



NOAA WEEK

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

1972 NOAA Awards and Unit Citations Are Announced

Cannikin Geomagnetic Data Spurs Hope for Earthquake Prediction

Geomagnetic sensors near Cannikin, the multimegaton nuclear explosion detonated beneath the Aleutian Island of Amchitka last November, obtained evidence that changes in underground stresses can produce small but measurable changes in the earth's magnetic field.

Geopiezomagnetic phenomena--changes in magnetic properties exhibited by magnetic rocks subjected to pressure (piezo)--have long been discussed as possibly recognizable precursors to destructive earthquakes. But actual measurements of magnetic field changes associated with stress changes in crustal rocks have been rare.

According to Dr. W. P. Hasbrouck of the Environmental Research Laboratories' Earth Sciences Laboratories and J.H. Allen of the Environmental Data Service's National Geophysical and Solar-Terrestrial Data Center, who obtained and interpreted the geomagnetic data from Amchitka, the Cannikin data are evidence that such magnetic fluctuations do occur, and should help provide a key to whether geomagnetic signals can be used as earthquake predictors.

Specific effects observed included:

-A step increase in total magnetic field of slightly more than 9 gammas within 30 seconds after the explosion was detected by a sensor located three kilometers south-east of ground zero. (A gamma is the unit of force used to express magnetic field intensity; the earth's total field is about 50,000 gammas.)

-The average difference in field intensity between this station and one nine kilometers from the explosion was 7 gammas for eight days after the detonation. This increase appears to represent a permanent change in the local geomagnetic field caused by the Cannikin test.

-An apparently fault-controlled anomaly was found in the geomagnetic field around that portion of a fault centered 1.6 kil-

The five winners of the 1972 NOAA Awards for unusually significant achievements will be honored at the NOAA Awards Night Dinner-Dance, to be held Saturday, September 23, at the Indian Spring Country Club, Silver Spring, Md. In addition, 15 Unit Citations will be awarded to groups of employees who have made substantive contributions to NOAA programs.

NOAA \$1,000 Awards will be presented to: Leonard T. Olson, National Weather Service, New York City, for public service; Dr. Theodore R. Rice, National Marine Fisheries Service, Beaufort, N. C., for scientific research and achievement; A. Glenn Jean, Environmental Research Laboratories, Boulder, Colo., and Lieutenant Lowell R. Goodman, National Ocean Survey, Wallops Island, Va., for engineering and applications development; and Arthur Gustafson, National Weather Service, San Francisco, for program administration and management.

Unit Citations will be awarded to the following groups:

In the National Weather Service--Aviation Forecast Staff, National Severe Storms Forecast Center, Kansas City, Mo.; Aviation Forecast Staff, Weather Service Forecast Office, Chicago, Ill.; Weather Service Forecast Office, Phoenix, Ariz.; Weather Service Forecast Office, Birmingham, Ala.; Weather Service Office, Kahului, Hawaii; Weather Service Office, Sault Ste. Marie, Mich.; Weather Service Forecast Office, Denver, Colo.; Meteorological Office, San Diego, Calif.; and Weather Service Office, Long Beach, Calif.

In the National Ocean Survey--Officers and crews of the NOAA Ships PATHFINDER and DAVIDSON; Methodology and Instrument Support Section, National Geodetic Survey.

In the Environmental Data Service -- Marine Section of the Information Group, EDS headquarters; Environmental Cuides Development Group, National Climatic Center, Asheville, N.C.; and Printing Plant, NCC, Asheville.

Tickets for the event may be purchased at \$13.50 each from the representatives listed on page 4.

(Continued on page 4)

NOS Resumes Long-Range Program Of Charting Hawaiian Waters

The National Ocean Survey is resuming its long-range charting of Hawaiian waters with a two-month hydrographic survey begun off the west coast of Hawaii Island as part of a program to provide modern, detailed nautical charts for commerce, industry and recreation. Surveys have been conducted since 1961 around the islands of Lanai, Maui, Molokai and Kahoolawe. They began off Hawaii Island in 1969 and continued in 1970 and 1971.

This year's project will start at Kea-hole Point, where surveys terminated last year, and will continue southward along the coast of the Big Island. The project is under the direction of Captain Gerard E. Haraġen, commanding officer of the NOAA Ship RAINIER, which has a normal complement of 78 officers and crew.

The vessel will chart shore facilities, water depths over submerged hazards and the general shape of the ocean bottom. The information will be used to compile four new nautical charts covering Hawaii Island's approximately 250-mile coastline. The charts will include safe approach channels and detailed insets of small boat harbors, last surveyed over three decades ago.

The survey will include the bays of Kawaihae, Honokohau, Kailua, Keauhou, Kealahou, Honauunau and Okoe, as well as numerous coves and sheltered anchorages which afford protection from storms.

Pacific Island, Storehouse of Lethal Gas, Is Evacuated When NWS Predicts Damage

National Weather Service personnel and other civilian and military personnel were forced to evacuate Johnston Island in the mid-Pacific on August 18, when Hurricane Celeste, with sustained winds of 95 miles per hour and gusts to 120 miles per hour, was forecast to move just north of the island the next day.

Officer in Charge Richard C. Sawyer and his staff (Meteorological Technicians Grant P. Jones, Timothy J. Lee, William F. Monahan, and Arthur J. O'Shaughnessy, and Electronic Technicians Stephen T. Butler) predicted the violent storm would cause extensive roofing and glass damage to structures on the 44-foot high atoll which serves as the U.S. storehouse for 13,000 tons of lethal nerve and mustard gas.

On August 25, Mr. Sawyer, back at the station after seven days in Honolulu, reported the fastest wind speed recorded on observational equipment was north 114 miles per hour, rainfall measured 6.21 inches (duration unknown), and lowest barometric pressure was 29.015 inches. No gust recorder was available.

No deaths or injuries were reported, and the amount of damage to the installation is classified information.

Food Poisoning Organism Study To Be Made With Sea Grant Funds

A Sea Grant of \$116,100 has been awarded to the University of Maryland for a study in the Chesapeake Bay of a microorganism found in the water, sediments, and marine organisms which is often fatal to the host animal.

Called *Vibrio parahaemolyticus*, the organism is well known in Japan, where it has caused outbreaks of food poisoning associated with the warm summer months and the consumption of raw seafood. While most seafoods are not consumed raw in the United States, Japanese and Chesapeake Bay strains of *V. parahaemolyticus* are identical and university scientists, led by Dr. Rita R. Colwell, will pay particular attention to the Bay's blue crab, oyster, and soft-shell clams.

Both healthy and diseased animals will be sampled in quantitative and qualitative studies of the bacteria found associated with normal, as compared to diseased, animals. The animals will be sampled regularly at select stations on the Chesapeake and the Bay's immediate environs, including the Delaware Bay, and coastal Virginia and North Carolina. Also the sediment and overlying water will be sampled for bacteriological analysis.

According to University of Maryland scientists the study will lead to a better understanding of the organism and its effects, and permit improved diagnosis of it when it appears in marine and estuarine animals, as well as those strains associated with seafood-borne infections in man.

Carlen Is Executive Officer of MT MITCHELL

Lieutenant Commander Jeffrey G. Carlen is the new Executive Officer of the NOAA Ship MT MITCHELL. He was previously the ship's Operations Officer. Since joining the commissioned corps in 1962, he has served aboard the MARMER and the WHITING, and with various field parties.

The MT MITCHELL is the only Class II NOAA vessel on the East Coast, and traditionally works in Puerto Rican waters the first half of each year and the Carolina coasts the remainder of the field season.



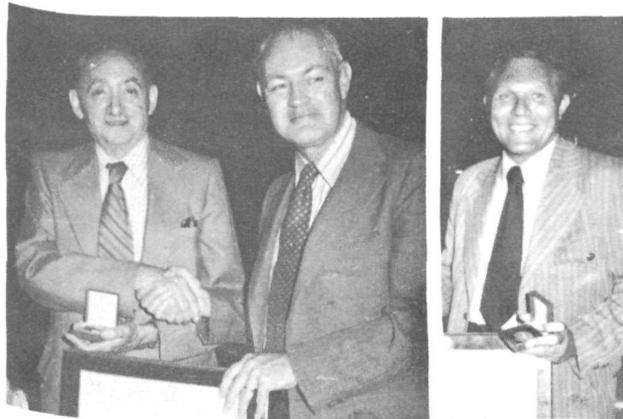
NSSL Has a New Address

The National Severe Storms Laboratory has a new address:

NSSL
NOAA
1313 Halley Circle
Norman, Oklahoma 73069

Its phone number remains unchanged.

Abraham S. Kussman, Elias Morin Receive Commerce Bronze Medals



Abraham S. Kussman (left), Warning Coordinator Meteorologist at the Weather Service Forecast Office in New York City, and Elias Morin (right), Meteorologist in Charge at the Weather Service Office at LaGuardia Airport in New York, recently were presented Commerce Bronze Medals by David Coveney (center), Deputy Director of the National Weather Service Eastern Region.

Mr. Kussman was recognized for his initiative and professional leadership in the fields of tidal forecasting and air pollution meteorology, and Mr. Morin was cited for sustained excellence of technical leadership and managerial skills in conducting an outstanding service program at a major airport.

NOS Surveys Underway in Georgia, Oregon

A five-month Federal geodetic survey of more than 3,400 square miles in southwestern Georgia, including Albany, is being made by the National Geodetic Survey. The survey, part of a long-range cooperative program of the state and the NGS, is estimated to cost approximately \$150,000. More than 75 geographic positions of latitude and longitude will be determined in the area from Columbus, Ga., to the Florida state line.

Surveying technician Donald Rexrode of the NGS and county engineers are doing the preliminary work, and the 18-man field party headed by Ivan L. Crabbe is scheduled to begin survey measurements later this month.

McNary Field in Salem, Oreg., is being surveyed by a National Ocean Survey airport survey party headed by Lieutenant Donald Suloff. The field survey is part of a joint program with the Federal Aviation Administration to advance air safety, and results of the survey, in conjunction with aerial photographs taken earlier by the NOS, will appear on an Airport Obstruction Chart to be published in five or six months. The charts are used by the FAA in planning operational procedures for the arrival and departure of aircraft.

Commander D. Crawford Appointed Director of NGS Operations Center

Commander Darrell W. Crawford has been appointed Director of the National Geodetic Survey Operations Center in Kansas City, Mo. Operated by the National Ocean Sur-



vey, the facility has jurisdiction over all NOAA geodetic field survey operations in the United States; latitude observatories in Ukiah, Calif., and Gaithersburg, Md.; a chart sales and geodetic control data office in Anchorage, Alaska; and an instrument research and development branch in Corbin, Va.

Cdr. Crawford served in Kansas City from August 1968 to June 1970 as Chief of the Operations Division. His 11 years in the commissioned corps included service aboard five survey vessels, with geodetic field parties, and, most recently, as Assistant Chief of Operations at the Pacific Marine Center.

Cdr. Crawford holds a civil engineering degree from Ohio State University and a master's degree in civil engineering from Purdue University.

NHC Staffs Weather Information Center At Miami Beach Political Conventions

The National Hurricane Center, in cooperation with auditorium managers, Civil Defense officials, and coordinators of the two major political conventions held in Miami Beach this summer, staffed a weather information center in one of the Convention Hall lobbies. A drop on the local public service teletypewriter network supplied current weather conditions locally and nationwide, while courier service from NHC in Coral Gables kept the display up-to-date with ATS-3 satellite photos and surface weather maps.

To assist in rumor control had there been threat of a hurricane or other severe weather, a hot-line telephone connected the desk of NHC Director Dr. Robert H. Simpson with the local Civil Defense Emergency operating center.



(From left) Peggy Simpson of Associated Press' Washington staff, NHC Director Dr. R.H. Simpson, and Dr. Joanne Simpson, Director of the Experimental Meteorological Laboratory, at the Convention Weather Information Center.

Awards Night Ticket Sellers

<u>Name and Office</u>	<u>Telephone</u> (IDS & FTS)
Paul Paradis - Office of Administrator ...	189-2985
Edwin McCann - Office of Administration...	14-68017
Patrick Hughes - EDS	179-2237
Arthur Peterson - NWS	179-2288
James Jones - NESS	173-37606
Alonzo Smith - Environmental Monitoring...	14-68646
Mary Diguilian - Environmental Modification.	14-68325
Cdr. Ronald Buffington - NOAA Corps	14-68950
Leo Craig - Sea Grant	189-2151
Joseph Slavin - NMFS	183-4386
Herbert Lieb - PA	14-68243
Paul Martenson - Marine Resources	14-68819
Capt. Roger Lanier - NOS ...	14-68701
John Robinson - ERL.....	303-499-6226

Cannikin Data

(Continued from page 1)

ometers northwest of the Cannikin epicenter. Magnetic-field increases of as much as 13 gammas on the Cannikin side of the fault, decreases of as much as 11 gammas on the far side of the fault, and a sharp 15-gamma decrease within a region 15 meters on either side of the fault trace were observed.

These effects, Dr. Hasbrouck and Mr. Allen conclude, were geomagnetic "byproducts" of Cannikin-caused changes in underground stress patterns.

The Cannikin test afforded the NOAA scientists an unparalleled opportunity to explore interactions between stresses in the earth and changes in the magnetic field.

"Although the piezomagnetic effect has been demonstrated in the laboratory," they write, "and these results have been substantiated on theoretical grounds, the number of creditable observations of ge piezomagnetic events is still quite small, perhaps no more than a dozen. When the Cannikin ge piezomagnetic experiment was proposed, it offered a good chance to increase this number, for, on Amchitka, the rocks are magnetic, and the position and time of a large source of stress change (the Cannikin nuclear explosion) was to be known.

The next step in this investigation will be to "quantify" further the relationship between stresses in rocks and geomagnetic effects -- that is, to be able to say that x amount of stress applied to Amchitka rocks, produces y amount of geomagnetic fluctuation.

Their findings will be reported in "Quasi-Static Magnetic Field Changes Associated with the Cannikin Nuclear Explosion," to be published in a special issue of the Bulletin of the Seismological Society of America later this year.

CSC Chairman Lists Charities Allowed To Solicit On-the-Job

Robert E. Hampton, Chairman of the U.S. Civil Service Commission, has issued a memorandum listing the voluntary agencies he recognizes, in accordance with Executive Order 10927, for on-the-job solicitation privileges in the Federal service during fiscal year 1973. Their efforts on behalf of all Americans merit a generous voluntary contribution from Federal personnel, and all employees in locations other than those in which a Combined Federal Campaign will be conducted are urged to support these agencies. The Eligibility Committee has determined that each one meets established requirements as to program objective, administrative integrity, and financial responsibility.

The assigned periods for the 1972-73 campaigns and the locations and conditions under which solicitation privileges may be exercised are as specified in Section 3.5 of the Federal Fund-Raising Manual, except as modified by the instructions in Chapter 4, The Combined Federal Campaign, and Chapter 7, Nondiscrimination Requirements:

The Recognized Campaigns and Agencies are:

- Local Community Chests, United Funds, and Other Federated Groups recognized by the United Way of America, Inc.
- The American National Red Cross (Domestic and overseas areas)
- Federal Service Campaign for the National Health Agencies (Domestic and overseas areas)

- American Cancer Society, Inc.
- American Heart Association, Inc.
- Arthritis Foundation
- Muscular Dystrophy Associations of America, Inc.
- National Association for Mental Health, Inc.
- National Association for Retarded Children, Inc.
- National Cystic Fibrosis Research Foundation
- National Easter Seal Society for Crippled Children & Adults, Inc.
- National Foundation - March of Dimes
- National Kidney Foundation
- National Multiple Sclerosis Society
- National Society for the Prevention of Blindness
- United Cerebral Palsy Associations, Inc.

--International Service Agencies (Domestic and overseas areas)

- American-Korean Foundation, Inc.
- CARE, Inc.
- Planned Parenthood-World Population Project HOPE (People-to-People Health Foundation, Inc.)

--International Service Agencies (Overseas areas only)

- American Social Health Association
- International Rescue Committee, Inc.
- National Park and Recreation Association
- Travelers Aid-International Social Service of America, Inc.
- United Seamen's Service, Inc.
- United Service Organizations, Inc. (USO)

NOAA Installations on Itinerary Of Exchange Scientist From India



Dr. Hari Narain (center), Director of the National Geophysical Research Institute at Hyderabad, India, has arrived for a month-long stay in the United States under the India-United States Exchange of Scientists sponsored by the National Science Foundation. The purpose of his visit is to make for the Indian Government's recently formed National Committee on Science and Technology a detailed survey of the latest developments in geophysical exploration and exploitation methods for mineral resources including groundwater, and seismology including prediction of earthquakes.

He visited in Rockville, Md., with National Ocean Survey Director Rear Admiral Allen L. Powell (left) and Deputy Director Dr. Gordon G. Lill (right), who discussed plans made to help him fulfill the purpose of his trip, and mutual benefits to be derived by this cooperative effort.

Later he discussed with Morton J. Rubin, Chief of the Research Group in the Office of Environmental Monitoring and Prediction, research projects in India funded by Special Foreign Currency (excess U.S. funds that must be spent in India).

Dr. Hellmut Schmid, Director of the NOS Geodetic Research and Development Laboratory, briefed Dr. Narain on the Laboratory's research and development program, and discussed with him the result of the just completed worldwide geometric satellite triangulation program, the Laboratory's contribution to the U.S. Geodetic Satellite Program, geodetic projects associated with the U.S. Apollo 15-17 missions, and the organization of the geodetic-topographic work in India.

Dr. Narain is scheduled to meet later in the month with: Dr. Leroy Alldredge, Director of the Environmental Research Laboratories' Earth Sciences Laboratories in Boulder, Colo., to discuss the geomagnetic and seismological programs of the Laboratories, including the preliminary determination of epicenters and earthquake engineering activities; with Dr. Jon R. Peterson, Chief of ERL's Seismological Center, Sandia Base, Albuquerque, N. Mex., who will familiarize him with the World-Wide Seismic Network; and with Kenneth W. King, Chief of ERL's Earth Sciences Laboratories' Special Project Party, at Las Vegas, Nev., who will discuss and demonstrate applications of engineering seismology.

Caldwell, Peterson and Matuella Head NWS Central Region Offices

Warren C. Caldwell, who has been Principal Assistant at the National Weather



Service Forecast Office in Des Moines, Iowa, for the past 13 years, has been selected as Meteorologist in Charge of that office. He has served at Des Moines more than 21 years, and previously was assigned to Washington, D.C., and Detroit, Mich.

He received his bachelor's degree at Colorado College in Colorado Springs, his master's degree from the California Institute of Technology in Pasadena, and also did graduate work at the University of Chicago.

Morton B. Peterson, Weather Service Specialist at the Weather Service Office in Grand Rapids, Mich., has been selected



Official in Charge at the Weather Service Office in Muskegon, Mich. He entered the NWS in March 1962 at Grand Rapids. In 1967 he transferred to the Department of the Army as a helicopter pilot for a short time.

He has attended Wayne State University, Utica College of Syracuse, and the University of Maryland.

George J. Matuella, Meteorological Technician (Observational Specialist) at the Weather Service Meteorological Office in North Omaha, Nebr., has been selected to be Official in Charge at that Office. He entered the NWS at North Omaha in 1960, and before that served four years as a Weather Observer with the Air Force. He has attended the University of Omaha.

Jerry H. Reed Selected Indiana/Kentucky AES

Jerry H. Reed, who has been Senior Electronics Technician at Amarillo, Tex., since



1970, will soon enter on duty at the Weather Service Forecast Office in Indianapolis, Ind., to serve as the Area Electronics Supervisor for Indiana and Kentucky.

He spent five years with the Satellite Triangulation Division of the National Ocean Survey before going to Amarillo. His prior electronics experience included service with the Federal Aviation Administration, American Telephone and Telegraph, and the Air Force.

NOAA Personnel Receive Length of Service Awards

National Weather Service Central Region employees who received Length of Service Awards in May were: 35-years - Glen V. SACHSE, WSFO Indianapolis, Ind. 30 years - Gordon E. BROKAW, WSO Topeka, Kans.; Rudolph BURKETT, WSFO Detroit, Mich.; Robert GREENE, WSO South Bend, Ind.; Eugene A. MAJEWSKI, WSO South Bend, Ind.; Robert C. MANGAN, WSFO Denver, Colo.; John E. MICHENER, NSSFC Kansas City, Mo.; Sylvester R. ULLSPERGER, WSO Green Bay, Wisc.; Robert O. WERLEIN, WSO Madison, Wisc.; and Ervin A. WESLEY, WSO South Bend, Ind. 20 years - Frederick H. DAY, WSO Sault Ste. Marie, Mich.; Louis A. JENKINS, WSO Brookings, S. Dak.; Paul KUBECKA, WSFO, Chicago, Ill.; Loren F. PITTS, CRH Kansas City, Mo.; and Rolland F. WENDLICK, WSO Milwaukee, Wisc.

National Geodetic Survey Operations Center, National Ocean Survey, employees who received Length of Service Awards in May were: Lester H. WILLIAMS and Richard L. WRIGHT, Party G-18, both 20-years.



Hollis C. Howes (left) Chief Observer with Triangulation Field Party G-20, recently received his 30-year pin from Captain G. L. Short, former Director of the National Geodetic Survey Operations Center.

NOAA Headquarters employees who received Length of Service Awards in May were: 35 years - John P. SCANLON and H. Dean PARRY. 30 years - Humphreys W. MILLER, Josephine POE, James F. ANDREWS, George S. TEMPLETON, Gayle C. TOMPKINS, Frank RICUCCI, Frank V. GARCIA, Joseph CANGELOSI, Margie M. TUCKER, Ohmar K. HENDERSON, Maurice D. BALILES, and Clyde L. JONES. 25 years - Elaine E. JOHNSON, Daniel A. GROSSO, John S. COSBY, Gleason S. HENRY, and James A. BREAZEALE. 20 years - James F. WRIGHT, Barbara A. FRAKES, Charles L. CONWAY, James B. ALVIS, Jr., William G. RIGGS, Jr., David L. CROWELL, Charles T. CARSON, William F. HOLT, Jr., Benjamin REMINGTON, and John J. WALSH.



H. Dean Parry (left) received his 35-year pin from Dr. George P. Cressman, NWS Director, at a recent NWS general staff conference.

Floyd C. Arnold (left), General Mechanic at the Honolulu Observatory, received his 25-year pin from H. J. Wirz, Observatory Chief.



Forrest K. BERG of the Pacific Marine Center, National Ocean Survey, received his 30-year pin recently.

Harvey W. HILDAHL, who serves aboard the NOAA Ship OCEANOGRAPHER has received his 25-year pin, and Ludwig BLAHA his 20-year pin.

Warren G. SHERRILL, who serves on the SURVEYOR has received his 20-year Length of Service Award.

A 20-year Length of Service award has also been presented to Eriberto T. SABINO, who is on the RAINIER.

The following employees of the Northwest Administrative Service Office have received Length of Service Awards: 30 years - Mabel YUEN. 20 years - Eleanor M. ROULST and Helen M. LaCHAPELLE.

Environmental Research Laboratories employees who received Length of Service awards during April, May and June were: 30 years - Ralph F. QUIRING, ARL; Walter L. WATTS, NSSL. 25 years - Thomas B. HARRIS, ARL; Leray LABAUME, ARL; Gerard A. DEMARRAIS, ARL; Floyd C. ARNOLD, ESL. 20 years - Kosta TELEGADOS, ARL; Robert A. KAUDER, ARL; Vesper BOYNTON, ARL; John W. WRIGHT, SEL; William R. SAXTON, AL; Robert N. ROBY, MMTG; Roy M. SCHUMAKER, EDS; Leo E. DAVIS, ESL; Joseph J. KRIEG, Jr., APCL; Norbert F. DELVER, O/D.

Gunter R. SECKEL of the Pacific Environmental Group of the National Marine Fisheries Service in Monterey, Calif., has received a 20-year Length of Service award.

Richard W. NELSON of the Pacific Fishery Products Technology Center, NMFS, Seattle, Wash., received a 20-year Length of Service award.

Employees of the NMFS Northwest Regional Office in Seattle, Wash., who received Length of Service Awards recently were: 35 years - Roy D. HURD, Bertel W. JOHNSON, William MERCULIFF. 30 years - Margaret M. BROWN and Alexander MELOVIDOV. 20 years - Helen E. PLASTINO.

National Marine Fisheries Service Southwest Region employees who recently received Length of Service awards were: 35 years - Lester A. KEILMAN and Marian M. DORSEY. 30 years - James H. SHOHARA. 20 years - Lester T. BRADBURY, S. Ross HATTON, and Richard S. SHOMURA.

The following employees of the National Marine Fisheries Service in Gloucester, Mass., have received Length of Service awards: 30 years - Peter DiMARCO, William

(Continued on page 7)

NGS Mark Preservation Geodetic Technicians Meet in Kansas City

The entire field force of mark preservation geodetic technicians of the National Geodetic Survey met at the NGS Operations Center in Kansas City, Mo., on August 10 and 11. The purpose of the meeting--the first ever held which was attended by the entire field staff of the geodetic Mark Preservation Branch--was a briefing by Millard Cutler, Chief of the NGS Headquarters Support Staff, in connection with their participation in obtaining information from users of NGS products and services and so-

liciting comments for an Office of Management and Budget Study Group on Mapping and Charting.

Carl F. Kelley, Director, NGS Information Center, and Leon Smith, Chief, Mark Preservation Branch, Kansas City, also attended the meeting to discuss ideas on the mark maintenance program with the participants.

It is planned to schedule similar future meetings to exchange information and ideas, and to standardize field operations.

Participants in the Mark Preservation Branch meeting were: (Kneeling) Mr. Smith; James T. Stapleton, Seattle, Wash.; Jay L. Gummow, Riverside, Calif. (Seated) Sidney Henderson, Anchorage, Alaska; Robert P. Konrady, Lake City, Fla.; Floyd K. Stuart, South Bend, Ind.; Richard F. Hanson, Castleton-on-Hudson, N.Y.; Martin E. Zimmer, Norfolk, Va. (Standing) John S. Rindal, Watertown, S. Dak.; Floyd A. Martin, Lake Oswego, Oreg.; Percy E. Chamley, Fort Worth, Tex.; Wilson A. Ziegler, Nashville, Tenn.; Alton K. Hansen, New Orleans, La.; James E. Fuchs, Kansas City, Mo.; Leo A. Critchlow, San Francisco, Calif.; and Larry W. Wakefield, Flagstaff, Ariz.



Length of Service Awards (Continued from page 6)

CALLAHAN, Margaret L. ANDERSON, Rita S. RICCIO, and Haskell S. TUBIASH. 25 years - Francis RILEY, Francis J. ANDERSON, Russell A. MEREDITH, John B. COLTON, Jr., George F. KELLY, Robert LIVINGSTONE, Marie C. PETERS, Gareth W. COFFIN, John A. HOLSTON, Paul J. HEISTER and Dominick VALPACCHIO. 20 years - William E. EREY, Robert A. HALL, Salvatore CHERMESINO, James M. CROSSEN, Fred E. LUX, Joseph GRAHAM, Frank E. PERKINS, Kevin J. ALLEN, Anna M. DAVIES, Arleen H. JOYCE, and Henry R. McAVOY.

National Weather Service Pacific Region employees who received Length of Service awards recently were: 25 years - Seymour KREPCKY, WSFO Honolulu, and 20 years - Aki-michi KIMURA, WSFO Wake Island.

National Weather Service Western Region employees who received Length of Service awards in May were: 35 years - Sam R. RAUSH, PWP, San Francisco; 30 years - Marvin C. WALTERS, WSO Spokane; Roger L. TORRISON, WSO Oakland; James D. WAKEFIELD, WSO Portland; and William M. AHL, Jr., WSO San Francisco. 25 years - Arthur L. EICHELBERGER, WSO Los Angeles and Norris E. WOERNER, WSO Great Falls. 20 years - Herbert DIAMA, PWP San Francisco; John

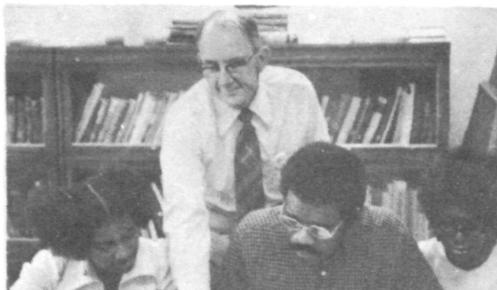
E. STILZ, WSO(SC) San Francisco; and Morrison H. EWING, WSO Bishop.

National Weather Service Eastern Region employees who received Length of Service awards in May and June were: 30 years - William T. BARCH, WSO Allentown, Pa.; Joseph P. KRANK, WSFO Washington, D.C. (Suitland); William GALLESHAW, WSO Providence, R.I.; Clarence REYNOLDS, WSO Baltimore, Md.; Robert I. FOSTER, WSFO Washington, D.C. (Suitland); Gennaro A. D'AURIA, WSO Hartford, Conn.; Ralph L. CARLSON, WSO Providence, R.I.; Katherine M. DOOLEY, WSFO New York, N.Y. (NYU); James W. PARK, WSO/C Boston, Mass.; and Jimmy WHITEMORE, WSMO Patuxent River, Md. 25 years - Dale O. HACKETT, RFC Hartford, Conn.; Elwood M. HARTE, WSSF Wallops Is., Va.; John F. FOGARTY, WSO Worcester, Mass.; Jack R. MAIN, AWP Norfolk, Va.; Edward J. MALLUMIAN, ERH; Arthur J. SNIDER, WSO Baltimore, Md.; Alfred FISHER, AWP, New York, N.Y. 20 years - Claudia MORALES, ERH; William O. ENNIS, WSO Huntington, W. Va.; Charles C. CLARK, AWP Boston, Mass.; Robert W. KEENER, WSO Atlantic City, N.J.; Fred E. HARMON, Jr., WSO Columbus, O.; and Maurice H. BACKUS, WSO Binghamton, N.Y.



notes about people...

Dr. R. C. Gentry of the Atlantic Oceanographic and Meteorological Laboratories has been appointed Director of the Training Seminar on Tropical Cyclone Forecasting Techniques and Warning Systems in Asia and Southwest Pacific by the Secretary General of the World Meteorological Organization. The seminar is scheduled to be held in Brisbane, Australia, in May 1973.



Summer employees at the Weather Service Forecast Office in Columbia, S.C., Shirley Samuels (left) and Joan Wilson (right) received instructions in the station's hydrology from Meteorologist in Charge John C. Purvis (second from left) and Veterans Readjustment Appointee Alfred Jenkins (second from right).

Dr. Tyan Yeh, an applied mathematician in the Mathematics Department of the University of Southern Illinois in Carbondale, visited the joint research undertaking of NOAA and the University of Colorado in Boulder, CIRES (Cooperative Institute for Research in Environmental Sciences), recently. His work on the magnetic annihilation mechanism in solar flares and in the earth's magnetic tail is well known in the space physics community.

Ten-Pin League Begins Season September 12

The NOAA Mixed Ten-Pin League will begin its 1972-73 season on September 12 at 6 p.m. at the Silver Spring Bowl, 8618 Cameron St., Silver Spring, Md. There is room for full teams or individual bowlers. For further information, please contact Norma Cooper (IDS Code 14-68461) or Weldon Spraggins (IDS Code 14-68331).

Sponsors of Research Conference Include NMFS, Sea Grant Program

The National Marine Fisheries Service and the Sea Grant Program of the University of Miami are two of the sponsors of the Fifteenth International Game Fish Research Conference scheduled to be held in Miami, Fla., on December 1 and 2. The other sponsors are the International Oceanographic Foundation and the University of Miami School of Marine and Atmospheric Science. The conference will be held in conjunction with the annual Gulf and Caribbean Fisheries Institute.

Items to be discussed are of mutual interest to the scientist, angler, fishing guide, and boatman, and are non-technical in nature. Further details are available from Dr. D. P. de Sylva, International Oceanographic Foundation, 10 Rickenbacker Causeway, Miami, Fla. 33149. Telephone 305-361-1176.

Booklet by NWS Meteorologist E.M. Valli Translated for Distribution in Brazil

A booklet on preventing freeze damage to crops, written by National Weather Service meteorologist E. M. Valli, has been translated into Portuguese and is being distributed to agricultural interests in Brazil.

The booklet is entitled, "Basic Principles of Freeze Occurrence and The Prevention of Freeze Damage to Crops." The English version was published in 1971 by Spot Heaters, Inc., of Sunnyside, Wash., as a service to growers around the world. Mr. Valli is Advisory Agricultural Meteorologist at the West Virginia University Experiment Station in Kearneysville, W.Va.

Hydrographic Survey in New York Scheduled

A six-man National Ocean Survey hydrographic field party will begin later this month an investigation of reported navigational hazards on the Hudson River at Poughkeepsie, N.Y. The project, which will include a detailed investigation of submerged rocks reported near dock facilities at Poughkeepsie, was requested by local concerns which plan use of the dock by deep draft vessels.

The surveying party is headed by Lieutenant Richard K. Muller.

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.

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