

noaa week

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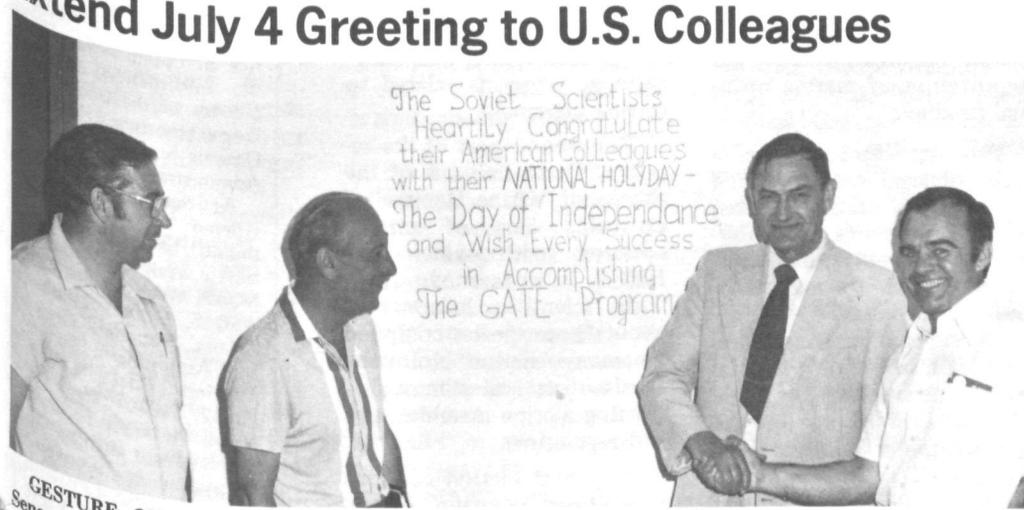
Marine Mammal Protection Act Report Issued

For the second successive year the Commerce Department has denied all requests for permits to kill marine mammals for commercial purposes, according to a recent report by Secretary Frederick B. Dent. The Secretary's second annual report to the Congress and the U.S. public on actions taken by NOAA with reference to marine mammals was delivered, as required, by June 21.

The 181-page document submitted to the Senate and the House of Representatives among other things delineates the reasons for, and the

(Continued on page 2)

Soviet Scientists at GATE Headquarters Extend July 4 Greeting to U.S. Colleagues



The Soviet Scientists
Heartily Congratulate
their American Colleagues
with their NATIONAL HOLYDAY -
The Day of Independence
and Wish Every Success
in Accomplishing
The GATE Program

GESTURE OF FRIENDSHIP—Soviet scientists at the headquarters of the GATE project in Dakar, Senegal, greeted U.S. colleagues with this placard on July 4. (From left) Dr. Yuri Tarbeev, GATE Deputy Director and Chief of Operations; Dr. Alexandr Borovikov, Chief of the Soviet aircraft group; Colonel William Barney, U.S. Field Director; and Dr. Yuri Beliaev, Director of Ship Operations.

GATE, the Atlantic Tropical Experiment of the Global Atmospheric Research Program, is the greatest weather investigation in history, involving 70 nations and 4000 persons. The field phase ends September 23.

NWS Headquarters Is Reorganized

Eight NOAA Employees Cited For EEO Accomplishments

Eight NOAA employees were among the 16 Commerce Department employees who recently received certificates of recognition from Secretary of Commerce Frederick B. Dent for their outstanding work in developing equal employment opportunities for minorities and women. They were: Dr. Dayton L. Alverson, Director of the National Marine Fisheries Service Northwest Fisheries Center in Seattle, Wash.; Charles O. Baker, Supervisory Meteorological Technician at the National Weather Service Office in Nome, Alaska; Janice R. Cavaliere, Writer/Editor in

Publication Services at the Environmental Research Laboratories in Boulder, Colo.; Fred Hodo, Jr., a Cartographer in the Visual Chart Branch of the Aeronautical Chart Division in the National Ocean Survey's Office of Aeronautical Charting and Cartography in Silver Spring, Md.; Josephine Moss, an Oceanographer in the Environmental Data Service's National Oceanographic Data Center in Washington, D.C.; Doris J. Robinson, a Seafood Consumer Specialist in the Market Research and Services Division of the National Marine Fisheries Service

(Continued on page 8)

A reorganization of National Weather Service Headquarters has become effective.

The reorganization establishes a new Office of Technical Services by grouping together existing Divisions that now provide services to all areas of the National Weather Service. The Engineering Division and the Test and Evaluation Laboratory from the Systems Development Office will be in the new Office. The Communications Division and the Data Acquisition Division from the Office of Meteorological Operations and the Data Systems Division from the Office of Hydrology will also be included in the Office of Technical Services.

The Office of Meteorological Operations has been renamed the Office of Meteorology and Oceanography and combines the responsibility of the Office of Oceanography with that for Marine Weather Forecasting.

The reorganization also realigns the Divisions within the Systems Development Office.

The Office of Technical Services will have cognizance over the development of policies and procedures for the acquisition and communication of oceanic, hydrological, and meteorological information; and the procurement, test and evaluation, installation and maintenance of all meteorological, hydrological, and oceanic equipment. Merritt N. Techter has been named Acting Associate Director of the new office.

Karl R. Johannessen has

(Continued on page 8)

New NOAA Display Is Exhibited at Reading Air Show

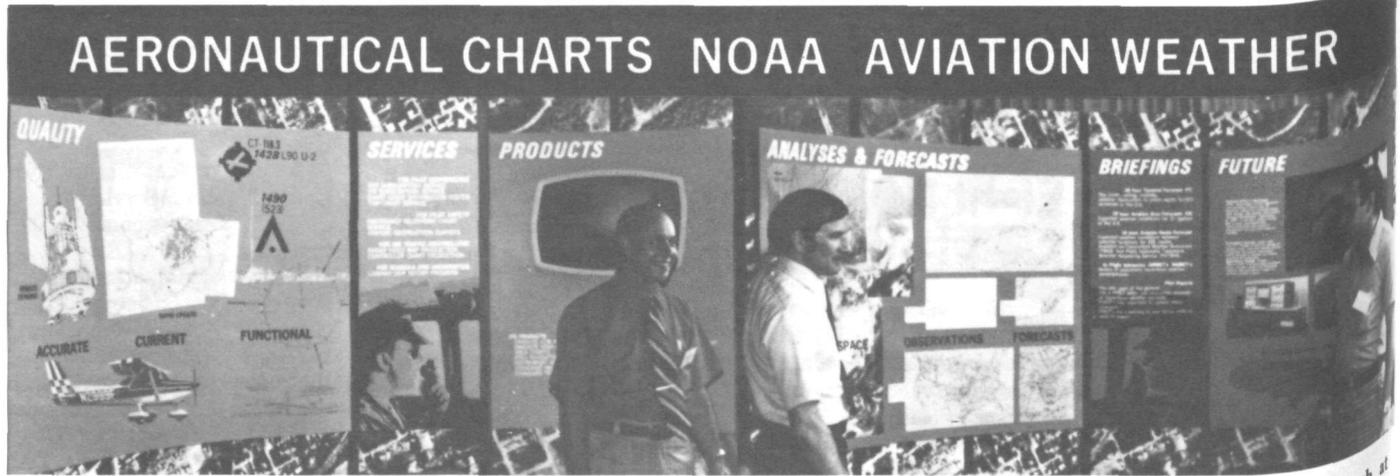
A new NOAA display, depicting the National Weather Service Aviation Weather Services and the National Ocean Survey Aeronautical Chart Services, was exhibited

at the 25th Annual Reading Air Show at the Reading, Pa., Municipal Airport June 4-7. This is one of the largest showings of general aviation products and serv-

ices in the world, with over 100 corporations and organizations represented.

The new display was developed for the show by James Schick and George

Hankey of NOAA's Exhibits and Special Projects Section in cooperation with the National Ocean Survey's Aviation Branch and the NOS.



Manning the display are (from left) George Berner of the NOS Aeronautical Charts Distribution Division; Tom Beitel, Weather Service Evaluation Official at the Weather Service Forecast Office in

Philadelphia, Pa.; and Paul A. Jacobs of the Aviation Branch at the National Weather Service Headquarters in Silver Spring, Md.

Second Marine Mammal Protection Act Report Is Issued

(Continued from page 1)

character of, several procedural or regulatory changes either proposed or made in the administration of the Marine Mammal Protection Act of 1972.

The report also describes the circumstances surrounding the handling of a number of the 92 applications so far received by the National Marine Fisheries Service for permission to capture or otherwise acquire some 10,000 marine mammals, all to be used for scientific research or public display. Most of twenty approved applications involved the capture and release of almost 9,000 of the ocean-dwelling animals for scientific research; the next largest number of permits was granted to persons and organizations wishing to retain custody of animals for either scientific research or public display. Other applications have been denied, withdrawn, or referred to appropriate States for action; 65 of the 92 applications to take or use marine mammals in various ways awaited disposition as of the end of April.

The Act, which took effect in December 1972, is administered and enforced by NMFS in matters related to porpoises, whales, seals, and sea lions. Other marine mammals come under the jurisdiction of the Department of the Interior. The Act established, with some exceptions, a moratorium on the taking or importation of marine mammals and on the importation of marine mammal products.

The Act stipulates that a series of legal, scientific, and technological steps be taken by the Commerce and Interior Departments in a sustained effort to maintain—and if necessary rebuild—populations of marine mammals. It also requires that an annual accounting be made of the stewardship of the Act by the responsible Federal agencies.

The current report, in three parts, covers the period June 1973 through April 1974. The first part, "Actions Taken to Assure the Well-Being of Marine Mammals," describes the details

surrounding: economic hardship exemptions; public display and scientific research permits; applications for waiver of the moratorium; research and development of fishing gear designed to prevent harm to porpoises associated with tuna fishing; research of fur seals on the Pribilof Islands in the Bering Sea; legal enforcement of the tenets of the Act; and international programs related to marine mammals.

The second part of the report, "Current Status of the Stocks of Marine Mammals," contains lists of marine species with which the NMFS is concerned, along with scientific information about those species compiled by many marine biologists. It also lists and summarizes existing marine mammal laws and regulations.

The third section contains appendices germane to recent marine mammal actions, regulations, and notices.

The text of the Secretary's report appeared in the *Federal Register* dated June 24, 1974 (39F.R.23895).

NOAA/NBS Energy Tip

Light opaque window blinds and draperies—kept closed during the hours when sun strikes the room—reflect the sunlight back through the window, reducing heat gain by as much as 50 percent.

noaa week

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

Articles to be considered for publication should be submitted at least a week in advance to NOAA Week, Room 221, WSC 5, Office of Public Affairs, National Oceanic and Atmospheric Administration, Rockville, Md. 20852. NOAA Week reserves the right to make corrections, changes or deletions in submitted copy in conformity with the policies of the paper or the Administration.

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

Sea Grant Researchers Brand Crabs

How do you brand a crab? Possibly with a laser beam, say Sea Grant researchers at Oregon State University.

Unlike the hot-iron brands used on cattle to prove ownership, crab brands will be used to track and study crab populations and movements.

"Tagging or marking crabs with plastic discs or paint has proven unsatisfactory," says Richard Stroud, Research Associate in veterinary medicine at OSU. "The crab, like all crustaceans, periodically sheds its shell to replace it with a larger one, a process called molting. When the shell is discarded, so is the tag or paint mark.

"Laser branding, however, alters some of the pigmentation cells under the crab's outer shell," says Stroud. "When a new outer shell is formed, it too will carry the brand."

Mr. Stroud is also studying another method of marking crabs using a copper "branding iron" cooled to subzero temperatures.

Preliminary trials on Dungeness crab indicate that both freeze-branding and laser-branding will alter the crab's pigmentation cells producing a mark that will last through a molting cycle. Neither of the methods seems to harm the crabs or interfere with normal molting.

Although Mr. Stroud's preliminary experiments are encouraging, he remains cautious about the future of the technique.

"We need to know more," he says, "about possible harmful side-effects to the crab and about the permanence of the mark. We need to make the equipment portable enough to be used in the field.

"At present, we are continuing our work to the Dungeness, since it is one of Oregon's most valuable seafood products, but also one

Burke Heads NOAA Officer Training Center; Dropp To Command NOAA Ship Peirce



Lt. Commander Kenneth F. Burke

Lieutenant Commander Kenneth F. Burke is the new Officer-in-Charge of the NOAA Officer Training Center at the U.S. Merchant Marine Academy in Kings Point, N.Y. He was formerly Commanding Officer of the NOAA Ship *Ferrel*. He has been a NOAA commissioned officer since 1964 and previously served on the *Explorer*, *Peirce* and *Whiting*, as well as with geodetic field parties.

Lt. Commander Burke succeeds Commander Joseph Dropp, who has been Officer-in-Charge since the training center was transferred from Norfolk, Va., in 1970. Commander Dropp has been named Commanding Officer of the NOAA Ship *Peirce*. He was commissioned in 1963 and has served aboard three NOAA

of the least studied. Little is known about the Dungeness because there has been no way to keep track of which individual crab was which," says Mr. Stroud.

"If freeze-branding or laser-branding proves successful for Dungeness, we may try using it on other types of crabs or possibly other crustaceans, like lobsters."

Mr. Stroud's research, part of the OSU Sea Grant College Program, is being conducted in cooperation with the Fish Commission of Oregon and the United States Department of Agriculture.



Commander Joseph Dropp

ships, including the *Oceanographer* on its round-the-world cruise in 1966, when he served as the vessel's Public Affairs Officer.

Lieutenant (junior grade) Michael C. Meyer is the Assistant Training Officer at Kings Point.

LSC Adds Aero Charts To Over-Counter Sales

The National Ocean Survey's Lake Survey Center in Detroit, Mich., started over-the-counter sales of selected aeronautical charts July 1. The LSC Distribution Section now sells all U.S. Sectional and VFR Terminal Area Charts; all U.S. Enroute Low Altitude Charts, including Area Charts (Radio Facility); all U.S. World Aeronautical Charts (WAC's); all Alaska Aeronautical Charts, including WAC's and Sectionals; East Central and Northeast Area Instrument Approach Procedure Charts; booklets of Standard Terminal Arrival Route (STAR) Charts; Selected Operational Navigation Charts (ONC's) of the Caribbean area; and VFR/IFR Planning Charts.

This service is in addition to the regular over-the-counter sales of Great Lakes nautical charts.

Mail orders for all of these charts, including Great Lakes nautical charts, should be sent to the Distribution Division (C-44), NOS, Riverdale, Md. 20840.

Contract Let For 46 VHF-FM Transmitters

NOAA has awarded a \$271,203 contract to Scientific Radio Systems, Inc., of Rochester, N.Y., for 46 VHF-FM radio transmitters for use by the National Weather Service.

The transmitters will be added to the NOAA Weather Radio network which currently provides continuous 24-hour-a-day transmission of weather information, forecasts, and, when necessary, warnings to 67 areas throughout the United States. Operating on the assigned frequencies of 162.55 and 162.40 MHz., the transmitters have a nominal range of 40-50 miles—greater when antenna height and terrain features are favorable.

Receivers capable of picking up the very-high frequency, frequency modulated (VHF-FM) transmissions are available at many retail outlets at prices beginning below \$20. In emergency situations, a "tone alert" signal can be sent from the Weather Service-controlled transmitters which will de-mute or activate a siren on specially constructed receivers.

Delivery of the 46 new NOAA Weather Radio transmitters is slated to be complete by late summer of 1975. Final determination of sites for the transmitters has not been made. Ultimately there will be 350 stations in the NOAA Weather Radio network.

Maki Is Davidson Exec

Lieutenant Commander Melvin N. Maki is the new Executive Officer of the NOAA Ship *Davidson*. He was previously Operations Officer of the *McArthur*. He joined the commissioned corps in 1966 and has served also on the *Bowie*, *Patton* and *Surveyor*.

The Seattle-based *Davidson* is conducting hydrographic surveys in Prince William Sound, Alaska.

calendar of events

- August 21-23, Halifax, Nova Scotia, Canada
Fifth Conference on "Engineering in the Ocean Environment," sponsored by the Canadian Atlantic Section and the Oceanography Coordinating Committee of the Electrical and Electronics Engineers, Inc. (Ocean '74, P.O. Box 1000, Halifax, Nova Scotia, Canada.)
- September 8-11 Honolulu, Hawaii
104th Annual Meeting of the American Fisheries Society. (Mrs. Provost, AFS, 1319-18th St., N.W., Washington, D.C. 20036. 202-872-8282.)
- September 9-11 Mystic, Conn.
Topical Conference on Transport Mechanisms in the Nearshore Environment, sponsored by American Geophysical Union Section of Oceanography. (Cynthia Beadling, AGU, 1707 L St., N.W., Washington, D.C. 20036. 202-293-1144.)
- September 9-13, Santa Barbara, Calif.
Symposium on Atmospheric Diffusion and Air Pollution, co-sponsored by the American Meteorological Society and the World Meteorological Organization. (Chairman of the Program Committee: Dr. S.R. Hanna, Atmospheric Turbulence and Diffusion Laboratory, Environmental Research Laboratories, NOAA, P.O. Box E., Oak Ridge, Tenn. 37830. FTS-615-483-4301.)
- September 11-13 Honolulu, Hawaii
International Association of Game Fish and Conservation Commissioners Meeting. (John S. Gottschalk, Executive Vice President of the Association, 1412 16th St., N.W., Washington, D.C. 20036. 202-232-1652.)
- September 17-18 Offutt AFB, Omaha, Nebr.
Annual Intra-National Weather Service Severe Local Storms Conference. (Fred Wells, Emergency Warnings Branch, Meteorological Services Division, NWS, Room 1428 Gramax Building, 8060 13th St., Silver Spring, Md. 20910. 301-427-7679.)
- September 19-20 Offutt AFB, Omaha, Nebr.
Biennial Interdepartmental Severe Local Storms Conference. (Fred Wells, Emergency Warnings Branch, Meteorological Services Division, NWS, Room 1428, Gramax Building, 8060 13th St., Silver Spring, Md. 20910. 301-427-7679.)
- September 23-25, Washington, D.C.
10th Annual Marine Technology Society Conference and Exposition, "National Needs and Ocean Solutions." A possible one-day briefing on the June-to-August law of the sea conference is being discussed for September 26. (Mrs. Mary Ann Paturis, MTS, 1730 M St., N.W., Washington, D.C. 20036. 202-659-3251)
- October 10-11 Columbus, Ohio
Eighth Geodesy/Solid-Earth and Ocean Physics Research Conference, "Lunar Dynamics and Selenodesy."

(Continued)

November 10-14
Miami Beach, Fla.

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

Sponsored by American Geophysical Union, Defense Mapping Agency, NASA, NOAA, Ohio State University, Department of Geodetic Science, and U.S. Geological Survey. Application for attendance must be received by August 23. (Cynthia Beadling, AGU, 1707 L St., N.W., Washington, D.C. 20036. 202-293-1144 or Dr. Hymen Orlin, Chief Scientist, National Ocean Survey, Cx4, NOAA Headquarters, Rockville, Md. 20852. 301-496-8720.)

27th Gulf and Caribbean Fisheries Institute and 17th International Game Fish Research Conference, sponsored by the University of Miami. Symposium 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. Contributions are invited for the fishing gear and biological sessions of GCFI. Titles of papers and abstracts no longer than 300 words should be submitted for review immediately. Deadline for abstracts is July 31. (James B. Higman, Executive Director, Division of Biology and Marine Resources, Rosenstiel School of Marine and Atmospheric Science, University of Miami, 10 Rickenbacker Causeway, Miami, Fla. 33149. 305-350-7533.)

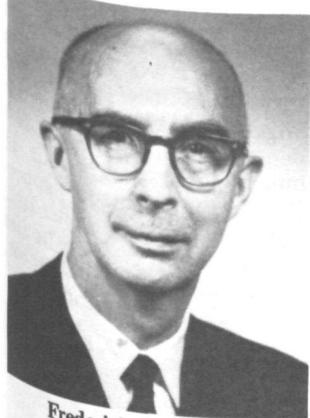
Third Symposium on Meteorological Observations and Instrumentation, sponsored by the American Meteorological Society, with cooperation of the World Meteorological Organization, the American Geophysical Union, NOAA, and the Department of Defense.

Theme: "Observations and Instruments for Mesoscale Phenomena." Papers are being solicited on: requirements for data; upper air sounding systems; mesoscale observing network operations; indirect sensing from satellites; remote surface-based sensing; coastal zone observations; "conventional" surface instruments; and automatic observing stations. Titles and abstracts (less than 200 words) should be sent by August 15 to James Giraytys, Program Chairman, National Weather Service, 8060 13th St., Silver Spring, Md. 20910 (301-427-7767).

A Preprint Volume will be issued and all papers must be received in final form by November 1.

An instrument show and exhibit will be held during the Symposium. Prospective exhibitors should contact David George, Exhibit Director, Silver Spring, Md. 20910 (301-427-7767).

Associate Director Of NOS Aero Charts, Cartography, Retires



Frederick O. Diercks

Colonel Frederick O. Diercks has retired from NOAA after a distinguished Federal career of almost four decades.

For the past seven years, he has been Associate Director of the Office of Aeronautical Charting and Cartography in the National Ocean Survey and its predecessor, the Coast and Geodetic Survey.

He graduated from the U.S. Military Academy in 1937, and subsequently spent 30-years with the Army. His assignments included those of commander, 656th Engineer Topographic Battalion in Europe and chief topographic engineer officer, Far East Command, Tokyo 1948-49, and of the European Command in Heidelberg, Germany, 1953-56.

Colonel Diercks was also Commanding Officer, Army Map Service, in Washington, 1957-61; Acting Assistant Director, Mapping, Charting and Geodesy, Defense Intelligence Agency, 1962-63; Deputy Engineer, Eighth U.S. Army in Korea, 1963-64; and Director, U.S. Army Coastal Engineering Research Center in Washington, 1964-67.

Colonel Diercks has been active in the Pan American Institute of Geography and History, serving as U.S. National Member of the organization's Commission on Cartography from 1961-67; the

Connecticut, Massachusetts Receive Coastal Zone Grants

Federal grants totaling \$404,285 have been awarded to the states of Massachusetts and Connecticut to help them prepare coastal zone management programs.

Massachusetts Governor Francis W. Sargent has designated the Executive Office of Environmental Affairs as the state agency to administer the grant.

In the first year of program development, Massachusetts will develop a broad scale inventory of coastal resources, utilizing existing data sources and studies. Planners will define permissible coastal land and water uses and, where necessary, set locational design and performance criteria for certain permissible uses (with special attention to uses of national or regional interest including energy facilities siting and deep water port selection). They will identify potential geographic areas in the coastal zone of particular concern. They will assess the adequacy of existing statutory authority for managing Massachusetts' coastal resources and, where necessary, develop legislation for additional management responsibilities. Finally, they will define the state's coastal zone boundary for management purposes, and institute a Coastal Review Center to enhance the Commonwealth's capability to reach sound and well considered decisions on pending projects affecting the state's coastal zone.

American Society of Photogrammetry, its president in 1970-71; the American Society of Civil Engineers; the American Congress on Surveying and Mapping; and the Society of American Military Engineers.

He holds a Master of Science degree in Civil Engineering from the Massachusetts Institute of Technology and a Master of Science degree in Photogrammetry from Syracuse University.

Governor Thomas J. Meskill, has designated the Department of Environmental Protection as the agency to administer Connecticut's grant.

Development of Connecticut's coastal area management program will include the definition of boundaries; the development of a strategy for land and water use for the coastal area; identification of geographic areas of particular concern; the administration, review and monitoring of activities; organization for the management program; a public participation project; and a pilot study of the shoreline and Thames River areas of the state's southeastern region.

Calif. Gravity Surveyed

Lieutenant (junior grade) Stephen R. Birkey and Charles H. Bergmann are measuring gravity in three California counties as part of a continuing program to determine the force of gravity at thousands of sites throughout the United States. The two-man National Geodetic Survey team is conducting a three-month survey in Riverside, San Bernardino and Los Angeles counties along a line extending from the northern Salton Sea area to Caliente.

A determination of gravity is one of the factors which has enabled federal surveyors to pinpoint with precise accuracy the exact location of more than 500,000 points which make up the national geodetic networks of elevations and distances on which all land measurements are based. The networks are maintained by the NGS.

D.C. Area Duckpin League To Resume Activities

The NOAA Mixed Duckpin League will resume its recreational activities beginning Thursday, Sept. 5, at 6 p.m., at the Bethesda Bowl, 7651 Old Georgetown Rd., Bethesda, Md. There is room

Major Storm on Sun Tests New Theories And Satellite

The largest solar storm since August 1972 raged over a Jupiter-sized area on the sun last week.

The active region on the sun—designated Region 433—was detected June 28 by observers in the Environmental Research Laboratories' Space Environment Laboratory in Boulder, Colo., as the bright, sunspot-flecked ribbon of activity just south of the solar equator rotated into the earth's field of view.

By July 3 the region had grown to cover an area of some 1.1 billion square miles (2.86 billion square kilometers). This compares with the surface area of the region which produced the great flares of August 1972.

From July 3 through July 8, Region 433 produced a total of 11 major, X-class flares. Increased radiation from the flares in the series caused severe disturbances in the earth's magnetic field, displays of northern lights visible as far south as Omaha, Nebr., widespread radio interference, and telephone outages in some midwestern circuits.

Decaying Region 433 rotated past the sun's west edge, or limb, on July 11 and is expected to diminish further while on the far side of the sun.

Active Region 433 provided the first trial of the Space Environment Monitor aboard NASA's first Synchronous Meteorological Satellite—SMS-1—which NOAA solar forecasters praised as an extremely effective new tool for monitoring the energetic output of a flaring sun.

for full teams or individual bowlers. Further information can be obtained from Ed Via (IDS 161-77680), Grace Solers (IDS 14-68387), or Diane Smith (IDS 14-68321).

recipe of the week



HEARTY HALIBUT

2 pounds halibut steaks or other fish steaks, fresh or frozen
2/3 cup thinly sliced onion
1-1/2 cups chopped fresh mushrooms
1/3 cup chopped tomato
1/4 cup chopped green pepper
1/4 cup chopped parsley
3 tablespoons chopped pimiento
1/2 cup dry white wine
2 tablespoons lemon juice
1 teaspoon salt
1/4 teaspoon dill weed
1/8 teaspoon pepper
Lemon wedges

Thaw frozen steaks. Cut into serving-size portions. Arrange onion in bottom of a greased baking dish, 12 x 8 x 2 inches. Place fish on top of onion. Combine remaining vegetables and spread over top of fish. Combine wine, lemon juice, and seasonings. Pour over vegetables. Bake in a moderate oven, 350° F., for 25 to 30 minutes or until fish flakes easily when tested with a fork. Serve with lemon wedges. Serves 6. Approximately 230 calories in each serving.

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 bluefish and fresh tuna along the Northeast Seaboard; croaker and spot in the Middle Atlantic States, including the D.C.

area; frozen shrimp—plain and breaded—in the Southeast and along the Gulf Coast; ocean perch and whitefish in the Midwest; silver salmon and sole fillets in the Northwest; and lingcod and rock sole in the Southwest.

Carson and Wiggins Receive Commerce Bronze Medals

Baynum E. Carson, Chief of the Publications Distribution Section, and Vernon Wiggins, Meteorological Technician in the Data Digitizing Section at the Environmental Data Service's National Climatic Center in Asheville, N.C., were awarded the Department of Commerce Bronze Medal at ceremonies held in Asheville, on June 12. Mr. Carson was cited for his superior manage-

ment of the Publications Distribution Section which resulted in the receipt of published environmental data by users of those data throughout the world. Mr. Wiggins was honored for his demonstrated interest in sea level improvement, leadership in Equal Employment Opportunity activities and his long devoted service. Dr. Thomas S. Austin, EDS Director, made the presentations.



(From left) Mr. Carson, Dr. Austin, and Mr. Wiggins.

18th Weather Radar Course Is Held At NWS Technical Training Center



Participants in the 18th Weather Radar Course held at the National Weather Service Technical Training Center in Kansas City June 11-27 were (front row, from left) Larry Burns, Instructor; Jose N. Ortiz, Salt Lake City, Utah; William L. Evans, Memphis, Tenn.; James Binder, Fort Wayne, Ind.; Guy H. Gray, Jr., Kansas City, Mo.; F. Brackett, Atlantic City, N.J.; (back row, from left) Damon M. Gray, Jr., Cape Hatteras, N.C.; Jerald Uecker, Lubbock, Tex.; John F. Townsend, Charleston, S.C.; Charles A. Kurtz, Jr., St. Louis, Mo.; Morton B. Peterson, Muskegon, Mich.; Frank Chupka, Key West, Fla.; and Joel Wertman, Instructor.

Turnacliﬀ Named Mid-Continent Recruiting Officer



Lieutenant Wayne F. Turnacliﬀ has been named Mid-Continent Recruiting Officer for the NOAA Commissioned Corps. He will be based in Boulder, Colo. Lieutenant Turnacliﬀ, who joined the Corps in 1970, was formerly Chief of the Data Preparation Branch at NOAA's Atlantic Marine Center in Norfolk, Va.

Reinke Is Rainier Exec



Commander Leland L. Reinke is the new Executive Officer of the NOAA Ship *Rainier*. A member of the NOAA Corps since 1963, he was formerly Executive Officer of the *Davidson*. He has served aboard the *Pathfinder* and *Lester Jones*, as Acting Chief of the Pacific Tide Party, Chief of the Air Photo Mission, and Chief of the Flight Operations Group in the Coastal Mapping Division at Rockville, Md. The Seattle-based *Rainier* is engaged in hydrographic survey operations in Cook Inlet, Alaska.

Dr. Smagorinsky Selected To Receive IMO Prize

Dr. Joseph Smagorinsky, a research meteorologist with the Environmental Research Laboratories, has been selected by the United Nations' World Meteorological Organization to receive the International Meteorological Organization (IMO) Prize. He will accept the award—\$1,200, a gold medal and a certificate—at a ceremony either in the United States or Geneva, Switzerland, at a later date.

The IMO Prize is presented each year to a scientist chosen by the 24-member executive committee of the WMO for eminence in the field of international meteorological organizations. Dr. Smagorinsky will be the 19th recipient of the Prize.

The Director of the Princeton, N.J.-based Geo-

physical Fluid Dynamics Laboratory, Dr. Smagorinsky's fields of interest and research include numerical modeling of the world's weather patterns to achieve better forecasting techniques, and geophysical applications of high-speed computers.

In 1973, he received the Buys Ballot Medal from the Royal Netherlands Academy of Arts and Sciences for his contributions as "the meteorologist who has done most for the science of meteorology in the past 10 years." He also received the Gold Medal of the Department of Commerce and the Meisinger Award of the American Meteorological Society.

Dr. Smagorinsky received his B.S., M.S., and Ph.D. from New York University.

Constance E. Mottaz Is Awarded Commerce Department Bronze Medal

Constance E. Mottaz, Secretary to the Chief of the National Weather Service's Meteorological Services Division, has been awarded a Department of Commerce Bronze Medal "in recognition of superior performance of duties over a sustained

period of time." In presenting the award to Ms. Mottaz, Karl R. Johannessen, Associate Director of the Office of Meteorology and Oceanography, noted that she began her Weather Service career in 1944.



NGS Field Party Surveying in New York

A 15-man National Geodetic Survey leveling survey party headed by James W. Taylor is conducting a geodetic survey in New York

along a 160-mile route from Saratoga Springs to Yonkers to provide up-to-date measurements of ground elevations for use in large-scale engineering projects. The survey

Alvin Makes First Dives In FAMOUS

The American research submersible ALVIN with mother ship LULU and escort ship KNORR and two French research submersibles with escort vessels have begun intense exploration of the mid-Atlantic Ridge as part of Project FAMOUS, the French-American Mid-Ocean Undersea Study. ALVIN has completed the first series of planned dives. Although the first dive was primarily an engineering test dive, a submersible team of one scientist and two pilots spent nearly five hours on the central rift valley floor collecting nearly 125 pounds of fresh volcanic rock, bottom sediments, and bottom water to be analyzed on the KNORR and in shore-based laboratories. These and similar samples from the second dive were obtained within a highly precise navigational grid.

Additional geological observations with extensive photographic coverage were made of the rift valley floor and large fissures in the sea floor bearing southwest were traced. Diving scientists Robert Ballard, James Moore, and Tjeerd Van Andel and pilots John Donnelly, Lawrence Shumaker, and Valentine Wilson are enthusiastic about results.

The KNORR has been working to supplement the French and American submersible operations and surface ship surveys carried out over the past two years.

U.S. Chief Scientist of Project FAMOUS is Dr. James Heirtzler of the Woods Hole Oceanographic Institution, under the joint sponsorship of NOAA, the National Science Foundation, and the Department of the Navy.

is a continuation of one which began last year at the Canadian border and was suspended last fall due to adverse weather.

Eight NOAA Employees Are Cited for EEO Accomplishments

(Continued from page 1)



Secretary Dent and Josephine Moss



Charles O. Baker



Doris J. Robinson



Fred Hodo, Jr.



Janice R. Cavaliere



Victor E. Serena



Maurice A. Ward



Dr. Dayton L. Alverson

Southwest Regional Office in Terminal Island, Calif.; Victor E. Serena, Chief of the Photogrammetric Branch of the Coastal Mapping Division at the National Ocean Survey's Atlantic Marine Center in Norfolk, Va.; and Maurice A. Ward, a Weather Radar Specialist at the National Weather Service Office in Palmdale, Calif.

Secretary Dent, who presented the certificates at the fifth annual recognition ceremony, praised the sixteen employees "who personally contribute their time and talent in activities which positively affect Equal Employment Opportunity."

Dr. Alverson was honored for his unusual perception, sensitivity and accomplishments which have materially enhanced the professional welfare and status of minorities at the Northwest Nation-

al Marine Fisheries Center.

Mr. Baker was recognized primarily for his performance in connection with the NWS Alaska Region's recruitment and training of Alaskan natives in Meteorological Technician positions.

Mrs. Cavaliere was cited for her outstanding contributions to the NOAA, Denver area, and national Equal Employment Opportunity/Federal Women's Programs.

Mr. Hodo was honored for his significant and lasting contribution to the object-

ives of EEO by voluntarily donating many hours of his time to work with youth in the Washington, D.C., school system.

Ms. Moss was recognized for her outstanding contributions to the advancement of EEO principles in the community as well as within the Department.

Mrs. Robinson was cited for her significant contributions as a member of the Nutrition and Advisory Committee for Head Start, which is administered by the Eco-

nomic and Youth Opportunities Agency of Greater Los Angeles.

Mr. Serena was cited for his positive and innovative methods to recruit minority and female cartographic technicians, which resulted in such candidates comprising 66 percent of the new hires in his Branch in 1973.

Mr. Ward was recognized for his efforts in obtaining Government jobs for nearly 200 minority youths during the summers of 1972 and 1973.

Reorganization of NWS Headquarters Becomes Effective

(Continued from page 1)

been appointed Acting Associate Director of the Office of Meteorology and Oceanography. It will have cognizance over the development of requirements, plans, and procedures for operation of meteorological and oceanic field services. The office will also serve as the primary channel for coordinating NWS field services operations and for technical aspects of meteorological and oceanic programs.

Within these offices, Dr.

George P. Cressman, Director of the NWS, has named the following to be Acting Chiefs of Divisions or Laboratories:

Office of Meteorology and Oceanography—Meteorological Services Division, Dr. Harry P. Foltz; Ocean Services Division, Max W. Mull; Space Operations and Support Division, Kenneth M. Nagler; and Overseas Operations Division, John C. Straiton.

Office of Technical Services—Engineering Division, J.

Michael St. Clair; Communications Division, James R. Neilon; Data Systems Division, Tillman F. Gladney; and Test and Evaluation Division, William E. Eggert.

Systems Development Office—Techniques Development Laboratory, Dr. William H. Klein; Systems Design and Experiment Division, Russell G. McGreevy; Systems Integration Division, Robert E. Johnson; and Equipment Development Laboratory, James A. Curry.



National Oceanic and Atmospheric Administration

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