



NOAA WEEK

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

President Signs Commerce Appropriation Bill

On October 21, the President signed the Department of Commerce Appropriation Act for Fiscal Year 1971, which includes the ESSA programs merged into NOAA.

The FY 1971 Appropriation Act includes program increases totaling \$28,540,000. The increases in the Salaries and Expenses appropriation total \$7,085,000 to improve public weather forecasts, establish and operate additional urban air quality control units, improve the basic observing and communications networks; and to provide funds in support of the work of the Water Resources Council; to inaugurate a series of coastal evacuation maps along the Atlantic and Gulf Coasts for use during storm emergencies; to provide funds for an effective level of funding for vessels and equipment maintenance, and complete the funding of the ocean survey ship RESEARCHER.

The increases in the Research and Development appropriation total \$1,710,000 to expand weather modification studies, improve severe storms forecasting, extend forecasting and data-gathering programs on a worldwide scale; for water resources data acquisition systems studies; and for technological satellite applications to additional parameters and development of sensing devices.

The increases in the Facilities, Equip-

ment, and Construction appropriation are for additional equipment and instrumentation needed in the areas of weather modification, air pollution, and the basic observation network, for additional computer capacity in weather analysis and forecasts and a start toward modernization of the climatological data banks; for upgrading the hydrologic network and additional flash flood warning equipment; for instrumentation for seismological surveys and a five-color press for aeronautical chart production.

The increases in the Satellite Operations appropriation total \$17,541,000 to continue procurement of two ITOS spacecraft, initiate procurement of one GOES spacecraft, and fully fund one ITOS launch and two launch vehicles; for around-the-clock operation and maintenance of these facilities; procurement of ground equipment for the ITOS and GOES systems, and procurement of ground equipment essential to the operations of ATS-1 and ATS-III; and to cover continued operation and maintenance of the data processing facility and the Washington-Moscow communications link, procurement of GOES data handling equipment, and items of specialized equipment needed for the display and use of data from ATS-I and ATS-III.

(Dollar amounts in thousands)

<u>Appropriations</u>	<u>FY 1970 Adjusted Requirements</u>	<u>FY 1971 Appropriation</u>	<u>Increase over 1970</u>
Salaries & Expenses.....	\$133,628	\$140,713	\$7,085
Research & Development..	25,790	27,500	1,710
Satellite Operations....	7,459	25,000	17,541
Facilities, Equipment, and Construction.....	<u>2,161</u>	<u>4,365</u>	<u>2,204</u>
Totals.....	169,038	197,578	28,540

Subsidy Granted for Building Specially Designed Trawler

A construction-differential subsidy contract between the Secretary of Commerce and Trawler Fordham, Inc., of Rockland, Maine, provides a 47 percent subsidy for an \$836,366 steel stern trawler. The contract was executed under the U. S. Fishing Fleet Improvement Act, administered by the National Marine Fisheries Service. The trawler, an 118.5 foot length-over-all vessel, will be built by Jakobson Shipyard, Inc., of Oyster Bay, New York, and will be operated for groundfish (fish that live on the ocean floor), lobsters, scallops, and flounders.

Source Given for Great Lakes Charts

To obtain historical charts offered for sale by the Lake Survey Center, write to: Public Affairs Office, National Ocean Survey, Lake Survey Center, 630 Federal Building, Detroit, Michigan 48226. (See NOAA WEEK, page 7, Oct. 30, 1970). Make checks payable to Department of Commerce.

Wisner Is Missouri State Climatologist; McQuigg Moves to EDS Research Post



Warren M. Wisner assumed duties as NOAA State Climatologist for Missouri on October 19. Mr. Wisner succeeds Dr. James D. McQuigg, who became research meteorologist, Environmental Data Service, assigned to the University of Missouri. Mr. Wisner

has spent the past year with the National Climatic Center on detail to the Barbados Oceanographic and Meteorological Analysis Project (BOMAP) field office, Bay St. Louis, Mississippi. He received a bachelor's degree in meteorology from the University of Washington in 1961, and a master's degree in atmospheric science from the University of Missouri in 1969. Mr. Wisner joined the National Weather Service at Grand Rapids, Mich., in 1961. He also served at Chicago, Ill., and Omaha, Nebr.

Commander Burroughs Becomes Deputy Director Of NOS Executive/Technical Services Staff



Commander Charles A. Burroughs, of the NOAA Corps, has been named Deputy Director of the Executive and Technical Services Staff, National Ocean Survey. The staff provides executive assistance to the NOS Director and technical services in support of programs throughout the agency. Cdr. Burroughs, former NOS Program Officer, succeeds Cdr. James P. Randall, who is now Executive Officer of the Seattle-based NOAA Ship OCEANOGRAPHER.

D.C.-Area Combined Campaign Exceeds Quota

The 1971 Combined Federal Campaign for the National Capital Area has ended. More than 2500 NOAA employees in the greater Washington, D. C., area contributed \$93,722 to the drive or 118 percent of the quota. The Department of Commerce total exceeded one half million dollars.

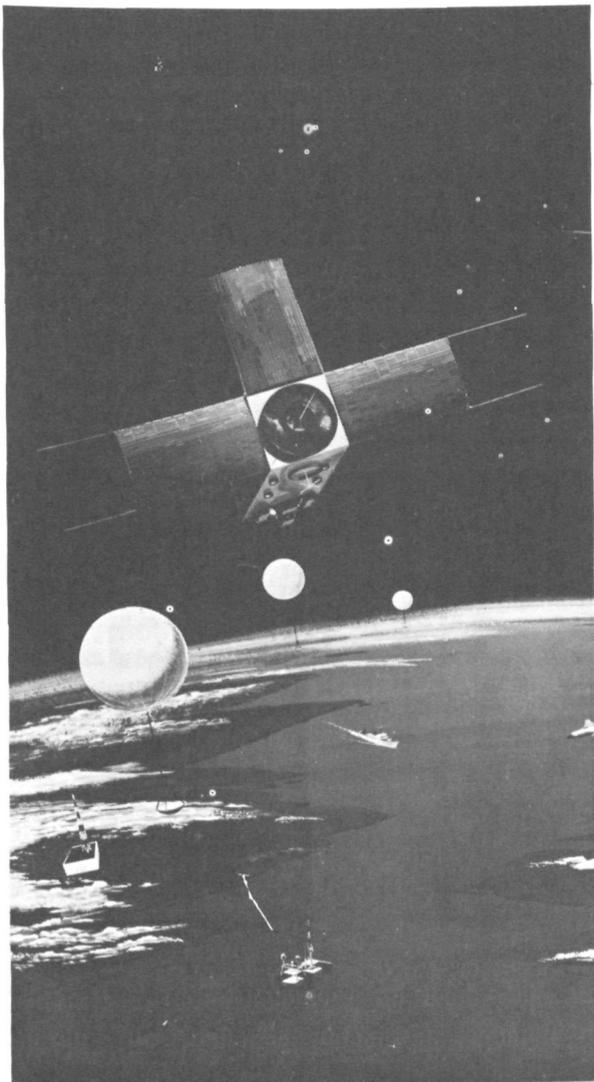
Illinois-to-Minnesota Survey Completed

A National Ocean Survey team, headed by Robert R. Gerrish, has completed a four-state, 450-mile geodetic survey from Davis Junction, Ill., to St. Cloud, Minn. The area was last surveyed more than 70 years ago. The lengthy survey started at Davis Junction last April, progressing generally along the Mississippi River to St. Cloud.

Aviation Seminar Scheduled in Norfolk, Va.

The Richmond, Va., Weather Bureau Office has scheduled its annual all-day aviation weather seminar in Norfolk, Nov. 8. Weather Bureau officials scheduled to speak to the gathering of private pilots from Virginia and surrounding states include Stanley J. Lacy and Samuel V. Wyatt, WB headquarters; Jerrold A. LaRue and Philbert G. Stewart, Washington (D.C.) Forecast Office; and Fred L. Horton, Roanoke, Va., Weather Bureau Office. Also slated to speak to the pilots are representatives of the Federal Aviation Administration.

First NOAA Spacecraft Set for Launch Next Week



NOAA's first Improved TIROS Operational Satellite (ITOS-A) is scheduled for launch next week from NASA's Western Test Range, Lompoc, California. After successfully entering orbit, approximately 910 statute miles above the earth, the ITOS spacecraft will be designated NOAA-1.

The omnibus ITOS spacecraft contains four camera systems-- two for global picture coverage of the earth's weather and two for immediate transmission of cloud photographs directly to receiving stations around the world. These Advanced Vidicon Camera Systems (AVCS) and Automatic Picture Transmission (APT) systems proved their reliability and effectiveness in the ESSA spacecraft of the earlier TIROS Operational Satellite system.

Instrumentation of the new ITOS includes scanning radiometer systems that provide data in both visible and infrared channels. The visible channel is an alternate source of daytime cloud pictures. The infrared channel affords cloud pictures at night as well as during the day.

Nighttime satellite observations will be available to National Weather Service forecast offices throughout the nation for use in preparing early morning forecasts. With the spacecraft's ability to photograph the dark side of the earth, the entire globe will be observed twice each day by both stored and direct read-out systems, doubling the coverage formerly provided by operational weather satellites.

The scanning radiometer also will measure surface temperatures in cloud-free areas. NOAA's Satellite Service has developed a technique for preparing global maps of sea-surface temperatures from satellite infrared measurements, and expects to begin issuing such maps on a routine operational basis in 1971.

Unlike previous operational vehicles, ITOS is large enough to house additional environmental sensors. The first NOAA spacecraft contains a flat plate radiometer to provide data on the earth's heat balance, and a solar proton monitor to detect the arrival of energetic solar protons in the vicinity of the earth. Solar proton data will be processed by the National Environmental Satellite Service and transmitted to NOAA's Space Disturbances Laboratory at Boulder, Colo., for use in issuing warnings of solar storms.

The operational satellite system, established by ESSA in 1966, has provided a routine service of weather observations over the entire earth every day. Photographs transmitted by the Automatic Picture Transmission system are received by more than 500 specially equipped ground stations around the world, for use in issuing local forecasts and warnings for the public and for aviation, marine, agricultural and other interests. Pictures taken by the Advanced Vidicon Camera System are stored for readout by NOAA's Command and Data Acquisition stations at Fairbanks, Alaska, and Wallops Station, Virginia, and transmission to National Environmental Satellite Service headquarters at Suitland, Md. NMC also makes extensive use of satellite data.

Lake Survey Center Scientists Seek To Extend Navigation Season



Lake Survey Center Igloo on Whitefish Bay, Lake Superior.



Lake Survey Center scientists cut ice samples from Lake Superior.



Geologist Myroslava Stefaniuk examines ice under polarized light in Lake Survey's cold room.

During the winter months, ice effectively halts most commercial shipping, except in the southernmost parts of the Great Lakes. Iron ore and grain movement out of, and coal shipments into Lake Superior plus other water transportation of materials and goods are stopped during the annual freezeup. Key "bottleneck" areas are the St. Marys River which joins Lake Superior and Huron, Lake Superior's Whitefish Bay and portions of the St. Lawrence Seaway.

Lake Survey Center's Ice and Snow Branch scientists are working on the problem from a basic research point of view. The aim is to eventually extend the navigation season on the Lakes. In recent years field surveys on Whitefish Bay's Ice sheet have been conducted. Igloos are built to house testing equipment and ice samples are cut and sent to Lake Survey's unique ice laboratory for detailed analysis. Ice flights are made periodically during the winter to check and record growth, extent and eventual decay. Satellite photography is also used in Ice and Snow Branch work.

EDS Aids Canadian Weather Service In Preparation of Great Lakes Atlas

The Environmental Data Service and NOAA State Climatologists have completed a review of 56 charts prepared by the Canadian Meteorological Service for a climatological atlas of the Great Lakes. The atlas will be published by Canada, with a limited number of copies made available to the United States through EDS.

E.B. Fawcett Chairs WMO Working Group

Edwin B. Fawcett, chief of the Analysis and Forecast Division of the National Meteorological Center, National Weather Service, has taken on a new role in the World Meteorological Organization. On Oct. 27, Mr. Fawcett accepted appointment as chairman of WMO's working group on the Global Data Processing System, Commission for Synoptic Meteorology.

Haddock Fishing Suspended on Georges Bank And Gulf of Maine as Conservation Measure

The open fishery for haddock on Georges Bank and in the Gulf of Maine has been closed for the remainder of 1970.

According to the National Marine Fisheries Service, the closure is a conservation measure established by 15 member nations of the International Commission for the Northwest Atlantic Fisheries. A haddock quota of 12,000 metric tons for the year was based on scientific evidence presented by NMFS to the Commission that the adult population of haddock was at a dangerously low level. The catch restriction is an effort to retain a spawning population to rebuild the stocks, and to provide a limited harvest for this valuable New England fishery.

Dr. Stewart Named to Governor's Committee

Dr. Harris B. Stewart, Jr., Director of NOAA's Atlantic Oceanographic and Meteorological Laboratories, Miami, has been appointed to serve on the Governor's Committee on Employment of the Handicapped.

Foreign Meteorologists Study at Asheville

Three foreign meteorologists have been visiting EDS' National Climatic Center in Asheville, N. C., for several weeks under World Meteorological Organization fellowships to study data processing for use in their countries and projects.

(Left to right): Enis Vidinli of Turkey, Tarif Shakir-Khalil of Egypt, and Leon Olivares of Nicaragua. Both Mr. Olivares and Mr. Vidinli will return to their home countries to put into practice the knowledge gained at the Center, but Mr. Shakir-Khalil will return to Uganda, where he is working on an international project to halt the loss of water from the principal sources of the Nile River.



Radar and Atmospheric Sounding Facility Dedicated in Tennessee

A new weather surveillance radar and atmospheric sounding facility, built by the National Weather Service at Old Hickory, Tenn., was formally dedicated today. The weather observatory is a major step in completing the radar weather surveillance over Tennessee and adjacent areas. The radar set, with ability to "see" storms at distances in excess of 200 miles, will soon be joined by two other weather radars in the State. Near Memphis, a set released from the Navy is in the final phases of refurbishing before being restored to service. Within 18 months, a weather radar installation on Holston Mountain in far East Tennessee is expected to be in operation.

The principal use of the Old Hickory and other Tennessee weather radars will be to aid weather forecasters in warning of severe storms and to detect locally heavy rains in sufficient time to issue flash flood warnings. Also, twice daily measurements of temperature and humidity are made to heights in excess of 60,000 feet, using balloon-borne instruments. The Old Hickory observatory will have direct voice communications with the other weather radar sites in the State and also to the offices of the National Weather Service at Knoxville, Chattanooga, Nashville, and Memphis. Supervisor of the observatory's seven-man staff is Orvil L. Robinson.

NMFS Data Processing Division Transferred

The Division of Data Processing, Assistant Administrator for Administration, National Marine Fisheries Service, was abolished, effective Oct. 18. The Division's personnel and functions were transferred to NOAA's Management Systems Division, Assistant Administrator for Administration and Technical Services.

Mann to Head Stampede Pass Weather Office

Fred H. Mann has been selected official in charge of the National Weather Service Office at Stampede Pass, Washington. Mr. Mann has been employed by the NWS since March of 1969. He served in the U.S. Air Force as a weather observer for four years.

Burnash Awarded Bronze Medal



Robert J. C. Burnash (right), principal assistant of the National Weather Service's Sacramento, Calif., River Forecast Center since 1963, has received the Department of Commerce Bronze Medal. Mr. Burnash was cited "for exceptional technical competence and leadership in the field of hydrology as it applies to river forecasting." A U.S. Navy veteran, he joined the National Weather Service at Cincinnati, Ohio, in 1957. Presenting the award is Hazen H. Bedke, NWS Director, Western Region.

NMFS Scientists Join German Research Ship On Georges Bank Exploratory Fishing Voyage

Two National Marine Fisheries Service scientists recently participated in an exploratory fishing cruise conducted by the West German research vessel WALTER HERWIG off the Atlantic Coast. Scouting for commercially exploitable herring stocks on Georges Bank was the first priority. The results were radioed to a German mothership for relay to other West German trawlers on the Bank. In the Gulf of Maine, the WALTER HERWIG took herring samples for biological research. The West German Fisheries Research Board is in the process of evaluating biological, hydrographical, freezing, and salting tests made during this cruise. The results will be shared with the United States. During future cruises, the West German Board plans to explore the effects of nutrients on herring stocks in waters off the East Coast of the United States through plankton catches.

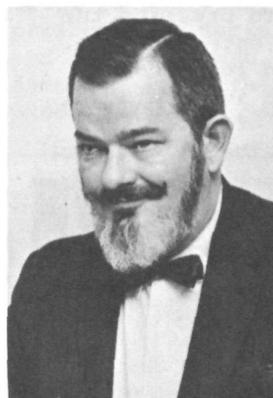
New NOS Division Chief Named

Kendall L. Svendsen has been appointed chief of the National Ocean Survey's Geomagnetism Division. The new division chief has been with the federal government since 1946, beginning as a mathematician with the National Ocean Survey. During his 24 years with the agency, he advanced to chief of the Geomagnetic Processing Section in 1957 and to chief of the Geomagnetic Analysis Branch of the Office of Seismology and Geomagnetism in 1963. Following extensive foreign travel in stimulating exchange of data and technical knowledge, he received the Department of Commerce Bronze Medal for outstanding ability and accomplishment in promoting international cooperation in the field of geophysics.

ERL Physicist Leads Seminar at Space Center

Dr. Lothar H. Ruhnke, supervisory physicist at ERL's Atmospheric Physics and Chemistry Laboratory, Boulder, Colo., presented a three-day seminar on atmospheric electricity last week at the Kennedy Space Center. The seminar was attended by more than 30 Center staff members. The interest in atmospheric electricity was triggered by an incident last November in which the Apollo 12 Saturn rocket encountered lightning discharges during its first minute of flight.

Tocher Represents Seismological Group In National Research Council Division



Dr. Don Tocher, Director of ERL's Earthquake Mechanism Laboratory in San Francisco, has been named to represent the Seismological Society of America in the Division of Earth Sciences of the National Research Council. The appointment ends June 30, 1973. Dr. Tocher previously served on the Seismological Society's board of directors, executive committee, and editorial committee, and also was the Society's chairman and editor from 1957 to 1961.

Fisheries Ships on Tuna Search

Two research vessels of the National Marine Fisheries Service (NMFS) are exploring an area on the Equator about 2,000 miles south of San Diego, which is considered a likely region for concentrations of skipjack tuna.

Yellowfin and skipjack are the two main species taken by U.S. flag tuna vessels, many of which are based in San Diego and San Pedro.

The tropical yellowfin tuna fishery, however, is based on a regulated resource with an annual catch quota, and the tuna fleet has a serious problem finding alternate resources.

Some boats can turn to the late summer temperate tuna fisheries; some can fish the eastern tropical Atlantic; but the most important alternative resource, in the view of fishery biologists, is the stock of oceanic skipjack in the eastern Pacific---a resource that is both unregulated and underfished.

The TOWNSEND CROMWELL, from the NMFS laboratory at Honolulu, and the DAVID STARR JORDAN, from the NMFS laboratory at LaJolla, Calif., are exploring the target area to determine whether skipjack tuna are abundant there under fishable conditions.

The CROMWELL was scheduled to go into the area first to make a rapid north-south survey, measuring temperatures, salinity, oxygen, surface chlorophyll and other oceanographic features.

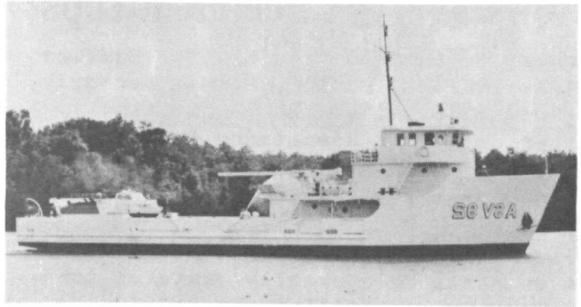
Information will be radioed to the JORDAN, and both ships will then proceed to look for skipjack in likely places, using electronic fish-finding apparatus, trolling gear, and mastman.

One member of the scientific party will maintain a watch for birds and porpoises often associated with tuna.

Lowell D. Fair Heads Geodetic Field Party

Lowell D. Fair has been named chief of the National Ocean Survey's Geodetic Field Party G-18. Mr. Fair joined the NOS in 1942. He has served on various geodetic field parties and spent many years at Cape Kennedy, Fla., with the NOS detachment. His most recent assignment was with the Geodesy Division at Rockville, Md. Mr. Fair's party is presently in South Carolina.

FERREL Completes N.Y. Survey



NOAA Ship FERREL

The NOAA Ship FERREL, the nation's only tidal current survey vessel, has completed a ten-day survey of the speed, direction, and changes in the currents of the East River in New York. The task of the 133-foot, 289-ton vessel was to determine the best time for placing four giant tubes for the new 63rd Street subway tunnel. Prior to the East River survey, the FERREL did extensive current studies in Penobscot Bay, Maine. Cdr. Richard J. DeRycke is the ship's commanding officer.

Miami Paper Features Daily Satellite Photo

The Miami NEWS began carrying, as a daily feature, the satellite view of cloud systems over portions of the Western Hemisphere, October 19. Taken directly from ATS-3 (Applied Technology Satellite) photographs produced at the National Hurricane Center, Miami, the newspaper will be printing those sections most interesting to its readers, which includes most of the United States, the Caribbean Sea, Gulf of Mexico, and Western North Atlantic.

Augusta, Ga., Weather Service Is Century Old

The National Weather Service office at Augusta, Ga., held Open House on November 1 commemorating 100 years of weather service in the local area. On October 15, 1870, the War Department instructed Observer-Sergeant James R. Allen, Signal Service, U.S.A., at Augusta as follows: "The transmission of Weather Reports by telegraph will commence on the morning of the 1st of November," thereby creating one of the oldest and continuous weather services in the Southern Region and in the nation. From its establishment to the present, about 117 names appear on the roster of the local Weather Service records.

America's Cup Race Officials Rate Boston Weathermen 'Tops'

Robert E. Lynde of the Weather Service Forecast Office, Boston, Mass., recently received a letter of thanks for the Weather Service's assistance to the America's Cup competition. The letter from the New York Yacht Club Race Committee, said in part:

"There are a great many people to whom we shall be eternally grateful for their strong and willing support during the summer of 1970's America's Cup Trials and Match. You and your associates at the Weather Bureau rate very near the top of any such list. Your sound predictions were invaluable to our operations."

Summer Employment Program Announced

The Civil Service Commission has announced the 1971 Summer Employment Program. The examination will be given nationwide at more than 1,000 locations. Students who wish to take the test to be given on January 9 must apply by December 4; those who wish to take the February 13 test must apply by January 8; and those who wish to take the March 13 test must apply by February 3. Applications postmarked after February 3 will not be accepted. Applicants who passed the test last year need not take the test again unless they wish to improve their scores. They will automatically receive a form from the Civil Service Commission to update their application and indicate their availability for 1971 summer employment.

Students with at least two years of college can qualify on the basis of outstanding scholastic achievement without taking the written test. Complete information is contained in Announcement No. 414, Summer Jobs in Federal Agencies, which may be obtained from any Civil Service Commission area office or headquarters, any major post office, most college placement offices, and from the NOAA Personnel Division (AD42), Rockville, Md.

Two Delaware Bay Wrecks Found By Survey Ships RUDE and HECK

The NOAA Ships RUDE and HECK have completed their season of wire drag operations in Delaware Bay with the location of two more wrecks--the 70-foot fishing vessel VENTURE and an unidentified fishing vessel. (Earlier in the season, a 19th century sailing vessel was discovered in the Bay.) Cdr. Merritt N. Walter, commanding officer of the two NOAA ships, said the unidentified vessel apparently suffered an explosion, which broke her in half. Cdr. Walter estimated that the wreck had been under water for about two years. The NOAA ships have returned to their base in Norfolk, Va.

Mobile Unit in Clean Air Week Activities

As part of the national recognition given "Clean Air Week," sponsored by the Air Pollution Control Association, one of the Weather Service's air pollution mobile units visited the Air Quality Monitoring Station in Washington, D.C., Oct. 26. In a demonstration of the meteorological support currently being given pollution monitoring and control agencies in five eastern population centers, the mobile unit launched a balloon-borne radiosonde which transmits information on pressure, temperature, humidity and wind as it rises through the atmosphere. At the same time, the Monitoring Station's personnel were making measurements of pollutants at ground level. Representative of the Mayor's office and other dignitaries were present. The demonstration was repeated at the Fairfax (Va.) County Office Building on Oct. 28. Lewis H. Nagler of the Weather Service's Forecast Office in Washington was in charge of both mobile unit demonstrations.

Dr. Frederick W. Brown, NOAA Retiree, Dies

Dr. Frederick Winfield Brown, retired chief planning analyst in NOAA's Office of Plans and Programs, died in Rockville, Md., Oct. 24. Dr. Brown, who retired in 1967, had been honored during his career by both the Departments of Commerce and Interior for superior accomplishment. He received the Department of Commerce Gold Medal for exceptional service in 1964.

Items to be considered for publication in NOAA WEEK should be submitted to: Office of Public Information, NOAA, Room 804, Bldg. 5, Rockville, Md. 20852. Phone (301) 496-8243.

National Oceanic and Atmospheric Administration

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July 23, 2010