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# NOAA WEEK

April 23, 1970  
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U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

## Department Honors NOAA Employees for Achievement



Stanley L. Rosenthal



Guy H. Dorsey



Harold L. Frost

Seven Gold Medals and twenty-four Silver Medals were awarded to NOAA employees at the Department of Commerce's 22nd Annual Honor Awards Program, October 21.

Secretary of Commerce Maurice H. Stans presented Gold Medals, the highest honor given by the Department, to:

Harold A. Bedient, Chief, Data Automation Division, National Meteorological Center, National Weather Service, for his role in the development of automatic weather analysis, data processing, graphics, and communications. Mr. Bedient was commended for his contributions to the technology of automatic data processing, the development of practical automatic recognition, and editing of meteorological data which were never designed for such purposes.

Stuart G. Bigler, Chief, Sounding Systems Branch, National Weather Service, and newly appointed Director of the Alaska Region for his outstanding leadership in establishing the nation's weather radar network. He played a leading part in establishing the Weather Service's western radar network, which uses Federal Aviation Administration Air Route Traffic Control radars for weather observation

when air traffic loads permit. Mr. Bigler also has provided leadership in the development of improved techniques in radar data acquisition, including remoting and the use of commercial telephone lines to provide radar displays from distant sites.

Guy H. Dorsey, Acting Chief, NOAA Personnel Division, for outstanding work as one of the Department's top personnel officers. Mr. Dorsey has served continuously in the Commerce Department since 1935, with the exception of a tour of duty with the Navy from 1943 to 1946. In recent years, his expertise in personnel matters has proved extremely valuable in a major reorganization of the former Weather Bureau and, in 1965, the creation of the Environmental Science Services Administration.

R. Cecil Gentry, Director of the National Hurricane Research Laboratory, Miami, Fla., and of Project Stormfury, for outstanding scientific ability and program leadership as Director of Project Stormfury during the 1969 hurricane season. The results of this joint project of the Departments of Commerce and Defense in seeding Hurricane Debbie in August 1969 strongly suggest that man is on the threshold of being able to moderate

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## Commerce Awards *(continued)*

the intensity of these destructive storms.

Harold L. Frost, Meteorologist in Charge, Weather Service Office, Lubbock, Texas, for his leadership in the administration of the weather warning program at Lubbock, where he has developed and maintained an extraordinarily competent severe-weather warning service. Outstanding skill and action were displayed by the Lubbock Weather Service Office in issuing warnings more than one hour in advance of a tornado which roared through the downtown area of Lubbock on May 11, 1970.

Stanley L. Rosenthal, Chief, Theoretical Studies, National Hurricane Research Laboratory, Miami, Fla., for outstanding work in hurricane modeling. Dr. Rosenthal has produced the first numerical model of a hurricane that has many of the characteristics observed in nature's storms and can be used to simulate hurricane modification experiments. His model has been used in conjunction with field experiments, as well as for the design of new experiments and techniques for Project Stormfury.

Kirk Bryan and Syukuro Manabe, Research Meteorologists, Geophysical Fluid Dynamics Laboratory, Princeton, N.J., for an outstanding contribution to the problem of mathematically modeling the joint atmosphere-ocean system. The research of Dr. Manabe and Dr. Bryan in simulating joint large-scale circulations of the atmosphere and ocean marks a significant milestone in the history of attempts to model the earth's fluid envelope. Their achievement provides the necessary framework for future studies of natural climatic change and of climate modification caused by human activities.

Silver Medals were awarded to:

Glenn Ball, Chief, Instrument Approach Procedure Chart Branch, National Ocean Survey, for a major contribution toward standardization of the national joint civil-military instrument approach procedure charting programs.

Philip Brandis and Charles Carpenter, Data Automation Division, National Weather Service's National Meteorological Center, for the development of a new communications interface between the weather services of the United States and Canada.

Max M. Chesy, NOAA Visual Services Branch, for outstanding work as a designer and illustrator, and exceptional endeavor in the planning, designing, and

execution of publications promoting better understanding of the Department's scientific services.

Hilmer A. Crumrine, National Severe Storms Forecast Center, National Weather Service, Kansas City, Mo., for exceptional warning and coordination services during several devastating tornado outbreaks.

Spellman J. Diez, Systems Manager, Distribution Division, National Ocean Survey, for centralizing and developing major improvements to the national aeronautical and nautical chart distribution system.

Agnes B. Erkens, Budget Analyst, Budget Division, for outstanding work in the financial management of interagency programs.

Earl W. Estelle, Executive Assistant to the Associate Director for Meteorological Operations of the National Weather Service, for creating a comprehensive Directives system for the weather service, replacing the many circulars, memoranda, and manuals formerly used by the weather service.

Dale Gough, Chief, Personnel Services, Environmental Research Laboratories, Boulder, Colorado, for outstanding leadership in and major contributions to the Laboratories' personnel program.

Arthur Gustafson, Meteorologist in Charge, Weather Service Forecast Center, San Francisco, California, for his superior leadership of the Center, which has an area of forecast responsibility from the Equator to the Gulf of Alaska, and from the International Dateline to western Nevada.

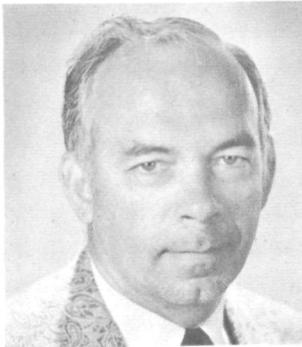
Commander Richard Houlter, Chief, Photography Division, National Ocean Survey, for outstanding administrative leadership in the application of recent technological advances to a State cooperative program



Kirk Bryan and Syukuro Manabe



R. Cecil Gentry



Harold A. Bedient



Stuart G. Bigler



Douglass D. Crombie

for Tidal Datum Plane Determinations and mapping of seaward boundaries using infra-red and color photography.

Marvin N. Hunter, retired Aviation Forecaster at the Weather Service Forecast Office, Washington, D. C., for his achievements in improving the accuracy and effectiveness of aviation and marine forecasting programs.

Lieutenant (j.g.) Robert C. Husted, Jr., NOAA Commissioned Corps, assigned to the NOAA Ship McARTHUR, based at the Pacific Marine Center, Seattle, Wash., for heroic action resulting in timely medical attention for a wounded man and quick apprehension of a gunman.

Frank Lewis, Systems Development Office, National Weather Service, for his skill in applying computer programming techniques to a variety of difficult problems, and for developing and implementing a completely automated system for forecasting maximum and minimum temperatures at 131 cities in 48 states.

Stephen Lichtblau, retired Meteorologist in Charge, Weather Service Forecast Office, New Orleans, La., for the effective manner in which he fulfilled his responsibilities in this post and for issuing warnings of great benefit to civil defense, state law-enforcement organizations, and news media in reducing loss of life during devastating hurricanes.

Grady F. McKay, Chief, Data Reduction Branch, National Climatic Center, Environmental Data Service, Asheville, N.C., for his leading role in the conception, implementation, and operation of a centralized consolidated computer facility for processing NOAA/Air Force Data at the center.

Howard J. Mason, Jr., Chief, Research Flight Facility, Environmental Research Laboratories, Miami, Fla., for outstanding achievements in developing the Research Flight Facility and for exceptional contributions to the success of Project Stormfury and the Barbados Oceanographic and Meteorological Experiment.

graphic and Meteorological Experiment.

Herbert W. Rahmlow, Special Assistant to the Chief of the National Weather Service's Engineering Division, for his leadership in establishing and maintaining a center for reconditioning used upper-air instruments and a technical training facility for electronics technicians.

Gerald L. Shak, Regional User Services Representative, Weather Service Eastern Region Headquarters, Garden City, N.Y., for his progressive and bold leadership in all facets of weather services, and especially for creating excellent user response and cooperation from news media.

John J. Smiles, Chief, NOAA Visual Services Branch, for organizing a highly motivated, dedicated, and skilled activity which has gained national and international prominence in the field of scientific presentations.

Mirco Snidero, Chief, NOAA Computer Division, for his expert management of complex and widely dispersed computer facilities resulting in computer rental savings totaling nearly \$3 million.

Wilmer L. Thompson, retired Director of the Weather Service's Southern Region, for his outstanding leadership in the administration of weather service programs in the Southern Region, particularly its warning programs for tornadoes and hurricanes.

Harry W. Waldheuser, Principal Assistant, Weather Service Office, St. Louis, Mo., for his excellent work in the development of forecast and warning programs, especially in the forecasting of severe weather through the utilization of radar, computer data, and local analyses.

Chalmers C. Wooden, Meteorologist in Charge, Weather Service Office, Montgomery, Ala., for his outstanding skill and leadership in developing the cooperative Severe Weather Preparedness Planning Program in Alabama.

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Medal winners, with Dr. Robert M. White, Acting Administrator. Seated, left to right: S. Rosenthal, H. Bedient, S. Manabe, K. Bryan, Dr. White, A. Erkens, G. Dorsey, H. Frost, R. Gentry. Standing, left to right: D. Gough, G. McKay, W.L. Woodley, H.J. Mason, S. Diez, W. Thompson, G. Shak, S. Bigler, F. Lewis, E. Estelle, A. Gustafson, C. Wooden, H. Crumrine, R. Houlder, S. Lichtblau, G. Ball, M. Snidero, J. Smiles, H. Rahmlow, M. Chesy, C. Carpenter, P. Brandis, H. Waldheuser, M. Hunter, D. Crombie, R. Husted.

Francis J. Balint, Chief of the Management and Planning Branch, NOAA Computer Division, won the Secretary's Suggestion Award for the outstanding suggestion by a Department employee during the past year. Mr. Balint's suggestion proposed converting government-owned 024 and 026 card punch machines and 056 verifying machines from 48-character-set equipment to 64 character-set equipment. This will prolong the useful life of government-owned card-punch machines by permitting their use in computer systems of modern, sophisticated design.

William L. Woodley, Research Meteorologist, Experimental Meteorology Laboratory, Miami, Fla. for outstanding work in cumulus cloud modification, relating cloud growth to rainfall following seeding.

In addition, four members of the staff

of the Institute for Telecommunication Sciences, which became part of the Department of Commerce's Office of Telecommunications last month, were honored for achievements prior to the transfer.

Douglass D. Crombie won a Gold Medal for major contributions to radio science and engineering by elucidation of VLF radio propagation characteristics and leadership of ionospheric radio research programs.

Silver Medal winners in the Institute were:

John C. Carroll for design and construction of an advanced transmission facility for research purposes.

Maurice Vetter for engineering contributions to the design and development of radio refractometers.

James M. Watts for instrumentation contributions to the field of radio propagation.

## Rear Admiral Jones To Represent Agency at Cartographic Meeting

Rear Admiral Don A. Jones, Acting Director of the National Ocean Survey, will be the agency's chief delegate to the Sixth United Nations' Regional Cartographic Conference for Asia and the Far East being held in Tehran, Iran, Oct. 24 to Nov. 7. Rear Admiral Jones will be accompanied by Frederick O. Diercks, NOS Associate Director for Aeronautical Charting and Cartography, as alternate delegate.

## NMFS Consolidates Whale Research

The National Marine Fisheries Service is consolidating its whale research with work on other cetaceans at the Fishery Oceanography Center, La Jolla, Calif., effective Jan. 4, 1971. The whale researchers now stationed at the Service's Marine Mammal Biological Laboratory, Seattle, Wash., will join another biologist presently working on porpoise research at La Jolla.

## R. Ochinero Is Named NODC Acting Director



Robert V. Ochinero, Director of the Operations Division of the National Oceanographic Data Center, became Acting Director of the Center, Oct. 19. Mr. Ochinero succeeds Dr. Thomas S. Austin, who is now Acting Interim Director of NOAA's Environmental Data Service. Mr. Ochi-

nero, who was named Director of the Operations Division in March of 1964, has served in that Division since September 1961. Before that, he was employed as an oceanographer with the U.S. Naval Oceanographic Office. He received his bachelor's and master's degree in biology from Hofstra University in Hempstead, N. Y.

## Wreck of 19th Century Vessel Is Discovered in Delaware Bay

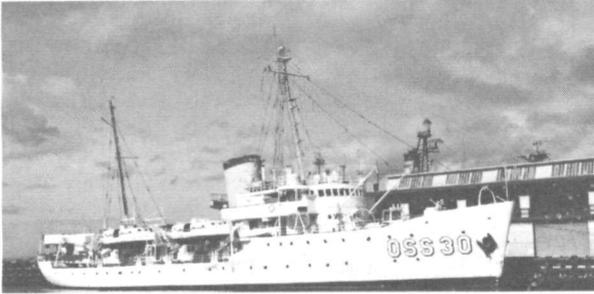


Scuba diver examines crockery brought up from ocean floor during wire drag operations of the RUDE and HECK in Delaware Bay.

NOAA Ships RUDE and HECK found the unmarked wreck of a 19th-century ship, presumably a British cargo vessel, while conducting wire-drag operations in Delaware Bay between Lewes, Del., and Cape May,

N. J. The wreck lay in 39 feet of water, about 15 miles from Lewes, 7½ miles south of Cape May and 12 miles east northeast of Cape Henlopen, Del. Scuba divers aboard the ships found nothing remaining of the wreck's superstructure. Portions of the hull protruded from the bottom, and more was apparently imbedded in the mud. Lt. Cdr. Merritt N. Walter, commanding officer of the two vessels, said that he found the wreck laid open on the bottom with part of its cargo, consisting of thousands of pieces of neatly packed British-made chinaware, exposed. The remainder of the cargo was imbedded in the bottom and covered with coral and silt. On the basis of an examination of the chinaware by Jefferson Miller, curator of ceramic history of the Smithsonian Institution's National Museum of History and Technology, it was concluded that the wreck postdated 1876. Miller said practically all the chinaware was English "ironstone," heavy, durable earthenware made for everyday use and popular throughout the 19th century and to the present. Lt. Cdr. Walter said the cargo, which also included 19th-century washbowls and pitchers, and the debris were all in one pile about eight to ten feet tall and 25 to 30 feet across.

## NOAA Ship PATHFINDER Crew Cited for AQUARIUS Rescue



NOAA Ship PATHFINDER



Capt. H. R. Lippold

Capt. Herbert R. Lippold, Jr., commanding officer of the NOAA Ship PATHFINDER, his officers and crew have been commended by Acting Director of the National Ocean Survey Rear Admiral Don A. Jones, for the assistance they rendered to a vessel drifting rudderless toward the rocky shores of the

Barren Islands, Alaska, Sept. 22. The PATHFINDER remained with the stricken vessel, the F/V AQUARIUS, for more than 20 hours until she made repairs and was out of danger. Rear Adm. Jones wrote Captain Lippold: "The expert seamanship displayed in the accomplishment of this lifesaving mission reflects great credit upon yourself, your officers, your crew, and the Survey."

### Public School Volunteer Teachers Wanted

A volunteer service program will soon be implemented for professional employees of NOAA. The program, Project 400, utilizes professional employees from government and industry as part-time volunteer instructors in the D.C. Public Schools. Those who volunteer will work closely with a professional teacher for at least one semester. Actual classroom time could range from one to five hours per week, and employees can be granted up to five hours per week of administrative leave to participate, with supervisory approval. Interested employees should contact the NOAA Personnel Division, AD42, as soon as possible for application forms.

## National Oceanographic Data Center Sponsors CICAR Bibliography Volume

As part of its contribution to the Cooperative Investigation of the Caribbean and Adjacent Regions (CICAR), the National Oceanographic Data Center sponsored the preparation of Volume I of the CICAR Bibliography on Meteorology, Climatology, and Physical Chemical Oceanography. This volume contains more than 3,000 references (2,000 with abstracts) on the above-mentioned subjects in the Caribbean Sea, Gulf of Mexico, Greater and Lesser Antilles Regions, and the adjacent coastal areas of North Central and South America. Subject, geographical and author indexes are included in the publication.

Volume I was prepared by the American Meteorological Society from their files held in the Meteorological and Geostrophical Abstracts Office and from files of Government libraries in the Washington, D. C., area. The Bibliography is available at \$7.00 a copy; the indexes to the Bibliography are \$6.00 a copy, and the complete set is \$13.00. Write to: National Oceanographic Data Center, Publications and Media Branch, Bldg. 160, Washington Navy Yard, Washington, D. C. 20390.

### NOIC Evaluates Oceanographic Instrument

The Testing Division of the National Oceanographic Instrumentation Center recently completed evaluation tests of the Geodyne Model 775-21 Conductivity, Temperature, Depth System at the Center's laboratory. This system measures water conductivity from 25 to 65 millimhos/centimeter, temperature from -2 to +35 degrees centigrade, and depth from 0 to 500 pounds per square inch absolute. It utilizes the digital technique for measuring transducer output of each measurement and transmits the information to the surface by electrical cable. An Instrument Fact Sheet on the evaluation test results will be available from the NOIC Documentation Division in the near future. The Fact Sheets are distributed free of charge. To obtain them or others issued in the past, write to: National Oceanographic Instrumentation Center, Documentation Division, Bldg. 160, Washington Navy Yard, Washington, D.C. 20390.

## NOS Tide Predictions Praised By Burdwell, NWS Meteorologist

Cooperation between NOAA components, resulting in better service to the public, was described recently in a letter from G. B. Burdwell, National Weather Service advisory marine meteorologist at Newport, Oreg., to R. L. Swanson, chief of the National Ocean Survey's Oceanography Division. Mr. Burdwell cited several instances when the Ocean Survey's accurate tide predictions and observations had proved valuable in his work for the National Weather Service. On Dec. 10, 1969, the weather office in Portland, Oreg., issued a Storm Tide Warning for the Oregon coast. It was the first such warning ever issued in the Pacific Northwest and was based, in part, on an Ocean Survey prediction for an exceptionally high tide coincident with a storm due the next day. Coastal Oregon had 22 hours' notice of the approaching storm surge which reached record heights in some areas. Mr. Burdwell also pointed out that on numerous occasions he has been asked for tidal data to assist local students and others in studies including ocean pollution dispersal and estuary flushing rates. The tidal data from the Ocean Survey made an unusual contribution to the arts when the filming of "Sometimes A Great Notion," starring Paul Newman, Henry Fonda, and Lee Remick, took movie makers to the Oregon coast. According to Mr. Burdwell, \$50,000-a-day costs dictated accurate tide predictions when the company was working in the estuaries areas.

## R.O. Weedfall, State Climatologist, Appointed to Assistant Professorship

Robert O. Weedfall, NOAA State Climatologist for West Virginia, has been appointed Assistant Professor of Agricultural Engineering at West Virginia University, Morgantown, West Va. Mr. Weedfall, a Climatic Consultant to the Agricultural Engineering and the

Engineering Experiment Stations, has been teaching a graduate level course at the university.

## E. Estelle Becomes NMC Deputy Division Chief



Earl W. Estelle, former Executive Assistant to the National Weather Service's Associate Director for Meteorological Operations, has been named Deputy Chief of the National Meteorological Center's Analysis and Forecast Division. He succeeds Edwin B. Fawcett, who is now Chief of the Division. Mr. Es-

telle entered weather service in 1958 after serving in the U.S. Air Force. Earlier weather service assignments were at Newark, N. J.; the Observation and Station Facilities Division, Washington, D.C.; Sacramento, Calif., Weather Service Office; and the Planning and Systems Development Office, Washington, D. C. Mr. Estelle holds bachelor's degrees in meteorology from Pennsylvania State University and in industrial management from Fairleigh Dickinson University, and a master's degree in engineering administration from George Washington University.

## Federal Employees Health Benefits Improved

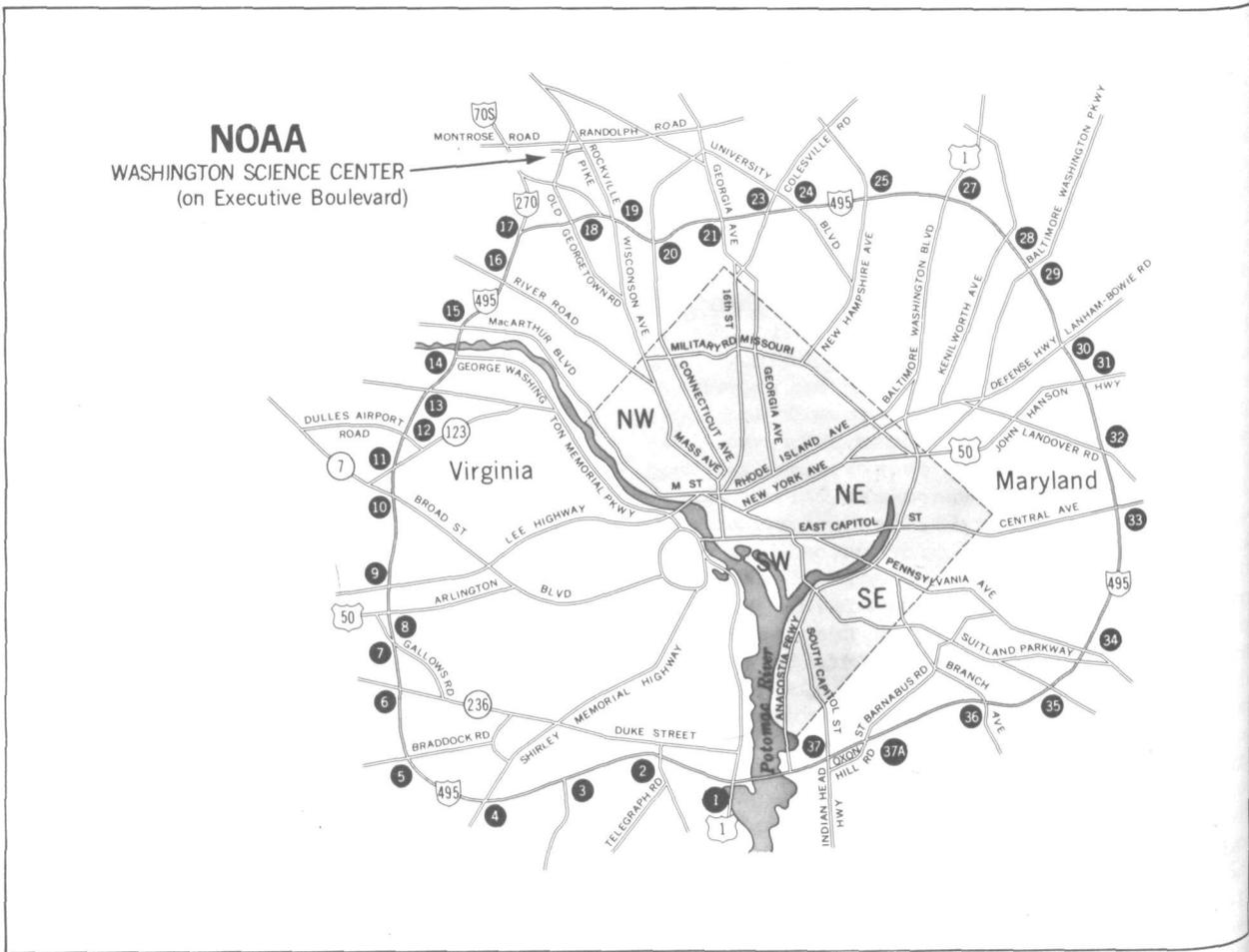
The Congress recently enacted legislation that made significant changes in health benefits affecting Federal employees. Effective the first pay period that begins after Jan. 1, 1971, the Government's contribution to premiums will rise to 40 percent (it now approximates 24 percent) for the six largest plans offered to Federal employees. This adjustment will be made automatically and no employee action is necessary.

Formerly a deceased employee must have had at least five years of Federal civilian service for his survivors to have continued under health benefits enrollment. This provision has been liberalized as of Sept. 25, 1970, so that:

1. The deceased employee need only to have been enrolled in a self and family plan at the time of his death; and

2. At least one family member must be entitled to an annuity as the survivor of the deceased employee.

# Where Is the Washington Science Center?



## Seattle Harbor Resurveyed After 35 Years

Launches of the National Oceanic and Atmospheric Administration's Ship FAIR-WEATHER are surveying Seattle Harbor to search for underwater changes made by man and wind, currents and other causes. The survey will extend over shallow areas, sand bars, and natural channels until all underwater obstructions and channels are charted. More than 20 reported navigational hazards between San Juan Islands and Tacoma, such as underwater rocks, wrecks, pilings and piers, will be investigated. The launches will use electronic echo sounders to determine depths. The last detailed survey of the harbor was completed in 1934-35.

## California Fire Danger Eased; Fresno Mobile Unit Demolished

The disastrous fire situation in southern California is over, after more than 500,000 acres were burned and 1,000 structures destroyed. At one time, the National Weather Service had ten mobile units in operation south of the Sequoia National Forest in California. The units have all returned to their base stations.

The Fresno mobile unit, manned by Roger Hegstrum, was completely demolished recently when it went into a skid and slid on its side. Mr. Hegstrum was not injured. The Reno mobile unit has been placed at Fresno for the balance of the 1970 fire-weather season.

GPO 900-74

Items to be considered for NOAA WEEK must be received by Monday for publication the following Friday. Send material 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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