

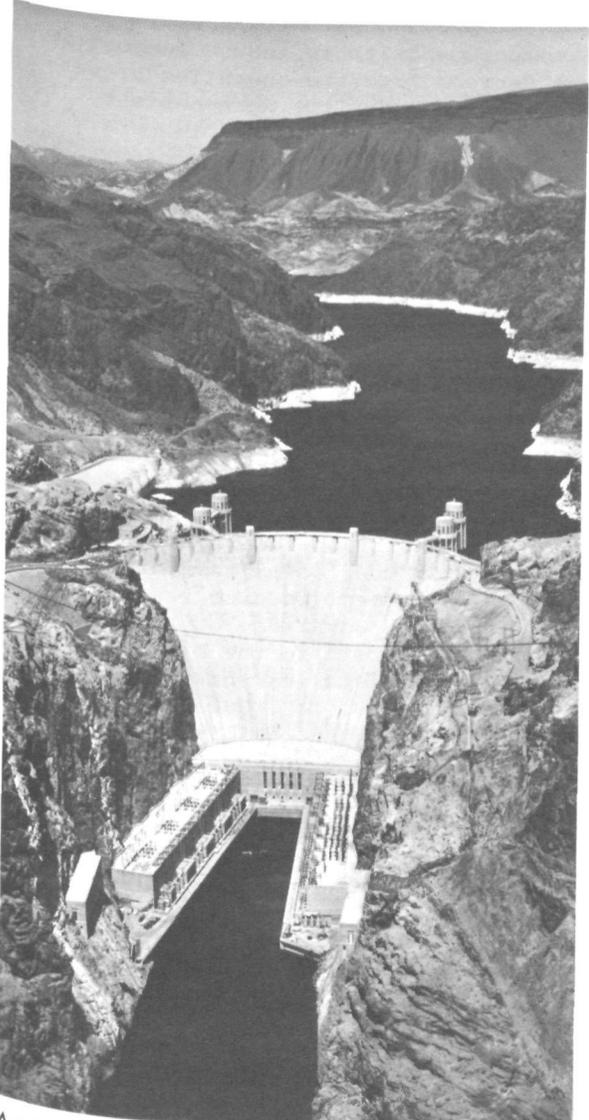


NOAA WEEK

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Mickey Finds Link Between Dams and Earthquakes



the National Ocean Survey, has conducted a study of seismic data recorded at four dams in the United States, some dating back to 1938.

From his study, Mickey concludes that where dams are built over or near active faults, the weight of the water in the reservoirs causes an increase in earthquakes.

Mickey said that earthquakes have occurred around dams, reservoirs, and other manmade bodies of water in the conterminous states. A study of the records of more than 10,000 earthquakes which have occurred at the Hoover Dam makes it clear, he said, that they were related to the increasing weight of the water, since no earthquakes were reported by the few local inhabitants in the 15-year period prior to the dam's construction.

Significantly, said Mickey, after several smaller dams were built above Hoover Dam in 1962 to regulate the flow of water, the water level ceased fluctuating as much as it had in previous years and there was a 50 percent decrease in the number of earthquakes.

On the basis of his study of the seismic data, the NOAA scientist recommended:

--That the seismicity of an area be determined before a dam is constructed. Seismic recordings now are being made at the proposed site of a dam at Cedar Springs, Calif.

--That no dam be built over or within the disturbed zone of an active fault unless adequate precautions are taken.

Mickey said further study of the effect of manmade lakes and reservoirs on earthquakes is needed before definite conclusions can be reached. He stressed the need for such studies, pointing out that the demand for water reservoirs will increase, with approximately 125 dams more than 50 feet high being built each year in the United States.

Aerial view of Hoover Dam and Lake Mead

Do dams cause earthquakes? Does the massive weight of the water behind dams trigger shocks?

Wendell Mickey, a geophysicist with

Rear Admiral Taylor Reappointed To Marine Center Directorship



Rear Admiral Norman E. Taylor has been reappointed Director of the Pacific Marine Center of the National Ocean Survey by Secretary of Commerce Maurice H. Stans. Rear Adm. Taylor's reappointment will extend to May 31, 1973. He is the first Director of an NOS marine center to be reappointed. Prior to

his assignment as Pacific Marine Center Director, Rear Adm. Taylor served 13 years aboard 12 ships of the Coast Survey fleet which took him into nearly all U.S. coastal waters and included command of the USC&GS Ships HILGARD, WAINWRIGHT, LESTER JONES, and SURVEYOR. He served with geodetic field parties in the continental U.S. and with a tides party in Hawaii. Rear Adm. Taylor joined the Coast and Geodetic Survey, predecessor of the National Ocean Survey, in 1943.

Inland Commercial Fisheries Workshop Held

Representatives of 13 states from three National Marine Fisheries Service regions were recent participants in an Inland Commercial Fisheries Workshop, held in Laramie, Wyo. This was the first meeting of project leaders and biologists involved with inland commercial fishery projects conducted under provisions of the Commercial Fisheries Research and Development Act. Among those attending were: Dr. Jack Richards, NMFS regional economist for the Pacific Northwest Region, Seattle; Richard L. McNeely, chief of the Harvesting Efficiency Program at Seattle; Frederick K. Cramer, regional Federal aid supervisor, Pacific Southwest Region, Terminal Island, Calif.; Dr. George Baxter, chairman of the University of Wyoming Department of Biology; and Harvey L. Moore, NMFS regional Federal aid supervisor for the Pacific Northwest Region.

Bredeman, Kansas City Met Tech, Dies

Paul L. Bredeman, meteorological technician at the Kansas City, Mo., Weather Service Office, died June 4. Mr. Bredeman joined the Weather Service in 1948. He had been assigned to the Kansas City office since 1960.

Commercial Fishermen To Get Federal Income Tax Benefit

Owners or lessees of commercial fishing vessels making deposits in a fund for the purchase, construction, or reconstruction of commercial fishing vessels may file amended income tax returns for 1970 if deposits for such purposes were made in the fund from 1970 earnings.

Under a 1970 amendment to the Merchant Marine Act, eligible commercial fishermen can enter into agreements with the Department of Commerce to make such deposits. The law allows taxpayers who make such deposits to reduce taxable income derived from the operation of vessels covered under the agreements by the amounts of the deposits. A temporary regulation published by the Treasury Department in the Federal Register on June 5, 1971, and a similar regulation published by the Department of Commerce on May 28, 1971, provide that even if a qualified taxpayer has not made such deposits and his 1970 tax return has been filed, he may still enter into an agreement. When this is done, the taxpayer may file an amended return for a refund on deposits made into the fund.

To qualify, the taxpayer must take the necessary action before January 1, 1972, or within 60 days after final regulations are published, if this date is earlier. Deposits also must be made within 60 days after the agreement is executed. Those wishing to take advantage of the new regulation should write to the Director, National Marine Fisheries Service, Interior Bldg., Washington, D.C. 20235, for information regarding the qualifying requirements and necessary procedures to follow.

Marine Science Writers Attend Sea Grant-Sponsored Briefing

Leading marine science writers and editors attended a special briefing, sponsored under NOAA's Sea Grant program, in Galveston, June 10, to acquaint them with ocean and coastal zone activities in Texas. Keynote speaker for the briefing was Dr. Athelstan Spilhaus, internationally known oceanographer. Leading scientists and oceanographers participating in the program were: Robert Abel, head of NOAA's Office of Sea Grant; James Goodwin, coordinator of natural resources for the State of Texas; George W. Klontz, Veterinary Microbiology Department, Texas A&M; Alan Lohse, Gulf Universities Research Corporation; and T.K. Treadwell of Texas A&M's Oceanography Department.

Dr. Elliott Is Named Assistant to NOIC Director; Two NWS Eastern Region Offices Get New MIC's



Mr. McClain

Mr. Drewes

Dr. Elliott

Dr. F. E. Elliott, a faculty member of the Washington Technical Institute, recently joined the National Oceanographic Instrumentation Center as Assistant to the Director. In this capacity, he is responsible for: assisting the Director in all facets of the Center's operation with special emphasis on technical program planning and review. Dr. Elliott attended American University, Johns Hopkins University, and Syracuse University. He received his masters in 1948 from the University of Virginia and his doctorate in 1952 from Clark University, and was a visiting scholar in oceanography at Yale University during the 1949-1950 academic year. After spending one year as a Research Associate at Woods Hole, Dr. Elliott was with the U.S. Navy Hydrographic Office for six years, three years as a professor of geography at Butler University in Indianapolis, and in October 1959, he joined General Electric as an oceanographer. From 1962 to 1963 he was a visiting professor in applied oceanography at Cornell University and a member of the graduate faculty.

Seven Arkansas Counties To Be Surveyed

A Federal survey of a 3000-square-mile area in Arkansas has been launched by the National Ocean Survey. The three-month, \$60,000 survey will be carried out by an 18-man field party in the area, bounded by Springdale, Harrison, Charcks-ville, and Alma at the request of other government agencies for use in mapping, surveying and engineering projects. The party, headed by Lester H. Williams will establish more than 40 geographic positions in the seven-county area. Preliminary field work for the project was begun last month by Survey engineer William G. Twaddle.

William J. Drewes has been named meteorologist in charge of the Albany, N.Y., Weather Service Forecast Office, succeeding Ernest Johnson, who retired recently. Mr. Drewes, a veteran of 20 years' service with the Weather Service, assumed his duties, June 15. He comes to New York from Maryland, where he served as Deputy Chief, Automated Analysis Branch, National Meteorological Center, Suitland. Mr. Drewes joined the Weather Service in 1951 in the Extended Forecast Division of NMC. During the intervening years, he held a variety of assignments at NMC. As MIC, he and his staff will provide state and zone forecasts for eastern New York State and Vermont.

John R. McClain has become meteorologist in charge of the Charleston, W. Va., Weather Service Forecast Office. Mr. McClain takes over this new assignment from Harry Mansfield, who has been assigned as senior forecaster at the Charleston office. A veteran of 25 years of service with the National Weather Service, Mr. McClain assumed his new duties, June 14. He comes to West Virginia from Cleveland, Ohio, where he served as principal assistant. He entered the Weather Bureau in 1946 with a foreign assignment in the Panama Canal Zone. The following year he transferred to New York. He became aviation forecaster at Cleveland Hopkins International Airport in 1952 and was promoted to principal assistant in 1965. The Charleston office is one of four offices in the NWS Eastern Region to be upgraded to forecast status this summer.

Air Pollution Meteorology Course To Be Held for NWS Forecasters

The Environmental Protection Agency has agreed to sponsor a two-week course in air pollution meteorology and related subjects designed primarily for National Weather Service forecasters. The first course will be held July 19-30 at Raleigh, N.C., with the last two days of the course to be held at the National Meteorological Center in Suitland, Md. Approximately 16 to 18 field meteorologists from the four conterminous regions will attend. A second course is planned for the latter part of FY-72 and it will be NWS policy to hold at least two courses a year for the next three years.

Quinlan, EDS Branch Chief, Named to WMO Working Groups



Frank T. Quinlan (left), Chief of the Statistical Climatology Branch of EDS' National Climatic Center, Asheville, N.C., has been assigned to two work study groups of the World Meteorological Organization's Commission for Climatology Working Group on Aeroclimatology. Mr. Quinlan will be working with Dr. U. Mane

of Israel on developing a set of statistical parameters relating to the free atmosphere. He will also work with Dr. Roy Berggren of Sweden in preparing a library of standard computer algebraic formulas that will be useful for climatological purposes. The study groups are charged with developing proposals and preliminary information for the Working Group meeting in 1973.

40 Acres of Shoreline Slides into Lake; Lake Survey Field Teams Examine Damage

The Sleeping Bear Dunes area, located along Lake Michigan's northeastern shore, with its miles of rolling sand dunes, is a popular Michigan Tourist attraction. Earlier this spring, an estimated 40 acres slid into the Lake with little or no warning. The area is rather thinly populated, particularly at that time of year, so there was no loss of life and damage was considered minor. The sheer volume involved altered the shoreline configuration and changed the water-depths in the nearshore area. In order to find any possible hazards to navigation resulting from the slide and to provide data on the general effect of the slide on lake depths in the area, a special survey is being conducted by Lake Survey Center. After establishing the necessary horizontal control, the field team, headed by Teddy Kuchciak, is now conducting sounding surveys near where the slide occurred. Recreational craft traffic in the area is fairly heavy in the summer, so the work is being done essentially in response to the needs of safe navigation.

Automated Observing Systems To Replace Coast Guard Reports

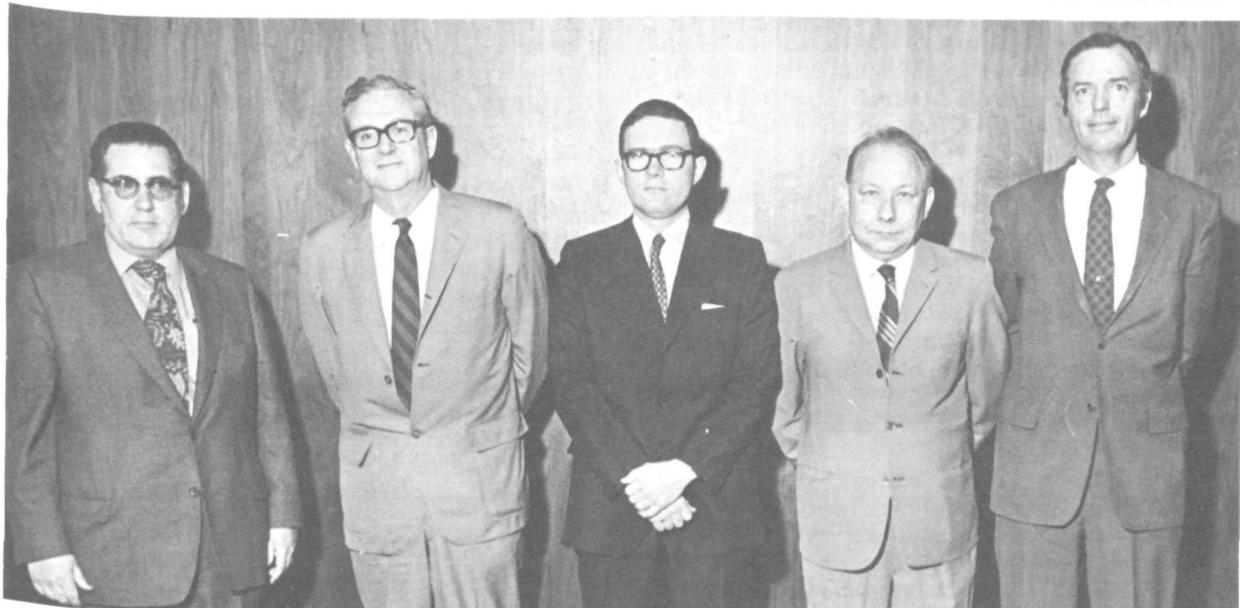
Meteorological observations received from Coast Guard facilities are an important part of the weather observing program. Due to the automation of Coast Guard lighthouses, however, their personnel are no longer available to report the weather. This data is used in making weather forecasts and is especially useful to marine forecasters who are responsible for making forecasts for local boating activities. In an effort to replace these observations, the National Weather Service, with the help of the Coast Guard, plans to install three units of automatic meteorological observing equipment to demonstrate the feasibility of using this equipment and Coast Guard communications facilities such as telephone line and radio.

The sites selected to receive this equipment are Whitefish Point, Mich., and Point Montara, Calif. A third site will be selected in the near future. The equipment will be installed by the end of this summer. This equipment will use the Automatic Meteorological Observing Station (AMOS III-70) sensor as well as AMOS III-70 design, technology, and components in the processor. Wind speed, wind direction, and temperature will be installed at Whitefish Point and wind speed and direction only at the other two sites. The system is modular, allowing other parameters to be added in the future. Plans are to use Coast Guard communications between the site and the monitor station and automatically retransmit the meteorological data to the local weather office.

New Brochure on Satellites Available

"Space-Environmental Vantage Point," a new publication from NOAA's Office of Public Affairs, describes how earth-orbiting satellites have been, are being, and will be put to work by the National Environmental Satellite Service for weathermen, oceanographers, fisheries scientists, and mankind. The 40-page booklet traces the development of environmental satellites from post-World War II experiments with camera-carrying V-2 rockets to the dramatic technological advances of satellite meteorology's first decade. The brochure is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, at 70 cents per copy.

NODC/NASCO Confer on Standards for Ocean Data Station Models



Left to right: Mr. Winterfeld, Mr. Worthington, Dr. Webster, Dr. Laevastu, and Dr. Rattray

Dr. Thomas S. Austin, EDS Director, and Dr. T. Ferris Webster, of the Woods Hole Oceanographic Institution, were co-chairmen of a National Oceanographic Data Center/National Scientific Committee on Oceanography (NASCO) Workshop on Development of Models for Quality Control of Ocean Data Stations, held recently in Washington, D.C. Participants in the EDS-sponsored workshop prepared a list

of recommendations concerning the quality and standards for models of ocean data stations. The recommendations will be reviewed by NASCO and acted upon by NODC. As an introduction to the discussion, Dr. Taivo Laevastu, Fleet Numerical Weather Central; Dr. Maurice Rattray, Jr., University of Washington; Thomas Winterfeld, NODC; and L. Valentine Worthington reviewed their work on model development.

NOAA Employees Retire

Listed below are additional NOAA employees whose retirements were effective during April and May. (See NOAA WEEK, Vol. 2, No. 22, June 11, 1971). Others will be covered in subsequent issues.

William K. Cloud, Chief of NOS's Seismological Field Survey, San Francisco, Calif., has retired after almost 36 years of Federal service.

Daniel W. Bates, fishery biologist in the National Marine Fisheries Service's Portland, Oreg., office, has retired after 32 years of Federal service. Mr. Bates was awarded the Department of Interior's Distinguished Service award in 1957 for developing a new fish louver system to bypass fish from a major irrigation diversion.

Lois E. Hunter, biological laboratory technician at the National Marine Fisheries Service's Fishery-Oceanography Center, La Jolla, Calif., has retired after 20 years of service.

Leonard B. Aliwanag, second cook on the NOAA Ship OCEANOGRAPHER, has retired after ten years of Federal service. Mr. Aliwanag has also served aboard the NOAA Ship SURVEYOR.

Ernest E. Beckerleg, meteorologist at the San Francisco Weather Service Forecast Office, has retired after 29 years' Federal service. Mr. Beckerleg also served with the weather service at Oakland, Calif., and Honolulu, Hawaii.

Henry Trout Akin is retiring from the Lake Survey Center after 16 years as a civil engineering technician. It is his second retirement. He joined the Lake Survey in 1955 shortly after retiring with 25 years of service to the City of Detroit. While he has participated in some field work, including that on the St. Lawrence River for the Seaway, most of his recent years have been spent in the Lake Survey's Control Section, where he performed computation work in connection with adjusting horizontal control measurements to the North American Datum, 1927, a field in which he became expert.

George M. Krahl, Chief, Substation Management Section, Data Acquisition Division, NWS, is retiring with 30 years' Federal service. After teaching science and mathematics in high school for several years, Mr. Krahl entered the Weather Bureau in 1940 as a junior observer at Cheyenne, Wyo. He subsequently served as an observer and a forecaster at Denver, Colo. Mr. Krahl came to NWS headquarters in 1947, serving first as placement officer. He joined the substation network observing program in 1949. Mr. Krahl was awarded the Commerce Bronze Medal in 1970 for exemplary stewardship in substation network observing programs for over 22 years.

DeVer Colson, research meteorologist in the Weather Service's Techniques Development Laboratory, Silver Spring, Md., is retiring after 31 years service. Entering the Weather Bureau in 1940, he served as observer and airway forecaster at Fort Worth and New Orleans. As a research meteorologist at headquarters, he was actively engaged in research on mountain waves, fire-weather, clear air turbulence, aviation meteorology, and also participated in the Barbados Oceanographic and Meteorological Analysis Project.

Helen A. Taft, meteorological technician at Burlington, Vt., has retired after serving with the National Weather Service for more than 28 years. All of her duty has been in Burlington, with the exception of a short training period at LaGuardia Airport in New York.

Mrs. Jane B. Katusha, meteorological technician at Harrisburg, Pa., since 1953, has retired after 30 years of dedicated service to the National Weather Service. Mrs. Katusha was appointed as a junior observer in Kylertown, Pa. Other assignments include Akron and Cleveland, Ohio; and Park Place, Philipsburg, Williamsport, and Curwensville, Pa.

Evelyn S. Cain has retired after serving for 15 years as secretary for the National Weather Service's River Forecast Center at Hartford, Conn.

William H. Reynolds, meteorologist, has retired after serving for 31 years at the National Weather Service's Forecast Office at Boston, Mass.

Ella K. Niederkorn, secretary at the Weather Service Office, Cincinnati, Ohio, has retired after 34 years of Federal service. Thirty-one of these years was spent with the National Weather Service. In 1954, Miss Niederkorn was awarded the Department of Commerce Meritorious Service Silver Medal for outstanding service.

Lawrence C. Wharton, oceanographer in NOS's Office of Hydrography and Oceanography, is retiring after 29 years of Federal service. All of Mr. Wharton's career was spent in the Washington area.

Frank G. Holdampf, cartographer in NOS's Aeronautical Chart Division, is retiring with 30 years of service. Mr. Holdampf has served in Washington, D.C., and New York.

Anthony Ferrara, negative engraver in NOS's Reproduction Division, is retiring with more than 30 years' service.

Gaspere Licausi, production specialist in NOS's Reproduction Division, has retired with 30 years of Federal service.

Orville Melton, cartographer in NOS's Aeronautical Chart Division, has retired with 29 years of Federal service.

Arthur L. Nugent, press operator and supervisor in the NOS Reproduction Division, has retired with 30 years of Federal service.

James Smith, Chief, Plant Maintenance in NOS's Reproduction Division, has retired with more than 30 years of service.

Kenneth Addington, cartographic technician in NOS's Aeronautical Chart Division, has retired with 11 years of service to the Federal government.

Frederick Weems, leading fisherman aboard the National Marine Fisheries Service's R/V OREGON II, Exploratory Fishing and Gear Research Base, Pascagoula, Miss., has retired after 20 years' Federal service. Mr. Weems has also served aboard the R/V OREGON I.

Carl A. Annis, Chief of the National Ocean Survey's Geodetic Party G-18, has retired after 31 years of surveying work. Mr. Annis has carried out field assignments in Alaska, Manitoba, Canada, Hawaii, the Panama Canal Zone, and conterminous United States.

Rose Rogers, editorial assistant in NOS's Coast Pilot Branch, Marine Chart Division, Rockville, Md., has retired after almost 30 years of Federal service. Mrs. Rogers began her service with the Veterans Administration in 1942. She transferred to the Commerce Department's National Production Authority in 1951 and was reassigned to the Coast and Geodetic Survey in 1952. Mrs. Rogers has served in the Coast Pilot Branch since 1956.

Raymond V. Clark, mail and file clerk in the NWS Central Region headquarters, Kansas City, Mo., is retiring after 27 years of Federal service. Mr. Clark has also served with the National Climatic Center in Asheville, N.C.

Arthur L. Jacobson, supervisory meteorologist at the Great Falls, Montana, Weather Service Forecast Office, is retiring after 33 years of Federal service. He began his weather service career in Moorhead, Minn., in 1938 as a Junior observer. In 1969, he received the Department of Commerce Bronze Medal for long, competent service in the Department. Mr. Jacobson has served at the Great Falls Forecast Office since 1953. He also served two years on detail to the Irish Meteorological Service during 1947-49 in connection with a cooperative program.

Mark J. Cocuzzi, technical assistant at the San Francisco Weather Service Forecast Office, is retiring with almost 42 years of service. Mr. Cocuzzi has been technical assistant at the San Francisco office since 1948, when he transferred from Santa Maria. Starting as a junior observer in Buffalo, N. Y., in 1929, all of Mr. Cocuzzi's career has been spent with the NWS. He recently received the Commerce Bronze Medal.

Warren Langer, electronics technician at the Oakland, Calif., Weather Service Office, is retiring after 34 years of service with the government. Mr. Langer began as a junior observer in Bismarck, North Dakota in 1937. Subsequent assignments were in Huron, South Dakota; Ely, Nevada; Barrow, Alaska; Portland, Oregon; Seattle, Washington; Troutdale, Oregon (where he was official in charge); Fresno, Calif.; Merida, Mexico; Omaha, Nebraska; San Francisco, Calif.; and Oakland, Calif.

George W. Kalstrom, meteorologist in charge, Los Angeles Weather Service Forecast Office, since 1955, is retiring after 34 years of Federal service. Mr. Kalstrom was awarded the Department of Commerce Silver Medal in 1966 for his outstanding leadership of the Los Angeles Forecast Office. Except for a short detail for training at the University of Chicago and the Chicago Forecast Center in 1943-44, Mr. Kalstrom's entire Weather Service career has been in the Southern California area.

Max K. Bankert, technical assistant at the Los Angeles Weather Service Forecast Office, is retiring with almost 42 years of service--all of which has been in the weather service. Mr. Bankert entered the service as a minor observer in 1929 at Huron, South Dakota, and has served as technical assistant at Los Angeles since 1966. He has held assignments as forecaster, climatologist, and

weather observer in the Los Angeles area since 1943. Prior to 1943, his service was in the Midwest.

James E. Ferguson, of the Atlanta, Ga. Weather Service Forecast Office, has retired with 29 years of service. Mr. Ferguson entered the Weather Service at Natal, Brazil. His later assignments included forecasting posts in the Canal Zone and at Keflavik, Iceland, in support of meteorological service for trans-Atlantic flight operations. He also served as aviation forecaster at Pittsburgh, Pa.; before transferring to Atlanta.

Ottis C. Bobbitt, meteorologist in charge of the San Angelo, Tex., Weather Service Office, has retired after 42 years of Federal service. Mr. Bobbitt entered the Weather Service at Brownsville in 1930 after a tour of duty in the Army Air Corps. He subsequently served at San Antonio, Tex.; the Washington National Airport; Atlantic Weather Patrol; Anchorage, Alaska; Salt Lake City, Utah; Dodge City, Kans.; before becoming MIC at San Angelo in 1961.

Cecil E. Carney, meteorologist at the Weather Service Forecast Office, Memphis, Tenn., has retired with 41 years of service. Mr. Carney entered the Weather Service at Memphis. He advanced to official in charge of the airport office, but later his interests shifted to specialized services and he entered the agricultural meteorology field in 1961 following special training at Iowa State University. Mr. Carney has been in charge of the agricultural program at Memphis since 1961.

Rachel C. Welch, accounting and fiscal assistant in NOAA's Finance Division, has retired after 30 years' Federal service. She began her career with the Department of Commerce as a card punch operator, later transferred to the Treasury Department, then to the Interior's Bureau of Commercial Fisheries, now the National Marine Fisheries Service.

R. Keith Leatherwood, supervising aviation forecaster at the Denver, Colo., Weather Service Forecast Office, has retired after 31 years of service. Mr. Leatherwood joined the Weather Bureau in 1939 at Boise, Idaho, and later also served at Fort Worth, Albuquerque, Washington, D.C., and Seattle.

Giles Slocum, mathematician in ERL's Air Resources Laboratories, Silver Spring, Md., has retired after more than 43 years of Federal service.

Harry B. Hansen, agricultural forecaster at the Pomona, Calif., Weather Service Office, is retiring after 41 years of Federal service. He has been assigned at Pomona since 1937. His territory for fruit-frost service has been the northern Sacramento Valley since 1939. Mr. Hansen began his career in 1930 at Phoenix, Ariz. He remained at Phoenix, working in climatology, until transfer to Pomona.

Robert J. Carson, Jr., aeronautical information specialist in NOS's Aeronautical Chart Division, is retiring after 11 years of Federal service. All of Mr. Carson's service has been in the Washington, D.C., area.

Edward R. Burnett, electronics technician in the NWS Instrument Engineering Branch, Silver Spring, Md., is retiring after 18 years with the government. All of his Federal service has been with NWS.

Elizabeth M. Harvison, market reporter in NMFS's Division of Statistics and Market News, Arlington, Va., is retiring after almost 30 years of federal service. Throughout her career, she has served with the Census Bureau, General Accounting Office, Navy Department, Maritime Commission, and the U.S. Air Force.

Stacey C. Denham, fishery reporting specialist in the NMFS Statistics and Market News Division, is retiring with 34 years' Federal service.

William G. Twaddle, supervisory surveying technician in the National Ocean Survey's Mid-Continent Field Area, Kansas City, Mo., is retiring with 34 years of Federal service.

Hazel H. Turbyfill, of the Weather Service Forecast Office at Atlanta, Ga., has retired after 28 years of service. Miss Turbyfill entered the weather service at Atlanta. She held subsequent positions at Greensboro, N.C.; Daytona Beach, Fla.; Asheville, N.C.; Melbourne, Fla.; and Augusta, Ga.; before returning to Atlanta in 1953.

Mary A. Hart, general accounting clerk the NWS Central Region headquarters' Budget and Financial Management Branch, has retired with almost 29 years of Federal service. Miss Hart spent 23 of these years with the National Weather Service.

Wilfred Baird Harrison, administrative officer at the National Ocean Survey's Atlantic Marine Center, Norfolk, Va., is retiring with more than 34 years of Federal service. The first four years of Mr. Harrison's career was spent aboard C&GS Ships GILBERT, LYDONIA, COWIE, and OCEANOGRAPHER. He received the Department of Commerce Silver Medal for design and development of a tide measuring device that provided a 1½-hour advance warning of highwater to Tidewater area residents in 1958.

William Arvie Rasure, supervisory cartographer in the NOAA Atlantic Marine Center's Operations Division at Norfolk, Va., is retiring with more than 30 years' Federal service. Mr. Rasure served at the Coast Survey's Baltimore, Md., District, on field party assignments, and at the Coast Survey's Tampa, Fla., District Office, before coming to Norfolk. He received the Department of Commerce Silver Medal in 1963 for his outstanding service.

Ina Mae Stolte, forecaster aide at the Denver, Colo., Weather Service Forecast Office, is retiring. Miss Stolte joined the Weather Bureau at Ely, Nev., in 1943 and later was employed by FAA for six years before rejoining the Bureau. Miss Stolte will have almost 25 years of Federal service upon retirement.

Edmund F. Striker, meteorologist in charge at the South Bend, Ind., Weather Service Office, is retiring after 35 years with the National Weather Service. He joined the Weather Bureau at Indianapolis in 1936. He later served at Joliet, Ill., before moving to South Bend.

Alois G. Topil, warning coordination forecaster at the Denver, Colo., Weather Service Forecast Office, is retiring after 41 years of weather service. His other assignments include Wolf Creek, Oreg., where he joined the Weather Bureau and at Seattle.

William J. Ziegler, communications specialist, National Weather Service Central Region headquarters, Kansas City., is retiring with 41 years of service with the National Weather Service. He also served at Pierre, South Dakota; Washington, D.C.; Minneapolis, Minn., and Chicago, Ill.

National Oceanic and Atmospheric Administration

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