



# noaa week

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## NOAA Celebrates Fifth Anniversary October 3

### Facilities Plan Open Houses

NOAA's Fifth Anniversary celebration got off to an early start when open house was held by the National Marine Fisheries Service Northeast Fisheries Center in Woods Hole, Mass. on September 21.

The Soviet Research Vessel Belogorsk joined the NOAA Ship Albatross IV in participating in the open house. Nearly 6,000 persons toured them. The Belogorsk's Commanding Officer, Capt. Lev. S. Berezkin, had arranged for each visitor aboard his ship to be served Russian soup and dark bread. The Center's aquarium, closed earlier this month, was reopened for the occasion. Once termed an "ichthyological gem" in a *New York Times* article, the aquarium has had 3 1/2 million visitors since it opened in 1961, and averages a quarter of a million each summer.

Open house information available at press time shows that joint open houses, with at least two NOAA elements cooperating, will be held in several locations. These include:

-Miami, Fla., where the Environmental Research Laboratories' Atlantic Oceanographic and Meteorological Laboratories, the National Marine Fisheries Service

**NOAA's Gate Movie To Be on Television**  
The NOAA movie, "GATE To World Weather," will be shown on Channel 26, WETA-TV, Washington, D.C., on September 30, from 7:00-7:30 p.m. The movie, which shows in nontechnical terms where and how world weather develops, documents the largest coordinated international scientific experiment ever conducted, GATE. The 1974 Global Atmospheric Research Program Atlantic Tropical Experiment combined meteorological and oceanographic activities by more than 70 cooperating countries, using Dakar, Senegal, as a base of operation.

### Office of Marine Minerals Established; Amor Lane Designated Acting Director

An Office of Marine Minerals has been established in NOAA. In announcing the new office, Secretary of Commerce Rogers C. B. Morton said, "The development of marine mineral resources of the deep ocean and of the continental shelf will become increasingly important to the economic well being of the United States. This must be done in an

environmentally sound manner and in a way that permits U.S. industry to move into this activity in an efficient way. To do this, NOAA is embarking on an expanded program which will bring together the broad capabilities of NOAA."

The new office will report to the Associate Administrator for Marine Resources, and will serve as a focal point for NOAA's new and expanding programs in marine minerals. It will have planning, coordinating and certain operational responsibilities, and will also facilitate liaison



Mr. Lane will also facilitate liaison

### Reservations Available For Awards Luncheon

It's not too late to make reservations to attend the NOAA Awards luncheon at the Bolling Air Force Base Officers' Club on Friday, October 3.

Key persons listed in *NOAA Week* of September 19 will take reservations, including choices of entrees (broiled sirloin tip steak for \$5.00 or poached filet of haddock for \$4.50), through September 30.

The menu includes green beans almandine, parsley new potato, tossed salad, rolls and butter, ice cream, and beverage. The cash-bar cocktail hour will begin at 11:30 a.m., the luncheon at 12:30 p.m.

All NOAA employees and their spouses are invited. Carpooling is encouraged, and parking is available at the Base.

### Acoustic Sounders Used To Track Sewage Sludge in New York Bight

Using an underwater acoustic system originally designed for detecting schools of fish, NOAA scientists this week are studying the feasibility of tracking sewage sludge in the waters off New York and New Jersey.

The research is being concentrated within the New York Bight—a 15,000-square mile area extending from Cape May, N.J., to Montauk Point, N.Y., and seaward to the edge of the continental shelf approximately 100 miles offshore.

Ringed by densely populated communities, the New York Bight receives sewage sludge, the byproduct of waste water treatment, at a rate of about 150 million cubic feet a year in what is America's largest ocean dumping operation. But where this sludge finally ends up, and its environmental effect in the Bight, are unsolved problems. With the aid of ship-mounted acoustic sounders the NOAA oceanographers hope to find some of the answers.

The experiment is being carried out by the Environmental Research Laboratories' Atlantic Oceanographic and Meteorological Laboratories as part of ERL's Marine Ecosystems Analysis New York Bight Project.

"Locating suspended particles in the ocean by the acoustic



Sen. Lowell Weicker of Connecticut (left); and Cong. Bill Alexander of Arkansas (right), receive NOAA Aquanaut patches from Deputy Administrator Howard W. Pollock at luncheon of the American Oceanic Organization in Washington. The three discussed August undersea expedition in Hydro-Lab.

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# notes about people

Dr. Edwin Kessler, Director of the Environmental Research Laboratories' National Severe Storms Laboratory in Norman, Okla., has been appointed Visiting Professor at Massachusetts Institute of Technology's Department of Meteorology for the fall semester.

Dr. Donald J. P. Swift, of the Marine Geology and Geophysics Laboratory (part of the Environmental Research Laboratories' Atlantic Oceanographic and Meteorological Laboratories in Miami, Fla.), has been appointed to the editorial board of *Marine Geology*. The international journal covers all aspects of marine geology.

## Lane To Head Office of Marine Minerals

with other Federal agencies. Amor L. Lane has been designated as Acting Director of the Office.

The major new effort to be launched is the Deep Ocean Mining Environmental Study (DOMES) to be conducted in FY 1976 for which \$3 million was included in NOAA's budget now before the Congress. This study will assess the pre-mining environment of selected manganese nodule mining areas in order to be able to predict the potential environmental consequences of deep ocean mining. Manganese nodules—rich in manganese, nickel, copper, and cobalt—cover large areas of the ocean floor.

In addition, in FY 1976 min-

## Meteorologist For Olympics Being Sought

The U.S. Olympic Yachting Committee is seeking an Olympic team meteorologist. The person selected will be one of six U.S. team officials at the 1976 Olympics in Kingston, Ontario. He will be responsible for assimilating weather data made available by the race committee in Kingston, and will also give the U.S. team daily briefings on all pertinent aspects of local weather conditions.

The team meteorologist will join other team members for duty on July 5 and remain through July 27, 1976. All travel and living expenses for this period will be fully paid.

Applicants should have a professional or highly qualified amateur background in small-area forecasting, and also must be thoroughly familiar with serious small-boat racing campaigns and the effect of all elements of weather on racing success.

Applicants should apply in writing to the U.S. Olympic Yachting Committee, c/o Bill Bentsen, R. 1, The Birches, Lake Geneva, Wis. 53147.

## A SPECIAL ACHIEVEMENT AWARD was presented to Mary J. Breeskin,

Program Analyst in the Office of the Chief, Resources Management Staff, National Weather Service, for her initiative and insight in designing and completing studies and analyses on complex fiscal matters. One resulted in making potentially recoverable over two hundred thousand dollars of obligations incorrectly handled by processors outside the NWS.



Ms. Breeskin

eral resource-related programs will be sponsored by the Office of Sea Grant at a level of approximately \$750,000 (with matching funds included).

NOAA was assigned marine minerals responsibilities through the transfer of the Bureau of Mines' Marine Minerals Technology Center (MMTC) from Interior to NOAA when NOAA was established in 1970. MMTC's functions were transferred in 1973 to the Pacific Marine Environmental Laboratories in Seattle, Wash.

Mr. Lane was head of the Non-Living Resources activities in the Office of the Associate

## NOAA Celebrates Fifth Anniversary

onmental management and changed the organization from a strictly scientific and technical agency into one that now deals with many of the social, political, and economic problems that interface with the scientific problems of the environment. NOAA has also emerged as a source of objective information on the environmental effects of various environmental actions.

Highlights of NOAA's first five years include:

—The launching of NOAA polar-orbiting and SMS-GOES geostationary satellites to provide global coverage of weather and other environmental phenomena;

—The institution of the Marine Resources Monitoring, Assessment, and Prediction (MARMAP) program to keep tabs on the kinds and quantities of living marine resources available to the people of the United States;

—Protection of marine life by banning commercial whaling from United States ports and intensified efforts to protect porpoises;

—The designation of a number of Sea Grant Colleges in recognition of high standards in marine research, education, and advisory services;

—Issuance of life-saving watches and warnings of weather haz-

A DEPARTMENT OF COMMERCE BRONZE MEDAL was presented recently to Oliver J. Wattenbarger (right), Official in Charge of

the National Weather Service Office in Barter Island, Alaska, in recognition of extremely competent performance and unusual initiative displayed on difficult hardship assignments in the Arctic and South Pacific. He has been assigned to the remote outpost station on the north coast of Alaska for the past six years, and also has seen duty in the South Pacific and on several floating ice islands in the Arctic. The Medal was presented by Karl R. Johannessen, NWS Associate Director for Meteorology and Oceanography.



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Administrator for Marine Resources. He will continue to serve as Executive Secretary of the Commerce Marine Petroleum and Minerals Advisory Committee.

Before joining NOAA, Mr. Lane was Director of Planning for Marine Activities for AMF, Inc., Executive Secretary of the Governor of Delaware's Task Force on Marine and Coastal Affairs, staff member of the Stratton Commission on Marine Science, Engineering and Resources, and Chairman of the Executive Committee of the NSIA Ocean Science and Technology Advisory Committee (OSTAC).

## 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 and pollock along the Northeast Seaboard; sea trout and spot in the Middle Atlantic States, including the D.C. area; fresh oysters and mullet in the Southeast and along the Gulf Coast; whiting fillets and pan-ready whitefish in the Midwest; kippered salmon tips and snapper in the Northwest; and snow crab legs and claws and canned tuna in the Southwest.

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Canada International Field Year for the Great Lakes, the Global Atmospheric Research Program-Atlantic Tropical Experiment (the greatest international cooperative undertaking in the history of the atmospheric sciences), the Cooperative Investigation of the Caribbean and Adjacent Regions, and the French-American Mid-Ocean Undersea Study; and

—The operation of the most comprehensive data service in the Nation through centers for climatic, oceanographic, and geophysical and solar-terrestrial data.

## 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  
Warren W. Buck, Jr., Art Director

## Safe Boating Awards Received by NOS and NWS

The National Ocean Survey and the National Weather Service have been awarded Certificates of Appreciation "In recognition of valuable assistance in furthering the aims of National Safe Boating Week proclaimed annually by the President of the United States."

The certificates were presented by Rear Admiral Harley D. Nygren, Director of the NOAA Corps and NOAA member of the National Safe Boating Council, Inc. This is the fourth such award for the NWS and the third for the NOS.

## Ohio Survey Begins

Preliminary field work is underway by a National Geodetic Survey reconnaissance party for a geodetic survey in Portage County, Ohio.

The survey, which will involve determination of 40 to 50 geographic positions (latitude and longitude) and is to be completed next summer, will be made by the NGS under a cooperative program with Portage County in which each will defray half of the cost.

Surveying technicians Jerry C. Layton and Daniel Frazier and County engineers are selecting sites to be surveyed.

## Scientists Seek Ways To Reduce, Use Seafood Processing Wastes

The University of Georgia's program in marine research, education, and advisory services will continue its examination of techniques for reducing and using seafood processing wastes under a \$507,000 Sea Grant which marks the institution's fifth year of NOAA support.

The grant, announced this week by Commerce Secretary Rogers C. B. Morton, will be augmented by more than \$483,000 in matching funds from non-federal sources.

Possible uses of chitosan as a sludge coagulator will be investigated. Preliminary tests of this refined extract from shells of shrimp and other shellfish indicate it can reduce suspended solids in poultry, cheese, meat, and seafood wastes by as much as 95 percent. In addition, the coagulated byproducts of these wastes contain significant amounts of protein and fat which have potential application as animal feed supplements.

Related studies will involve treating wastewater from shellfish processing plants in a system of flow-through tanks containing beneficial microorganisms, examining methods of preserving and storing waste products from the seafood processing industry for subsequent use as a feed ingredient, and analyzing the nutrient quality of various types of shrimp meal being used by poultry farmers.

For the past three years, the University's Marine Advisory Service has been training local and regional shrimp fishermen in the use of a unique twin-trawl system. By using four small nets rather than two large ones, shrimpers have been able to double their catches while actually reducing the fuel and time expended for each tow. This year, the Service will concentrate on helping fishermen who want to convert their vessels to twin-trawling and work on improving the design of a special trawl net—a so-called "jellyball shooter"—that can prevent the troublesome "cabbagehead jellyfish" from being caught in the shrimpers' net.

Also planned are a hydrographic atlas of Georgia's coastal and shelf waters and an index of coastal salt marsh conditions in the region that would allow scientists to anticipate when this delicate and important ecosystem is being threatened.

A continuing project will provide technical information to fish processors on techniques for smoking and packaging of fish species abundant in Georgia, with the aim of prolonging the storage life of processed seafood.

## Iowa and Colorado State Taxes Change

Employees who are subject to state tax withholdings for the States of Iowa and Colorado may notice a minor change in their state tax for salary checks dated on or after Oct. 8, 1975.

## Acoustic Sounders Track Sewage Sludge

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sounding technique has potential application for monitoring many kinds of dredging or dumping operation in the coastal zone and for deep ocean mining activities," says Dr. John R. Proni, an oceanographer with AOML's Ocean Remote Sensing Laboratory in Miami.

Dr. Proni and his colleagues are operating two acoustic sounders aboard NOAA's 180-foot ship Kelez as it follows a sludge-filled New York City barge five miles or more southeast of Ambrose Light near the New Jersey coast.

Following the completion of dumping, the Kelez will crisscross the area, mapping what happens to the dumped material over several hours' time. Some materials will likely remain suspended in the water column while others will either rain out on the bottom or float to the surface. From the picture painted by the acoustic system, Dr. Proni can selectively take samples of these various fractions to determine

## NOS Issues First Metric Nautical Chart

The National Ocean Survey has issued its first metric nautical chart—and the first of five international charts it is to produce as part of a multination program sponsored by the International Hydrographic Organization.

International Chart INT. 501 (National Ocean Survey 501) covers a vast area of the Pacific Ocean off the west coast of the United States and Canada. It was compiled in accordance with IHO specifications and shows elevations and depth in metric units. Loran-A lines of position for electronic navigation are shown in addition to the usual nautical chart information. The scale of the chart is 1:3,500,000.

The IHO program is designed to provide a standard series of charts for the entire world which can be used by all nations. Each member nation is authorized to reprint charts in its own language, but employing the same form of navigational information, such as depth curves, sounding spacing, aids to navigation, and nautical symbols. Nations which have agreed to produce and issue international charts are Canada, West Germany, United Kingdom, France, Brazil, Argentina, Chile, Italy, Netherlands, Japan, India, New Zealand, Australia, and possibly South Africa.

The U.S. Defense Mapping Agency Hydrographic Center and other nations have previously issued metric international nautical charts.

The new chart, priced at \$3.25, may be obtained from the NOS Distribution Division (C44), Riverdale, Md. 20840.

GOVERNOR GEORGE R. ARIYOSHI (right), of Hawaii, and Cdr. Merritt N. Walter, Commanding Officer of the NOAA Ship Townsend Cromwell, joined the Reverend David K. Kaupu as he



blessed the ship during her recommissioning ceremonies in Honolulu. Other participants in the ceremony, preceded by Hawaiian music and dancing, were Capt. Robert E. Williams, Deputy Director of the Pacific Marine Center; Dr. Brian J. Rothschild, Director of the National Marine Fisheries Southwestern Fisheries Center, who was master of ceremonies; Frank K. Goto, representing the local fishing industry; and Howard Pennington, Deputy Hawaii Marine Affairs Coordinator.

The ship, "mothballed" since May 1973 as an economy measure, has returned to her original home port, and is again operating as a research vessel of the SWFC Honolulu Laboratory.

# Open Houses Planned To Mark NOAA's Fifth Anniversary



THE NOAA SHIP RESEARCHER WILL BE DOCKED AT THE WASHINGTON NAVY YARD, 9th and M Streets, S.E., Washington, D.C. Open house will be held for school children on October 3 (9 a.m. to 2 p.m.), and for the general public on October 4 (10 a.m. to 4 p.m.). Officers and crew members will conduct guided tours of the ship and explain its latest oceanographic equipment, and on board there will be environmental science exhibits relating to our Nation's bicentennial. Weather balloons will be launched from the ship, and NOAA films will be shown in a tent adjacent to the pier.

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Southeast Fisheries Center, and the National Weather Service's National Hurricane Center and Port Meteorological Office will hold a three-day joint open house on Virginia Key.

The anticipated audience of 10,000-11,000 persons will be able to view diving exhibits, including a decompression chamber and a mini-sub; aquariums with live tropical fish, turtles, and sportfish; physical oceanography, marine geology and geophysics, data management, chemistry, land satellite and satellite oceanography displays; an automatic rapid sediment analyzer; seismic/sidescan photos of the sea floor; a pitch-roll buoy; laser beam display; display of ERTS and NOAA-3 satellite photos; the remote PDP-11 graphics terminal (a minicomputer used in satellite computations); and the mini-model of the planet ocean display, a tourist attraction on Virginia Key scheduled to open soon. Participating in the open house also will be other area civilians involved in oceanographic ventures.

—Boulder, Colo., where ERL and the Environmental Data Service's National Geophysical and Solar Terrestrial Data Center will hold a "Science Fair." It will feature remote sensing equipment; computers that can answer questions about the Bicentennial and play tic tac toe and blackjack; stratospheric gas samplers; a miniature global monitoring for climatic change setup showing how ozone, carbon dioxide and other gases are measured.

There will also be continuous showing of recent NOAA films, including the GATE film, and 2,500 visitors will go away with

red, white, and blue souvenir NOAA balloons.

—Kansas City, Mo., where the NWS' National Severe Storms Forecast Center and River Forecast Center, and the National Environmental Satellite Service's Satellite Field Services Station will hold a joint open house.

—Honolulu, Hawaii, where WSFO Honolulu and the NESS Satellite Field Service Station will hold a joint open house at Honolulu International Airport.

—Pascagoula, Miss., where the Pascagoula Laboratory of the NMFS Southeast Fisheries Center and the Center's Fisheries Engineering Laboratories at the National Space Technology Laboratories, Bay St. Louis, Miss., plan a joint open house on October 17 and 18.

—Seattle, Wash., where two NMFS elements will have a joint open house at the NMFS Research Center on October 15. The exhibits of the Northwest Fisheries Center will highlight the effects of the environment and environment changes on fishery resources; and the Pacific Utilization Research Center exhibits will promote the expanded use of underutilized species of fish as a food source.

At the Environmental Data Service's National Climatic Center in Asheville, N.C., visitors will be able to see a series of colored slides outlining activities of the center and some of the uses to which its many products are being put and a specially prepared movie showing "Weather in Action" as viewed from weather satellites and radar. They also will have an opportunity to examine a display of selected weather observational instruments, as well as to see some of the Center's equipment carrying



THE WORLD WEATHER BUILDING WILL ALSO HOLD OPEN HOUSE on Saturday, October 4, from 10 a.m. to 4 p.m. The building, which houses the largest weather computing complex in the world, is on Old Auth Road, just off Beltway Exit 36, in Marlow Heights. Visitors will be able to view equipment and procedures which make it possible for photographs of the globe to be taken by NOAA satellites and provided to scientists for such uses as forecasting weather, measuring the roughness of ocean surfaces, and surveying natural and agricultural resources. Also, visitors can watch meteorologists making actual weather forecasts for the weekend, as well as a series of films, slide presentations, exhibits and demonstrations by NOAA personnel.

out the regular tasks of data processing, such as keying data onto magnetic tape; reading data from manuscript charts onto magnetic tape; preparing microfilm copy and displaying graphic images on TV monitors from information contained on magnetic tape.

Other facilities planning open house celebrations are:

(ERL) National Severe Storms Laboratory in Norman, Okla.

(NMFS) Atlantic Estuarine Fisheries Center, Beaufort, N.C.; Southwest Fisheries Center, Tiburon Laboratory, Tiburon, Calif.; and Honolulu Laboratory, Honolulu, Hawaii.

(NWS Eastern Region) WSFO Albany, N.Y.; WSFO Boston, Mass.; WSFO Columbia, S.C.; WSFO Dayton, Ohio; WSFO Erie, Pa.; WSFO Greensboro, N.C.; WSFO Norfolk, Va.; WSFO Portland, Maine; WSFO Richmond, Va.; and WSFO Wilmington, Del.

(NWS Central Region) WSFO Bismarck, N. Dak.; WSFO Fort Wayne, Ind.; WSFO Garden City, Kans.; WSFO Green Bay, Wis.; WSFO Houghton Lake, Mich.; WSFO Huron, S. Dak.; WSFO International Falls, Minn.; WSFO Lander, Wyo.; WSFO Louisville, Ky.; WSFO Madison, Wis.; WSFO Marquette, Mich.; WSFO North Platte, Nebr.; WSFO Omaha, Nebr.; WSFO St. Louis, Mo.; WSFO Scottsbluff, Nebr.; WSFO Sheridan, Wyo.; WSFO Sioux Falls, S. Dak.; WSFO Valentine, Nebr.; WSFO Wichita, Kans.; and WSFO Williston, N. Dak.

(NWS Southern Region) Regional Headquarters in Fort Worth, Tex.; and WSFO Abilene, Tex.; WSFO Albuquerque, N.

Mex.; WSFO Amarillo, Tex.; WSFO Apalachicola, Fla.; WSFO Augusta, Ga.; WSFO Brownsville, Tex.; WSFO Chattanooga, Tenn.; WSFO Fort Smith, Ark.; RFC Fort Worth, Tex.; WSFO Jacksonville, Fla.; WSFO Longview, Tex.; WSFO Lubbock, Tex.; WSFO Macon, Ga.; WSFO Memphis, Tenn.; WSFO Meridian, Miss.; WSFO Midland, Tex.; WSFO Oklahoma City, Okla.; WSFO Port Arthur, Tex.; WSFO San Antonio, Tex.; and WSFO Tampa, Fla.

(NWS Western Region) Regional Headquarters in Salt Lake City, Utah; and WSFO Bakersfield, Calif.; WSFO Boise, Idaho; WSFO Great Falls, Mont.; WSFO Reno, Nev.; WSFO Tucson, Ariz.; WSFO Salt Lake City; and WSFO San Diego, Calif.

(NWS Pacific Region) WSFO Lihue, Kauai, Hawaii, and the Honolulu Observatory (geophysics).

## Bernard Kurs Dies

Bernard Kurs, former Cartographer (Photogrammetry) in the Coastal Mapping Division at the Atlantic Marine Center in Norfolk, Va., died on July 31. He had retired in April after 33 years of service in the National Ocean Survey and its predecessor, Coast & Geodetic Survey. He worked in Washington, in Baltimore, and as Chief of an airport survey party, before moving to Norfolk in 1964.

His widow resides in Virginia Beach.

# **National Oceanic and Atmospheric Administration**

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