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A Message From the Administrator

The 1971 Interdepartmental Savings Bonds Campaign will be conducted from May 3 through June 18, with "Take Stock in America" as its theme. Secretary of Commerce Maurice H. Stans is Chairman of the Government Savings Bond Program this year.

As President Nixon recently said: "It is entirely appropriate that employees of the Federal government take leadership in the purchase of Savings Bonds through the Payroll Savings Plan. As participants in the operations of the government, they have a special stake in seeing that our programs are soundly financed, as well as in setting an example for the public at large in the purchase of these shares in our country's future."

Every day, people benefit in some way from owning United States Savings Bonds. They buy a home; send a son or daughter to college, or begin their retirement years free from money worries.

This year, Series E Bonds are better than ever--the investment yield has been increased to $5\frac{1}{2}$ percent when held to maturity. Interest--although subject to Federal income tax--is exempt from state and local income and personal property taxes.

I strongly urge the participation of all NOAA employees in this endeavor and encourage those who are currently enrolled to purchase higher denomination Bonds.

Robert M. White

Deputy Administrator Addresses National Fisheries Institute

In an address before the annual convention of the National Fisheries Institute in Kansas City, Mo., April 26, Howard W. Pollock, NOAA Deputy Administrator, said that commercial fishermen in the United States caught 4 billion, 884 million pounds of fish, shellfish, and other aquatic animals and plants in 1970. This was 501 million pounds larger than the 1969 catch, and the seventh largest on record. The 1970 catch was worth a record \$602 million to the fishermen at the dock, an increase of \$83.4 million over 1969. These figures, compiled by NMFS, are from a new Department of Commerce publication, Fisheries of the United States 1970.

Mr. Pollock said that annual per capita consumption of edible fishery products in the United States increased .3 of a pound to 11.4, the highest since 1953. Alaska with a catch valued at \$89.7 million, continues to lead all States in value of catch followed by California, \$84.5 million; Louisiana, \$62 million; Texas, \$53.5 million; and Massachusetts, \$45.8 million. Louisiana led all States in volume of catch, landing 1 billion 110 million pounds; followed by California, 694.2 million pounds; Virginia, 583.2 million pounds; Alaska, 528.6 million pounds; and Mississippi, 301.3 million pounds.

Mr. Pollock said that the full extent of the recent heavy metals problem in fish is not yet known, but that the NMFS has redirected additional efforts to the problem and is expanding the program to the entire area of marine contaminants.

Honolulu Weather Office Holds Computer Techniques Seminar

A session on "Improving Weather Services by Better Utilization of Computer Techniques" was held at the Honolulu Weather Service Forecast Office, April 9. Joe Vederman, meteorologist in charge opened the session and described the history and progress of numerical weather prediction in Honolulu and the application of computer techniques to local forecasting. Other speakers were Jack Bottoms, Wyman Au, Art Hull of Pacific Region headquarters, and Don Bourassa, manager of computer operations for Kentrom Hawaii, Ltd.

NWS / NOS Divisions Conduct Flood Studies Under Contract

The Federal Insurance Administration of the Department of Housing and Urban Development has contracted NOAA to do flooding studies for 17 selected coastal communities in Florida and two in South Carolina, to assist in its responsibilities for carrying out the provisions of the Flood Insurance Act of 1968.

The Act of 1968 makes flood insurance available to the private home owner for the first time, based on the flood risk for his residence. The Act also requires that communities use good planning in their flood plans. Both of these purposes will be served by the studies performed by NOAA.

The principal organizational units involved in the program are NOS's Oceanography and Photogrammetry Divisions and the Water Management Information Division and the Techniques Development Laboratory of NWS. The derivation of storm surge-time relations is done by the NWS units using as input its climatology data and tidal observations processed by the Oceanography Division. The actual demarcation of the flood zones and the final compilation of flood insurance maps are done by field and office units of the Photogrammetry Division.

Shak and McKee Represent Eastern Region At Lake Erie Recreational Marine Meeting

Gerald L. Shak, NWS Eastern Region User Services Representative, and William McKee, Regional Marine Meteorologist, represented the region at the First Annual Lake Erie Recreational Marine Meeting in Cleveland, Ohio, April 14. Richard Fay, meteorologist in charge at Cleveland, explained the updated Great Lakes marine services to the 40 participants representing the news media, Power Squadrons, Coast Guard, Coast Guard Auxiliary, and yachting organizations. Attending from Weather Service headquarters were Max Mull and Lt. J. Travers from the Weather Analysis and Prediction Division.

Goldman Joins NWS Eastern Region Staff

Joseph Goldman, a Civil Engineer, has joined the National Weather Service Eastern Region headquarters staff to assist with the Flash-Flood Program. Mr. Goldman, a former Navy Department employee has had extensive experience in community participation programs.

New Northwest Administrative Service Office Established; John M. Patton Appointed Director; Names Three Division Chiefs



John M. Patton, Jr.



Gordon D. Shadoan



Raymond J. Sauer



D.A. Carlson

NOAA's new Northwest Administrative Service Office in Seattle was established effective April 18, with John M. Patton, Jr., as its Director. The Northwest Administrative Service Office is designed to provide administrative services to the Pacific Marine Center of NOS, located at 1801 Fairview E., Seattle; the Northwest Region of NMFS headquartered in the Arcade Bldg., Seattle; and the Southwest Region of NMFS with headquarters at Terminal Island, Calif. The services provided by the new office will include personnel administration encompassing classification and wage administration, recruitment and placement, equal employment opportunity and labor management relations; budget and financial management, accounting and management analysis, including examination, disbursement and cost accounting functions; procurement and supply, property management, space management and travel and mail services.

With the establishment of the office, Mr. Patton announced the appointment of three key assistants. D. A. Carlson has been appointed Chief, Budget, Finance and Management Services Division; Raymond J. Sauer has been appointed Chief, Administrative Operations Division; and Gordon D. Shadoan has been named Chief, Personnel Division.

Prior to his new assignment, Mr. Patton was Special Assistant to the Assistant Administrator for Administration and Technical Services at NOAA headquarters. When NOAA was formed in October of 1970, he was Assistant Director for Administration for the Bureau of Commercial Fisheries, now the National Marine Fisheries Service.

Mr. Carlson had been Budget and Fiscal Officer for the NMFS Regional Office in Seattle for ten years prior to his new appointment. He began his career with the Fish and Wildlife Service in 1953, serving in various administrative positions in the National Wildlife Refuge system and on refuges in California, Oregon, Montana, and Eastern Washington before moving to Seattle.

Before his new assignment, Mr. Sauer was Chief, Procurement and General Services Division of the NMFS Seattle Regional Office. He began his Federal career in 1948 with the Department of the Interior's National Wildlife Refuge System, serving in the procurement and property units at Minneapolis, Minn., and Portland, Oreg., before transferring to the Bureau of Commercial Fisheries in Seattle in 1959. In 1961, Mr. Sauer became Assistant Chief of the Branch of Property Management at Bureau headquarters in Washington, D.C. In 1963, he served as Administrative Officer on St. Paul Island, Alaska, and returned to Seattle in 1965.

Mr. Shadoan was Chief, Operations Branch for the NOAA headquarters Personnel Division before his new appointment. He began his career with the U.S. Weather Bureau in 1961. Since then, he has held several responsible personnel positions, both operational and staff in ESSA and NOAA. He received his bachelor's degree in personnel management in 1961 and a master's degree in business administration in 1965 from the University of Kentucky.

Maryland Firm Gets Contract For Ocean Platform Sensors

Westinghouse Electric Corporation's Ocean Research and Engineering Center, Annapolis, Maryland, has been selected by NOAA's National Data Buoy Project Office to develop and test meteorological and oceanographic sensors on ocean platforms to be deployed in the Gulf of Mexico. The contract will total approximately three million dollars and cover a period of about a year and a half. The company will act in conjunction with the Electro-Dynamic Division of General Dynamics, recently selected to act as the system integration contractor and to build the test platforms. Testing and evaluation of the sensors in the Gulf of Mexico will be coordinated by the Project's staff at the Mississippi Test Facility near Bay St. Louis, Mississippi. Support will be provided by the U.S. Coast Guard, which recently announced the shifting of a vessel from the west coast to Gulfport, Mississippi, for this purpose. The sensors to be tested will measure ocean and atmospheric data, including wind speed and direction, rainfall, air temperature and pressure, dew point, water temperature, current speed and direction, conductivity, and sound speed. The ability to gather such information from unmanned ocean platforms will aid in filling the long-recognized data gap in maritime areas of the globe.

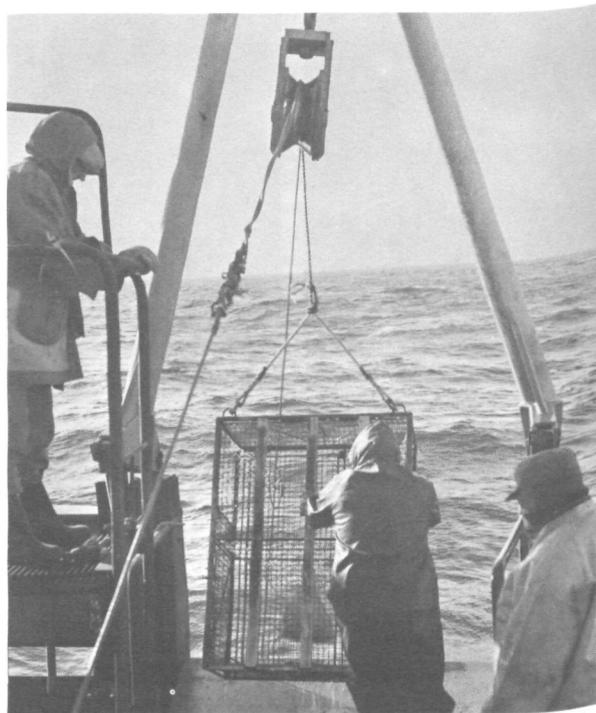
Wood Cited in English Reference Work



Fergus J. Wood, NOS physical scientist, has been cited from among 23,000 candidates throughout the world for his scientific authorship. Mr. Wood appears in "Two Thousand Men of Achievement-1970"--an international biographical reference work published in London, England. His

college textbook "Environmental Geoscience" is presently being printed. In addition, he has written 174 articles on the earth and planetary sciences in five leading encyclopedias and reference sources.

Deep-Water Traps Tested In DELAWARE II Cruise



Lobster trap being taken aboard the NMFS vessel Delaware II.

The National Marine Fisheries Service vessel DELAWARE II, operating from Woods Hole, Mass., recently completed a 10-week cruise designed to test the ability of traps in sampling marine animals along the Continental Slope off the Northeastern coast. A total of sixty-one stations were occupied at three locations--Block, Hudson, and Baltimore Canyons. About 10 tons of animals were retrieved from the sea bottom in a variety of traps. Crustaceans accounted for more than 90 percent of the total catch. These included red and Jonah crabs as well as northern lobsters. Some of the huge lobsters were taken from depths down to 300 fathoms. Red crabs were common from 200-800 fathoms and accounted for 69 percent of the total catch. A number of unusual fish were also taken in some of the deep-water trap sets, which have been sent to the National Museum for study by Service ichthyologists.

NOS Party To Survey Georgia Airport

An airport survey party, headed by Lt.(j.g.) John R. Hudson, Jr., will conduct a field survey of Columbus (Ga.) Metropolitan Airport. The party was scheduled to arrive in Columbus, Apr. 28.

Training Course Keeps Forecasters Up to Date



The National Weather Service has completed this fiscal year's fourth and final Forecasters Training Course at NWS headquarters. Approximately 75 to 100 forecasters a year attend this course.

Each class is estimated to cost the NWS about \$15,000, excluding salaries, but the benefits to the public in improved forecasting techniques far exceed the initial cost. Current plans are to expand the program. Presently, the method of teaching about 100 men a year would take more than ten years to reach them all. Recycling the forecasters to a training session about every five years seems optimum and future budgets are planned for such expansion. The men, chosen by their respective regional offices from throughout the 50 states, are diversified in their disciplines. Although all are meteorologists, some are aviation weather specialists, others general or state forecasters, and still others fire-weather, marine or international and high altitude specialists. The lecturers for these classroom periods of about three weeks duration are carefully chosen by the NWS headquarters. Many hold doctorates in their specific fields, and all are considered experts and recognized in the meteorological profession. The subjects taught cover a wide spectrum: operational analysis systems, operational numerical models, automated temperature

forecasting, radar theory and practice, and use of infrared satellite pictures. Graduates of this fourth Forecasters Training Course are shown above. Standing, left to right: Wesley E. Bode, San Antonio, Tex.; Robert Vasek, Honolulu; Lt. Col. Arthur Bidner, Offutt AFB, Nebraska; Guy H. Gray, Jr., North Platte, Nebraska; Stanley G. Sigler, Cheyenne, Wyo. Herbert C. Dahl, Detroit, Mich.; Ronald P. Hunt, Indianapolis, Ind.; Rodney C. Winslow, Boston, Mass.; Enis Vidinli, Turkish Weather Service, Ankara, Turkey; Edward A. Miechowicz, Buffalo, N.Y.; William J. Trebbe, Aberdeen, South Dakota; James N. Hosey, Raleigh, N.C.; Harold M. Hess, A&FD, NMC; Roy M. McCarter, A&FD, NMC; James C. Hicks, Memphis, Tenn.; Jack Mercer, Anchorage, Alaska; Donald C. Hipperson, Portland, Oreg.; Ralph Burson, Jr., RWC, New York City; Ruben Schulz, Anchorage, Alaska; Robert Carpenter, Columbia, S.C.; Thomas Laufer, A&FD, NMC; Forrest D. Paxton, Albuquerque, New Mexico. Seated, left to right: Milo J. Radulovich, Sacramento, Calif.; Roger L. Hegstrum, Fresno, Calif.; Lester C. Jordan, San Francisco; Young T. Sloan, New Orleans, La.; Gilbert F. Pitts, Oklahoma City, Okla.; Norman Schuyler, Los Angeles; Ralph Jones, NMC. Front row, left to right: Maurice Pautz, NWSH; Dr. Duane Cooley, NWSH; Frederick Ostby, NWSH; and Robert Derouin, NWSH.

New Data Acquisition Systems Planned for Additional Ships

The National Ocean Survey is expanding the use of automated data-acquisition systems on three ships and six of their auxiliary 25-foot launches at a cost of \$497,000 in a major step to speed the acquisition of hydrographic survey data and the production of nautical charts. NOS produces approximately 2,700,000 nautical charts yearly for commercial shipping, small-craft operators, and the military.

Commander Clinton D. Upham, Manager of NOS's Marine Data Systems Project, predicted that the new system, designed by NOS personnel, will appreciably reduce the two years presently required to produce a new chart from the inception of hydrographic surveying to publication of the finished product. In addition, he said, it should improve the overall effectiveness of data gathering aboard hydrographic survey vessels, since it will eliminate human errors that presently occur during the manual conversion of data to digital format for later computer processing and chart compilation ashore.

The new automated equipment, identified as the HYDROPLOT HYDROLOG System, is being installed on the MT MITCHELL, and the vessels RAINIER and FAIRWEATHER. The schedule calls for implementation of the system aboard the MT MITCHELL by June and aboard the other two ships by August. Eventually, it is planned to install similar systems aboard the remaining hydrographic survey ships, the PEIRCE, McARTHUR, and DAVIDSON. Cdr. Upham estimated that installation of the HYDROPLOT/HYDROLOG system could reduce the time required for producing charts by as much as five months once the systems are in full operation.

Western Region Meteorologists Instruct At FAA Pilot Briefing Sessions

Gemo Yakubovsky, Los Angeles Quality Control Officer, was the weather instructor at the FAA/AOPA-sponsored Instrument Flight Instructors Refresher Clinic, held at Mount San Antonio College, Walnut, Calif. The clinic was attended by 163 pilots.

Art Rozett, of the Great Falls Weather Service Forecast Office, provided the weather instruction for the Montana Pilots Refresher Course, April 5-9.

D.C. Rainfall Patterns Studied; Need Volunteers for Urban Area

The Washington Weather Service Forecast Office, in cooperation with other interested NWS employees, is conducting studies of monthly and individual storm rainfall patterns and maximum and minimum temperatures within a 25-mile radius of downtown Washington, D.C. Part and fulltime volunteers are needed to record precipitation and/or daily high and low temperatures. The biggest gaps in the network are in rural areas outside the beltway and in D.C. proper. Temperature reports are used to study the influences of urbanization and terrain on temperatures under different cloud, wind, and snow cover conditions.

This summer, a special additional study is planned, regarding rainfall amounts determined from rain gage versus amounts computed from radar. Persons interested in participating in the temperature and/or rainfall studies may call Thomas Blackburn at 589-5870 on weekends or on a weekday after 3 p.m. Volunteers will receive a free copy each month of the Metropolitan Climatological Summary for the National Capital Area. Wedge-type rain gages are available for \$2.50 and maximum-minimum thermometers cost about \$6.00.

Chadsey Nominated for Federal Award

Elmer Chadsey, leading forecaster at the Honolulu Weather Service Forecast Office has been nominated as the NWS Pacific Region's "Federal Manager of the Year!"

Floyd To Aid Fishery Industry in Azores



Hilton Floyd, a methods and equipment specialist for NMFS, is cooperating with the Air Force in a people-to-people program to improve the local fishery of the Azores. Mr. Floyd of the NMFS Exploratory Fishing and Gear Research Base, Brunswick, Ga., will leave in May for the Azores,

where he will spend four to six weeks familiarizing local fishermen with some of the latest techniques, equipment, and materials.

Third Computer Operator Training Course Gets Underway



Twelve NOAA employees have been selected for the third Computer Operator Training Program. After successful completion of their training, these employees will be reassigned to Computer Operator positions in NOAA computer fa-

cilities. Seated, left to right: Ellen Myre, Norma Cooper, Joan Robinson, Verna Thomas. Standing, left to right: Fred Wilson, Marshall Esther, Lonnie Teasley, Sharon Hill, Lanny Reese, Ruth Harris, James Silver, and Benjamin Green.

NOAA Participates in Remote Sensing Workshop

An international workshop on remote sensing of earth resources, sponsored by several government agencies, including NOAA, will be held May 3-14 at the University of Michigan. Thirty-six countries and 14 international organizations plan to be represented at the International Workshop on Earth Resources Survey Systems, where they will learn how remote sensing can discover new resources, boost crop yields, and monitor pollution. NOAA participants chairing sessions, presenting papers or serving as instructors are: Dr. John W. Townsend, Jr., NOAA Associate Administrator; Dr. William O. Davis and Donald Baker, Office of Plans and Programs; E. Paul McClain and P. Krishna Rao, National Environmental Satellite Service.

Agriculture Weather Service Plan Published

"The Federal Plan for a National Agricultural Weather Service" has been published by the Federal Coordinator for Meteorological Services and Supporting Research. The plan focuses on the need for providing specialized weather services to farmers and other agribusiness interests. The Plan is directed toward improving and expanding existing agricultural weather services in the 1972-1976 time period. It makes maximum use of the observational networks and the data processing and disseminating facilities of the Basic Meteorological Service of the Department of Commerce. It does not include related programs such as fire weather service, hydrology, or public weather service. Copies are for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C.

OCEO Men Win Awards For Special Achievement



Three crewmen aboard the NOAA Ship OCEANOGRAPHER have received Special Achievement awards for superior on-the-job performance. The awards were presented by Captain Miller J. Tonkel, the ship's commanding officer and the supervisors of the recipients. Receiving the awards were: Robert E. Nichol, electronic technician; Robert W. Zens, communications technician; and Terrence L. Lord, electronic technician. In photo, left to right: Mr. Lord, Harvey W. Hildahl (supervisor); Mr. Zens; Lyle C. Work (supervisor); Capt. Tonkel; Lt.(j.g.) William Viertel (supervisor); and Mr. Nichol.

Morris Arkin Has the Answers

"How many tons of rain, snow, or sleet fall on the Earth per second?" The question is an example of the hundreds received and answered each week at the Environmental Data Service. Morris Arkin, Chief of the EDS Foreign Branch, sent back the following reply: "Roughly 18,888,688 tons of precipitation per second, based on the following data: annual precipitation over land 26.4 inches; annual precipitation over water 44.9 inches; total land area of Earth is 57,280,000 square miles; total water area of Earth 139,660,400 square miles (Rand-McNally Atlas); weight of a cable foot of water is 62.4 pounds. Of the total amount, 3,475,694 tons fall per second over land and 14,412,994 tons fall per second over water."

NMFS Planning Assistant Retires After 40 Years of Federal Service



Mrs. Catherine Criscione, planning assistant in the NMFS Office of Planning, Washington, D.C., has retired after 40 years of Federal service. At a retirement luncheon, Mrs. Criscione was presented with a 40-year service pin and a letter of commendation signed by NMFS Director Philip M. Roedel.

Farlowe/Gibson, Atlanta Forecasters, Retire

Junius K. Farlowe, forecaster at the Atlanta, Ga., Weather Forecast Office, retired April 17 after completing more than 43 years of service. Mr. Farlowe entered the Weather Service as a junior observer in 1937 at Charlotte, N.C. In 1938 he transferred to Birmingham, Ala., and to Atlanta in 1942, where he was a junior meteorologist (instructor) in the Atlanta Regional Office. In 1944, he joined the Weather Bureau Airport Station at Atlanta, where he has served as a forecaster since that time.

Arville C. Gibson, forecaster at the Atlanta, Ga., Weather Bureau Forecast Office, retired April 17 after more than 37 years of service. He entered the Weather Service in 1931 at Knoxville, Tenn., and served there until 1933. Mr. Gibson's other assignments were at Nashville, Tenn., Los Angeles and Pomona, Calif., and Jacksonville, Fla. He has served as a forecaster at Atlanta since 1946.

Items to be considered for publication in NOAA WEEK should be submitted to: Office of Public Affairs, NOAA, Room 804, Bldg. 5, Rockville, Md. 20852. Phone (301) 496-8243.

National Oceanic and Atmospheric Administration

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