

noaa week

Volume 5 Number 18

April 26, 1974

From The Administrator

Share A Common Bond — 2

Each of us has a personal stake in the well-being of our government. When your personal stake in your government and your personal aims to accumulate savings can both be achieved through the purchase of United States Savings Bonds, you have a good deal. We all "Share a Common Bond" which can be innumerable strengthened if we can:

1. Kindle interest in savings bonds throughout NOAA;
2. Increase participation in the program;
3. Raise the numbers of increased purchases among those who already save;
4. Purchase bonds of larger face value; and
5. Carry on a strong sustaining program by signing up new employees for bonds throughout the year.

Remember, your own personal savings objectives can be met through helping the government meet its goals.

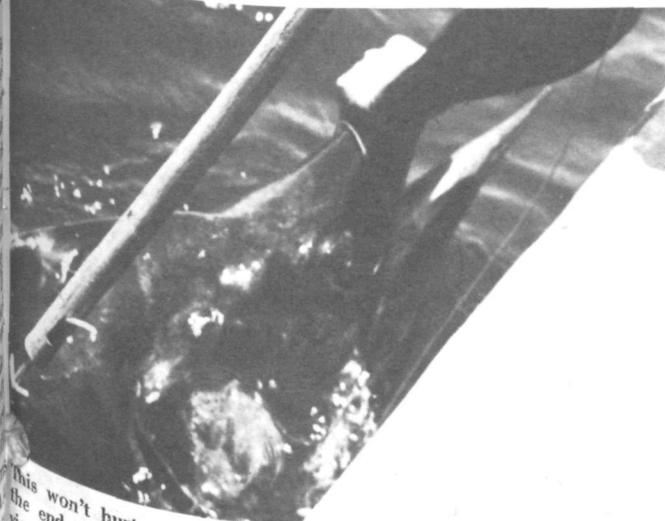
Robert M. White, Administrator

NOAA, Woods Hole Cooperate On Atlantic Tagging Program

Tagging of large Atlantic game fish for scientific study is now the dual responsibility of NOAA and the Woods Hole (Mass.) Oceanographic Institution.

The 20-year-old Cooperagram, pioneered in the Atlantic by the Cape Cod institution, was restructured in 1973 as a cooperative effort

(Continued on page 4)



This won't hurt a bit! A tag at the end of the harpoon-like device is about to be implanted in

the fleshy portion of this billfish's back as part of a scientific study.

Foreign Companies Ask Marine Mammal Permits

Several foreign companies have applied for permits to capture marine mammals from along the U.S. coasts for use in public display facilities, and NOAA is seeking views from the public regarding the applications. To date NOAA's policy has been to issue permits only to persons subject to U.S. jurisdiction, to insure that marine mammals taken from the wild receive proper care and maintenance while in captivity.

The National Marine Fisheries Service has scheduled a public hearing on two of the applications at 10:00 a.m., April 30, 1974, at the penthouse conference room, Page Building 1, 2001 Wisconsin Ave., NW., Washington, D.C.

Approving or denying these applications would set a precedent. Because the applicant's facilities are located outside the jurisdiction of the United States, granting the applications would involve, among other considerations, loss of direct control over the animals.

The applications to be considered at the April 30

(Continued on page 2)

Workshop In Miami Held To Discuss Storm Surge Work

A storm surge workshop, organized by the Environmental Research Laboratories' Sea-Air Interaction Laboratory (SAIL), was held in Miami, Fla., March 19 and 20 in collaboration with the National Weather Service and the University of Florida. SAIL is one of the Miami-based Atlantic Oceanographic and Meteorological Laboratories.

The purpose of the workshop was to review the present status of storm surge research, identify problem areas in need of special attention, and recommend future direction of theoretical research and field experiments.

Among the approximately 26 scientists attending the workshop were representatives from the Corps of Engineers, University of Florida, Texas A & M University, Florida State University, University of Miami, University of St. Thomas, and Exxon and Shell Oil. Other NOAA participants included the National Weather Service's Office of Oceanography, Techniques Development Laboratory, and National Hurricane Center, National Environmental Satellite Service, ERL's National Hurricane Research Laboratory, and AOML's Ocean Remote Sensing Laboratory and Physical Oceanography Laboratory.

LOOK FOR

...coastal zone grants totalling \$1,152,050 described on page 3.

...a tough tryout for the new National Weather Service River Forecast System on page 5.

...a feature on National Ocean Survey surveyors doing just that on page 7.

International Meeting Set On Pollution

Concerned about increasing petroleum pollution of the world's oceans, international experts will meet May 13-17, 1974 in Gaithersburg, Md., for a Marine Pollution Monitoring (Petroleum) Symposium and Workshop. The Conference is sponsored by the Intergovernmental Oceanographic Commission/World Meteorological Organization and three Department of Commerce agencies: the National Bureau of Standards, the National Oceanic and Atmospheric Administration and the Maritime Administration.

Forty three technical papers are scheduled for presentation in topical areas of the Conference covering sampling methods and analytical techniques for oil slicks, tar balls, particulates and oil dissolved in water, sediments and organisms. Standards and intercomparison criteria for petroleum pollution analyses, as well as certain biological effects of petroleum pollution, will be discussed. In addition, several plenary lectures will deal with regulatory, maritime and other considerations of marine petroleum pollution.

Copies of the Program for the Symposium/Workshop can be obtained from the Oceanographic Services Office (EM3) in WSC-5, Room 805.

Marine Mammal Permits *(Continued from page 1)*

hearing are from the Hong Kong Jockey Club, Hong Kong, and a French institution known as La Galoperie, Societe a Responsabilite Limitee au Capital, Anor (Nord), France.

The Hong Kong applicant seeks 10 California sea lions and 10 Pacific harbor seals, while the French concern is requesting a permit for three Atlantic bottlenosed dolphins and two California sea lions.

The permits are required under provisions of the Ma-

Congratulations



Dr. Wilmot N. Hess, Director of the Environmental Research Laboratories, congratulates Ms. Marilyn J. Rivero, who recently completed a year-long administrative trainee program with NOAA and has been assigned to the Career Management Services Office of ERL in Boulder, Colo. Ms. Rivero will be performing employee development duties as well as Equal Employment Opportunity programs handled by her office.

One of the programs—the 16 point Spanish speaking program—involves establishing contacts with minority organizations and recruiting minority students at high school and college campuses throughout the nation. Ms. Rivero will also be part of a recruiting team in the Junior Fellowship Program, which seeks recent high-potential disadvantaged high school graduates interested in scientific careers.

New Jersey Airport Survey Completed

The National Ocean Survey recently conducted a field survey of Monmouth County Airport, Belmar-Farmingdale, N.J., as part of a joint program with the Federal Aviation Administration (FAA) to advance air safety.

The airport survey party was headed by Junior V. Teater.

The survey covered a circular area around the airport and fanshaped ap-

proaches to the runways. Within this area the field party determined and charted the character, elevation, and location of obstructions to air traffic and the position of all aids to air navigation. Runway lengths were precisely measured.

Results of the survey, the first of its kind at Monmouth County Airport, will appear on an Airport Obstruction Chart to be published in five or six months.

Correction

An article on page 8 of the April 12, 1974, issue of NOAA Week mistakenly referred to several meteorologists at the March 4-7 meeting of the American Meteorological Society in St. Louis as members of the National Weather Service. Actually, all of those named in the story—Mssrs. Purdom, Oliver, Gurka, Ferguson, and Ms. Parmenter—are members of the National Environmental Satellite Service.

Samuel Grimm Head of NWS Manpower Utilization



Samuel O. Grimm, Jr. has been selected as Chief of National Weather Service Manpower Utilization. This headquarters group is to a number of people related management for the NWS Director as the field office visiting program, EEO coordination, the awards program, labor relations. Mr. Grimm has been with the NWS since 1942, serving at New York University, Pittsburgh, and New York City. He transferred to the Emergency Warnings Branch at Washington Service Headquarters in 1967 and was named Chief of that Branch in 1967. He served as head of Emergency Warnings Branch until his current reassignment.

noaa week

Published weekly in Rockville, Md., by the Office of Public Affairs, the information of employees of the National Department's Oceanic and Atmospheric Administration.

Articles to be considered for publication should be submitted at least a week in advance to Catherine Cawley, Editor, NOAA Week, Room 221, Office of Public Affairs, National Oceanic and Atmospheric Administration, Rockville, Md., 20850. 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.

On their marks...

NESS Gets Set For GOES

Recently employed meteorologists from the National Environmental Satellite Service's Satellite Field Services Stations (SFSS) at San Francisco, Calif., and Kansas City, Mo., and new meteorologists from the NESS Analysis Branch in Washington attended a concentrated three week course, March 25 through April 12, at the World Weather Building in Marlow Heights, Md., in preparation for the forthcoming launch of the Geostationary Operational Environmental Satellite (GOES).

Twenty-four hour operation will be implemented, after the GOES launch, at the Kansas City SFSS, (managed by Mr. Edward Ferguson) supporting the National Weather Service's Severe Storms Forecast Center and NWS Forecast Offices in the Midwest. The San Francisco SFSS, (managed by Mr. Jack Bottoms) will provide support to NWS Forecast Offices in the Western U.S. The NESS

Analysis Branch, under the supervision of Mr. Lee Mace, provides support to the National Meteorological Center.

During the new employees three weeks at NESS, briefings were received from NESS management and staff members from the Office of Operations and the Meteorological Satellite Laboratory. A concentrated course, including lectures and laboratory exercises, involving the utilization, interpretation and application of satellite information was conducted by Vincent J. Oliver, Chief of the Applications Group, and the Applications Group Staff. Course management was under the direction of Phil Corbell, Staff Meteorologist, Field Services Division.

The establishment of NESS's SFSS's and the GOES Central Data Distribution System at the World Weather Building in Marlow Heights, Md., are under the direction of Mr. John Hussey, Chief, Field Services Division, Office of Operations, NESS.

Coastal Zone Grants Awarded Three States Total \$1,152,050

Grants totalling \$1,152,050 have been awarded California, Michigan, and Mississippi to assist the three states in developing programs to manage their coastal lands and adjoining waters.

The grants are made by NOAA as part of its responsibilities under the Coastal Zone Management Act of 1972, to encourage effective management, beneficial use, protection and development along America's sea coasts and Great Lakes shores.

The grants made available \$720,000 to California, \$330,486 to Michigan, and \$101,564 to Mississippi. Each state is contributing a matching share of the coastal zone management funds, which by law must amount to at least one-third of the total program cost. The first three grants in this program were made March 14 to Rhode Island, Maine, and Oregon.

The NOAA grant to Mississippi will be administered by the Mississippi Marine Resources Council, as designated by Gov. William L. Waller. The Council will coordinate the contributions of seventeen state agencies, offices, and local organizations during the preparation of the management program, which is designed to produce an approvable program in three years.

The California grant will be administered by the California Coastal Zone Conservation Commission (CCZCC), which was designated by Governor Ronald Reagan as the applicant agency. The CCZCC, which comprises one State and six regional commissions, was created by the California Coastal Zone Conservation Act of 1972, and the commission is required to adopt by December 1, 1975, a comprehensive plan for the long-range conservation and use of California's coastal zone resources. While the planning program—which must be submitted to the state legislature—is under way, the

CCZCC has regulated development along the coastline through a permit system. California's one-year work program involves five State departments, two universities, and seven other commissions and councils.

The grant to Michigan will be administered by the State's Department of Natural Resources, as designated by Gov. William G. Milliken. The agency also has responsibility for water resources planning, pollution control, and flood management control. The first "inland" state to be awarded a coastal zone grant, Michigan will use the initial funds in a two-year project to formulate a comprehensive program for the management of the state's Great Lakes shorelands.

LSC Shows Boaters Charting Methods

A Cooperative Charting Open House for members of the U.S. Power Squadrons was held at the Lake Survey Center's offices in Detroit, Mich., April 8. The program was arranged by Mr. C.B. Feldscher, Technical Assistant, Marine Mapping and Charting Division. Rear Commander William T. Casey, Chairman of the Cooperative Charting Committee, U.S.P.S., and three members of that Committee presented a seminar in the morning. Instructions in the use of the sextant in chart correction surveys, as well as demonstration on charting operations, were conducted by LSC personnel in the afternoon. Mr. Herman C. Anderson, Chief, Chart Information Branch, Marine Chart Division, National Ocean Survey, also participated in the program.



Attending a three-week GOES course at the World Weather Building in Maryland March 25 through April 12 were: (front row, from left) From the San Francisco SFSS: Walter Strach, Hiroshi Iguchi, Senator Raygor, Sharon Towry, Lowell Cooke, Robert Larson, Ken Holmes. (Second row, from left) From the Kansas City SFSS: Mike Weinrich, Doug Mathews, Frank Woods, Brian Heckman, Robert Gibbs, Jim Bailey, Sam Beckman and Chief Instructor, Vince Oliver. (Back row, from left) From Miami SFSS: David Cohen, and from the NESS Analysis Branch, Washington: Allen Hess, Earl Hooper, Norman Junker, Richard Borneman, Shoji Takasugi. Attending the course, but absent from the picture was Philip Poole, also from the Analysis Branch, NESS.

Disaster! – But NWS Warnings Kept It From Being Worse

Among the many recent letters of thanks from mid-westerners for the work of Federal agencies and private

organizations during the April 3 tornado outbreak (See NOAA Week, April 12, 1974) was one from Ten-

nessee Senator Howard H. Baker, Jr., which said in part:

“I would especially like to

thank the men and women of the National Weather Service for the very effective job they did in carrying out their responsibilities. In a survey across Tennessee, the Disaster Relief Subcommittee of the Senate Works Committee, I have many fine comments on this work.

“Had it not been for the exemplary performance



Photo by J.B. Elliot, WSFO Birmingham, Ala.



Tennessee Senator Howard H. Baker, Jr., cited National Weather Service efforts during the tornado emergency.

the National Weather Service in providing timely warnings giving accurate information during the disaster, and assisting in relief efforts. We have no doubt that the saving of life and instance of injury could have been much greater.”

NOAA, Woods Hole Cooperate On Atlantic Tagging Program

(Continued from page 1)
to be shared by private scientists at Woods Hole and Federal investigators at the National Marine Fisheries Service Southeast Fisheries Center in Miami, Fla.

Information collected through game-fish tagging programs is important to the study and evaluation of the life cycles of large, wide-ranging species, and eventually is translated into scientific recommendations for the rational management and conservation of a valuable natural resource. Tagging data also are useful to sport and commercial fisheries and to economic planners in coastal regions.

Marlins, sailfish, tunas,

and other highly valued game fish have figured prominently in tagging studies undertaken since the early 1950's by the Cooperative Game Fish Tagging Program, and a significant body of information now exists concerning their biology, ecology, population dynamics, and migratory habits. Thousands of these fish have been tagged and released, and many have been recaptured over two decades of voluntary participation by Atlantic anglers and marine researchers, with the support of sport and scientific organizations.

Recaptured tags, returned to project scientists from fishermen in widely separ-

ated regions, have made possible analyses of the migratory routes followed by many prized and hotly pursued sport and food fish.

Some of the data obtained through tagging programs has gained significance in recent years as nationally renowned conservationists, sportsmen, and scientists have expressed increasing concern over the status of the tuna and billfish populations.

The Cooperative Game Fish Tagging Program will be integrated with the Oceanic Game Fish Investigation program, in operation at the NMFS Southeast Fisheries Center for more than two years. Fisheries scientists in the program collect catch

and fishing statistics from big-game fishing tournaments throughout the Caribbean, North Atlantic, Sea, and Gulf of Mexico.

OBITUARY

Dr. David L. Dubrow, with the National Marine Fisheries Service since 1960, died April 8. Dr. Dubrow was a program leader specializing in nutritional research on fish. He was a native of Brooklyn, N.Y., and was educated at the University of Maryland and the University of Maryland. He is survived by his wife and three children in Silver Spring, Maryland.

ACSM Honors Dr. Shalowitz, C&GS Retiree

Dr. Aaron L. Shalowitz, retired Coast and Geodetic Survey official, has received the Honorary Member Award of the American Congress on Surveying and Mapping (ACSM), a national organization of 7000 surveyors and cartographers.

The 80-year-old scientist received the award for his "monumental contributions in the realm of the law of the sea, particularly seaward boundaries, culminating in the two-volume work *Shore and Sea Boundaries*, which has become a classic in the fields of oceanography, marine cartography and the law of the sea."

Dr. Shalowitz served ACSM from 1943 to 1952 as editor of the Society's Bulletin and, beginning in 1944, as editor of the journal of *Surveying and Mapping*.

Unable because of ill health to accept the award at the Society's recent convention in St. Louis, it was presented to him at his Washington, D.C., home.

Dr. Shalowitz retired in 1964 after 48 years with the Coast and Geodetic Survey, predecessor of NOAA's National Ocean Survey.

'Port Captains' Provide Support For NOAA Ships

Four Port Captains (also known as Shore Support Officers) are providing logistic and administrative support for NOAA ships at Woods Hole, Mass., Pascagoula, Miss., La Jolla (San Diego), Calif., and Sandy Hook, N.J. Staffing these ports are Commander Charles H. Nixon, Sven Svenson, Lloyd Farrar and Lieutenant (junior grade) Theodore C. Kaiser, respectively. Port Captains provide for the needs of fisheries vessels, as support activities on other NOAA vessels are conducted by on-board personnel. The fisheries vessels are generally smaller and crews are limited to direct operations only, so the Port Captains maintain payroll records, handle ship procurements, coordinate planning and operation with National Marine Fisheries Service programs, and assist with program sampling gear maintenance. Some Port Captains sometimes fill in also for ships' officers at sea. Port Captains serve the following ships: *Albatross IV* at Woods Hole; *Oregon II* at Pascagoula; *David Starr Jordan* at La Jolla (San Diego); and *Delaware II* at Sandy Hook.

Record Floods Test New NWS Forecast System

The National Weather Service's River Forecast Center at Slidell, La., got a real workout during the period April 12 through 15, when record floods engulfed much of the State of Mississippi.

According to Hydrologist in Charge C.E. Vicroy, the staff of this key forecasting center for the Lower Mississippi River Basin worked around the clock issuing river forecasts to the weather offices at Jackson, Miss., and Mobile, Ala., for subsequent dissemination to the public.

Charles E. Schauss, program leader for computerized river forecasts at NWS Headquarters said: "This was a good test for our newly developed hydrologic modeling procedure called the National Weather Service River Forecast System. I'm told the NWS received a lot

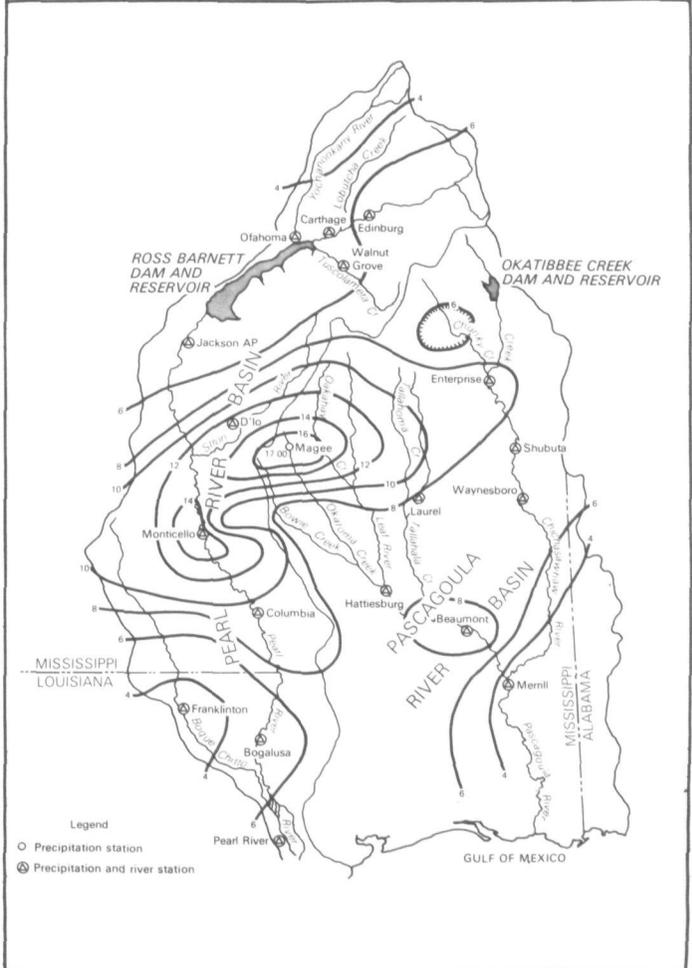
of praise for the accuracy and timeliness of the forecasts generated by this new system."

As the accompanying map shows, 4 to 17 inches of rainfall fell over the Pearl River and Pascagoula River Basins during a three-day period, causing widespread flooding. One station registered 20.76 inches.

Six Mississippi towns reported new, all-time-record river stages—Hattiesburg, Edinburg, Walnut Grove, Montecello, Columbia, and Bogalusa. Three other towns reported near-record stages. Preliminary reports indicated \$60 million in damage with 20,000 people evacuated from their homes. Hattiesburg was hardest hit, with 8,000 evacuees. Columbia, Miss., evacuated 2,000; Laurel, 1,500.



Presentation of ACSM Honorary Member Award to Dr. Aaron L. Shalowitz, retired Coast and Geodetic Survey scientist, at his Washington, D.C., home March 26. From left: Dr. Charles A. Whitten, former Chief Geodist of the National Ocean Survey; Walter S. Dix, ACSM Secretary Emeritus; and Dr. Shalowitz.





ATLANTIC MACKEREL WITH MUSTARD SAUCE

- 4 cleaned Atlantic mackerel (1/2-pound each) or other pan-dressed fish, fresh or frozen
- 6 tablespoons butter or margarine, melted
- 3 tablespoons lemon juice
- 4 teaspoons prepared mustard
- 3/4 teaspoon salt
- 1/2 teaspoon paprika
- Chopped parsley

Thaw frozen fish. Wash and pat dry. Combine butter or margarine, lemon juice, mustard, salt, and paprika; mix well. Brush inside and outside of fish generously with butter mixture. Arrange on greased broiler pan.* Broil 4 to 5 inches from source of heat for 10 to 12 minutes or until fish flakes easily when tested with a fork; turn fish once during broiling. Brush with additional butter mixture after turning. Warm remaining sauce. Sprinkle fish with parsley and serve with sauce. Makes 4 servings.

*If desired, Atlantic Mackerel With Mustard Butter may be baked in a moderate oven, 350° F., for 25 to 30 minutes or until fish flakes easily when tested with a fork. Baste several times during baking.

Next Week's Best Fish Buys

According to the NMFS National Consumer Educational Services Office in Chicago, the best buys for the next week or so are likely to be pollock and Maine sardines along the Northeast Seaboard; shrimp

and King mackerel in the Southeast and along the Gulf Coast; canned tuna and breaded shrimp in the Midwest; whiting and canned tuna in the Northwest; and whiting and blackcod in the Southwest.

NOS Speeds Cook Inlet, Alaska Surveying Operations In 1974

NOAA marine surveys in Cook Inlet will be speeded up this year as a result of increased activities in the waterway leading to Alaska's main port of Anchorage.

Three ships will be assigned to the task in place of the two which have heretofore been surveying the waterway. They are the Seattle-based *McArthur*, *Fairweather* and *Rainier*.

Two types of surveys are being conducted in Cook Inlet by the National Ocean Survey.

A survey of tides and currents began last year and was designed as a five-year program. The progress made by *McArthur* in Lower Cook Inlet was so great, however, that it is anticipated now the program will be completed in four years. The *McArthur* will work this year in the northern portion of Lower Cook Inlet, between Anchor Point and the Forelands. The survey will continue next year in Upper Cook Inlet.

Hydrographic surveys are being made that will result in new large-scale coverage for navigation. The surveys will also be used to update existing nautical chart coverage and to provide a new data base for use in ecolog-

ical, pollution, engineering, fisheries and scientific studies. These surveys, which have been underway since 1965, will be conducted by *Fairweather* and *Rainier* in both Lower and Upper Cook Inlet.

The step-up in marine surveying in Cook Inlet is being made in response to increased demands for charts, tides and hydrographic data.

The need for more intensive and accurate marine data is accentuated by the increase in oil drilling, the use of supertankers to transport the oil, and the present danger of oil spills and their threat to the area's wildlife and ecological balance. The data being gathered will also be used for the prediction of oil movements and any construction of surface and surface structures.

The data gathered in the surveys will be available to government agencies and non-government users rapidly as the information can be prepared for publication and will include current, salinity, temperature and depth data; tide and tidal current predictions; and annual data reports.

New Exhibit For The NMFS



This is a new exhibit to alert consumers to the value of United States Department of Commerce inspected fishery products which will be introduced nationally at the American Council on Consumer Interests Convention April 18-20, 1974, in Cleve-

land, Ohio. The four-piece exhibit consists of three illustrated panels and a slide projection unit that shows various quality levels, including symptoms of poor quality in fishery products.

National Geodetic Survey's 1974 Field Program Under Way

A corps of about 180 geodetic engineers and technicians from NOAA's National Geodetic Survey will conduct land measurements this year in 18 states extending from the mid-Pacific to the Atlantic and from the Canadian border to the Rio Grande.

They are continuing a survey of the country that began in 1817 on Long Island, New York, measuring the length and breadth of the land with incredible accuracy.

The geodetic surveys will be conducted this year in Alaska, California, Connecticut, Delaware, Georgia, Hawaii, Louisiana, Maryland, Michigan, Mississippi, New York, Tennessee, Texas, Utah, Virginia, Washington, Wisconsin and Wyoming. In addition to normal geodetic survey operations, survey teams will fix the location of the U.S.-Mexican and Maryland-Delaware boundaries.

During the past century and a half, these surveyors have measured the latitude, longitude, and height above sea level of approximately 500,000 sites throughout the United States. A bronze plaque marks each site. It denotes the starting point from which accurate mea-

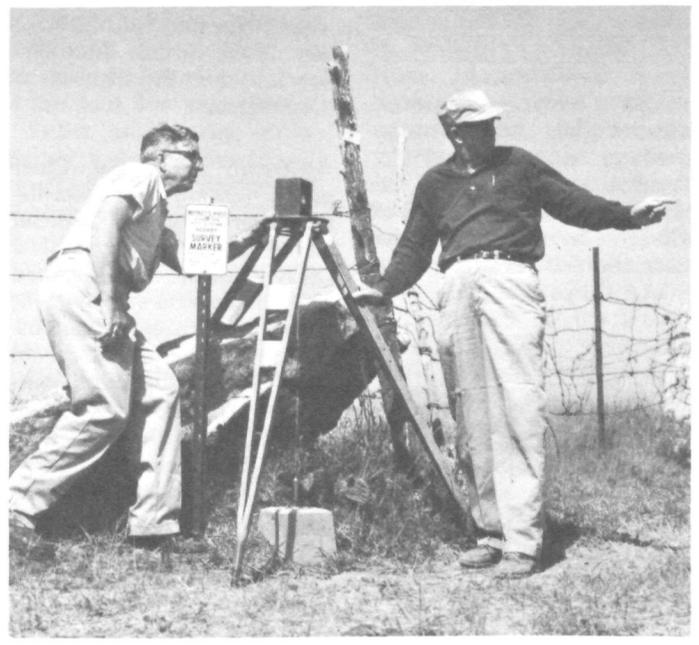
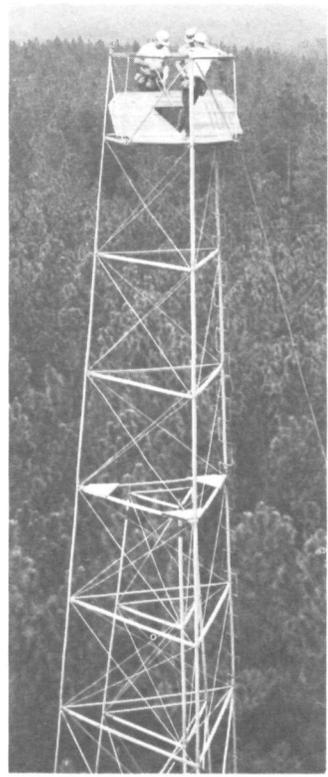
surements can be made. Geodetic survey markers are used by surveyors and engineers to establish the location of land parcels, bridges, dams, highways, and utility plants. Surveys of the constantly shifting earth aid areas on the earth's surface as seismologists map unstable and thus help ensure the

longevity of major structures.

The measurements of distances are so accurate—even the curvature of the earth is taken into consideration—that the surveyors err by only about one-half inch in 10 miles, using laser instruments employing the speed of light to ensure ac-

curacy. Measurements of elevations are similarly accurate.

In addition to the surveying parties, a dozen technicians are entrusted with the maintenance of the existing half-million geodetic markers which dot the country's plains, valleys, and mountains.



David S. Johnson, Director of the National Environmental Satellite Service and current president of the American Meteorological Society lead a delegation to the Peoples Republic of China on April 21 for a two-week visit at the invitation of the Chinese Meteorological Society.

Commander Wesley V. Hull has been elected President of the Executive Committee of the National Association of Commissioned



Officers, an organization composed of members of the NOAA Corps. Others elected to the committee are Captain Robert C. Munson, Captain Sidney C. Miller, Commander Christian Andreasen, Lieutenant William T. Turnbull and Lieutenant (junior grade) Richard P. Moore. Lieutenant Commander Carl W. Fisher and Lieutenant Frederick J. Jones were elected alternates. The committee selected Cdr. Andreasen to serve as secretary and Lt. Turnbull as treasurer. Lt. Moore and Lt. Cdr. Fisher will serve as co-editors of the association's newsletter, the NOAA Corps Bulletin.

Dr. Heinz W. Kasemir, a supervisory physicist, and E.L. Magaziner, a mathematician, both of the Environmental Research Laboratories' Atmospheric Physics and Chemistry Laboratory in Boulder, Colo., recently participated in the Apollo-Soyuz Test Project Lightning review at the Kennedy Space Center. The meeting was held to exchange information on the newest developments in lightning warning and protection. The launch of the cooperative American-Soviet space rendezvous is scheduled for an afternoon in mid-July 1975 when lightning danger to the space vehicle will be very high.

Three NOAA alumni of the Department of Commerce Science and Technology Fellowship Program (COMSCI) are presently serving on the Board of Directors of the newly formed COMSCI Council. They are Alfred W. Anderson, Secretary-elect, from the Office of Congressional and Legislative Affairs; Stacey D. Hicks, Member-at-large, from the National Ocean Survey; and Dr. Alden B. Bestul, Chairman, Program Committee, from the Office of Environmental Monitoring and Prediction. The objectives of the Council include providing means for COMSCI alumni to further their service to the Department of Commerce.

Edward P. Devine, Chief of the Aeronautical Information Branch in the National Ocean Survey's Aeronautical Chart Division, has returned from a one year's assignment to the United Nations. During this period he served as a UN cartographic consultant to the Survey of India in Hyderabad and later as a cartographic specialist at UN headquarters in New York.

Lawrence Niemeyer, on assignment from the Environmental Research Lab-

oratories' Air Resources Laboratory, has been appointed director of the Meteorological Laboratory for the Environmental Protection Agency's National Environ-



mental Research Center at Research Triangle Park, N.C.

Before assuming his present position, Mr. Niemeyer had been deputy director of the Environmental Research Laboratories' Air Resources Field Research Office. Prior to his affiliation with NOAA and EPA, he was a meteorologist for the United States Air Force and what is now the National Weather Service. He has been with the Department of Commerce since 1955.

Walter E. Benkman, Leading Forecaster at San Francisco National Weather Service Forecast Office, has been awarded U.S. Department of Commerce Bronze Medal for exceptional service to the public through sustained superior performance as a weather forecaster.

Mr. Benkman retired April 6 with over 32 years Federal service. As a Leading Forecaster at the Weather Service facility, which is now located in Redwood City, he had overall responsibility while on duty for all forecasts and warnings Northern and Central California and for marine weather forecasts and warnings covering most of the Eastern Pacific Ocean north of the Equator.

Dr. Helmut Landsberg, former Director of the Environmental Data Service, was honored with a citation "For Distinguished Intellectual Contributions in Environmental Studies." The citation was presented to the Department of Government and Politics of the University of Maryland at a conference on "Politics of the Environment" held April 16 at the University's College Park, Md., campus.

Technical Training Center Course



The class picture of those attending the Solid State and Digital Logic Class at the National Weather Service Technical Training Center in Kansas City April 10-26 includes (seated, from left) Ray WSO Tulsa, Okla.; Vernon Harris, WSO Juneau, Alaska; Al WSO Barrow, Alaska; Robert L. Franco, WSO Albuquerque, Mexico; Leo Coro, WSO Asheville, North Carolina; Bernie WSO Akron, Ohio; (standing, from left) Jim Nelson, Instructor, Collis, Instructor; Charles Easley, WSO Ely, Nev.; William Cobb, Norfolk, Va.; Wayne E. Dillion, WSO Fort Worth, Tex.; Charles Kunkel, WSO Des Moines, Iowa; and James R. McFarland, WSO Louisville, Ky.



National Oceanic and Atmospheric Administration

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