



noaa week

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National Oceanic and Atmospheric Administration
National Climatic Center

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Coastal Zone Grant Awarded To Maine

NOAA has awarded a second grant, totaling \$328,870, to help Maine continue development of a program for managing its coastal zone. Under terms of the Coastal Zone Management Act of 1972, Maine will provide an additional \$164,435 in state matching funds.

The first grant from NOAA totaled \$230,000 and was made in March 1974.

The management program Maine is developing will attempt to reconcile increasing and conflicting uses of the shoreline for oil refineries, airports, beaches and beach homes, highways, harbors, power plants, wildlife refuges, and commercial service establishments.

Governor James B. Longley has designated the State Planning Office to administer the grant, according to a proposal submitted to the Office of Coastal Zone Management. The State Planning Office will allocate a portion of the grant to several other state agencies for assistance in carrying out the second-year work program.

Some of the second-year activities will include mapping soils, islands, and natural resources; inventorying marine habitats and lakes in the coastal zone; analyzing offshore policies; designing an administrative program; and polling public opinion on the effect of the program through a series of public hearings and informal meetings.

Tides, Currents in Chesapeake Surveyed

A survey of tides and tidal currents in the lower Chesapeake Bay is being made with an unmanned buoy system whose data will be processed through an integrated computer system aboard a mother ship.

The survey is being conducted by the NOAA Ship Ferrel, a unique 133-foot, 363-ton vessel designed specifically to measure tides and tidal currents in bays and estuaries. Cdr. Phillip C. Johnson is her Commanding Officer.

Tidal currents are being ob-

Bluefin Tuna Regulations Proposed



The NOAA Ship Townsend Cromwell. See story on her reactivation on page 2.

The Department of Commerce has proposed listing the Atlantic bluefin tuna as a "threatened" species under the Endangered Species Act of 1973. Such declaration will provide the necessary authority to manage the species, as described in Section 4 of the Act.

The status of the Atlantic bluefin tuna is being studied by the National Marine Fisheries Service.

Present scientific information is inadequate to make a positive determination on the status of stocks; however, data indicate there are substantially fewer spawning Atlantic bluefin tuna now than in previous years.

A management program to regulate the harvest is necessary until ongoing scientific studies supply information needed to determine a sustainable harvest level.

Regulations also are being proposed for a management program. These regulations, which will establish catch quotas for several types of fishing methods during the 1975 fishing season and outline recording and reporting requirements necessary to conserve and manage Atlantic bluefin tuna, were published in the Federal Register on April 2.

Copies of the proposed regulations and a draft Environmental Impact Statement are available from Director, Northeast Region, NMFS, Federal Bldg., 14 Elm St., Gloucester, Mass. 01930, or Director, Southeast Fisheries Center, NMFS, 75 Virginia Beach Drive, Miami, Fla. 33149.

Written comments, views or objections to the proposed regulations will be accepted by the Director, NMFS, NOAA, Washington, D.C. 20235, until May 28, 1975.

Reduction of Fish Waste Is Aim of Sea Grant Project

For every pound of shrimp that a Gulf Coast shrimp fisherman catches in his trawl, he throws back about three to four pounds of usable but unwanted fish that have been caught unintentionally, Sea Grant scientists at Texas A&M University have found.

According to Vito J. Blomo and John P. Nichols, leaders of an investigation supported by NOAA's Sea Grant Program, the so-called incidental catch comprises a variety of species ranging from porgies, which could have ended up on someone's dinner table, to menhaden, which could have

been processed into fish meal and fed to chickens.

The researchers calculated that shrimp fishermen discard between 52 and 368 million pounds of fish per year in the Western Gulf alone—an area that yields about 45 percent of the approximately 220 million pounds of shrimp landed annually in the Gulf of Mexico.

Seeking ways to prevent continued waste of such large amounts of valuable protein, the scientists evaluated the possible markets for the discarded trawl fish and estimated the potential volumes that could be marketed. They concluded that the majority of the discarded trawl fish could be used only for proc-

(Continued on page 4)

Sunshine in U.S. Decreases

There's a little less sunshine in your life, according to a 23-year study by Environmental Research Laboratories meteorologists Dr. James K. Angell and Julius Korshover. They report that in the contiguous 48 states between 1950 and 1972, there was an eight percent decrease in the percentage of possible sunshine received at the earth's surface during autumn, and a three percent increase during spring.

"The pronounced long-term downward trend in percentage of possible sunshine during autumn, with its implication of an upward trend in the reflected solar energy, represents an interesting climatological phenomenon with impact on a local and perhaps hemispheric scale," says Dr. Angell, of ERL's Air Resources Laboratories in Silver Spring, Md.

(Continued on page 3)

calendar of events

May 6-8
Southern California
Topical Conference on Quantitative Magnetospheric Models, sponsored by the American Geophysical Union.
(Cynthia Beadling, AGU, 1909 K St., N.W., Washington, D.C. 20006. 202-331-0370.)

May 6-9
Las Vegas, Nev.
First Conference on Regional and Mesoscale Modeling, Analysis, and Prediction of the American Meteorological Society. (Dr. Darryl Randerson, Program Chairman, Environmental Research Laboratories' Air Resources Laboratory, P.O. Box 14985, Las Vegas, Nev. 89114. 702-734-3234 or 3513.)

May 12-16
Columbus, Ohio
First International Symposium on Acid Precipitation and the Forest Ecosystem. Sponsored by U.S. Forest Service and Program, Ohio State University. (Dr. Leon S. Dochinger, U.S. Forest Service Laboratories, P.O. Box 365, Delaware, Ohio 43015.)

May 14-16
Beverly Hills, Calif.
"Computer Graphics, Pattern Recognition, and Data Structure" conference offered by UCLA Extension in cooperation with the IEEE Computer Society and the Association for Computing Machinery. (Department of Continuing Education in Engineering and Mathematics, University Extension, UCLA, Los Angeles, Calif. 90024. 213-825-1295 or 3344.)

May 20-23
Albany, N.Y.
18th Conference on Great Lakes Research/Annual Meeting, International Association of Great Lakes Research. Sponsored by New York Sea Grant Institute and State University of New York at Albany. Papers related to the physical, chemical, biological, engineering and socio-economic problems of the Great Lakes will be presented. (Ms. Marian N. Steinberg, Conference Coordinator, New York Sea Grant Institute, State University of New York, 99 Washington Avenue, Albany, N.Y. 12210. 518-474-5787.)

May 27-30
Asilomar, Calif.
Third National Coastal Zone Management Conference, "Coastal Zone Management From Planning to Practice." Sponsored by the Office of Coastal Zone Management. (Michele Tetley, OCZM, 3rd Floor, Page Building, Washington, D.C. 20235. 202-634-4255.)

June 16-20
Washington, D.C.
56th Annual Meeting of American Geophysical Union. (Cynthia Beadling; AGU, 1909 K St., N.W., Washington, D.C. 20006. 202-331-0370.)

June 26-28
Davis, Calif.
National Symposium on Precipitation Analysis for Hydrologic Modeling, Sponsored by Precipitation Committee of the AGU Section of Hydrology. (Dr. Eugene L. Peck, Chairman, AGU Committee on Precipitation, Hydrologic Research Laboratory (W23),

NOAA, National Weather Service, Silver Spring, Md. 20910. 301-427-7619.)

September 10-12
Seattle, Wash.
The Third Biennial Workshop on Fisheries Research: Petroleum Hydrocarbons in the Marine Environment. Sponsored by NOAA, Marine Fisheries Service, Environmental Conservation Division (EC), Seattle. Papers are invited on physiology and toxicology; transport mechanisms within the food web; analytical techniques; and distribution of hydrocarbons in the marine environment. Attendance will be limited to about 75 participants, and papers will be by committee selection. Proposed abstracts and preliminary registration due by April 20: (Dr. William T. Roubal, Chairman, NMFS, NOAA, NWFC, EC Division, 2725 Montlake Blvd. E., Seattle, Wash., 98112. (206) 442-7737.)

September 14-19
Las Vegas, Nev.
The Third Joint Conference on Sensing of Environmental Pollutants originally scheduled for November 10-13 and the International Symposium on Environmental Monitoring originally scheduled for September 14-19 have been combined into the International Conference on Environmental Sensing and Assessment to take place in Las Vegas, Nevada. Co-sponsors include the World Health Organization (WHO), Institute of Electrical and Electronic Engineers (IEEE), American Chemical Society, American Institute of Aeronautics and Astronautics, American Meteorological Society, Environmental Protection Agency, Instrument Society of America, National Aeronautics and Space Administration, NOAA, and the Department of Transportation. Technical sessions will be structured by air, land, water, biology, and exposure monitoring; discussions will focus on critical interdisciplinary problem areas such as climate change, energy, health and sources and pathways of marine pollution. (Dr. C. E. Jensen, EM, NOAA, Room 825, WSC-5, Rockville, Md. 20852. 301-496-8646.)

October 6-9
Galveston, Tex.
Third International Biennial Meeting of Estuarine Research Federation. (Prof. Jerome Williams, Environmental Sciences Dept., U.S. Naval Academy, Stop 8c, Annapolis, Md. 21402. 301-267-3561.)

June 7-18, 1976
Boulder, Colo.
International Symposium on Solar-Terrestrial Physics. Sponsored by American Geophysical Union, Committee on Space Research, International Union of Geodesy and Geophysics/International Association of Geomagnetism and Aeronomy, and the Special Committee on Solar Terrestrial Physics, and Co-Hosted by the University of Colorado, University of Denver, National Center for Atmospheric Research and NOAA. Preliminary registration deadline is June 1, 1975. (Dr. Donald J. Williams, Director, Space Environment Laboratory, NOAA, Environmental Research Laboratories, Boulder, Colo. 80302. Commercial-303-499-1000, Ext. 3311, or FTS-303-499-3311.)

Whiting Makes 4,000-Meter Cast

The NOAA Ship Whiting, now engaged in nautical charting surveys in Puerto Rican and Virgin Islands waters, made the deepest oceanographic cast in her history in the southeastern approach to Mona Pass on Puerto Rico's southern coast. The cast was a 4000-meter (more than two miles deep) Nansen observation to obtain sea water temperature and salinity data. The Whiting, under command of Cdr. Robert A. Trauschke, completed a

3081-square-nautical-mile area in a heavily traveled shipping lane, a major artery in the flow of petroleum products from the Caribbean area to the U.S. and Europe.



A NOAA UNIT CITATION was presented to the National Weather Service Meteorological Observatory at Old Hickory, Tenn., for its accurate radar interpretations during the disastrous tornado outbreak on April 3-4, 1974. Shown here (from left) are Glenn Stallard, Meteorologist in Charge of the Weather Service Forecast Office in Memphis, Tenn., who presented the award; Claude D. Prost; Jack L. Brown; George E. Hardy; Supervising Meteorologist Joseph N. Haynes; James E. White; Charles E. Spurlock; James C. Hughes; and Thomas W. Watson, Jr. Not present for the ceremony were Jack Steagall; Paul J. Wade; Robert L. Boyd, Jr.; and Jack K. Brown.

Thrifty Mail Habits

The volume of misused over-size envelopes in the outgoing mail continues to remain unnecessarily high. Large size envelopes should not be used for mailing small quantities of material that can be folded and placed in small envelopes. Improper use of the larger sizes of envelopes can increase the cost of postage for an item from 10 cents to as much as 90 cents.

noaa week

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

Catherine S. Cawley, Editor
Anna V. Felter, Art Director

Preparedness Meetings Held In Ohio Cities

More than 300 people attended the recent meetings held with news media representatives and community leaders in Cincinnati, Dayton, Columbus, and Cleveland, Ohio, as part of the National Weather Service 1975 community preparedness effort. The purposes of the meetings were to inform the media regarding the tornado threat, explain the NWS watch/warning system, and solicit assistance in educating the public to the threat and on how to respond to the watches and warnings.

The principal speaker was Allen Pearson, Director of the National Severe Storms Forecast Center, and Meteorologists in Charge of the offices involved provided information on warning procedures and communications methods used in their areas of responsibility. Herbert Lieb, Chief of the Community Preparedness Staff, represented NWS Headquarters, and John Mayer, Executive Officer and Regional Community Preparedness Focal Point, represented Eastern Region Headquarters.

In Columbus, Mayor Tom Moody declared a Tornado Preparedness Month at a special conference in his office, and the facilities at the State Emergency Operating Center where the meeting was held included videotape cameras. The program was repeated on television the following day for a meeting of Ohio County Disaster Preparedness Directors. At Cincinnati, the Hamilton County Repeater Association, an amateur radio group, gave a special demonstration of its ability to communicate rapidly with all parts of the Cincinnati area. Representatives of Ohio Congressmen attended the meetings in Cincinnati, Dayton and Columbus.

Sunshine Decreases

(Continued from page 1)

Between 1952 and 1964 there was no significant variation in the yearly average value of percentage of possible sunshine, but between 1964 and 1970 there was a 1.3 percent decrease in sunshine, corresponding to a decrease in daily sunshine duration of about 10 minutes in all regions of the contiguous United States.

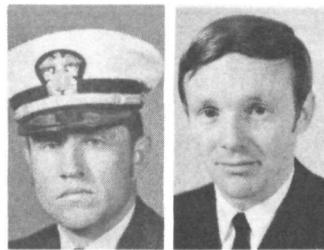
Dr. Angell and Mr. Korshover based their 23-year study on raw data collected from 103 sunshine-recorder stations maintained by NOAA's National Weather Service. The stations are usually located at airports near city outskirts.

Townsend Cromwell Being Reactivated

The NOAA Ship Townsend Cromwell is being reactivated and will leave the National Ocean Survey's Pacific Marine Center in Seattle, Wash., in June to support the activities of the Honolulu Laboratory of the National Marine Fisheries Service. The modern fisheries research vessel was stationed in Honolulu for almost a decade before being deactivated in May 1973.

Lt. Cdr. Merritt N. Walter has been named Commanding Officer of the ship, which carries a complement of 21 officers, scientists and crew. He formerly commanded the NOAA Ships Rude and Heck, and holds a U.S. Merchant Marine master's license.

Lt. Cdr. Abram Y. Bryson, Jr., who will be the ship's Executive Officer, served recently with the Office of Marine Resources at NOAA Headquarters in Rockville, Md., as NOAA Diving Coor-



Lt. Cdr. Walter Lt. Cdr. Bryson

director.

Lt. Ronald J. Smolowitz, who has been named her Operations Officer, has served on the NOAA Ships Rainier and Oceanographer and with the North Atlantic Fisheries Research Center, Woods Hole, Mass.

Junior Officer aboard the ship will be Ensign Constantine E. Mericas, who served recently aboard the Rude and Heck.

Use Your Private Car for Official Trips??

The following should be borne in mind by NOAA employees who use, or who are considering using, their private vehicles for official travel and other Government-related uses:

Department of Commerce Administrative Order 203-17, Sec. 5.03, which has been incorporated into NOAA Directive 22-03.3a pertaining to personal property claims, states it is the Department's established policy not to pay claims for damage to or loss of privately operated employee vehicles except under the most unusual situations.

The authorized mileage reimbursement for use of private vehicles is intended to cover all normal car operating expenses, such as repairs, towing, gas, oil, wear and tear, incurred incidental to governmental use; to be applied toward cost of the employee's insurance to cover any damage to his vehicle from fire, theft, vandalism, and

collision, should another person not be responsible; and to cover such expenses directly if the employee chooses not to insure his vehicle.

Even when no mileage allowance is given, the employee will not be allowed to recover on a personal property claim except under very unusual circumstances.

The NOAA Claims Office, AD 121, suggests that employees consider the possibility of using Government or rental vehicles where available or of maintaining appropriate private automobile insurance if they will be using their own vehicles for official business.

Canadians Briefed on NESS Plans, Programs

A delegation of ten Federal and Provincial representatives from Canada recently conferred with David S. Johnson, Director of the National Environmental Satellite Service, were briefed on NESS plans and operational programs by other NESS officials,

Ocean Data Directory Published

Ocean Data Resources, a directory of marine data management activities in the United States, prepared by the Environmental Data Service's National Oceanographic Data Center, has been published by the United States Senate. A limited number of copies are available to interested NOAA personnel from EDS, Washington, D.C. 20235, or Tel: (202) 634-7306.

The report lists the locations, principal contacts, and facilities concerned with ocean data. While the report initially focused on Federal agency activities, State and regional activities, academic institutions, and industry have also been included to relate Federal ocean data activities to the overall national ocean data effort.

The report addresses itself primarily to data management activities; it does not include organizations involved in the actual acquisition of ocean data through research and survey. Appendices include addresses of referral services and a bibliography of directories of marine science activities.

NODC compiled the report at the request of the Interagency Committee on Marine Science and Engineering (ICMSE) of the Federal Council for Science and Technology. The assistance of ICMSE in identifying holders and users of ocean data was requested by Senator Ernest F. Hollings, Chairman of the National Ocean Policy Study.

and later toured the World Weather Building GOES operational center. The group was led by Joseph MacDowell of the Canada Centre for Remote Sensing and comprised potential satellite data users from various parts of Canada. Of particular concern to the Canadians were the development of operational techniques of snow areal extent mapping and flood-mapping techniques using NOAA-4 Very High Resolution Radiometer (VHRR) data. A Canadian VHRR data acquisition station is currently under construction.

Previously, the group had been briefed on NESS snow extent and flood mapping research efforts by Research Hydrologist D.R. Wiesnet of NESS at a meeting at the Geological Survey National Center in Reston, Va. Members of the U.S. Geological Survey and the NWS Office of Hydrology also attended the NESS briefings and the tour of the World Weather Building facilities.

next week's 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 flounder fillets and gray sea trout along the Northeast Seaboard; fresh shad and sea bass in the Middle Atlantic States, including the D.C. area; whiting and speckled trout in the Southeast and along the Gulf Coast; fresh brook trout and dressed catfish in the Midwest; fresh fillets of cod and red snapper in the Northwest; and fresh ocean perch and butterfish in the Southwest.

Astro Party Surveying In Texas, New Mexico

A three-man National Geodetic Survey astronomical party has begun a three-month survey at 15 sites in Texas and New Mexico. Lt. Patrick L. Welhing, Jr., Vernon H. Burns, and Richard S. Cohen comprise one of two highly specialized NGS survey teams operating throughout the U.S. They measure the longitude and latitude--the distance from Greenwich, England, and from the poles, respectively--by observing the stars with an instrument called the theodolite.

IWY Activities In D.C., Area To Be Launched

NOAA's International Women's Year activities in the Washington, D.C., area will be officially launched at an EEO Awareness Day luncheon-meeting at the Bolling Air Force Base Officers' Club on Friday, April 25, at 11:30 a.m.

Dr. John W. Townsend, Jr., Associate Administrator, and Lena Loman, Chairperson of NOAA's Equal Employment Opportunity Committee, will speak on NOAA's "EEO Awareness" program. R. Adm. Harley D. Nygren, Director of the NOAA Corps, will discuss "Women in the Corps." Guest speaker for the luncheon will be Mary K. Johrde, Head of the National Science Foundation's Office of Oceanographic Facilities and Support, who will speak on "Women in Science." Gwen Perry, soloist, accompanied by Linton Thomas, will provide musical entertainment for the event.

All NOAA employees are invited to attend. The price of the luncheon is \$5.00 with a choice of entree: Poached Filet of Haddock with Shrimp Sauce or Broiled Sirloin Tip Steak. Drinks will be available from the cash bar for \$.95.

For tickets and reservations, employees should contact their respective EEO Committee members. Excused absence (administrative leave) is appropriate for all employees who wish to attend the luncheon and can be spared from their regular duties.

notes about people

Robert E. Hamilton, who has been Principal Assistant at the National Weather Service Forecast Office in Cleveland, Ohio, since 1971, has been named Meteorologist in Charge at the St. Louis, Mo., WSFO.



Mr. Hamilton



Mr. Lee

John P. Lee, who has been Meteorologist in Charge at the Weather Service Forecast Office on Kwajalein in the Marshall Islands since 1967, has been named MIC at the WSFO in Louisville, Ky. He succeeds John R. Burke, who retired recently.

The Food and Agriculture Organization of the United Nations has designated the National Marine Fisheries Service Gulf Coastal Fisheries Center as a recipient research institution of an Andre Mayer Research Fellow. Jorge Fenucci, of the Faculty of Science at the University of Buenos Aires, Argentina, who has done notable research on the



Mr. Fenucci

A RECENT VISITOR TO THE NOAA CHART SALES OFFICE

the Rockville, Md., headquarters of the National Ocean Survey was Fred Weiss, WMA L-TV weatherman, shown here reviewing storm evacuation maps with Thomas B. Jacobs, Assistant Chief of the NOS Physical Science Services Branch.



development and physiology of crabs and shrimp, has been awarded this fellowship.

Mr. Fenucci's research program, which began in early 1975, involves investigations in the field of shrimp nutrition.

David E. Harmon has been selected to head the National Weather Service Office in Abilene, Tex., replacing Jack Schnabel, who has transferred to Jacksonville, Fla. Mr. Harmon, who in the spring and summer of 1972 was in charge of a special mobile unit in Abilene that recorded upper air data essential to the severe local storm forecasting service, has been assigned to Port Arthur, Tex., for the past 2 1/2 years.



Mr. Harmon

Patrick Iannelli, who was last assigned to the Public Service Unit at the National Weather Service Forecast Office in Pittsburgh, Pa., has been named Official in Charge at the Weather Service Office in Parkersburg, W.Va. He succeeded Fred Helgeson, who recently was named OIC at Caribou, Maine.



Mr. Iannelli

Fish Waste Reduction

(Continued from page 1)
...essing into fish meal, fish oil and solubles, and pet food. However, they pointed out that, depending on the particular species, some of the incidental catch could be suitable as more valuable seafood—fresh and frozen fillets, fish sticks and portions, and whole fresh fish. They found that two major obstacles to be overcome if the discards are to be put to profitable use are that neither a working market structure nor economically feasible systems of using the shrimpers' incidental catch exist.

TAMU and the Southeast Utilization Research Center of the National Marine Fisheries Service are drawing up a memorandum of understanding relating to technological research on these species. The joint Sea Grant/NMFS project will initially mince various species of Gulf groundfish and test their frozen shelf life. The problems of rancidity, texture and color of minced fish flesh will be determined and solutions devised for overcoming them. Later research will deal with commingling various combinations of Gulf groundfish.

Continuing their study, the researchers are examining the cost considerations involved using this incidental fish catch in order to determine economic feasibility.

Chart Updating Seminar Held for Coast Guard Auxiliary

Forty-six officers of the U.S. Coast Guard Auxiliary attended a Chart Updating Seminar held recently by the National Ocean Survey's Pacific Marine Center in Seattle, Wash.

Following tours of the Ship Rainier and the PMC, during which the various methods of data acquisition and processing and procedures of updating nautical charts were demonstrated, a slide talk was presented and the NOS/USCGAUX Chart Updating Program was discussed.

Through this program, initiated in 1962, voluntary observers of the Auxiliary provide a valuable service to the NOS by reporting changes to and new information required for the nautical charts and related publications.

According to R. Adm. H.R. Lippold, Jr., PMC Director, the seminar was planned at the request of the Auxiliary, and is expected to yield fruitful results, as has a similar seminar held earlier for U.S. Power Squadrons, upon which this was based.

Cartographic Technician Karol Hoops and Jim Green, Chief of the Verification Branch, (facing the camera), explain verification procedures to USCGAUX officers.



Cartographic Technician Karol Hoops and Jim Green, Chief of the Verification Branch, (facing the camera), explain verification procedures to USCGAUX officers.

Pa. Tax Changes

Employees who are subject to state tax withholdings for the State of Pennsylvania may notice a minor change in their state tax for salary checks dated on or after April 9, 1975.



National Oceanic and Atmospheric Administration

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