



noaa week

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Energy Conservation

Message From the Administrator

The United States is facing an energy emergency. Evidence of its impact is becoming more apparent every day. Although many suggestions on conserving energy have been publicized, I would like to reiterate some of them. I urge each of you to spare no effort to make the NOAA contribution to conserve energy a significant one. For example:

1. Set office and home thermostats at 65-68 degrees.
2. Limit driving speed to 50 miles per hour where the limit is higher.
3. Consolidate trips for business purposes and for personal errands.
4. Form car pools or use mass transit whenever possible.
5. Eliminate non-essential indoor and outdoor lighting.
6. Cut down on the use of automobiles and motor boats for pleasure.

7. Shut off all electrical equipment and motors when not in use. (For example, think of all the electric typewriters left with motors running.)

Although an individual contribution to the conservation of energy may seem small, the aggregate of thousands of small contributions will make a substantial impact.

This is a time for all of us to pull together. I would be pleased to have any suggestions from any employee on ways to conserve energy in NOAA's day-to-day operations. Please send your suggestions to NOAA's Energy Conservation Coordinator, Rear Admiral Harley D. Nygren, Director of the NOAA Corps.

Robert M. White

Ambassador-Designate to Senegal And The Gambia Briefed on GATE



A briefing on the Global Atmospheric Research Program Atlantic Tropical Experiment was held at NOAA Headquarters last week for the Ambassador-Designate to Senegal and The Gambia, O. Rudolph Aggrey. Headquarters for the GATE operations will be in Dakar, Senegal. From left above are: John L. Loughran, Acting Director, Office of West African Affairs, Department of State; Dr. Douglas Sargeant, Director, U.S. GATE Project Office; Ambassador-Designate Aggrey; Colonel William S. Barney, Deputy Director, U.S. GATE Project Office; and John W. Vincent, Senegal Desk Officer, Department of State.

NMFS Scientist Identifies 20 New Marine Amoebas

Dr. Thomas K. Sawyer, a marine biologist with the National Marine Fisheries Service Laboratory at Oxford, Md., conducting the first major study of marine amoebas in almost a half century, has identified 20 previously unknown species.

His research also shows that marine amoebas may prove highly useful as environmental indicators of oceanic pollutants.

Amoebas are microscopic one-celled animals that exist primarily in water or soil, or as parasites in other animals and plants. While the majority of them are harmless, some cause diseases in humans such as amoebic dysentery and certain kinds of brain damage. Others may infect animals or plants. Little is known of the approximately 75 presently known species of marine amoebas.

Dr. Sawyer received his Ph.D. from the University of Maryland last June on a NOAA fellowship, based on his work on marine amoebas.

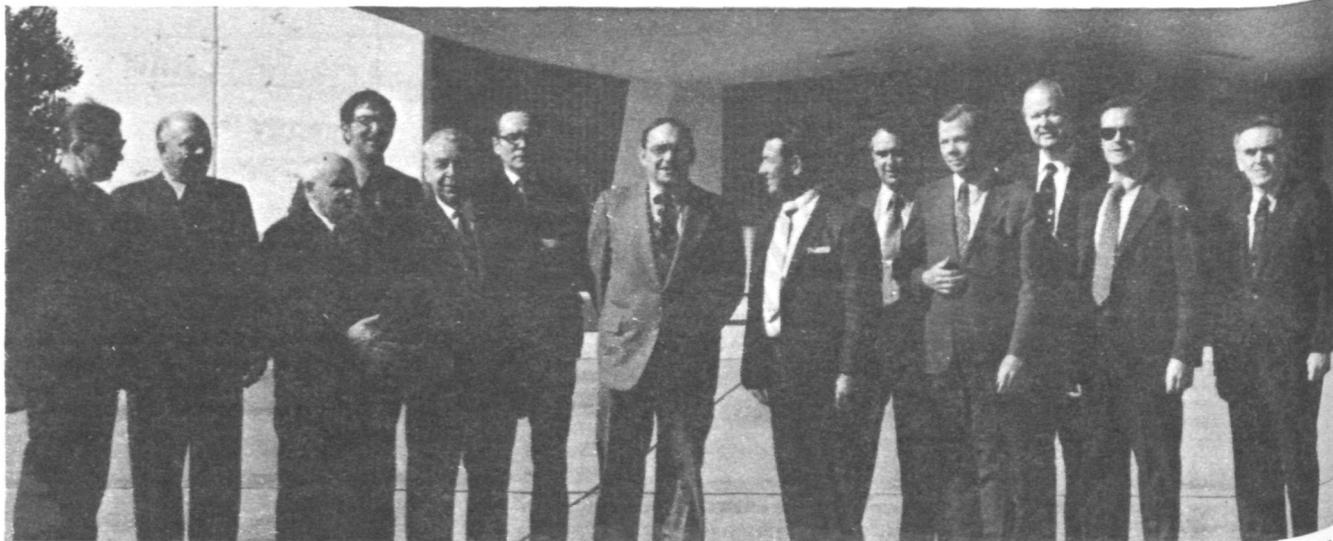
Dr. Sawyer conducted a year-long study of free-living (non-parasitic) marine amoebas in Chincoteague Bay, Va., to provide baseline data for future comparative studies in marine habitats that have specific pollutant problems. Studies of amoebas in the essentially unpolluted waters of Chincoteague Bay, he believes, will provide information on natural diversity and types of amoebas

(Continued on page 4)

U.S.S.R. Scientists Visit NDBO After Environmental Meeting in D.C.

Four scientists from the U.S.S.R. visited the NOAA Data Buoy Office at the National Aeronautics and Space Administration's Mississippi Test Facility in Bay St. Louis, at the invitation of Dr. Robert M. White,

NOAA Administrator, on November 17. Their visit followed the second annual meeting of the U.S.-U.S.S.R. Joint Committee on Cooperation in the Field of Environmental Protection in Washington, D.C.



Standing in front of the entrance to the MTF are (from left) V. G. Novozhilov, Chief Assistant of Central Administration of Foreign Relations, Soviet Hydrometeorological Service; James W. Winchester, Director, NDBO; Academician N. P. Dubinin, Director, Institute of General Genetics, U.S.S.R. Academy of Sciences; Dr. Edward S. Epstein, Associate Administrator for Environmental Monitoring and Prediction; Academician E. K. Federov, Head of the Soviet Hydrometeorological Service and Soviet Chairman, U.S.-

U.S.S.R. Joint Committee on Cooperation in the Field of Environmental Protection; Y. B. Znamenskiy, Soviet Hydrometeorological Service; Dr. White; Commander P.A. Morrill, USCG, Deputy Director, NDBO; Basil Lukianoff, Interpreter; Dr. Lee Talbot, Senior Scientist, Council on Environmental Quality; Nels Johnson, Acting Director, International Affairs, NOAA; David H. Strother, Environmental Protection Agency; and Dr. Robert A. Clark, Chief Hydrologist, National Weather Service.

Nygren Speaks at Safe Boating Award Ceremony



Rear Admiral Harley D. Nygren, Director of the NOAA Corps, (right) was one of the speakers at a recent ceremony of Division XI of the U. S. Coast Guard Auxiliary, at which certificates of appreciation were presented to citizens and private organizations who contributed toward safe boating. Others in the photo are (from left) C. Peter Marini, Communications Officer in NOAA Administration Division and National Branch Chief, Public Relations, USCGAUX, who was master of ceremonies; Harold B. Hanev, National Commodore of the USCGAUX; and Robert Burnside, Chairman of National Safe Boating Committee, Inc.

Scientists To Study Under NOAA-CU Program

Seven scientists from throughout the U.S. and the United Kingdom will spend a year of specialized study in Boulder, Colo., as part of a visiting fellows program set up within the Cooperative Institute for Research in Environmental Sciences. CIRES is sponsored by the Environmental Research Laboratories and the University of Colorado.

Visiting CIRES fellows for the 1973-1974 year include Drs. Charles Archambeau from California Institute of Technology's Seismological Laboratory in Pasadena; Trevor Frederick Baker of the Natural Environment Research Council in Birkenhead, Cheshire, England; Demetrius P. Lalas of Wayne State University's Department of Mechanical Engineering Sciences in Detroit, Mich.; Samir F. Mahmoud of the Canadian Institute of Guided Ground Transport at Queen's University, Kingston Ontario, Canada; Randolph J. Martin, III, of the U.S. Army's Cold Regions Research and Engineering Laboratory in Hanover, N.H.; Martin L. Smith, Jr., of Princeton, N.J.; and Ting-i Wang of Dartmouth College's Radiophysics Laboratory in Hanover, N.H.

CIRES was formed in 1967 to promote research and teaching in geophysics, radio propagation, the physics of the upper and lower atmospheres, and solar-terrestrial relationships, and to serve as a center for multidisciplinary collaboration of research workers.

Coastal Zone Management Advisory Committee Holds First Meeting



This photo was taken on November 15 at the first meeting of the recently-formed Coastal Zone Management Advisory Committee, after the new members were sworn in by Under Secretary of Commerce John K. Tabor. (Seated, from left) Robert W. Knecht, Director, Office of Coastal Environment and Chairman of the Committee; Under Secretary of Commerce John K. Tabor; and Dr. Robert M. White, NOAA Administrator. (Standing, from left) John Spellman, County Executive, King County, Wash.; Dr. Charles E. Herdendorff, III, Director, Center for Lake Erie Area Research, Ohio State University; Edward Bertrand, General Manager, Lagoon Marina, St. Thomas, V.I.; Dr. Y. R. Nayudu, Director, Division of Marine and Coastal Zone Management, Department of Environmental Conservation, State of Alaska; Dr. William H. Fisher, Director, Bureau of Economic Geology, University of Texas; Charles E. Fraser, President, Sea Pines Co., Hilton Head, S.C.; William B. Hannum, Jr., President, Sea Farms, Inc., Key West, Fla.; Harry C. Brockel, Great Lakes Study Center, University of Wisconsin; Ellen Stern Harris, Vice Chairman, California Coastal Conservation Commission; W. Reid Thompson, President, Potomac Electric Power Co.; Scott C. Whitney, Professor of Law, College of William and Mary; Dr. Lyle S. St. Amant, Assistant Director, Louisiana Wildlife and Fisheries Commission; Dr. Lee Koppelman, Executive Director, Nassau-Suffolk (N.Y.) Regional Planning Board; and Robert Bybee, Operations Manager, Exploration Department, Exxon Company. Mayor Peter Wilson of San Diego was not present for the photograph.

Survey Underway To Evaluate Land Sinking If Hot Steam and Water Are Tapped for Power

A four-month geodetic survey is being conducted in Imperial Valley, Calif., by the National Geodetic Survey to evaluate land sinking there if underground hot steam and water are tapped to generate electric power. The survey is being made in cooperation with Imperial County and other Federal and state agencies which propose to use geothermal energy for generating power and for providing additional water supplies for the valley. Elevations along a 150-mile route will be determined. These elevations will enable surveyors to control the accuracy of a 370-mile network being surveyed throughout the valley. This network was established in 1972 and is being surveyed again to determine the rate of earth movement before geothermal operations begin. Survey data will provide Imperial County with a history of earth movement which will serve as a basis of comparison for determining movement which may occur when hot steam and water are withdrawn from geothermal wells. A five-man field party of the NGS and surveyors from cooperating agencies will make the geodetic measurements every six-tenths of a mile. The survey will proceed in Wister through Niland, Calipatria, to Wood, Brawley, Imperial and El Centro to Calexico and from Ogilby through Holtville, El Centro, Seeley, Dixieland and Plaster City to Coyote Wells.

Pentney Named MIC of Auburn, Wash., WSO

Robert W. Pentney has been selected as the Meteorologist in Charge of the Weather Service Office in Auburn, Wash. He has been assigned at Medford, Oreg., since 1960. He served in the U.S. Army Air Corps during World War II. In 1942 he graduated from Willamette University, Salem, Oreg., with a Master's Degree in Mathematics.



Lanier Heads NOS Metric Conversion Planning

Captain Roger Lanier has been placed in charge of developing plans for the National Ocean Survey to convert its operations to the metric system. He was named by the Director as the focal point for such effort. Captain Lanier is a Special Assistant to the Director.



Captain Lanier

Dr. Alan J. Beardsley Is Named To Direct Kodiak Investigations

Dr. Alan J. Beardsley of the National Marine Fisheries Service Northwest Fisheries Center in Seattle, Wash., recently was named Director



of the Kodiak Investigations of the NWFC. He will direct research on shrimp, king crab, and Tanner crab in the Gulf of Alaska and Bering Sea.

Dr. Beardsley received his B.A. in biology from Willamette University, and while working for the U. S. Bureau of Sport Fish and Wildlife of the Department of the Interior, earned his Ph.D. in fisheries from Oregon

State University. He then entered the National Marine Fisheries Service (at that time Bureau of Commercial Fisheries) and has since worked in the Gear Research Unit; as an aquanaut in the Tektite II Program in the Virgin Islands; as an Advisor to the U.S. Trust Territory of the Pacific (Micronesia); and most recently as Program Leader of the Finfish Research Program of the NWFC.

Cutler Named to NOS Program Development Post

Millard L. Cutler has been appointed Chief of the Program Development Division in the



Mr. Cutler

National Ocean Survey's Office of Program Development and Management. He succeeds James F. O'Neil, who is now the office's Deputy Associate Director.

Mr. Cutler formerly headed the Planning, Coordination and Program Support Staff in the National Geodetic Survey. He has served with the NOS and its predecessor,

the Coast and Geodetic Survey since 1942, except for three years in World War II with Army topographic units in the Pacific.

He will serve as the focal point for Survey program planning activities, with responsibility for developing policy and guidance for new and expanded programs.

New Marine Amoebas (Continued from page 1)

against which later studies of polluted waters can be measured.

From his study, Dr. Sawyer concludes:

--Amoebas are extremely abundant in the ocean, both crawling on seaborne vegetation and floating in surface waters;

--The diversity of species of marine amoebas is poorly known and needs intensive study, particularly with respect to such aspects as the role they play in the biodegradation of pollutants and as consumers of marine bacteria;

--Of the known marine amoebas, about half the species probably are unable to tolerate the pollution caused by man's effluents.

TDL Develops Numerical Model For Short Range Forecasting

The Techniques Development Laboratory of the National Weather Service's Systems Development Office has developed a numerical model which produces improved sea-level pressure and quantitative precipitation forecasts during the period up to 11 hours after run times of 0700 and 1900 GMT. The new model, known as the Subsynoptic Update Model, was put into operation at the National Meteorological Center on October 17, 1973, as a replacement for the Subsynoptic Advection Model (SAM).

SUM was developed by Thomas H. Grayson while working with Robert J. Bermowitz on a project to (1) extend SAM to cover the conterminous U.S. (SAM's coverage is over the eastern U.S. only); and (2) to develop an analysis-advection method for prediction of aviation and public weather elements. SUM 5- and 11-hour sea-level pressure and 0-5 and 5-11 hour quantitative precipitation forecasts are transmitted twice daily from NMC to forecast offices via facsimile.

New Lake Survey Telemetry System Installed

The Lake Survey Center's Water Level Branch has just installed six telemetry gages, instruments which enable the Gaging Section to receive hourly water level data from selected sites via telephone. The work was funded by, and done in cooperation with, the Corps of Engineers. The equipment was installed by Lake Survey Center technicians: on Lake Superior by Charles D. McWee and Edward Iwasako at Duluth, and with Robert Goodnough's assistance, at Marquette and Point Iroquois; on Lake Huron by Arnold Rybak and Elmer Kulp at Harbor Beach; on Lake Ontario by Edward Gurche and Elmer Kulp at Oswego. Two more are scheduled for placement in the near future--one at Cleveland and the other at St. Clair Shores.

Victor E. McCrory Receives Bronze Medal

Victor E. McCrory, retired Meteorologist in Charge at the National Weather Service Office at Dulles International Airport, Washington, D.C., has received a Department of Commerce Bronze Medal "in recognition of sustained leadership in providing highest quality weather observing and briefing services."



Mr. McCrory (left) received his Medal from Karl R. Johannessen, Associate Director, NWS, for Meteorological Operations.

Environmental Science and Service Discussed at U.S.-Canada Meeting



On November 6 and 7, meetings were held at National Weather Service Headquarters with senior officials of the Canadian Atmospheric Service. J.R.H. Noble, Assistant Deputy Minister of the Canadian Department of the Environment, headed the Canadian group, and Dr. Robert M. White, NOAA Administrator, and Dr. George P. Cressman, NWS Director, headed the NOAA/NWS group. The purpose of the meeting was to exchange planning and development information on the broad range of environmental science and service programs for which the two groups are respectively responsible.

(Seated, from left) Dr. W. L. Godson, Director General, Atmospheric Research Directorate, AES; Merritt Techter, Director, Systems Development Office, NWS; H. Cameron, Director, Program Development and Evaluation Branch, AES; Dr. Cressman, Mr. Noble; L. Richards, Chief, Hydrometeorological Division, AES; H. Bindon, Director, Atmospheric Instruments Branch, AES; and Karl R. Johannessen, Associate Director, NWS, for Meteorological Operations.

(Standing, from left) Max Kohler, Associate Director, NWS, for Hydrology; F. W. Benum, Director General, Field Services Directorate, AES; and Dr. Richard E. Hallgren, Deputy Director, NWS.

Geologic Changes Reported After Alaska Survey

The NOAA Ship Fairweather has completed more than eight months of hydrographic surveys in Hawaii and Alaska. The season's work included nearly 3000 miles of sounding line by the ship and her launches, and covered the west coast of Hawaii Island and Lower Cook Inlet and Glacier Bay in Alaska.

Commander Charles A. Burroughs reported that in the Glacier Bay area at the northern reaches of Southeast Alaska great geologic changes are taking place. Evidence indicates that at the time of Vancouver's explorations less than 200 years ago the area surveyed by the Fairweather was covered by one large sheet of ice.

The closest tidewater glacier has now retreated 40 miles north of the entrance to Glacier Bay. The disappearance of the glacier's weight has resulted in a general uplift of the land, with some islands becoming peninsulas, shoals becoming islands, and submerged rocky areas becoming dangerous shoals which rise above the surface at low stages of the tide.

Geodetic Survey To Be Made in Southern Texas

A five-month geodetic survey in southern Texas by an 18-man National Geodetic Survey field party headed by Ivan L. Crabbe, will begin in early December.

The work will be carried out in two areas of the state in support of federal mapping projects: a 1625-square-mile area extending from Laredo to Realitos and including the communities of Laredo, Pescadito, Oilton, Hebronville and Realitos and in a 1000-square-mile area extending from Lopeno to Agua Nueva.

Coastal Remote Sensing Research Grant Awarded

A \$35,000 grant for research on monitoring bottom currents, wave, and tidal heights of the shore face near Virginia Beach, Va., has been given to four scientists at Old Dominion University in Norfolk, Va., by the Environmental Research Laboratories.

Grant recipients are principal investigator, Dr. John C. Ludwick, Director, Institute of Oceanography; and co-principal investigators, Drs. Peter Fleischer and Gerald L. Shideler, Institute of Oceanography; and Dr. Preston B. Johnson, Department of Electrical Engineering.

The proposed remote-sensing system will consist of a sea-bed platform, 3,000 feet offshore, which will be equipped with commercially manufactured sensors capable of measuring bottom currents, and wave and tidal heights. The data from the sensors will be transmitted by cable to shore and recorded on magnetic tape, then directly transferred into a large digital computer for summarization and analysis. Dr. Donald J. Swift, a research oceanographer with ERL's Atlantic Oceanographic and Meteorological Laboratories in Miami, Fla., will be monitoring the project.

According to scientists, the shore face of the inner continental shelf represents one of the most dynamic of all marine environments. Its sediment transport system, as regulated by the nearshore tide system, is intimately related to a spectrum of critical coastal zone problems. Among the most apparent are beach erosion, the development of coastal shoals hazardous to navigation, and the destruction of navigable harbors and inlets by sediment deposition.

Advanced Prediction Techniques Course Held at NWS Headquarters



Dennis A. Politano, Washington, D.C.; and Thomas J. Grant, New York, N.Y. (Standing, from left) Robert Derouin, Instructor, NWSH; Dr. Charles Chow, NWSH; Johnnie B. Graham, Lubbock, Tex.; Victor C. Bundy, Seattle, Wash.; John F. Feeley, Buffalo, N.Y.; Melvin

Participants in the National Weather Service Advanced Prediction Techniques Course, held at NWS Headquarters in Silver Spring, Md., from October 30 to November 15 were: (Seated, from left) Maury Pautz, Course Supervisor, NWSH; David H. Shideler, Honolulu, Hawaii; Gene Costello, NMC, Suitland, Md.; Norton D. Strommen, Kansas City, Mo.; William D. Marshall, Birmingham, Ala.;

A. Dybvik, Columbia, S.C.; Donald L. Ocker, Albuquerque, N.Mex.; Bernarr M. Woitschek, New Orleans, La.; James B. Lushine, NESS, Miami, Fla.; Dean N. Jackman, Salt Lake City, Utah; Robert H. Armstrong, ARL, Las Vegas, Nev.; Allan V. Gustafson, Raleigh, N.C.; Stephen L. Kahn, Chicago, Ill.; John C. Plankinton, Jr., Boise, Idaho; Kenneth C. Tillotson, Denver, Colo.; William G. Collins, NMC, Suitland, Md.; David I. Wise, Sacramento, Calif.; Robert L. Howard, Memphis, Tenn.; Hugh L. Jones, Omaha, Nebr.; Arthur G. Lesard, Topeka, Kans.; and Paul E. Rausch, Anchorage, Alaska. (Attending, but not pictured) William Sullivan, Los Angeles, Calif.

Part 6 of Fish Monograph Is Published

Part 6 (nearly 700 pages) of the comprehensive monograph Fishes of the Western North Atlantic was recently published by the Sears Foundation for Marine Research of Yale University. The series, edited by Dr. Daniel M. Cohen, Director of the National Marine Fisheries Service Systematics Laboratory located in the Smithsonian Institution, is a basic reference for professional marine scientists and others interested in fishes. Authoritative studies by selected experts are included on anadromous, estuarine and marine fishes of the western North Atlantic, Hudson Bay to the Amazon.

Part 6 includes the deep-sea "spiny eels," killifishes of salt and brackish areas, the cod-like rattails of the continental slopes and deep-sea, and others.

NWS Majuro Station Has Surprise Visitors

"Are you kidding?"

This was Jack Nunan's reaction when a stranger entered the Majuro, Marshall Islands, National Weather Service station and introduced himself with "Hi, I'm Howard Pollock."

NOAA's Deputy Administrator, leading a delegation to the Pacific to discuss fisheries affairs, Law of the Sea and related subjects, assured Mr. Nunan it wasn't a joke.

When Mr. Pollock subsequently entered NWS stations and greeted Tom Titagawa at Ponape and Lasaro R. Maipi on Truk, it was no surprise. The word had gotten around.

notes about people

Dr. Harris B. Stewart, Jr., Director of the Environmental Research Laboratories' Atlantic Oceanographic and Meteorological Laboratories in Miami, Fla., Gilbert Jaffe, Director of the National Ocean Survey's Oceanographic Instrumentation Center; and Dr. Warren S. Wooster, Dean of the University of Miami's School of Marine and Atmospheric Science, were the three Americans recently invited to participate in an international workshop on marine science and technology transfer to developing countries in Bologna, Italy. Representatives from 23 countries in Africa, Latin America, and Southeast Asia were present.



Ms. Nona Lewis was crowned Miss MTF Torch at the Mississippi Test Facility's combined agencies campaign kick-off ceremony recently.

MS. Lewis is employed by the National Marine Fisheries Service, Fisheries Engineering Laboratory, at the MTF in Bay St. Louis, Miss.

Study Under Sea Grant Generates Hope of Restored Economy

There is hope that Louisiana's French village of Pierre Part will have its economy restored and the nation's children will again have pet turtles.

The hope comes from a laboratory on the Louisiana State University campus where microbiologist Dr. Ronald J. Siebeling, in a study being supported as a Sea Grant advisory service, may have found a control for salmonellae pathogens in baby green turtles.

The baby green turtle, one of Pierre Part's main products, was banned from the market last year by the U.S. Food and Drug Administration for being a carrier of salmonella. The ban, along with the nationwide publicity that followed, devastated the industry.

Several years ago the turtle growers recognized that salmonella was becoming a threat and they appealed to state and Federal offices for help. Last April, a group of Louisiana State University scientists met at the request of the LSU Office of Sea Grant Development to discuss the problem.

Dr. Siebeling immediately launched a study--with enthusiastic help from Louisiana turtle growers--and although the investigation is only six months old, he already has promising results for the ailing industry. "It's too early to say we have solved the salmonella problem," he says, "but we are optimistic. This problem calls for many more days in the laboratory to test various other drugs."

He hopes the study will provide a relatively inexpensive and simple treatment program for the Louisiana turtle farmer--enabling him to raise and sell a commercially safe product.

Doris Stewart Honored for EEO Contributions

Doris G. Stewart of the Environmental Data Service's Publications and Media Staff recently received a Special Achievement award in recognition of her long-term contributions to the advancement of the EEO programs of EDS, NOAA, and the Department of Commerce. Ms. Stewart served as Chairman of the EDS EEO Committee from January 1972 through August 1973. At the same time she was the EDS representative on the NOAA EEO Committee and its Recording Secretary.

NGS Field Party Surveying New Jersey Waters

A detailed investigation of numerous reported navigational hazards in New Jersey waters has been completed by a six-man National Ocean Survey field party, headed by Lieutenant Richard K. Muller.

Sunken wrecks, rocks, shallow areas and other underwater obstructions which pose a danger to navigation were surveyed in Raritan and Newark Bays and the Raritan, South, Hackensack and Passaic Rivers, and a hydrographic survey of water depths was undertaken at the Bayonne Terminal pier. Eight nautical charts covering the areas will be updated as a result of the two-and-one-half-month survey.

New NMFS Deputy Director Sworn in by NOAA Administrator



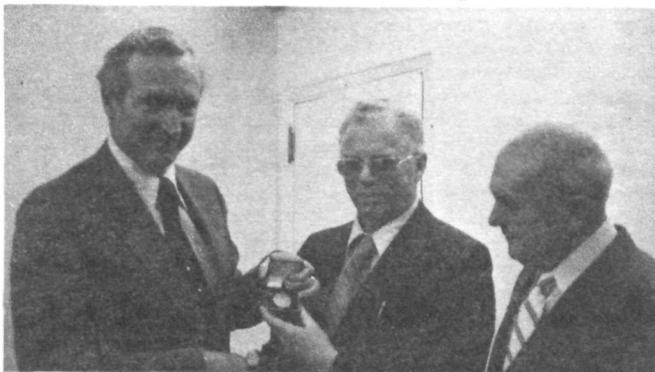
Jack W. Gehringer (left) was sworn in as Deputy Director of the National Marine Fisheries Service by Dr. Robert M. White, NOAA Administrator. Mrs. Gehringer held the bible during the ceremony, which took place at the Page Building, Washington, D.C., on November 12.

Mr. Gehringer was formerly Director of the Fisheries Service Southeast Region, with headquarters in St. Petersburg, Fla.

As Deputy Director of NMFS he will work with NMFS Director Robert W. Schoning in planning, developing, coordinating and administering the Service's diverse research efforts and fisheries programs.

Walter J. Stoddard Receives Bronze Medal

Walter J. Stoddard, Port Meteorological Officer at the National Weather Service Office in New York City, has received a Department of Commerce Bronze Medal for his exceptionally competent performance of duties related to the Marine Weather Reporting Program at the New York City WSO and the very effective liaison which he has maintained for the NWS with the marine industry.



Mr. Stoddard (center) being congratulated by William J. McKee, Marine Specialist at NWS Eastern Region Headquarters. On the right is John A. Mayer, Meteorologist in Charge at the WSO New York City.

Davidson Is Popular in Craig, Alaska

The NOAA Ship Davidson was a big hit in Craig, Alaska, when it held open house there. Over 25 percent of the town's population turned out to greet the ship.

WSO Augusta, Ga., Hosts Combined WSFO/WSO Meeting

All National Weather Service Stations in South Carolina and most of those in Georgia were represented by one or more personnel at a combined WSFO/WSO meeting in Augusta, Ga., recently. The meeting, one of the first between offices of two states as well as two regions held to discuss various problems and objectives, was also attended by representatives of the Eastern and Southern Regional Offices.

Following the welcome by E. R. Mahaffey, MIC of the Augusta WSO, John Purvis, MIC at Columbia, S.C., chaired the morning session, which included a discussion on agricultural meteorology by Alex Kish, Agricultural Meteorologist from Clemson University; on operations by George Yount and the staff of the WSO in Charleston; on severe weather by Jim Spillers and staff of the WSO Greenville-Spartanburg; and radar-flood use by the WSFO staff from Columbia.

The afternoon session was chaired by Bill Harms, MIC of the WSFO in Atlanta, who also spoke on snow forecasting and its related problems--especially in the Southeast U.S. William E. Fox, Hydrologist in Charge, led the group from the River Forecast Center in Atlanta, and Walker Gilreath spoke on forecasting for large basins and Winston Hurst on flash flood forecasting.

Also, Paul L. Moore, Chief of the Scientific Services Division at Southern Region Headquarters, presented information concerning digitized radar data and Eugene W. Kilgore, Public Service Meteorologist of the Eastern Region, discussed impending expansion of the NWS VHF-FM radio program.

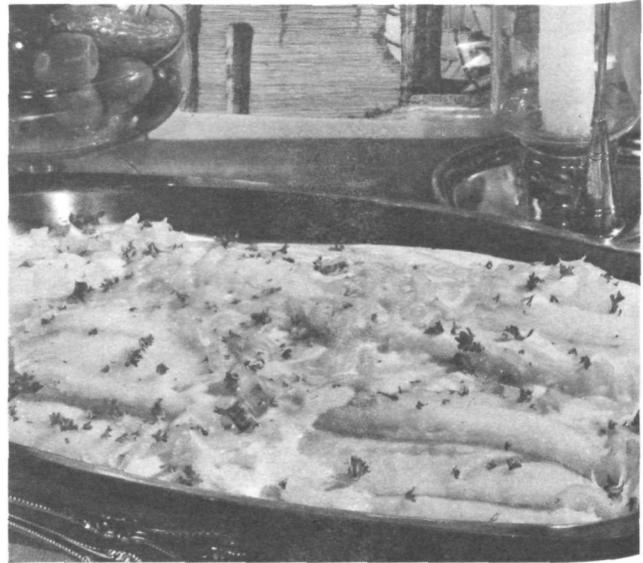
Peirce Yacht Rescue Almost Successful

The NOAA Ship Peirce was about 25-30 miles off the North Carolina coast conducting hydrographic surveys when it received a request for assistance from the Coast Guard, which was attempting to tow a damaged Canadian yacht into port. The Peirce, commanded by Commander Ralph J. Land, took over the tow and was able to make better headway in the rough seas which had damaged the yacht than the smaller Coast Guard vessel. The Peirce towed the yacht about six miles in eight to twelve-foot seas, but the 54-foot vessel sank in 75 feet of water about 20 miles from shore. The passengers had previously been removed by the Coast Guard.

Albert E. Noble Dies

Albert E. Noble, Weather Service Specialist at the National Weather Service Office in Huntington, W. Va., since 1972, died in Amarillo, Tex., on November 6. He had had a total of 24 years' Federal Service. He is survived by three daughters.

recipe of the week



COD AU GRATIN MARITIME

- 2 pounds cod or other firm fish fillets, fresh or frozen
- 2 teaspoons salt
- 1/4 cup margarine or cooking oil
- 1/2 cup chopped onion
- 1/4 cup flour
- 2 cups milk
- 1 whole clove
- 1/2 cup shredded Cheddar cheese
- Chopped parsley (optional)

Thaw frozen fish. Arrange fish fillets in shallow 2-quart casserole. Sprinkle 1 teaspoon salt over fish. Heat margarine or cooking oil in saucepan, add onion and cook until tender. Stir in flour and remaining 1 teaspoon salt. Add milk and whole clove; cook stirring constantly until thickened. Pour over fish. Sprinkle with cheese. Bake in moderate oven, 350° F., for 20 to 25 minutes or until fish flakes easily when tested with a fork. Sprinkle with chopped parsley just before serving, if desired. Makes 6 servings.

Items to be considered for publication in NOAA WEEK should be submitted to:
Office of Public Affairs, NOAA, Room 221, Bldg. 5, Rockville, Md. 20852. Phone (301) 496-8243.

National Oceanic and Atmospheric Administration

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