A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

NOAA WEEK

ugust 27
olume 2
umber 34

U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

Three Firms Compete In Data Buoy Design

NOAA has awarded competitive design contracts for two limited capability buoy systems to supplement the larger and more sophisticated buoys now being built for the National Data Buoy Center. One system is to be moored in a fixed position, while the other will drift freely.

The award of these contracts is a further step in the National Data Buoy Center's program to develop the capability of deploying networks of automatic marine data-collection platforms to provide meteorological and oceanographic measurements for operational and research programs in the deep oceans, coastal waters, bays, estuaries, and the Great Lakes.

Under a $425,000 contract, the Re-Entry and Environmental Systems Division of General Electric, Philadelphia, Pa., will design both a drifting and a moored buoy system.

Lockheed Missiles and Space Company--a Division of Lockheed Aircraft Corporation--Sunnyvale, Calif., was awarded a $270,000 contract for design of a moored buoy system.

The Magnavox Company, Government and

(continued on page 2)

Awards Night Postponed

Indefinite postponement of the first annual NOAA Awards Night and dinner-dance, originally scheduled to be held Oct. 2 at Indian Spring Country Club, Silver Spring, Md., has been announced.

The postponement was ordered because it was determined that the giving of such awards would violate the spirit of the Administration's recently-announced economic policies.

Open house observances at NOAA installations throughout the Nation will be held as planned.

Colorado Seismic Network Established for Research

A new earthquake recording network established in Colorado by federal and university scientists is expected to detect more than 200 local shocks during its first year of operation.

Dr. James Taggart, research seismologist at the Earth Sciences Laboratories in Boulder, said the network records earthquakes of magnitude 2.5 or more on the Richter scale and explosions in Colorado and nearby states, as well as large earthquakes at greater distances.

A cooperative research project of the Colorado School of Mines (CSM) Geophysics Department and NOAA, the network has begun monitoring earth tremors by means of 13 seismic sensing stations on both sides of the Continental Divide. Telephone lines connect the stations and continuously feed data from the network into a central recording facility at CSM in Golden.

Network participants, which may eventually include earth sciences departments of several colleges with campuses near the outlying stations, will use data from the network for a variety of scientific investigations. NOAA scientists are engaged in a wide range of studies of the structure and dynamics of the solid earth. They will attempt to map the earth's core, construct more accurate models of the crustal and upper mantle structure of the central Rocky Mountain Region, and develop an improved system for rapidly locating earthquake hypocenters (actual fracture sites within the earth).

Principal investigators for the project are Professor Maurice Major of CSM and Dr. Taggart. Dr. Leroy R. Alldredge, director of the Earth Sciences Laboratory, is serving as project manager for NOAA. Associate investigators on the project are Dr. Phillip Romig and Ruth Simon of the CSM Geophysics Department, and James Bishop of NOAA.

Miami Facility To Be Dedicated In Formal Ceremony Sept. 2

NOAA's new $1,000,000 Ship and Ocean Engineering Facility in Miami, Fla., will be dedicated September 2.

Dr. Robert M. White, Administrator of NOAA, will be principal speaker at the 2 p.m. ceremony. Others on the program will be Rear Adm. Don A. Jones, Director of the National Ocean Survey, and Dr. Harris B. Stewart, Jr., Director of the Atlantic Oceanographic and Meteorological Laboratories.

Following the ceremony, guests will tour the four-building complex and the NOAA Ship DISCOVERER, the oceanographic floating laboratory based at the Miami facility. The NOAA Ship RESEARCHER will also be present.

The facility serves as a ships base and ocean engineering laboratory for NOS. Based at the facility, located at the New Port of Miami, in addition to the DISCOVER and the RESEARCHER, will be one or two vessels of the University of Miami's Rosenstiel School of Marine and Atmospheric Sciences.

The one-story buildings--an office building, a laboratory building, and two warehouses--are leased from Dade County.

Buoy Design Competition (continued)

Industrial Division, ASW Operation, Fort Wayne, Ind., has a $260,000 contract for designing a drifting buoy system.

Although their unattended operational lifetime will be less than that of the more complex systems, the limited capability buoys will be easier to deploy at sea. In addition to their role in future operational systems, they are expected to be useful in special experiments, air-sea interaction investigations, pollution studies, and possibly for data-gathering in the paths of severe storms. They should also be suitable for the 1974 Atlantic Tropical Experiment of the Global Atmospheric Research Program, which may require as many as 90 drifting and 10 moored buoys.

The contractors' designs are to be completed by February 1, 1972. Thereafter, one contractor will be selected to build a maximum of 10 moored buoy systems and one to build as many as 20 drifting buoy systems. Beginning in late 1972, the buoys will undergo a six-month test in the Gulf of Mexico. Test and evaluation will be conducted by the National Data Buoy Center's staff at Bay St. Louis, Mississippi.

Texas Cities Honor NMFS Man For Services in 1970 Hurricane

Mr. Scott (left) and Chief Justice Mye

Thomas N. Scott, Jr., Statistics and Market News Division, National Marine Fisheries Service, Aransas Pass, Tex., was awarded a certificate of appreciation for services rendered during the emergency created by Hurricane "Celia" when it devastated a three-county area on Aug. 4, 1970. The award was presented on Aug. 3, 1971, by Chief Justice Paul Mye of the 13th Court of Civil Appeals, Corpus Christi, Tex., and bears the official seals of the cities of Aransas Pass and Ingleside, Texas.

Mr. Scott worked day and night aiding victims of the storm in addition to performing his regular duties for the NMFS. He gave food and water from his own resources to storm victims and distributed various goods obtained from relief organizations. Mr. Scott served for several months after the hurricane as liaison between the commercial fishing industry and local, state, and other federal agencies.

Joos Named to Advisory Group

Lothar A. Joos, Regional Climatologist for the National Weather Service Central Region, has been invited to serve on the Missouri Council on Meteorological Education and Research. This advisory group of meteorologists, educators, and users of meteorological services will assist the Department of Atmospheric Science of the University of Missouri in planning its programs.

Shapley Named to Dual Posts In Environmental Data Service

Alan H. Shapley is the Environmental Data Service's new Acting Associate Director for Geophysics and also Acting Director, Aeronomy and Space Data Center Formerly Director of the Office of Geophysical Monitoring at the Environmental Research Laboratories in Boulder, Mr. Shapley is author of the pioneer work "Interaction Between the Stratosphere and the Ionosphere." He is Chairman, Working Group for Monitoring the Sun-Earth Environment, of the Inter-Union Commission on Solar Terrestrial Physics, and a member of several other committees. He holds a bachelor's degree from Harvard University and did graduate work at Harvard and the University of Wales.

Great Lakes Water Levels Dropping

According to the latest Monthly Bulletin of Lake Levels issued by the National Ocean Survey's Lake Survey Center, all the Great Lakes, except Superior, had reached their peaks at the end of July, and are now on the way down. Lake Superior is expected to peak in late August or early September.

Also, as of the end of July, all of the Great Lakes, as well as Lake St. Clair, remain considerably above "Low Water Datum" (also called "Chart Datum"), the fixed plane of reference to which both Lake Survey and Canadian chart depths are drawn.

All of the lakes are below the highest stage ever recorded for a July 30th--Superior is 10 inches below the record established in 1876; Michigan-Huron,22 inches below its record high, also set in 1876; St. Clair is 10 inches below its high of 1952; Erie, 13 inches below the high established in 1969; and Ontario is 30 inches below its record high set in 1947. Each lake is also well above the lowest stage ever recorded for that date--Lake Superior, 27 inches above (1926); Lake Michigan-Huron, 48 inches above (1964); Lake St. Clair, 36 inches above (1934); Lake Erie, 38 above (1934); and Lake Ontario, 32 inches above (1934).

Atmosphere Gets a Lift From Thunderstorms, ERL Scientists Find

Scientists of NOAA's Space Environment Laboratory have found that thunderstorms transmit tremendous sound pulses into the ionosphere 125 miles above the earth. By observing these high-altitude perturbations with carefully sited radio transmitter/receiver arrays, the scientists have determined that a pulse can give the ionosphere a three-mile lift directly above the originating storm.

Turbulence within the thunderstorm produces pulsations which travel through the atmosphere as pressure waves. As a molecule of atmospheric gas is perturbed by the pressure wave, it moves, striking a neighboring molecule which in turn moves and strikes another.

At an altitude of 125 miles, the molecules of gas are so thinly distributed that one may have to travel 1,000 feet before colliding with another. This density reduction is responsible for a 1,000 times amplification of the vertical movement of the atmosphere at ionospheric altitudes.

The pilot study was conducted in the Oklahoma City area, in cooperation with NOAA's National Severe Storms Laboratory in Norman. The Norman laboratory conducts an annual spring field program jointly with other government agencies and university groups toward enhancing man's understanding of severe storms and toward improving predictions and warnings.

Long Island Sound Survey Completed

The most detailed hydrographic survey ever made in Long Island Sound has been completed by the National Ocean Survey. Over 20 nautical charts will be revised and six new charts produced as a result of the extensive six-year survey.

The NOAA Ship WHITING, a high speed launch, and a hydrographic field party participated in the survey work, which was undertaken to provide navigational information for increasing marine activity in the Sound.

Prior to the hydrographic survey, a three-year survey of currents in the area was conducted in 1965-67 by the Ship MARMER of the U. S. Coast and Geodetic Survey, predecessor of the National Ocean Survey.

NMFS Statistical Division Headed by Dr. Wheeland

Dr. Hoyt A. Wheeland has been appointed to head the National Marine Fisheries Service Statistics and Market News Division, the collection, tabulation, and distribution center for all statistics covering the commercial and marine sport fisheries of the United States. Dr. Wheeland has been with NMFS since 1967, and before that was with the U. S. Department of Agriculture's Forest Service. He holds bachelor's and master's degrees in forestry and a Ph.D. in agricultural economics.

Lake Survey Center Uses Laser Device

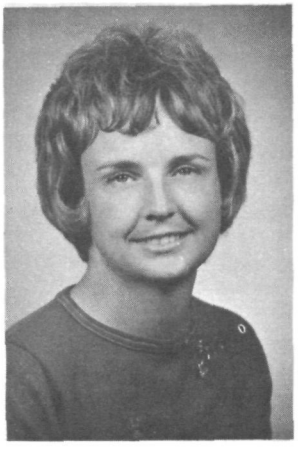
This season the Lake Survey Center's Surveys Branch personnel are using a laser ranging device for establishing horizontal control. This is the first time that the Center has used such an instrument in its survey program to measure distance using highly concentrated beams of light. The Surveys Branch is using the laser method in the Burns Harbor, Ind., area to provide a chart for this new harbor development.

Great Falls Weather Office Moves

The Weather Service Forecast Office in Great Falls, Mont., has moved from the Terminal Building at Great Falls International Airport to its new quarters at 5010 Ninth Avenue South. At the dedication ceremony on August 6, Hazen H. Bedke, Regional Director of the National Weather Service Western Region, stated that while some of the airport space will be retained for NWS surface and upper-air observations, all weather forecasts and warnings will be issued from the new location.

Mr. Bedke (left) and John W. Hamilton, Great Falls MIC

Two Honored for Achievement



Mrs. Bartlett

Dr. Schmid

Dr. Hellmut Schmid, Director of the Geodetic Research Laboratory of the National Geodetic Survey, has been awarded an honorary doctorate in the engineering sciences by the University of Bonn in West Germany. The National Ocean Survey official, a native of Germany, was honored for his "outstanding contributions in the field of satellite geodesy."

Joan Bartlett, writer-editor in NOAA-ERL's Publication Services Section in Boulder, has been selected to be listed in the 1971 edition of Outstanding Young Women of America in recognition of outstanding ability, accomplishments and service to her community, country and profession. The holder of an M.A. in history from the University of Colorado, Mrs. Bartlett joined Publication Services in 1965. She has also worked for the National Bureau of Standards, the National Institutes of Health, and the Central Intelligence Agency. This was the second professional honor awarded Mrs. Bartlett this month. The first was election to the National League of American Penwomen, a National professional organization of women writers, musicians, and artists.

Weather Assists Air Derby Winners

Gina Richardson of Yakima, Washington, flying a Cessna 210J, has won the 1971 Powder Puff Derby. In a recent release from the All Woman Transcontinental Air Race, Inc., it was noted that those who trusted meteorological predictions of lusty tailwinds on the last two days of the race and held back waiting for them, won the top four places.

Teachers Provide Counseling Service to Summer Employees

Two teachers from local schools are providing educational and vocational counseling to the 194 NOAA summer employees in the Washington Metropolitan Area. Miss Patricia Barr, of Laurel (Md.) Junior High School, handles career-related inquiries and problems, in-house seminars, and special discussion groups. Charles Dorsey, of Concord Elementary School in District Heights, Md., visits each employee and supervisor at least twice to offer assistance on an individual face-to-face basis.

Above, at an in-house seminar, from left: Lilly Lo, Minnie Waters, Wanda Grant; (standing) Pat Barr and Charles Dorsey; Howard Shenberg, Ronald Colbert, and Teresa Dunnington. Backs to camera: Patricia Borthwick and William Slayton.

NOS Chart Production Climbs

More than 180 million navigational charts and related publications were produced by the National Ocean Survey and its predecessor agency, the Coast and Geodetic Survey, during the past three fiscal years. Of these, approximately 8 million were nautical and the balance aeronautical. Production of navigational charts is expected to reach more than 100 million annually by the 1973 fiscal year.

NMFS Ship Completes Bay Study

The NMFS research vessel DAVID STARR JORDAN has completed a cruise to investigate pollution in the sewer outfall area at Santa Monica Bay, California. Biologists from the NMFS-Fishery Oceanography Center at La Jolla, Calif., carried out experiments to determine the amount and distribution of DDT and other chlorinated hydrocarbons in zooplankton above and below the thermocline, and levels present in the fishes of the area.

Jensen Receives Horticultural Award

Dr. Ray E. Jensen, recently appointed Chief of the Data Acquisition Branch at NWS Southern Region Headquarters in Fort Worth, Tex., has been awarded the 1971 Stark Award of the American Society for Horticultural Science for his research paper on methods for improving quality, performance, and longevity of fruit trees. Dr. Jensen, formerly North Dakota State Climatologist, received his doctoral degree last May.

New Lake Charts Available

New editions of Lake Survey Center General Charts 2 and 5 are available for $1.00 each. Chart 2 covers all of Lake Ontario at a scale of 1:400,000. Chart 5 shows Lake Huron at a scale of 1:500,000. Each of these charts gives an overall picture of the entire lake, and should be used in conjunction with the more detailed coast, harbor, or recreational charts of the area of travel.

Twins Confound Miami Lab

James (left) and Curtis Gaines

Among the high school and university students employed at NOAA installations throughout the country is a unique pair of summer workers employed for the third year at the National Marine Fisheries Service Tropical Atlantic Biological Laboratory (TABL) in Miami. They are identical twins James and Curtis Gaines. The 20-year-old Floridians are not only alike in appearance, but also in choice of career and college and in academic standing. The Gaines twins work as technicians in the larval fish laboratory of TABL, and attend Tuskegee Institute, Alabama, where they are studying veterinary medicine.

Coast Pilot 4 Revised by Automation

The National Ocean Survey has published an updated computerized edition of U.S. Coast Pilot 4, a 262-page nautical book containing descriptive information of the Atlantic coast and ports for the 1,000-mile stretch between Cape Henry, Va., and Key West, Fla. The book may be purchased for $2 from the NOS Distribution Division (C44), Washington, D.C. 20235 or from NOS sales agents.

The 1971 edition is the first Coast Pilot published from updated magnetic tape. It was prepared by automatic photocomposition from updated magnetic tape used originally for the computerized 1970 edition of Coast Pilot 4--the first printed from automated composition.

The eight Coast Pilots published of U.S. coastal and intracoastal waters, including Puerto Rico and the Virgin Islands, furnish marine information on navigation regulations, outstanding landmarks, channel and anchorage peculiarities, dangers, weather, ice, freshets, routes, pilotage and port facilities. The NOS also issues a Great Lakes Pilot.

After-Hours Education Program To Be Expanded This Year

More than 150 college-level courses will be offered after working hours to civilian, military personnel, and the general public in 21 downtown Federal buildings in the District of Columbia this fall through the Federal After-Hours Education Program.

This program, coordinated by the Civil Service Commission's Bureau of Training in cooperation with the College of General Studies, George Washington University, offers opportunity for individuals to enroll in undergraduate and graduate courses leading to bachelor of science and master of science degrees. Those individuals seeking self-improvement courses designed to broaden their career may enroll as non-degree students.

Registration for the fall semester will be held in conference rooms A, B, and D--just off the lobby--Department of Commerce Building, 14th Street and Constitution Avenue, N.W., from 10 a.m. to 3 p.m. on Tuesday, September 7 and Wednesday, September 8, 1971. Classes begin the week of September 13, 1971.

Tuition is $54.00 per semester hour and all courses are three semester hours. This compares with a cost of $74.00 per semester hour for courses taken on the George Washington University campus.

The Government Employees Training Act of 1958 gives Federal agencies broad authority to pay all tuition costs and other fees if courses to be taken are related to present or anticipated job requirements.

Fall semester classes will begin September 13, continuing through December 22. Exams will be completed prior to the Christmas holidays, with spring semester classes scheduled to begin January 24. Spring semester will continue through April 24.

For further information regarding this program, contact Mr. Robert W. Stewart, Jr., Field Representative, College of General Studies, George Washington University at 676-7018 or 7028.

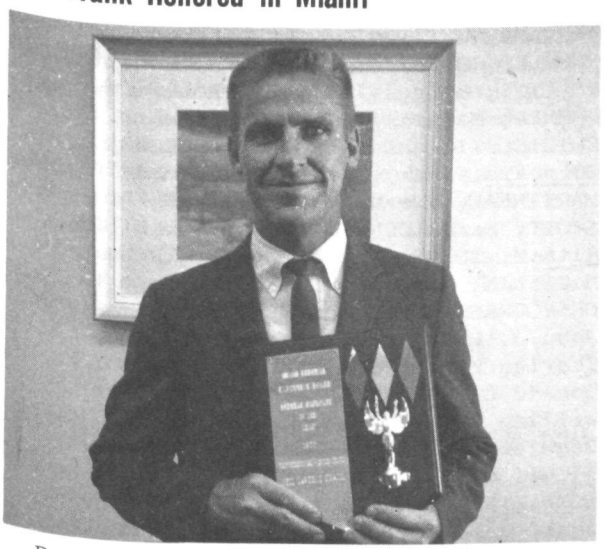
Sea Grants Awarded to Three Institutions

NOAA has awarded a Sea Grant of $799,000 to the University of Miami for the third year of Miami's program aimed at efficient management of ocean-dependent enterprises, and protection and enhancement of ocean resources. Dr. Wendell A. Mordy, Director of the university's Sea Grant program, will coordinate the many activities, which include aquaculture, ocean law, fisheries, technician training, pollution studies, coastal resource use projects, and marine advisory services. Two years ago, Miami became the first private university to receive an institutional Sea Grant. Among its significant accomplishments to date is the progress made in the aquaculture project of rearing shrimp and crabs from microscopic eggs to marketable size.

A $400,000 NOAA Sea Grant has been awarded to the University of Alaska to make possible a wide variety of research and services in the Alaskan coastal zone and near-shore areas, where the state's major environmental problems occur. It will involve cooperative efforts with numerous state agencies and private groups. Included in the program will be research on an arctic estuarine environment at the mouth of the Colville River, marine mammal studies, exploration of the Prince William Sound shellfisheries, and studies of stress and strain in nearshore ice.

A $122,000 NOAA Sea Grant has been awarded San Jose (Calif.) State College to help continue operations at the Moss Landing Marine Laboratories. Moss Landing Marine Laboratories is a consortium-type operation for research and instruction in the marine sciences supported by the five State Colleges at Fresno, Haywood, Sacramento, San Francisco, and San Jose. The Laboratories are headed by Robert E. Arnal. The program at the laboratories consists of the support of new graduate-level courses and pilot research and public education projects. Research investigations are into four major types of environments: a shallow coastal embayment, the sea-air-land zones of contacts, rivers and estuaries, and the shallow waters of Monterey Bay and the head of Monterey Submarine Canyon.

Neil Frank Honored in Miami



Dr. Neil Frank (above), hurricane specialist at the National Hurricane Center in Miami, has won the Federal Employee of the Year Award for 1970. The award is sponsored by the Miami Federal Executive Board in cooperation with the South Florida Chapter of the Federal Bar Association. Dr. Frank won in the Professional-Scientific category.

Department Offers Information Retrieval

Abstracts of technical reports produced from Government-funded research and development projects released since 1964 can now be obtained by the public from a single source--a new Commerce Department computer information retrieval service--NTISearch.

According to William T. Knox, Director of the National Technical Information Service, "NTISearch is a major step toward the Department's goal of simplifying and increasing public access to Federal publications and data files of interest to the business, scientific and technical communities."

NTISearch answers requests with up to 100 abstracts printed on 4x6 index cards. To retrieve abstracts, a skilled search specialist uses computer-generated indexes, double checking every abstract for relevancy to search questions.

To request an NTISearch, one may telephone (AC 703-321-8523), or write: U. S. Department of Commerce, NTISearch, Springfield, Virginia 22151, stating search questions and giving key words or descriptors.

Each NTISearch costs users $25 and is completed within days of requests.

Service Awards Given

Mr. George W. Snow (right), Chief of the Statistics and Market News Division for the Southeast Region of NMFS, was recently awarded a pin in a ceremony in St. Petersburg, in honor of his thirty years of military and civilian service with the Federal government. After several years of military service, Mr. Snow started his civilian career as a biological aid with the Fish and Wildlife Service in New Bedford, Massachusetts, April 1947. Regional Director Richard T. Whiteleather is shown making the presentation.

Headquarters employees receiving length-of-service awards during the second quarter of 1971 were: 40 years - Price L. NEAL. 35 years - John M. AMSTADT, John C. HURLEY, Casper S. SALISBURY, and Lowell D. FAIR. 30 years - Arlin E. SNIDER, Frederick SERA, Warren W. BUCK, Jr., William E. JONES, Charles J. MOLLOY, Morris K. SINGER, Robert L.J. DULANEY, William BRENNEMAN, Joseph JUDSON, George B. SCOTT, Frances F. SWIM, Max W. MULL, George GEORGEVITCH, Lloyd W. VANDERMAN, Dewitt N. MORGAN, Donald R. MUNRO, Jr., Harold M. JORDAN, Joseph W. SMITH, Peter T. SINTETOS, Victor QUINCHETTE, William D. HARRIS, Finis L. SMITH, Samuel BLANKENBAKER, William O. HALLVIN, Cyrus R. HELMER, Leonard L. DREIFUSS, Frank G. HOLDAMPF, Robert Ollie LEE, James ANSPACH, William E. RICHARDS, Merle J. WAGNER, Sydney R. GRAHAM, John M. BAYHA, Craig H. RUSS, Spellman J. DIEZ, Charles E. KINCAID, James J. SCHRIVER, Harold HARSHBARGER, Robert L. HAWKINS, Walton FOLLANSBEE, Leonard D. HATTON C. Doyle INNIS, and Elizabeth HARVISON. 25 years - Joseph H. JACKSON, Turner J. LLOYD, William G. MANUEL, George W. KAHLER, Frances B. LEES, Robert J. GRACE, Alan N. SANDERSON, William F. JOHNSON, John F. MILLER, Charles GILLILAND, Dorothy B. JACKSON, William L. GREER, Frederick KNOWLES, Bernice H. JOHNSON, Robert B. ROLLINS, Georgia CHESLEY, Robert W. HUMMER, Marcella D. THOM, Frank J. SMIGIELSKI, and Arthur F. KRUEGER. 20 years - Mary G. SUGRUE, Donald P. MARTINEAU, Jeanette C. WATERS, Don L. SCOTT, Sarah J. KROLL, John C. O'BRIEN, Alta M. TUTOR, Irene M. LYST, Robert W. McCASLIN, James R. NEILON, Joseph H. DESROCHES, Cadesman POPE, Francis ROUSE, John J. FEDAK, Clarence L. STEERE, Charles F. KNUDSON, Eugene B. FANIANO, Donald D.J. CARRIER, Regina L. WHITE, William A. MAHONEY, Meredith R. ANTHONY, Chester G. JONES, Donald P. MURRAY, Albert CAPERS, James HASKINS, Matthew WOODY, Bedna L. OBIE, V. Susan MICHAEL, Charles D. KEARSE, Nelson C. ROSS, Jr., Rene McCORN, Jr., Conway G. LENZ, Mary R. BLIZZARD, Mary C. ROBERTS, Robert L. EDWARDS, Hugh McCULLOUGH, and Harold W. TARR.

Three Extinguish Ship Blaze

Pharmacist's Mate Raymond Waters, Robert Doran of the emergency squad and William Guthrie recently received commendations for extinguishing a blaze aboard the NOAA Ship DISCOVERER. The ship was cruising in the Atlantic off Florida when some towels in the ship's main clothes dryer caught fire. The fire burned 15 minutes and smoke seeped into the mess halls on E deck before the towels could be removed and dumped over the side.

NWS Man Attends Moscow Meeting

Frederick G. Finger, Chief of the Upper Air Branch of the NWS National Meteorological Center, participated in the joint USA/USSR space cooperation meetings in Moscow early this month.

Correction

The July 30 NOAA WEEK item on the ADMIN awards should have included LeRoy S. Farr, budget analyst, among those receiving awards.

Items to be considered for publication in NOAA WEEK should be submitted to: Office of Public Affairs, NOAA, Room 221, Bldg. 5, Rockville, Md. 20852. Phone (301) 496-8243.

National Oceanic and Atmospheric Administration

ERRATA NOTICE

One or more conditions of the original document may affect the quality of the image, such as:

Discolored pages
Faded or light ink
Binding intrudes into the text

This has been a co-operative project between the NOAA Central Library and the Climate Database Modernization Program, National Climate Data Center (NCDC). To view the original document, please contact the NOAA Central Library in Silver Spring, MD at (301) 713-2607 x124 or Library.Reference@noaa.gov

HOV Services
Imaging Contractor
12200 Kiln Court
Beltsville, MD 20704-1387
July 23, 2010