado and the awesome sights that greeted them when they crossed mountain passes, such as the Tagwotee Pass that leads to the Grand Tetons.

Averaging 65 miles a day, with a rest day every eight days, the group encountered unending hospitality in the homes and towns along the trail. They especially appreciate the "Cookie Ladies" who advertise their free refreshments by flying bike flags in the yards. "They can be life-savers, sometimes," says Roberts.

Roberts is a member of the Audubon Society and recorded 12 new birds for himself while on the trip. Wanting to maintain the physical well-being he developed during the trip, he bicycles to work every day and after work does 20 to 30 miles in Rock Creek Park.

## Fox Heads SWFC

NMFS in 1967 at the same Center to which he has just been named Director. In 1972, he was transferred to La Jolla.

A native of San Diego, Calif., he received a B.S. in zoology from the University of Miami in 1967, and an M.S. from its Institute of Marine Science in 1970. In 1972, he was granted a Ph.D. from the University of Washington's College of Fisheries.

Dr. Fox, an expert on tunas, presently serves on the Scientific Committee of the International Commission for the Conser-

vation of Atlantic Tunas, as technical advisor to the U.S. Delegation to the Inter-American Tropical Tuna Commission, and as a member of the Eastern Pacific Tuna Group, the latter formed to advise the government on alternative methods of tuna management. He has authored many scientific papers, most of them dealing with the application of statistical methods to the study of exploited animal populations, and is a member of a number of professional and scientific organizations.

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## Flash Flood Study

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6 a.m.

"This nocturnal characteristic complicates the forecast and warning problem, since public response to warnings is slowest during the late evening and early morning hours," Maddox and Chappell, both meteorologists with NOAA's Atmospheric Physics and Chemistry Laboratory in Boulder, Colo., reported. "Additional research is needed to identify the mechanisms responsible for the nocturnal focusing and intensifications of these storms."

Another similarity which surfaced from the study: the largest number of flash floods, seven, struck during the month of July. These included the Big Thompson Canyon, Colo., tragedy of 1976, and the Johnstown, Pa., disaster in 1977. Four of the 21 floods, occurred in September, three each in June and August, two in May, and one each in April and October.

Detailed meteorological analyses of the floods made by the two NOAA scientists let them piece together certain geographical, meteorological, and time-of-day characteristics which could combine to produce

## Seasat

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world's oceans.

Seasat-1 was launched by NASA on June 26 with the mission of determining if microwave instruments scanning the oceans from space can provide useful and accurate data.

During most of September, NOAA's research vessel Oceanographer, the Canadian Weather Ships Quadra and Vancouver, and aircraft from NASA, the Naval Research Laboratory, and the Canadian Center for Remote Sensing have taken measurements of wave height and direction, wind velocity, and sea surface temperature. As much as practical, these measurements are being made at the same time and in the same ocean area as similar measurements are being made by instruments on Seasat-1. The materials from both sources will be analyzed for comparison by scientists from NOAA and NASA in the months ahead.

a serious flash flood in the United States.

The hypothetical flood likely would be caused by thunderstorm rains in a region of unusually high atmospheric moisture content. Changes in wind velocity from the top to the bottom of the storm would be small. And other convective storms or new thunderstorm clouds would develop so that accompanying rains would repeatedly affect the same general area.

However, the NOAA meteorologists pointed out, many more flash floods will have to be studied to define more exact classifications of heavy precipitation patterns.

## Birthday

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are among the many exhibits visitors can enjoy in Seattle, Wash., at the Northwest and Alaska Fisheries Center and Northwest Administrative Office open house on October 26.

Other NOAA events are being planned. Additional information regarding NOAA's birthday celebration will be furnished as plans are confirmed. The Office of Public Affairs in Rockville, Md., may be contacted for assistance in providing brochures, posters, and other materials.

## NOAA NEWS

Published biweekly at Rockville, Md., by the Office of Public Affairs for the information of employees of the Commerce Department's National Oceanic and Atmospheric Administration.

Articles to be considered for publication should be submitted at least 10 days in advance to NOAA News, Room 108, Rock-Wall Bldg., Office of Public Affairs, National Oceanic and Atmospheric Administration, Rockville, Md., 20852.

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

Norma V. Reyes, Editor  
Warren W. Buck, Jr., Art Director

## NMFS Aids U.S. Fishermen With Damages Within 200-Mile Limit

U.S. commercial fishermen whose vessels or gear are damaged or destroyed by foreign fishing vessels operating within the U.S. 200-mile fishery conservation zone will be eligible for compensation.

A system designed to reimburse fishermen quickly for any loss from incidents which occurred after July 1, 1976, has been instituted by NOAA's National Marine Fisheries Serv-

ice.

Under the system, fishermen may apply for a loan if the replacement value of the damaged gear or vessel, less depreciation, exceeds \$2,000. Loans will be made shortly after the application is received and approved by the Fisheries Service, and will carry an interest rate of 3½ percent.

After the loan is made, an effort will be made to determine who was at fault. If it is determined that the U.S. fisherman was not, the loan will be canceled, and all payments made on the loan will be refunded. If the U.S. fisherman was at fault, the loan will become due in full at an earlier—but still reasonable—date than originally set. If fault cannot be determined, the loan must be repaid according to the original terms which would correspond to the expected life of the equipment.

Presidential approval is expected soon on a new program that would supersede the present compensation system, Fisheries officials said. Under that program, proposed to be effective next January 1, fishermen would be paid for losses caused by foreign fishing vessels without regard to who was at fault. This program would not

## Airborne Wind-Sensing Radar System Tested

Preliminary tests of a new airborne wind-sensing radar system have been very encouraging, say scientists Bob Trotter of the Office of Weather Modification and Dick Strauch of the Wave Propagation Laboratory, developers of the system. The radar, to be installed on NOAA's WP-3d Orion flying laboratories, measures the velocity of winds along its line of sight with an accuracy of ±2 meters per second.

Progress on the NOAA Airborne Doppler Radar Development Program was reviewed at a recent meeting in Boulder. The meeting was attended by representatives of ERL, the Federal Aviation Administration, Air Transport Association, major airlines, radar manufacturers, and the National Center for Atmospheric Research.

So far, four flight tests, partially funded by the FAA, have been conducted. The two researchers have given the radar some unique features, including a power amplifier for transmitting the signal that is less expensive than the one used in most doppler radars. The two say it is the only known airborne doppler radar being developed for meteorological research, and those in attendance at the Boulder meeting believe it will also provide a basis for equipment to improve safety of commercial airlines.

## A Champion Blood Donor



Danny Nations of NOAA's Central Logistics Supply Center in Kansas City, Mo., is an excellent example of those who heed the call for blood donations. Since August 1976, when the Center established a blood club under the auspices of the Community

Blood Center of Greater Kansas City, Nations has donated 13 pints (1-5/8 gallons) of blood. He has donated each time at the end of each minimum eight-week waiting period and plans to continue his much-needed donations indefinitely.

be retroactive.

Applications for the loan should be sent to the National Marine Fisheries Service, NOAA, F-25, Washington, D.C., 20235. Assistance may be obtained from NMFS Regional Offices in Gloucester, Mass.; St. Petersburg, Fla.; Terminal Island, Calif.; Seattle, Wash.; and Juneau, Alaska.

## Sea Grant College Has New Film

The University of Delaware Sea Grant College Program has a new color film, "A Seafood Greenhouse," describing a system pioneered at the University for growing bivalve molluscs (oysters and clams) under controlled conditions. In this controlled environment system, wastes produced by the shellfish are recirculated to be used as nutrients for growing the algae on which they feed.

Delaware scientists and engineers have demonstrated experimentally that they can grow uniform, high-quality shellfish to market size in only nine months. At Delaware latitudes, nature takes at least three years to produce an eating-sized oyster.

Delaware residents may rent the film for three days for \$10 to cover postage and handling. Out-of-staters will be charged a \$25 rental fee. Contact the Sea Grant Communications Office, Robinson Hall, Newark campus, telephone (302) 738-8174.

### TIROS-N LAUNCH DELAYED

The launch of TIROS-N has been delayed until Oct. 14, at the earliest, due to problems with tape recorders carried aloft in the spacecraft.

The same equipment problem also has delayed the launch of Nimbus-G, a NASA operated spacecraft of interest to NOAA scientists.

## Recent Grants Total Over \$11.5 Million

The Office of Sea Grant recently awarded \$5,141,100 as follows: Univ. of Georgia, \$631,100; Louisiana State Univ., \$1,050,000; Massachusetts Institute of Technology, \$1,300,000; Univ. of Michigan and Michigan State Univ., \$850,000; Univ. of Rhode Island, \$1,310,000.

Recent Coastal Zone Management grants totaling \$4,017,400 were awarded to: Hawaii, \$1,125,000; Michigan, \$1,580,000; North Carolina, \$1,180,000; and Texas, \$132,400.

The Environmental Research Laboratories in Colorado granted \$114,147 to Johns Hopkins Univ. of Baltimore and Arctec, Inc., of Columbia, Md.; \$645,938 to Science Applications, Inc., of La Jolla, Calif.; \$225,000 to Flow Industries of Kent, Wash.; and \$91,710 to the College of the Atlantic in Bar Harbor, Me.

A Coastal Energy Impact Program of \$1.3 million went to Morgan City, La.

## Management And Union Meet At NOS



Bridging relationships between management and employees, these union officers and NOS, AC&C staff meet bimonthly: (seated l to r) Palmer Rutledge, Sec-Treas. AFGE, REPRO; Robert L. Lewis, President, AFGE Local 2640, REPRO; Bonnie Shevock, REPRO; Alethea Morris, V. Pres., AFGE, REPRO; Cephus Collins, V. Pres., AFGE, DIST; W. Scott Page, Chief, NOS Personnel Section; Ernest Kyle, Admin. Officer, DIST; Irving Dean, PP&R Mgmt., staff, AC&C; Walter J. Chappas, Associate Director, AC&C; Nicholas Sampogna, Assistant Chief, REPRO.

To promote efficiency and improve working conditions, the Associate Director and the managing staff of the National Ocean Survey's Office of Aeronautical Charting and Cartography meet bimonthly with union officers of the American Federation of Government Employees, AFL-CIO, Local 2640 (AFGE).

The union represents more than 200 employees assigned to the NOS Reproduction Division (REPRO) at the Main Commerce building, as well as employees of the Distribution Division (DIST) in Riverdale, Md

"These bimonthly meetings,"

said AC&C Associate Director Walter J. Chappas, "have been constructive in bridging relationships between management and employees by promoting a high degree of efficiency, improving working conditions and providing a means by which effective communications has resulted in better understanding of both parties."

Under the provisions of Executive Order 11491, as amended, a three year labor management agreement was signed last September, which is one of the most extensive Labor/Management plans ever devised in the NOS, NOAA components.

## Warnings on Catalytic Converters

A potential fire hazard exists when catalytic converter equipped vehicles are parked or driven over easily combustible material such as dry grass or leaves.

This warning comes from the General Services Administration (GSA) which says that the fire hazard is due to the extreme operating temperature of the converter which under normal conditions ranges from 500° to 1000°F (260° to 528°C) and

may increase to 1600°F (871°C) due to a spark plug or choke malfunction.

Other items that GSA says to be concerned with when operating catalytic converter equipped vehicles are (1) use unleaded gasoline only, and (2) do not add fuel system cleaning compounds and upper cylinder lubrications to the gas tank or crankcase since they may contain lead, chemicals or other materials detrimental to the converter.

## Symposium On Ocean Dumping

The large scale discharge of industrial wastes at ocean dumpsites will be the prominent theme of the First International Ocean Dumping Symposium at the University of Rhode Island's W. Alton Jones Campus, October 10-13.

Dr. P. Kilho Park of NOAA's National Ocean Survey (NOS) said the four-day meeting will emphasize studies of large-scale regulated discharge of industrial wastes at ocean dumpsites. Park said that more than 35 university scientists and industrial and Federal/state environmental experts from the United States, the United Kingdom, and Germany, have been invited to participate in the program to exchange ideas and information among investigators involved in ocean dumping research. He said the symposium "should generate recommendations and guidelines for future studies of ocean dumping practices."

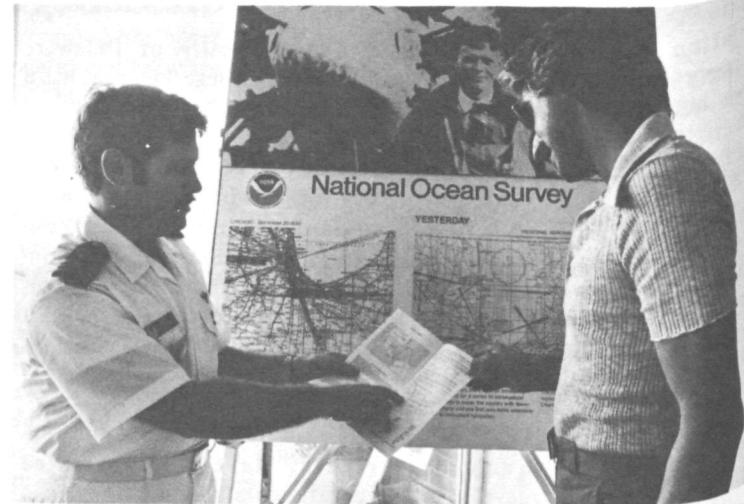
The meeting will consist of a series of research reports mainly by investigators in the NOS Dumping Program which Dr. Park heads. There will be three invited lectures, and periods of time for informal discussions among participants.

## Oceans-- Topic Of Lecture Series At Smithsonian

"The Oceans," a lecture series for the Smithsonian Institution, is being coordinated by Dr. Roland F. Smith, Acting Director, Office of Resource Conservation and Management, NMFS. Eight Thursday lectures will be presented beginning October 12 through December 7, from 6 to 7:30 p.m.

Marine experts will provide up-to-the-minute analyses of the world ocean—its status and future. Topics include: the Bowhead whale and native American culture; deep sea mining; impact of the Amoco Cadiz spill; krill—a new fishery?; the experience of the U.S. with fisheries conservation and ocean management (the "200 mile limit"); international arrangements for ocean management; and current oceanic research.

Interested NOAA employees wishing to register for this course must apply by September 28. NOAA Training Form 53-1 should be submitted to Ken Matthews, AD42, for possible reimbursement. Please note that the course fee is \$52.00 for Smithsonian Associates and \$70.00 for nonmembers.



Lt. Cdr. Arthur N. Fior, NOAA Corps, who recently was appointed an aviation accident prevention counselor by the Federal Aviation Administration, explains to a visitor attending the National Aviation Day Rally held at the Montgomery County Airpark, Gaithersburg, Md., the services offered to pilots by the National Ocean Survey's Office of Aeronautical Charting and Cartography.

# Proposed 5.5 Percent Pay Raise Table

Unless Congress rejects the President's proposed 5.5 percent Federal raise by October 1, this pay table will be effective the first full pay period in October, which begins October 8.

years	1	2	3	4	5	6	7	8	9	10
GS-1	\$6,561	\$6,780	\$6,999	\$7,218	\$7,437	\$7,656	\$7,875	\$8,094	\$8,313	\$8,532
GS-2	7,422	7,669	7,916	8,163	8,410	8,657	8,904	9,151	9,398	9,645
GS-3	8,366	8,645	8,924	9,203	9,482	9,761	10,040	10,319	10,598	10,877
GS-4	9,391	9,704	10,017	10,330	10,643	10,956	11,269	11,582	11,895	12,208
GS-5	10,507	10,857	11,207	11,557	11,907	12,257	12,607	12,957	13,307	13,657
GS-6	11,712	12,102	12,492	12,882	13,272	13,662	14,052	14,442	14,832	15,222
GS-7	13,014	13,448	13,882	14,316	14,750	15,184	15,618	16,052	16,486	16,920
GS-8	14,414	14,894	15,374	15,854	16,334	16,814	17,294	17,774	18,254	18,734
GS-9	15,920	16,451	16,982	17,513	18,044	18,575	19,106	19,637	20,168	20,699
GS-10	17,532	18,116	18,700	19,284	19,868	20,452	21,036	21,620	22,204	22,788
GS-11	19,263	19,905	20,547	21,189	21,831	22,473	23,115	23,757	24,399	25,041
GS-12	23,087	23,857	24,627	25,397	26,167	26,937	27,707	28,477	29,247	30,017
GS-13	27,453	28,368	29,283	30,198	31,113	32,028	32,943	33,858	34,773	35,688
GS-14	32,442	33,523	34,604	35,685	36,766	37,847	38,928	40,009	41,090	42,171
GS-15	38,160	39,432	40,704	41,976	43,248	44,520	45,792	47,064	*48,336	*49,608
GS-16	44,756	46,248	*47,740	*49,232	*50,724	*52,216	*53,708	*55,200	*56,692	
GS-17	*52,429	*54,177	*55,925	*57,673	*59,421					
GS-18	*61,449									

\*The asterisk shows grades and steps within grades that would not get any U.S. Civil Service Commission salary increase because Congress has frozen Federal salaries at \$47,500.

## NOAA Funds Lab For NMFS In Newport, Oregon

NOAA has awarded \$676,000 to the Oregon State System of Higher Education for the construction of the National Marine Fisheries Service Newport Aquaculture Laboratory adjacent to the existing Oregon State University Marine Science Center in Newport. Of the total, \$160,000 is being used for architectural and engineering fees.

The purpose of the Facility is to encourage the establishment and rehabilitation of marine fish and mollusk stocks by research and development efforts in genetics, hatchery techniques, nutrition, and disease prevention.

The laboratory will consist of approximately 28,000 square feet, and provide offices, laboratories, and covered and uncovered experimental areas. The laboratory will provide the specialized facilities needed to carry-out a full-scale aquaculture research and development program. This will be a cooperative research program between Oregon State University and the National

## California Vertical Control Data Available From NGS

California vertical control data in machine-readable format is now available to geodesists and geophysical scientists, from National Geodetic Survey (NGS), NOAA announced recently.

A component of NOAA's National Ocean Survey, the NGS said the vertical control archival (unadjusted) observation and descriptive data for California will be of special interest to scientists conducting basic

crustal movement research on the physical properties and dynamic actions of the Earth.

The demands for geodetic data related to crustal movement research have increased during the past several years for landuse planning, disaster preparedness (for earthquakes, landslides, floods), and the safe siting of offshore structure, pipelines, nuclear waste disposal plants, coastal oil and gas facilities, nuclear power plants, dams, aque-

ducts, bridges, large buildings, and even homes.

The vertical control data for California is part of the automation of all vertical control data in the data base format initiated by NGS in conjunction with the readjustment of the National Geodetic Vertical Datum (NGVD). Requests for vertical control data should be addressed to: National Ocean Survey, C18, Rockville, Md., 20852.

### New Address For LANDSAT Data

Effective October 1, requests for LANDSAT data (imagery and magnetic tape) should be directed to:

Users Services  
EROS Data Center  
Souix Falls, S.D. 57198  
Phone: FTS 784-7151  
(commercial 605/594-6511)

Requests will no longer be serviced by Satellite Data Service Branch in the World Weather Building.

Marine Fisheries Service.

The special facilities will include dual seawater pumps, settling basins, several types of water treatment equipment, and an emergency electrical power system.



Ernest E. Thomas (left), manager of the National Ocean Survey's Automated Cartography Group, Maj. Gen. K.L. Khosla, Surveyor General of India (second from left), and members of the IX International Conference on Cartography discuss the latest NOS developments in automation, design and remote sensing in the field of map making. The conference, held recently at the University of Maryland, attracted mapmakers from 40 countries.

# Hatch Act Protects Employees

One of the basic purposes of the Hatch Act, in effect since 1939, is to protect most Federal employees from being coerced, intimidated or compelled by their supervisors or politicians to help them in partisan political matters. The Act has two broad-based restrictions for Federal employees:

1. All are prohibited from using their official authority or influence to interfere with or affect the result of an election; and
2. With certain exceptions, they are prohibited from taking an active part in political management or campaigns. However, there are a variety of permissible political activities in which employees may engage. A partial listing includes:

- A. The right to register and vote as you choose in any election.
- B. You may wear a political badge or button, or place a political sticker on your automobile.
- C. You may make a voluntary campaign contribution to a political party or organization.
- D. You may attend a political convention, rally, fund-raising function, or other political gathering, but you may not take an active part in conducting or managing such gatherings.
- E. You may participate in a nonpartisan election, either as a candidate or in support of (or in opposition to) a candidate; and

you may, if elected, serve in the office if such service will not conflict or interfere with the efficient discharge of your Federal duties.

### REDUCED LIFE INSURANCE PREMIUMS

Federal Government Life Insurance premiums are being reduced and smaller payroll deductions will be reflected in payroll checks dated September 26, for semimonthly, and October 4, for biweekly employees. The reduction will amount to about 10¢ per \$1000 of insurance for basic coverage. Employees carrying additional optional coverage will also receive reduced rates for that insurance.

### LEARN BY MAIL

The Graduate School, U.S. Department of Agriculture's 1978-80 Correspondence Study Programs Catalog is now available.

The catalog includes more than thirty courses which can be taken by mail. Principles of Accounting, Federal Personnel Procedures, Writing for Government and Business, Modern Supervisory Practice, Report Writing, Elements of Statistics, College Algebra, Basic Electricity, and Hydrology are just a few of those listed.

Registration is open throughout the year. Registration forms are included in the catalog.

To receive a copy of the Correspondence Study Programs Catalog, call (202) 447-7123, or write: Graduate School, USDA, Correspondence Study Programs, Room 6847-S, Washington, D.C. 20250.

## NOAA Personnel Division Lists Current Vacancies

Announcement No.	Position Title	Grade	MLC	Location	Issue Date	Closing Date
OCZM/78-50LT	National Policy Development Officer	GS-15	OCZM	Washington, D. C.	9/12/78	10/3/78
SR-78-37 (GC)	Electronics Tech. (Senior Electronics Tech.)	GS-10	NWS	Midland, Tex.	9/19/78	10/3/78
CR-78-45 (MM)	Meteorologist (Lead Forecaster)	GS-12	NWS	Des Moines, Iowa	9/19/78	10/3/78
NESS-78-20	Meteorologist	GS-11	NESS	Camp Springs, Md.	9/19/78	10/3/78
NOS-78-50-JLP	Cartographic Technician	GS-7	NOS	Rockville, Md.	9/19/78	10/3/78
AR-78-25 (IH)	Supervisory Meteorological Technician (General)	GS-11	NWS	Barrow, Alaska	9/19/78	10/3/78
ERL-78-285	Oceanographer	GS-12	ERL	Miami, Fla.	9/19/78	10/3/78
SER-78-30	Industry Economist	GS-12	NMFS	Miami, Fla.	9/19/78	10/11/78
HQS-78-77 (RW)	Program Analyst	GS-14	HDQ	Washington, D.C.	9/19/78	10/11/78
WR-78-46 (DD)	Budget Officer	GS-11	NWS	Salt Lake City, Utah	9/20/78	10/12/78
PR 78-8	Meteorological Technician	GS-8	NWS	Johnston Island	9/25/78	10/10/78
PR 78-9	Electronics Technician	GS-10	NWS	Wake Island	9/27/78	10/12/78
AMC 78-10	Supervisory Cartographic Technician	GS-11	NOS	Norfolk, Va.	9/25/78	10/10/78
NER 78-21	Computer Programmer	GS-9	NMFS	Highlands, N.J.	9/28/78	10/13/78
ERL 78-27	Physical Scientist	GS-14	ERL	Ann Arbor, Mich.	9/6/78	11/30/78
AR 78-28	Meteorological Technician	GS-8	NWS	St. Paul Island, Alaska	9/27/78	10/12/78
SER 78-31	Supervisory Operating Accountant	GS-12	NMFS	Miami, Fla.	9/25/78	10/17/78
NASO 78-34	Electronics Engineer	GS-9	NMFS	Seattle, Wash.	9/25/78	10/10/78
NASO 78-35	Operations Research Analyst	GS-9	NMFS	Auke Bay, Alaska	9/28/78	10/13/78
SR 78-40	Supervisory Meteorologist	GS-13	NWS	Brownsville, Tex.	9/25/78	10/10/78
CR 78-43	Electronics Technician	GS-10	NWS	Evansville, Ind.	9/13/78	9/27/78
CR 78-47	Supervisory Meteorologist	GS-14	NWS	Ann Arbor, Mich.	9/27/78	10/19/78
NMFS 78-49	Computer Programmer	GS-9/11	NMFS	Washington, D.C.	9/25/78	10/10/78
NWS 78-55	Physical Scientist	GS-16	NWS	Camp Springs, Md.	9/25/78	10/17/78
ER 78-55	Electronics Technician	GS-9	NWS	Cleveland, Ohio	9/27/78	10/12/78
ER 78-56	Meteorological Technician	GS-7/8/9/10	NWS	Bridgeport, Conn.	9/27/78	10/12/78
OCZM 78-51	Program Officer	GS-11	CZ	Washington, D.C.	9/28/78	10/13/78
HQS 78-79	Budget Analyst	GS-12	OAS	Rockville, Md.	9/27/78	10/12/78

## NOTES ABOUT PEOPLE

Dr. Chester Jelesnianski of the Techniques Development Laboratory of the Systems Development Office, NWS, has been made an Honorary Citizen of the City of New Orleans by the mayor and city councilmen in honor of his SLOSH hurricane storm surge model which will be used for operational storm surge forecasting for the New Orleans area. He also received an Award of Merit from the New Orleans Levee Board and a key to the city.

Evelyn Boston of the Techniques Development Laboratory, Systems Development Office, NWS, recently attended a White House reception at the invitation of Rosalyn Carter. This was a follow-up to the First Lady's visit to the Church of the Saviour, where Boston is a member. The church focuses on



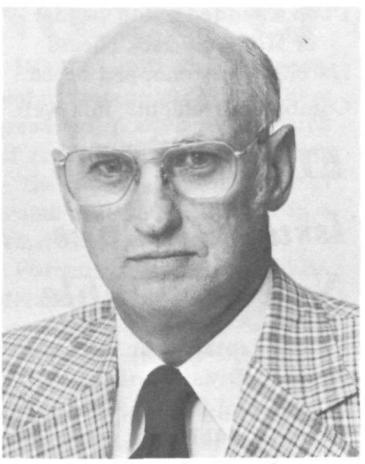
**Evelyn Boston**

housing and other needs of low income tenants. Boston recently established an emergency food bank to meet one of these needs. The highlight of the evening at the White House was the appearance of President Jimmy Carter who gave a short address on the need for voluntarism to help rebuild the decaying neighborhoods in the nation. Approximately one hundred representatives from around the country attended.

Dr. Glenn D. Hamilton recently joined the NOAA Data Evaluation Division.

Before coming to NOAA, Dr. Hamilton completed a 25 year career with the Navy where he

was a pilot, a meteorological officer at sea, executive officer of the Fleet Numerical Weather Center, commanding officer of the Naval Environmental Prediction Research Facility and



**Dr. Glenn D. Hamilton**

Fleet Weather Center in Guam and most recently of the naval research and development activity.

A native of Missouri, Dr. Hamilton's education in meteorology was a Bachelor's degree from the University of California at Los Angeles, a Master's degree from the Naval Postgraduate School, and a Ph.D. from the University of Stockholm in Sweden.

During his naval service, he received the Navy Commendation Medal and the Joint Services Commendation Medal. He completed his naval career as a Captain.

Lt. Charles D. Mason, NOAA Corps, received the 1977 Junior Officer of the Year Award from the Association of Commissioned Officers. As Chief of the Electronic Data Processing Branch, Processing Division, Atlantic Marine Center, Lt. Mason began action two years ago to replace the Center's inadequate computer system. As a result of his efforts, the purchase of the Harris/7 Computer has allowed NOS to realize an immediate cost savings of \$300,000 in direct software costs and more than eight work-years of effort. In addition to the tangible savings, NOS has for the first time total compatibility between Marine Center computers.

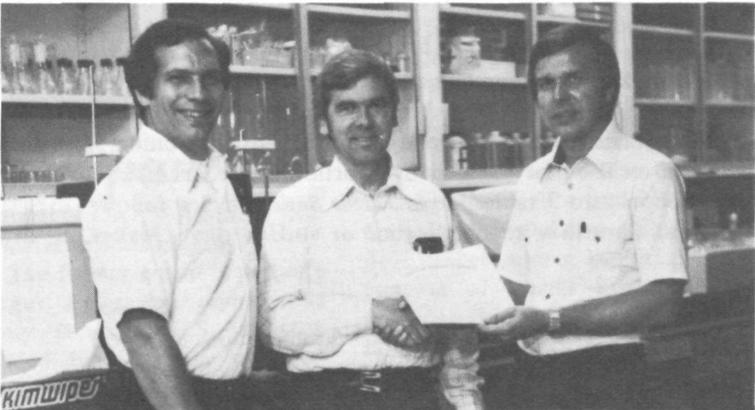


**Dr. Thomas S. Austin, Director, EDIS, and EDIS Employee of the Year, Mary Boylen.**

Mary Boylen, Administrative Officer in EDIS' Environmental Science Information Center (ESIC), has received the EDIS Employee of the Year Award.

Boylen was responsible for the planning, coordination, and implementation of the relocation of the ESIC director's office and of the Scientific and Technical Publications Division

from the Page Building in Washington, D.C., to the Rock-wall Building in Rockville, Md. These major moves were accomplished within two weeks of the notification of relocation. In addition to these accomplishments, Boylen implemented a suggestion streamlining subscription requests through ESIC that resulted in a \$50,000 annual savings for NOAA.

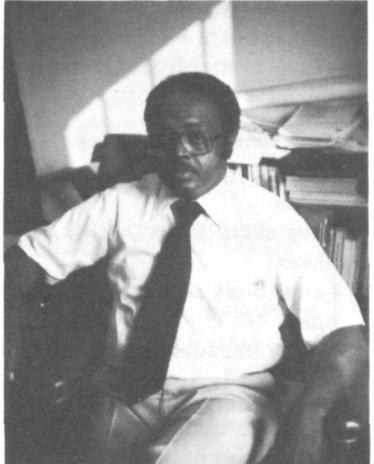


**David Bryant (center) receives a training certificate from Gene Russin (right), Chief of the Sensor Test Branch of NOS' Test and Evaluation Laboratory. This past summer, under a work/study program sponsored by the Veterans Administration, Bryant received training in Water Quality Chemistry and Instrumentation from Gary Ward (left), a chemist at T&EL.**

Edward L. Ridley, formerly a Environmental Impact Statement Coordinator in NMFS, has joined EDIS as Chief of the Center for Environmental Assessment Services' Marine Environmental Assessment Division.

Prior to transfer to NOAA early this year, Ridley was an administrator in the Naval Oceanographic Office where he worked as an oceanographer.

Ridley received a bachelor's degree in physical oceanography from St. Paul's College, Lawrenceville, Va., in 1952.



**Edward L. Ridley**



THREE FISH PORTION SANDWICHES

**Fish Portion Burger With Tarter Sauce**

To make each sandwich: Spread the cut surfaces of a toasted hamburger bun with softened butter or margarine. Top bottom half of bun with crisp lettuce leaf and a thin tomato and onion slice. Cover with a 3 or 4-ounce breaded fish portion, heated as directed on package. Spoon 2 to 3 tablespoons *Tartar Sauce* (recipe follows) over fish portion. Garnish with pickle slice or stuffed olive. Makes one sandwich.

**Tartar Sauce**

- |                                     |                                      |
|-------------------------------------|--------------------------------------|
| 1 cup salad dressing or mayonnaise  | 2 tablespoons chopped stuffed olives |
| 1/4 cup drained sweet pickle relish | 2 tablespoons chopped onion          |

Combine ingredients; mix well. Makes about 1-1/3 cups sauce.

**Quick Danish Open-Face Fish Portion Sandwich**

To make each sandwich: Spread one slice of rye bread with salad dressing or softened butter or mayonnaise. Top with a crisp lettuce leaf and one or two thin tomato and cucumber slices. Top with a 3 or 4-ounce breaded fish portion, heated as directed on package label. Spoon about 2 to 3 tablespoonfuls *Sour Cream-Olive Topping* (recipe follows) over fish portion. Garnish with sweet pickle or radish. Makes one sandwich.

**Sour Cream-Olive Topping**

- |                                    |                                     |
|------------------------------------|-------------------------------------|
| 1 cup (1/2 pint) dairy sour cream  | 1 teaspoon lemon juice              |
| 1/2 cup sliced pitted black olives | 8 drops red pepper sauce (optional) |
| 1/4 cup thinly sliced green onion  | Pinch salt                          |

Combine ingredients; mix well, Makes about 1 1/3 cups topping.

**Mexicali Open-Face Fish Portion Sandwich**

To make each sandwich: Heat a 3 or 4-ounce breaded fish portion as directed on package label. Spoon 2 or 3 tablespoons *Chili-Cheese Topping* (recipe follows) on fish portion; broil 3 inches from heat

source just until cheese softens. While fish portion is heating, heat and brown tortilla in frypan in small amount of oil. Cover with shredded lettuce and 1 or 2 thin tomato slices. Top with the hot, cheese-topped fish portion. Garnish with a cherry pepper or green chillies. Makes one sandwich.

**Chili-Cheese Topping**

- |   |                           |
|---|---------------------------|
| 1 cup shredded mild Cheddar or Monterey Jack cheese | 1/4 cup catsup            |
| 1/4 cup finely chopped onion                        | 1/2 teaspoon chili powder |

Combine ingredients; mix well. Makes about 1 1/4 cups topping.

**EDIS Current Issue Outlines Now Available**

The Library and Information Services Division of EDIS' Environmental Science Information Center is publishing a new series to complement its *Packaged On-Line Searches*. The new series, titled *Current Issue Outlines*, are short overviews of environmental topics accompanied by selective, sometimes annotated, bibliographies. They are designed to provide objective analyzed information on high-interest issues for NOAA decision makers, legislators, public officials, environmentalists, citizens' groups, and the public.

The first of these *Current Issue Outlines* (78-1), "Icebergs for Use as Freshwater," is now available. *Current Issue Outlines* on tidal power and deepwater ports are progressing.

Copies can be obtained from the Library and Information Services Division's User Services

**BEST FISH BUYS**

According to the NMFS National Fishery Education Center in Chicago, the best fish buys for the next week or so are likely to be fresh cod steaks and fresh pollock fillets along the Northeast Seaboard; fresh spot and fresh hake steaks in the Middle Atlantic States, including the D.C. area; fresh crabmeat and fresh whole mullet in the Southeast and along the Gulf Coast; fresh lake smelt and frozen fish portions in the Midwest; frozen Greenland turbot and frozen Pacific shrimp in the Northwest; and fresh dove sole and fresh rainbow trout in the Southwest.

Branch, D822, National Oceanic and Atmospheric Administration, 6009 Executive Boulevard, WSC #4, Rockville, MD 20852, or by calling (301) 443-8330, also an FTS number. Suggestions for topics for future *Current Issue Outlines* are welcome.



Wood Hampton (left) of the National Maritime Union of America, AFL-CIO, meets with National Ocean Survey Director R. Adm. Allen L. Powell, John Taylor, NMU, and NOAA negotiators Capt. James S. Midgley and Cdr. Christian Andreasen following preliminary negotiations for vessel employees represented by NMU.

# **National Oceanic and Atmospheric Administration**

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