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Volume 5 Number 43 October 18, 1974

New Lakes Laboratory Dedicated

NOAA's new Great Lakes Environmental Research Laboratory in Ann Arbor, Mich., was dedicated today. Representative Marvin L. Esch, U.S. Congressman from Ann Arbor, was the principal speaker, and other participants were John K. Tabor, Under Secretary of Commerce; Dr. Wilmot N. Hess, Director of the Environmental Research Laboratories; Dr. Charles G. Overberger, Vice-President for Research of the University of Michigan; and Jack E. McKeever, Executive Director of the Ann Arbor Chamber of Commerce. Dr. Eugene J. Aubert, Director of the new laboratory, discussed some of its objectives and projects.

Formally established April 25, the Great Lakes laboratory is the newest of the Environmental Research Laboratories, headquartered in Boulder, Colo. It brings together researchers from the limnology and computer divisions of the National Ocean Survey's Lake Survey Center in Detroit and NOAA scientists working on the International Field Year for the Great Lakes (IFYGL). The new laboratory's 30 scientists will investigate the total lake ecology—waters, sediments, life forms, climate, and surrounding terrain.

The main task of the Great Lakes laboratory for the first few years will be continued analysis of the data collected during IFYGL in 1972-73. The project is a joint United States-Canada

(Continued on page 7)

U.S., France To Continue Ocean Studies

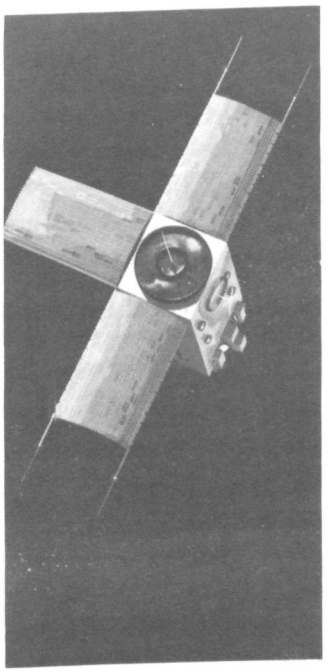
The United States and France have agreed to continue for the coming year cooperative ocean programs begun in 1970, Dr. Robert M. White, NOAA Administrator, has announced.

Plans were revealed by Dr. White on his return from a meeting of the U.S.-French Cooperation in Oceanography at the Brest Center of Oceanology, the major laboratory of France's National Center for the Exploitation of the Oceans (CNEXO).

Dr. White and Yves LaPrairie, Director-General of CNEXO, termed the sessions a major step forward in

(Continued on page 2)

NASA To Launch ITOS Satellite for NOAA



A new environmental satellite for NOAA, ITOS-G, will be launched from Vandenberg Air Force Base, Calif., about October 29 by the National Aeronautics and Space Administration.

The satellite will be designated NOAA-4 after it successfully enters its 795-nautical-mile (1460-kilometer) orbit in which it will cross the Equator at 8:40 a.m. local time southbound.

The launch of ITOS-G will maintain an operational satellite system that for more than eight years has provided regular global observations of cloud systems and other environmental features for the forecast and warning services of the United States and other nations.

Radiometers on board the spacecraft will provide visible and infrared images of cloud cover, snow and ice, and the sea surface, and gather information on temperatures and moisture in the atmosphere. Another sensor will provide data on the solar proton count and distribution in polar regions.

The new spacecraft will transmit local-area atmospheric radiance data—from which temperature sounding can be calculated—directly to ground stations. Norway and France have stations to receive and process these atmospheric data for use in weather forecasting and several other foreign countries plan to acquire such equipment.

Images of global weather, and soundings of atmospheric temperature and moisture, are used to improve the accuracy of

(Continued on page 2)

Automatic Flash Flood Warning System At Heppner Is First in Western States

Heppner, Oreg., long plagued with flash flood problems, became the first community west of the Rocky Mountains to receive two automatic alarm systems as part of the National Weather Service's Flash Flood Alarm program.

Heppner, county seat of Morrow County, a community of slightly over 1,400, probably has been the victim of more flash floods than any town in eastern Oregon. Located in the heart of dryland wheat country where annual precipitation ranges between 9 and 14 inches, it has weathered some 17 flash floods since 1883, the most disastrous of which was on June 14, 1903, when Willow Creek rampaged through the town and claimed 247 lives—more than one-fifth of the population.

The most recent Heppner flash flood to make news headlines was in 1971. Fortunately no lives were lost, but more than $200,000 property damage followed in the wake of water and silt which spilled through Shobe Canyon into town on the afternoon of May 25.

In early 1974, the NWS offered to provide two flash flood alarm systems to the community of Heppner and the response was positive. Heppner City officials under the leadership of Mayor Jerry Sweeney, and county government following the lead of Judge Paul W. Jones of the Morrow County

(Continued on page 2)

NOAA Ships Conducting Charting Surveys Along Southern California Coast

NOAA has assigned two ships this fall to conduct nautical charting surveys along the Southern California coast north of Dana Point. These high priority surveys are being conducted by the *Fairweather*, commanded by Commander Charles Burroughs, and the *Rainier*, skippered by Commander K. William Jeffers. This is a continuation of a program which has now been underway for seven years and is designed to update existing charts of the California coast. The survey will continue until mid-November and resume next year.

The ships were assigned to the Southern California coast after completing their season of nautical charting surveys in Alaska. The *Fairweather*, assigned there in May, completed a 10-year survey of the Kamishak area in Lower Cook Inlet. The ship then moved north where she joined her sister ship, the *Rainier*, in the start of a five-year survey of Upper Cook Inlet and the approaches to Anchorage, Alaska's largest seaport.

Prior to the Alaskan survey, the *Fairweather* conducted nautical charting surveys off the northwest coast of Washington.

NOVAC To Meet

James G. Banks, recently Director of Housing Programs for the District, and formerly Executive Director, UPO; Director of the National Capital Housing Authority; and Director of Community Development—HUD, will be the luncheon speaker for the NOVAC Quarterly membership meeting. Mrs. Donna J. Foster, President, announces that the meeting will be held at the Greenbelt American Legion No. 136, Greenbelt Road, Greenbelt, Md., on Thursday, October 31, at 11:30 a.m. A buffet luncheon will be served at a cost of $4.00. Contact the Vice President for your area for reservations or the Luncheon Coordinator, Mrs. Doris Taylor, 436-6990.

ITOS-G Launch Set

(Continued from page 1)

large-scale weather forecasts prepared by the National Weather Service's National Meteorological Center in Suitland, Md. Data transmitted directly from the spacecraft to weather stations throughout the world has provided unprecedented observational coverage to other nations.

U.S. and France To Continue Cooperative Ocean Programs

(Continued from page 1)

international scientific cooperation.

In a joint statement, the oceanic leaders described as a highlight of the year the French-American Mid-Ocean Undersea Study (Project FAMOUS), whose field phase was recently completed.

In Project FAMOUS, after three years of planning and preparation, some 50 manned investigations to depths of 3000 meters in the Mid-Atlantic Ridge southwest of the Azores were conducted by the U.S. submersible *Alvin* and France's *Cyana* and *Archimede*. The dives provided, for the first time, direct observations by man advancing the concepts of continental drift and the scientific theories of plate tectonics. The scientific data acquired will be analyzed, and a bilingual report prepared.

New exchange activities have been initiated in marine pollution investigation. The nations will examine techniques for controlling oil discharges from ships.

Another joint effort will study remote surveillance systems for response and enforcement against ships discharging oil, as prohibited by national and international conventions. Working with CNEXO to develop technical symposia and demonstrations in airborne surveillance systems will be the U.S. Coast Guard.

A new area of cooperation initiated at Brest provides for research in coastal processes. Industrial development along the coasts has accelerated greatly in recent years, and the U.S.-French research will be designed to help assure environmentally acceptable patterns of development.

Other significant continuing efforts concern the development of buoys and associated sensors for monitoring the ocean environment, aquaculture, instrumentation standardization and comparability, and such vital aspects of man-in-the-sea as diving safety and physiology.

Dr. White and M. La Prairie also agreed to examine possibilities for cooperation in additional plate tectonics studies involving further use of submersibles and methods of converting wind and temperature differences, currents and tides to useful energy.

Flash Flood Warning System Installed at Heppner

(Continued from page 1)

Court, quickly endorsed the concept of the automatic warning systems. The third segment of local government to join the team and the one which permitted the installation to become a reality was the Heppner Water Control District, chaired by Dick Wilkinson, local cattle rancher.

The Heppner Flash Flood Warning System has three main elements, linked together by electrical circuitry: (1) Automatic water level sensors in Shobe Canyon and Balm Fork, (2) the community alarm station located in Pioneer Memorial Hospital which monitors the entire system, and (3) the flood warning siren system activated at Heppner City Hall.

The Heppner flood warning sirens and documentation of flood warning plan had been provided and coordinated by the Defense Civil Preparedness Agency working with and through the Oregon Office of Emergency Services. This made integration of the Flash Flood Alarm System an easy task.

Speakers at the Heppner Flash Flood Alarm System Dedication were (from left) Mayor Sweeney; Vail P. Schermerhorn, Hydrologist in Charge of the River Forecast Center at Portland, Oreg.; James D. Wakefield, Meteorologist in Charge at the Weather Service Forecast Office in Portland; William Hanzen, Director, Region 8, Defense Civil Preparedness Agency; Mr. Wilkinson; and Judge Jones.

noaa week

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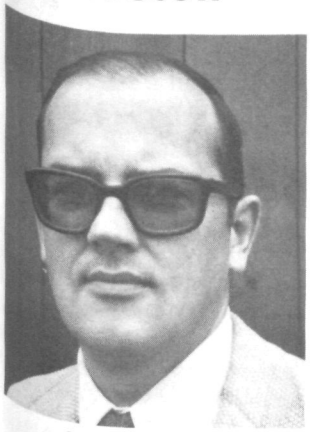
Catherine S. Cawley, Editor

Anna V. Felter, Art Director

Miller Is MIC At WSFO Charleston



Marvin E. Miller

Marvin E. Miller, who has been Meteorologist in Charge at Wilmington, N.C., for two years, has been named MIC at the Charleston, W.Va., National Weather Service Forecast Office. He succeeds John McClain, who recently became MIC at Raleigh, N.C.

Mr. Miller joined the NWS in 1960 as a Briefer-Observer in Indianapolis, Ind., and transferred to Cincinnati, Ohio, in 1961 as Forecaster in the former Weather Bureau Air Resources Laboratory. He subsequently became Chief Forecaster in the National Air Pollution Potential Forecast Program at the Laboratory. He was the Climatologist for Ohio at Columbus from 1966 until 1971, when he was assigned MIC at the Columbus Weather Service Office.

Prior to entering the Weather Service, he served as a Weather Officer in the U.S. Air Force with tours of duty in the Azores Islands in the North Atlantic and Sacramento, Calif., as a Weather Reconnaissance Meteorologist with the Pacific Typhoon Hunters from 1956 to 1960.

He graduated from Bowling Green (Ky.) State University with a baccalaureate in education, received his undergraduate training in meteorology at Texas A&M, and completed his Master's Degree at the University of Michigan.

Churgin Heads NODC Division And WDC-A

James Churgin

James Churgin has been named by the Environmental Data Service as Director of World Data Center A (WDC-A) Oceanography and Director of the National Oceanographic Data Center's Data Services Division.

WDC-A Oceanography, collocated with NODC, is part of an international World Data Center system originally established under auspices of the International Council of Scientific Unions to handle the management and exchange of data taken during the International Geophysical Year (1957-58). The system has been continued by international agreement.

Mr. Churgin was instrumental in moving WDC-A Oceanography, from Texas A&M University to Washington, D.C., in the early 1960's. More recently, he participated in the International Decade of Ocean Exploration Mid-Ocean Dynamics Experiment and is currently involved in planning the joint U.S.-U.S.S.R. POLYMODE Experiment.

Mr. Churgin has authored several NODC publications including the first "User's Guide to NODC Processing Systems" and "Temperature, Salinity, Oxygen, and Phosphate Distribution off the Coastal U.S."

He holds a bachelor degree from the City College of New York and a master's from West Virginia University.

New Chart Issued For Fort Lauderdale

A new edition of a nautical chart covering the approaches to Fort Lauderdale, Fla., and its harbor area has been published by the National Ocean Survey.

The new edition of nautical chart 11470 (formerly C&GS 546) shows more of the land and water areas around the city than previous editions. It also shows land areas by reproductions of aerial photographs. In previous editions, the land areas were shown only by a buff tint outlined with a black line representing the shoreline.

This is the second chart issued by NOAA with land areas shown in this manner. The first was a chart of Fort Pierce Harbor, Fla., issued in August 1973. Three other charts of Florida east coast harbors (Miami, Canaveral Harbor and West Palm Beach) are planned for issue in the new format during the next two years.

The five charts will test public response to the new land area treatment. Comments should be directed to National Ocean Survey (C32), Rockville, Md. 20852. With the exception of the land areas, all other detail is shown on the charts by standard nautical chart symbolization.

The new chart, priced at $1.75, can be purchased from the National Ocean Survey, Distribution Division (C44), Riverdale, Md., 20840 or from NOS nautical chart agents.

Dr. Baer Directs Unit In EM Office

Dr. Ledolph Baer

Dr. Ledolph Baer has joined NOAA as Director of Oceanographic Services in the Office of the Associate Administrator for Environmental Monitoring and Prediction. For the past 15 years he has been with the Lockheed Aircraft Corporation as a Senior Staff Scientist and Manager of Ocean Sciences.

He received his B.S. in chemistry from Louisiana Polytechnic Institute, his M.S. in meteorology from Texas A&M University, and his Ph.D. in oceanography from New York University. He was a U.S. Air Force weather forecaster before attending Texas A&M.

Dr. Baer has published many articles and reports on a wide range of subjects including storm surges, numerical forecasting of wind waves, data buoy systems, thermal pollution in the ocean, and the oceanic variability as it affects monitoring.

Composite Check System To Be Explained

Future issues of NOAA Week will carry information from the Finance Division's Personal Services Accounting Branch (formerly the Payroll and Labor Cost Branch) on participation in one of the Federal Government's economy programs.

The articles will explain the operation and advantages of the "Composite Check" system, which is presently available to all NOAA employees. This system of delivery of employee pay checks to their banking institutions each pay period not only saves employees' and the Government money and other resources, but also eliminates problems encountered when an employee's pay check is lost, stolen, forged or delayed in transit.

Current Vacancies in NOAA

To insure that NOAA employees are aware of job possibilities throughout the agency, a list of current NOAA-wide vacancies is published below. Employees interested in any of the listed vacancies should contact their servicing personnel office for information on where to apply.

Announcement No.	Position Title	Grade	MLC	Location	Issue Date	Closing Date
224-75	Meteorological Tech.	GS-8	NWS	Dayton, Ohio	10/3/74	10/18/74
228-75	Supv. General Supply Specialist	GS-9	EDS	Asheville, N.C.	10/4/74	10/19/74
608-74	Electronics Tech.	GS-9	ERL	Brooklyn, N.Y.	10/7/74	10/22/74
231-75	Meteorologist	GS-12	NWS	Suitland, Md.	10/9/74	10/24/74
232-75	Meteorologist	GS-13	NWS	Suitland, Md.	10/9/74	10/24/74
233-75	Meteorologist	GS-13	NWS	Suitland, Md.	10/9/74	10/24/74
234-75	Supv. Meteorologist	GS-14	NWS	Suitland, Md.	10/9/74	10/24/74
239-75	Meteorological Tech.	GS-9	NWS	New York, N.Y.	10/9/74	10/24/74
204-75	Meteorologist (amended)	GS-12	NWS	Garden City, N.Y.	10/10/74	10/25/74
240-75	Meteorologist	GS-12	NWS	Kansas City, Mo.	10/10/74	10/25/74
241-75	Meteorological Tech.	GS-11	NWS	Huron, S.Dak.	10/10/74	10/25/74
225-75	Physical Scientist	GS-12	NOS	Rockville, Md.	10/4/74	10/26/74
226-75	Computer Systems Analyst	GS-13	NOS	Rockville, Md.	10/4/74	10/26/74
227-75	General Physical Scientist	GS-13	NOS	Rockville, Md.	10/4/74	10/26/74
229-75	Supv. Meteorologist	GS-15	ERL	St. Louis, Mo.	10/7/74	10/30/74
230-75	Facilities Engineer	GS-12	NWS	Honolulu, Hawaii	10/7/74	10/30/74
243-75	Meteorologist	GS-13	NWS	Kansas City, Mo.	10/16/74	10/31/74
206-75	Admin. Aid	GS-6	ERL	Silver Spring, Md.	10/18/74	11/2/74
244-75	Admin. Assistant	GS-9	ERL	St. Louis, Mo.	10/18/74	11/2/74
246-75	Electronics Tech.	GS-11	NWS	Waycross, Ga.	10/18/74	11/2/74
247-75	Electronics Tech.	GS-11	NWS	Key West, Fla.	10/18/74	11/2/74
249-75	Cartographic Tech.	GS-10	NOS	Norfolk, Va.	10/18/74	11/2/74
250-75	Electronics Tech.	GS-11	NWS	Memphis, Tenn.	10/18/74	11/2/74
248-75	Supv. Technical Publications Editor	GS-15	NMFS	Seattle, Wash.	10/18/74	11/9/74

Official 1974 Bicentennial Medal Available

The American Revolution Bicentennial Administration, in cooperation with the United States Mint, is offering for sale to the general public the third in a series of official Bicentennial medals.

The 1974 medal, issued under authority given by the Congress of the United States, commemorates the 200th anniversary of the meeting of the First Continental Congress at Philadelphia. The medal is available in silver ($15.00) or bronze ($3.50). It may be ordered from the American Revolution Bicentennial Administration, Post Office Box 1976S, San Francisco, California, 94101. All orders must be postmarked on or before October 31, 1974.

Undetected Diabetes Can Be Killer

When were you last tested for diabetes?

Many Americans do not realize what a serious health problem diabetes is. The diabetics that they know are under proper control, gainfully employed, and living active lives. Yet in this country:

—diabetes is the fifth leading cause of death by disease;

—diabetes is the second leading cause of new cases of blindness;

—diabetes is a major cause of heart attacks, kidney failure and gangrene;

—diabetes costs the U.S. economy a conservatively estimated $2 billion a year.

The cost of medical services alone, which includes hospitalization, testing, medication, and equipment as well as research, detection, and rehabilitation is about $1 billion. Potential earnings losses account for the remainder.

The most recent statistics available show that there are close to five million diabetics, known and unknown, in this country. Of these approximately 1.6 million are undiagnosed. This is true because it is possible to have the disease without showing or admitting to the most common symptoms: excessive thirst, frequent urination, constant hunger, loss of weight, itching, tiring easily, change in vision, slow healing of cuts and scratches.

Diabetes is serious but can be controlled by careful diet, regulated exercise, or the use of insulin or other oral drugs.

That's a Personnel Question

In our August 23, 1974, edition, Personnel Perspective asked NOAA employees to submit any questions they had concerning personnel matters. From the first group of employee queries, the following questions were culled:

Q. Will the cost-of-living increases granted to retired Federal employees be rescinded if and when inflation is controlled or do the increases, once granted, become a permanent part of an individual's retirement pension?

A. The cost-of-living increase provision in the present retirement law insures that retired Federal employees' incomes will keep pace with rises in the general cost-of-living in the United States. Whenever the Consumer Price Index (CPI) increases by at least three percent over the CPI for the month used as the base for the most recent cost-of-living increase and stays above three percent for three consecutive months, a cost-of-living increase is triggered. Once an annuity increase has been granted, it becomes a permanent part of the retiree's annuity and will not be taken away or reduced even if inflation is controlled. Controlling inflation would cause the CPI rise to slow down, thus causing future cost-of-living increases to be spaced further apart.

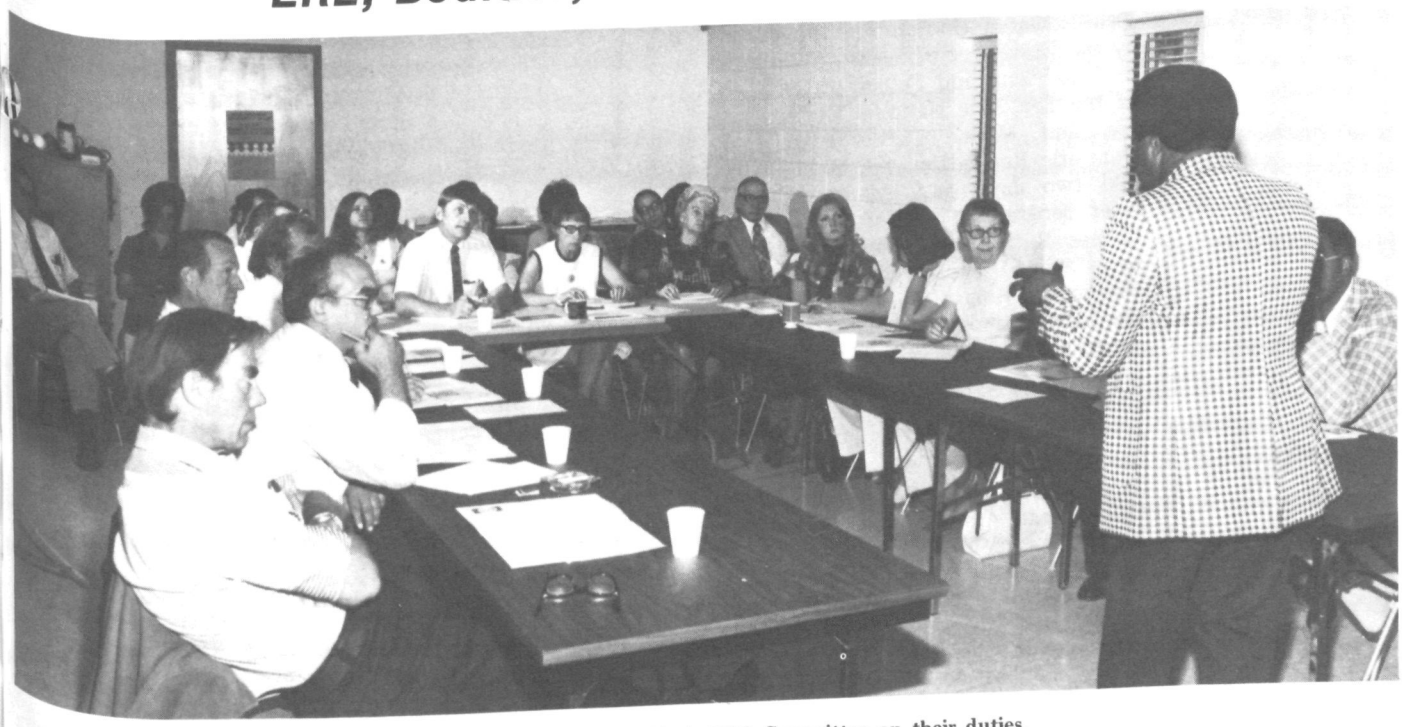
Q. At the time of retirement, an employee's unused sick leave is credited toward total years of service at the rate of 22 days equaling one month of service. Are amounts of 22 days lost or prorated?

A. In computing an employee's annuity, credit for service is given only for full years and full months. However, since an employee's unused sick leave credit is added to his or her total actual service, amounts of less than 22 days may be added together to add another full month to the total service credit. For example:

Actual service:	30 years	8 months	16 days
Sick leave credit:	1 year	2 months	8 days
Total Service:	31 years	10 months	24 days

Total service for computing the employee's annuity would be 31 years and 11 months. The two extra days would be lost.

ERL, Boulder, Elects EEO Committee



Tony Mackel instructs Boulder's EEO Committee on their duties.

On Friday, August 30, 1974, NOAA employees in Boulder, Colorado, elected a new EEO Committee. Elected to two-year terms were: Beverly Gonzales, Martha Lindstrom, Betty Perry, Tom Theotokatos, and Rudy Yoshida. Janice Cavaliere, Bob Doeker, Bob Frost, Betty Riddle and Ola Watford were named for one-year terms.

To provide a broader representation on the Committee, Dr. Wilmot N. Hess, Director of NOAA's Environmental Research Laboratories appointed five additional members to one-year terms: Floyd Copland, Nancy Ford, Carleton Howard, Roger Rhodes, and Art Vigil.

The Committee got off to an early start, with a full day's orientation and training session on Thursday, September 5. Tony Mackel of the Rockville Personnel Office led a discussion of "plans, programs and problems." The EEO Committee advises Dr. Hess and Mr. Alan Shapley, Director of the Environmental Data Service's National Geophysical and Solar Terrestrial Data Center in Boulder, on how to strengthen the NOAA-Boulder EEO Program.

calendar of events

November 4-6
Boston, Mass., area

International Conference on Toxic Dinoflagellate Blooms. Sponsors include Massachusetts Science and Technology Foundation and Massachusetts Institute of Technology Sea Grant Program. Oceanographic conditions, biology, toxin chemistry, pharmacological effects of blooms, including red tide, and food processing, economic significance, and public health management of paralytic shellfish poisoning. (Vin LoCicero, Massachusetts Science and Technology Foundation, Lakeside Office Park, Door 10, Wakefield, Mass. 01880. 617-246-1250)

November 5
Beaufort, N.C.

Public hearing on nomination of the site of the sunken *USS Monitor* (off Cape Hatteras, N.C.) as the Nation's first marine sanctuary. (William J. Brennan, Office of Coastal Zone Management, NOAA, Room 400, Rockwall Building, 11400 Rockville Pike, Rockville, Md. 20852. 301-496-8907.)

November 10-14
Miami Beach, Fla.

27th Gulf and Caribbean Fisheries Institute and 17th International Game Fish Research Conference, sponsored by the University of Miami. Symposia on The Status and Future of the Law of the Sea, The National Ocean Policy, and Marine Conservation and Domestic Regulation, will be held the first two days, and the groups will meet separately the last two days. (James B. Higman, Executive Director, Division of Biology and Living Resources, Rosenstiel School of Marine and Atmospheric Science, University of Miami, 10 Rickenbacker Causeway, Miami, Fla. 33149. 305-350-7533.)

December 9-11
Monterey, Calif.

Review Meeting on Hydrodynamical Numerical Models for Coastal and Open Ocean Areas, sponsored by the Naval Postgraduate School and the American Geophysical Union.
Program will consist of invited and selected short contributions, especially on use of HN Models in the U.S. Abstracts should be submitted to AGU, 1707 L St., N.W., Washington, D.C. 20036.
Registration must be received by AGU by November 22. (Cynthia Beadling, AGU. 202-293-1144.)

February 10-13, 1975
Washington, D.C.

Third Symposium on Meteorological Observations and Instrumentation, sponsored by the American Meteorological Society, with cooperation of the World Meteorological Organization, the American Geophysical Union, NOAA, and the Department of Defense.
Theme: "Observations and Instruments for Mesoscale Phenomena." Papers are being solicited on: requirements for data; upper air sounding systems; mesoscale observing networks; operations; indirect sensing from satellites; remote surface-based sensing; coastal zone observations; "conventional" surface instruments; and automatic observing stations. Papers must be received in final form by November 1 by James Giraytys, Program Chairman, National Weather Service, W141, 8060 13th St., Silver Spring, Md. 20910 (301-427-7767).
An instrument show and exhibit will be held during the Symposium. Prospective exhibitors should contact David George, Exhibit Director, NWS, W142x1, 8060 13th St., Silver Spring, Md. 20910 (301-427-7792).

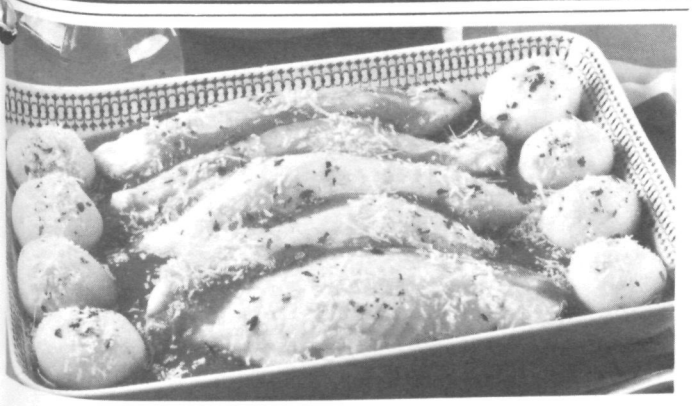
Feb. 14-19, 1975
Washington, D.C.

WMO Technical Conference on Automated Systems. Sponsored by the Commission for Instruments and Methods of Observation, WMO, in conjunction with the American Meteorological Society. Topics will include automatic and semiautomatic weather stations for land, marine, and aerodrome usage; development of high reliability sensor for use with automated systems; operational experience with automated systems; and automated systems used for satellite data acquisition.
Mr. Giraytys (see address in item above), is the contact for this conference.

March 24-25, 1975
Colorado Springs, Colo.

Zmuda Memorial Conference on Geomagnetic Field Models, sponsored by the American Geophysical Union, National Aeronautics and Space Administration, Society of Exploration Geophysicists, and U.S. Geological Survey.
In September 1975 a new revision to the International Geomagnetic Reference Field (IGRF) is planned by the International Association of Geomagnetism and Aeronomy during meetings of International Union of Geodesy and Geophysics to be held in Grenoble, France. This conference is planned to discuss the generation and use of field models and prepare inputs for the IGRF session in Grenoble.
Preliminary information form and abstract title must be received by AGU by December 15, 1974. (Cynthia Beadling, AGU, 1707 L St. N.W., Washington, D.C. 20036. 202-293-1144.)

recipe of the week



PERCH 'N' TATERS BAKE

1 pound ocean perch fillets, fresh or frozen
1/2 teaspoon salt
1 can (8 ounce) tomato sauce
1 can (1 pound) small white potatoes, drained
3 tablespoons grated Parmesan cheese
1 tablespoon chopped parsley
1/2 teaspoon basil
1/4 teaspoon oregano

Thaw frozen fish. Sprinkle with salt. Pour 1/2 of the tomato sauce over bottom of shallow 1-1/2 quart casserole. Arrange fish in center and potatoes at ends of casserole. Pour remaining tomato sauce over fish. Mix cheese, parsley, basil, and oregano together; sprinkle over fish and potatoes. Bake uncovered in hot oven, 400° F., 22 to 25 minutes or until fish flakes easily when tested with a fork and potatoes are serving temperature. Makes 4 servings.

next week's best fish buys

According to the NMFS National Consumer Educational Services Office in Chicago, the best fish buys for the next week or so are likely to be flounder fillets and breaded shrimp along the Northeast Seaboard; fresh whole bluefish and spot in the Middle Atlantic States, including the D.C. area; breaded shrimp and king mackerel in the Southeast and along the Gulf Coast; ocean perch fillets and fish sticks in the Midwest; fresh red snapper fillets and fish sticks in the Northwest; and blackcod fillets and pan-dressed whiting in the Southwest.

NOIC Hosts Annual Meeting Of Technical Facilities Group

The National Ocean Survey's National Oceanographic Instrumentation Center recently hosted, at NOAA's Rockville, Md., headquarters, the annual meeting of the Inter-Service Committee on Technical Facilities. Organized in 1955 to promote the cooperative use of facilities and exchange of scientific information among member agencies, the Committee includes representatives of Federal agencies, educational institutions and private concerns.

This was the Committee's first annual meeting held in the Washington, D.C., area.

Participants were (front row, from left) Paul F. Trapani, NOIC; Thomas F. Jones, Engineering Experiment Station, Georgia Tech; Dr. Blaine Davidson, Florida Atlantic University; Frank J. Johnson, Tennessee Valley Authority; (back row, from left) Niles F. Schuh, Naval Coastal Systems Laboratory; Robert Croft, Naval Coastal Systems Laboratory; Lamar Houston, University of Georgia; Aubrey L. Sullivan, U.S. Army Engineers, Water Ways Experimental Station; William D. Harman, Union Carbide Corporation; and Encel H. Dodge, Auburn (Ala.) University.

Great Lakes Laboratory Is Dedicated

(Continued from page 1)

study of Lake Ontario. Dr. Aubert estimates that IFYGL will occupy two-thirds to three-fourths of the laboratory's efforts until 1977.

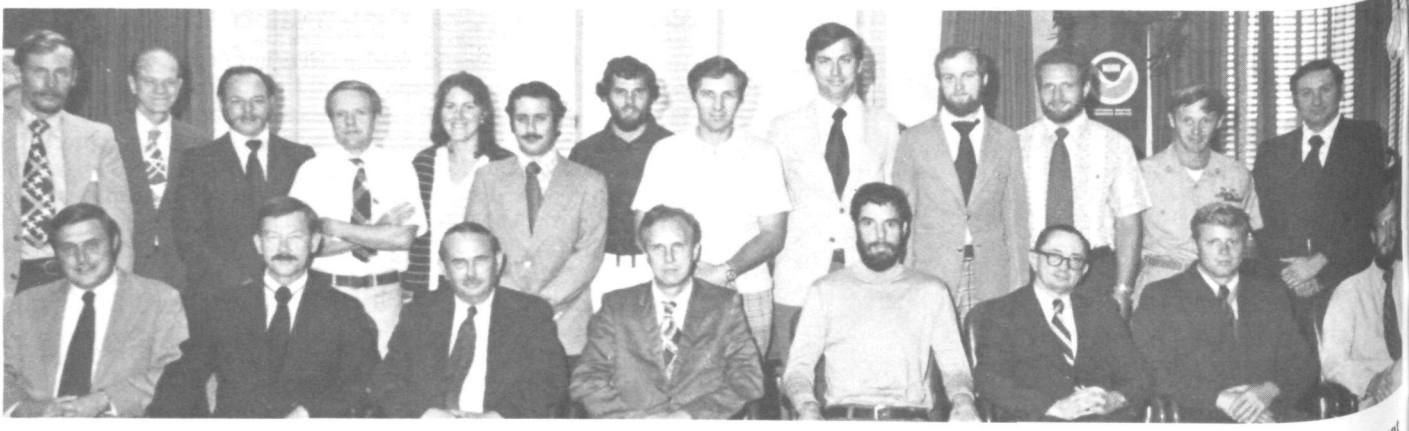
Research at the laboratory will take two directions. Basic research will contribute to the background of general knowledge about the lakes. Other projects are aimed at providing improved environmental information to solve specific problems or meeting specific needs, such as improving navigation or preventing erosion or pollution.

The emphasis will be on interdisciplinary research, says Dr. Aubert. The laboratory will also provide environmental information and advisory services to planners and policy makers in government and private organizations.

Among the main long-range goals of the laboratory will be comprehensive models of lake circulation, lake ecology, lake levels, and flows. Studies will focus on waves and currents, design and siting of power plants, pollution of public beaches, lake climatology, winter ice, lake hydrology, the population dynamics of key organisms, and water quality in the various bays, rivers, and harbors.

The facilities at Ann Arbor will include laboratories for studies of water chemistry, sediment, biology, and ice. A lakeside facility at Monroe, Mich., will provide a starting point for field research. For research on the waters of the lakes, the limnologists will use the 65-foot research vessel, *Shenehon*, operated by the National Ocean Survey.

NOAA Corps Reviews Potential at Operation Foresight Meeting



Attendees at the September 16-18 meeting in Washington, D.C., of Operation Foresight, where NOAA Corps officers reviewed the future potentialities of their organization, were (front row, from left) Commander John D. Bossler, Captain Kelly E. Taggart, Captain Miller J. Tonkel, Rear Admiral Harley D. Nygren, Andrew Gaines, Heyward E. Canney, Lieutenant Commander Charles Y. Molyneaux, Lieutenant Commander Floyd Childress, (back row, from left) Lieutenant Commander Theodore Wyzewski, Dr. Milton G. Johnson, Lieutenant Commander Karl W. Kieninger, Lieutenant Commander Otto F. Steffin, Ensign Mary M. Zoeller, Lieutenant Robert E. Karlin, Lieutenant Richard P. Moore, Commander James Collins, Commander Richard H. Allbritton, Lieutenant William T. Turnbull, Lieutenant Alan J. Pickrell, Lieutenant Abram Y. Bryson, and Commander C. William Hayes.

Symbolizing the NOAA emblem, an osprey swoops down to its nest built upon a NOAA hydrographic station in the Newport River estuary, N.C. The multiple use of this station for both the nesting of ospreys and the collection of water temperature and salinity data has occurred during each of the past three years. The station is maintained as part of the estuarine ecosystem task by the National Marine Fisheries Service Atlantic Estuarine Fisheries Center at Beaufort, N.C.

obituary

Captain Jack Senior

News of the recent death in California of Captain Jack Senior, former Supervisor of the Northwest District of the Coast and Geodetic Survey (predecessor of the National Ocean Survey) in Seattle, Wash., has been received.

He had retired in 1952. He joined the C&GS in 1914 after attending the College of City of New York and Cornell University.

His 17 ship assignments included Alaska, Hawaii, the Philippines, and served on geodetic operations in Alaska and Montana, and for eight years as Chief of the Washington Office Section of Vessels and Equipment.

19th Weather Radar Class Held at NWSTTC

Participants in the 19th Weather Radar Course held at the National Weather Service Training Center in Kansas City, Mo., from August 20 to September 12 were (seated, from left) Norman Putrite, Stephenville, Tex.; William Exley, Honolulu, Hawaii; John O'Brien, Daytona Beach, Fla.; Thomas King, Patuxent River, Md.; Dearl Huff, Kansas City, Mo., Morgan Ballard, Centreville, Ala.; (standing, from left) Joel Wertman, Instructor; David Bolen, Marseilles, Ill.; Raymond Dionne, Binghamton, N.Y.; Frank Dillenkoffer, Instructor; Jo Shelton, Asheville, N.C.; Dickson Coleman, Jr., Millington, Tenn.; and Dennis Davies, Salt Lake City, Utah; Jack Nunan, Midland, Tex.; and Ralph Tice, Instructor.

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National Oceanic and Atmospheric Administration

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