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

Advisory Committee Holds First Meeting

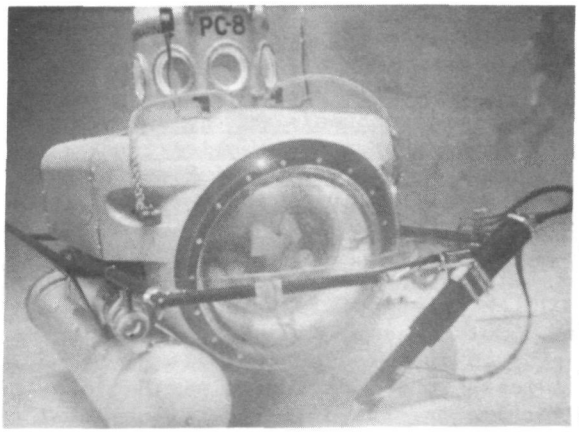
Secretary of Commerce Maurice H. Stans (left) administered the oath of office December 8 to members of the National Advisory Committee on Oceans and Atmosphere. Dr. William A. Nierenberg (center), Director of the Scripps Institution of Oceanography, is chairman of the committee. Dr. Robert M. White (right) NOAA Administrator, assisted at the ceremony. The 25-member advisory group was appointed recently by President Richard M. Nixon to assess and report annually on all Federal programs in marine and atmospheric science.

Donald F. Moore Is Chairman Of NOAA/DOD Planning Board

An Interdepartmental Board for the Cooperation of the National Oceanic and Atmospheric Administration with the Department of Defense has been established to plan the duties of NOAA in the event of a national emergency.

Donald F. Moore, NOAA's Assistant Administrator for Policy and Plans, has been appointed by Secretary of Commerce Maurice H. Stans to chair the Board. The DOD representative is Rear Admiral William J. Kotsch, Deputy Director of Operations (Environmental Services), Office of the Joint Chiefs of Staff.

Currents Change Shelf, Undersea Project Finds



(Dennison Breese Photo)

This transparent-nosed, two-man submarine, the Perry PC8, was used by Dr. Swift in his study of the continental shelf.

A NOAA scientist--Dr. Donald Swift of the Environmental Research Laboratories' Atlantic Oceanographic and Meteorological Laboratories in Miami--has found evidence seriously challenging the long-held theory that nothing significant has happened to the continental shelf since it was flooded after the ice age.

During 13 mini-sub dives along the New Jersey coast early in October in one of NOAA's first Manned Undersea Science and Technology (MUS&T) programs, he found that storm currents move seafloor sediments about, causing slow but unmistakable changes on the continental shelf.

Dr. Swift believes the changeable currents of the ocean over a period of time constitute the "climate" of the continental shelf and that these currents act on the topography of the shelf in a manner analogous to the actions of the climate on the topography of land.

Currents during fair weather, Dr. Swift has concluded, have little or no effect on the topography of the continental shelf. During storms, however, there are consider-

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NOAA/NWS Hurricane Warning Evaluation Conference Held

The NOAA/National Weather Service Hurricane Warning Evaluation Conference was held at the National Hurricane Center, Miami, Fla., on November 22-23. About 45 people from NWS, National Environmental Satellite Service, National Oceanographic Data Center, Research Flight Facility, NOAA, and the University of Miami attended. Included in the presentations and discussions were:

--An Experimental Technique for the Analysis and Forecasting of Tropical Storms from Satellite Pictures by NESS. This report, by Vernon Dvorak, technical assistant to the chief of NESS Analysis Branch, presented a satellite picture technique for the analysis of developing tropical storms.

--National Data Buoy Center Activities with special emphasis on the development program and potential applications, including collection of data which may be used for tropical analysis and forecasting. The report, presented by Ralph A. Zettel, chief of the NDBC Rockville staff and special assistant (scientific) to the Director, NDBC, Mississippi Test Facility, at Bay St. Louis, Miss., and Leroy Clem, acting chief of the Mission Analysis Division, indicated the location of six Engineering Experimental Phase (EEP) Environmental Reporting Buoys in the Gulf of Mexico with a deployment target date for next summer.

--Pilot Study on Dade County, Fla., Evacuation Procedures by the National Hurricane Center. Dr. Robert H. Simpson, Director, NHC, reported on this program, which is being promoted by the Office of Emergency Preparedness. Other concerned Federal agencies and the Red Cross are involved in developing a pilot evacuation plan. They are basing their plans on two types of storms, that is, a maximum storm and nominal storm. Use of evacuation shelters, rather than a large mass exodus, will be emphasized.

--The Term "Bulletin" to Be Highlighted with all Advisories and Intermediate Bulletins. Samuel O. Grimm, Jr., Chief of NWS Emergency Warnings Branch, Weather Analysis and Prediction Division, and Edwin P. Weigel, NWS Public Affairs Officer led this discussion. "Bulletin" will be placed on the first line above the present advisory and bulletin headings to highlight these issuances for the news media and the public.

--Classification of Hurricane Disaster Potential by the National Hurricane Center. This was also presented by Dr. Simpson. The damage potential of a storm (due to winds and storm tides) would be reported in a scale from 1 to 5--five indicating maximum potential. No prediction would be made of this parameter.

--WMO's proposed change from the use of the Beaufort Wind Scale, presently used internationally, primarily by marine interests, was also discussed.

Undersea Project (Continued from page 1)

able changes on the shelf in the New York Bight. In this submarine climate, Dr. Swift found sand and other sediments are transported along and across the shelf, intermittently, but with pronounced effect, much as sand is transported across a desert by desert winds.

His findings are directly relevant to the problem of large-scale offshore waste disposal, because they indicate that waste material might be carried for many miles under water, potentially affecting large areas of the sea bottom.

Dr. Swift plans to extend his study for several years, making two series of dives each year, to learn more about the seasonality of sediment transport and to verify his initial findings. From the organized body of knowledge that he and his associates are gathering, engineers with such specific problems as waste disposal or undersea mineral exploration will be able to make better judgments about the effects of their proposed operations.

President Seeks Commendation Candidates

President Nixon would like to recognize and commend individuals and organizations doing outstanding good works of any kind that help to improve life in the United States. He has asked Federal agencies to submit regular recommendations of individuals and groups that merit recognition.

NOAA personnel, working in hundreds of geographic locations, are in a position to know of many instances of unselfish devotion to duty of fellow employees and of voluntary contributions to the public welfare by local individuals and groups. The occasions for commendation are limitless; they might, for example, include heroic acts, or efforts to solve pollution or narcotics problems.

Whenever you know of an individual or group that you feel should be considered for commendation by the President of the United States, why not make the suggestion by means of a brief memo sent through regular channels?

Council To Be Focal Point for NOAA Alaskan Programs, Information

Shown above are representatives of each of the NOAA components having activities in Alaska as they assembled for the first meeting of the NOAA Alaska Council on November 30 at the National Weather Service Regional Headquarters in Anchorage. They are (from the left) Commander Robert Franklin of the National Ocean Survey's Anchorage Field Office; Harry Rietze, Director of the National Marine Fisheries Service Alaska Region; Stuart Bigler, Director of the National Weather Service's Alaska Region;Jack Townshend, Chief of Environmental Research Laboratories' College Observatory at the University of Alaska; and Lloyd Tourville, Manager of the National Environmental Satellite Service's Command and Data Acquisition Station at Gilmore Creek, Alaska. Not in the picture, but present at the meeting was David Hickok, Director of the University of Alaska Sea Grant Program, an ex-officio member of the Council. Mr. Bigler is the first chairman of the Council.

The Council has been established to serve as the focal point for information on NOAA's Alaskan plans and programs.

A review of the NOAA programs in Alaska emphasized the wide-ranging activities of NOAA in Alaska, including the conduct of biological research, monitoring and predicting radio propagation conditions, monitoring earthquake activity and issuing tsunami warnings, charting of the Alaskan coastal waters, and provisions of weather services to the public, aviation, firefighting agencies and other activities.

The Council discussed the environmental impact of the anticipated super-tanker traffic through Prince William Sound to the southern terminal of the Alaska pipeline at Valdez. There are many unknowns related to biological life in the Sound, the currents to be encountered by the tankers, and the wind conditions (particularly in Valdez and adjacent Valdez Arm, where winds frequently reach 100 MPH). The Council is considering a policy recommendation on future NOAA activities in the Sound.

Considering Retiring? Retirement Annuity, Health Benefits, Life Insurance Explained

There are a number of important benefits which employees can retain after retirement. These benefits have the effect of affording a retired employee additional financial protection for himself and his dependents over and above his retirement annuity. The most important of these benefits are:

--Retirement Annuity:

An employee may name a survivor beneficiary at the time he retires. The surviving wife or husband will receive 55 percent of the annuity earned at the time of retirement. Unmarried employees who are in good health can name a survivor beneficiary, but the amount payable to the survivor is reduced by a formula based on the age of the beneficiary.

--Health Benefits:

If the employee chooses he may continue his health benefits (hospitalization) during retirement. Coverage is the same as is offered to active employees; there is no new coverage with lesser benefits. The rates are the same as those paid prior to retirement, but are payable on a monthly rather than a pay-period basis.

--Life Insurance:

The employee may also elect to continue his life insurance after retirement. If he has the regular insurance (based on his annual salary), he will retain the face value of the insurance held at the time of retirement until he reaches age 65, at which time it will begin to depreciate at the rate of two percent each month until the amount payable reaches 25 percent of the face value held at the time of retirement. If the employee is 65 or over, depreciation begins immediately. If the employee has optional insurance ($10,000 in addition to the regular policy), which he wishes to retain, and is under age 65 at the time of retirement, he must continue to pay for coverage until he reaches age 65. The monthly rate will be deducted from his retirement check. At 65 the policy is considered paid and he no longer pays; however, the reduction in the face value begins.

Marine, Earth Sciences Library Toured by Geoscience Group

The Marine and Earth Sciences Library of EDS' Environmental Science Information Center was one of four Federal libraries included in the field trip of the Geoscience Information Society. The Society met in Washington, D.C., in conjunction with the annual meeting of the Geological Society of America last month. Fifty-five geologists, information scientists, and librarians attended the tour-luncheon. The Library exhibited 22 rare books and historic reports and supplied NOAA publications to show the continuity of the scientific work and research existing through the years of the Coast Survey, the Coast and Geodetic Survey, and the National Ocean Survey from 1807 to the present, and the role the library has played in this effort. The group also toured NOS' Physical Science Services Branch. Speakers for the occasion were John Webber, Chief, Libraries Division, ESIC, and Palmer Haugland of NODC's Library.

Summer Aid Receives Achievement Award

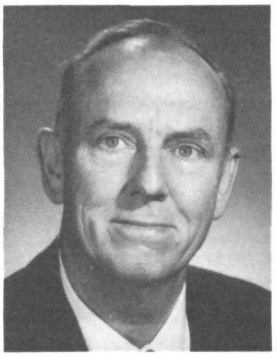
Ann Butler, a summer aid who was assigned to the National Meteorological Center's Development Division, has received a special achievement and cash award for her outstanding performance. A senior at Suitland (Md.) High School, Ann plans to attend business college after her graduation. She is shown above with (from left) Mary Daigle, Division secretary; Dr. John A. Brown, Jr., Chief of the Division, who made the presentation; and Alonzo Smith, Technical Assistant to the Chief.

Robert V. Ochinero Is Named To Head Data Center

Robert V. Ochinero, who has been Acting Director of the Environmental Data Service's National Oceanographic Data Center since October 1970, became Director of the Center on November 28. He succeeds Dr. Thomas S. Austin, who is now Director of EDS.

Mr. Ochinero was formerly Director of the NODC Operations Division. He received his bachelor's and master's degree in biology from Hofstra University.

New North Dakota Climatologist Appointed



The new State Climatologist for North Dakota is Morton Bailey, who for the past three years was assigned to a technical assistance program designed to upgrade the weather services of Zambia, a newly independent and developing country in central Africa. His previous assignments included being a research analyst at the National Climatic Center, Asheville, N.C., and also in Praetoria, Union of South Africa.

Mr. Bailey is a graduate of Alabama Polytechnic Institute and received an M.S. degree from Florida State University.

He will work closely with scientists and extension officials of North Dakota State University in the scientific analysis of past weather data so that farmers, businessmen, officials, and other citizens may be better equipped to minimize climatic costs and maximize climatic advantages.

NGS Field Party Begins Survey in Texas

A National Geodetic Survey field party headed by Ivan L. Crabbe has begun a 170-mile, 10-county Federal geodetic survey in southern Texas. The four-month, $100,000 project being conducted by the 15-man field party is to establish numerous geographic positions (latitude amd longitude) along three survey routes extending from Eagle Pass to Millet, from Laredo to Realitos and from Lopeno to Agua Nueva.

Surveying technician Howard W. King is performing the advance field work, which includes securing permission of landowners for establishing the sites, computing the heights of the portable towers that will be required (some may be seven stories high), and selecting the tower sites.

NOTES ABOUT PEOPLE

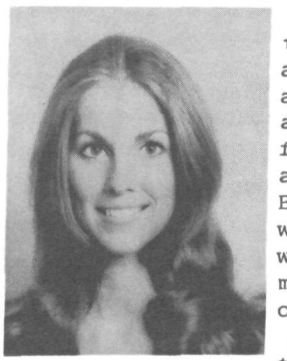
A cooperative project with the Australian Meteorological Service was completed on November 27 with the return of Dale Sirmans to the National Severe Storms Laboratory in Norman, Oklahoma. During three months in Australia, Mr. Sirmans designed and supervised the building of a digital system for signal integration, mechanical tabulation and recording for display of the weather radar echoes for the Australian radars. The system is now operating routinely at the University of Melbourne, where the Australian Weather Service conducts prototype testing of weather observing systems.

Virginia Woolley, chief of the Records and Processing Unit in the National Weather Service Western Region Personnel Office, retired November 26 after 22 years of Federal service--all of it in the NWS Regional Office in Salt Lake City, Utah, and the last 20 years of it in the Personnel Office there. She will continue to reside at 239 East South Temple, #411, in Salt Lake City.

Dr. Harris B. Stewart, Jr., Director, and Jack W. Kofoed, Assistant Director, Atlantic Oceanographic and Meteorological Laboratories, have been appointed to the Scientific Advisory Group of the U.S. Coast Guard. At the first meeting, in November, the Group reviewed existing Federal contingency plans for southeast Florida as they relate to major oil spills or other hazardous materials in navigable waters.

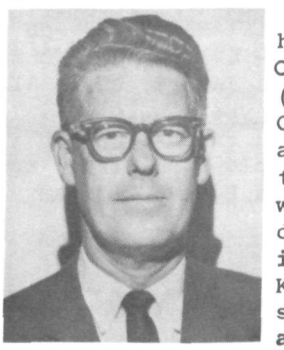
Geodetic workshops were conducted for personnel of the Salt Lake County, Utah, Engineers' Office and the California Division of Highways last month by the National Ocean Survey Triangulation Branch. The purpose of the workshops was to provide expertise in geodetic procedures which would enable the two state agencies' surveys to be incorporated into the national network. In Utah the workshop was conducted by Carl F. Kelley, chief, and Larry W. Wakefield, mark maintenance engineer, National Network Maintenance Section; and Stephen E. Luckey, geodesist. They were accompanied in the California workshops by Leo A. Critchlow and Jay L. Gummow, mark maintenance engineers.

Dr. S. T. Algermissen, Director of the Seismological Research Group in ERL's Earth Sciences Laboratories, gave one of the lead-off technical papers, "Seismicity and Seismic Risk in the United States," before more than 400 engineers and scientists at the 42nd Department of Defense Shock and Vibration Symposium in Key West, Fla., last month.



Marcia Wilson, part-time temporary research assistant at the National Hurricane Center, Miami, was chosen from a field of 200 candidates as one of four Orange Bowl Princesses. She will attend the Queen when unbeaten Nebraska meets unbeaten Alabama on New Year's night. Miss Wilson also is in the cast of the current University of Miami play, "Joe Egg."

Joe D. Worrell, Meteorologist in Charge at the Lake Charles, La., Weather Service Office, retired on November 27 after more than 31 years of Federal service. He began his weather career in 1939 as a junior observer at Knoxville, Tenn., and was assigned to Memphis and Jacks Creek, Tenn., before moving to Lake Charles in 1949. He became MIC in 1955. A native Tennessean, he graduated from Union University in Jackson, and taught there and at Fayette County High School before beginning his Federal service. His address is 2020 10th St., Lake Charles.



Richard D. Tarble, who has been Hydrologist In Charge at the Sacramento (Calif.) River Forecast Center since 1963, has accepted a two-year WMO transfer to Malaysia, where he will assist in developing a flood warning program. Enroute to Kuala Lumpur he will stop in Paris, France, and Geneva, Switzerland, for WMO briefings. In 1964 he was on a special assignment to Costa Rica in cooperation with WMO to train men in the use of radar and set up a flood warning network. He has also served as Rapporteur for Hydrometeorology for WMO's Regional Association IV (North and Central America). His other previous assignments include being assistant chief, River Services, and special assistant to the chief, Hydrologic Services Division, NWS Headquarters. He also was assigned to the Cooperative Snow Investigations, San Francisco, Calif.; and the Central Sierra Snow Lab, Soda Springs, Calif.

Mr. Tarbel received his B.S. degree from the University of Nevada, and his M.S. degree from Texas A&M on a Weather Service scholarship.

Employees Receive Length of Service Awards

Dr. Robert M. White, NOAA Administrator, congratulates David S. JOHNSON, Director, National Environmental Satellite Service, after presenting his award for 20 years of Federal service.

Other NOAA headquarters employees who received length-of-service awards during November were: 35 years - Elmer R. NELSON and Harold R. BROOKS. 30 years - Donald S. FOSTER; Charles E. LAMBERT; John J. HARRELL; Harry WEBER; Isaiah FITZGERALD; Gustav G. WEINEL; Louis MILAZZO; Robert S. SMITH; Vernon S. WILLIAMS and Joseph BROCKENTON. 25 years - Lillian W. STOLTING; Warren K. WILHELM; Paul Roger REASIN and Irving B. DEAN. 20 years - Rosa A. HILL; Russell L. HOVEY; Fred W. LEAPLEY; Richard L. BAILEY; Harold A. BEDIENT; Kenneth E. RUDKIN; Patrick E. HUGHES; and Paul M. LLEWLLYN.

Thirty-year length-of-service awards were presented to the Atlantic Marine Center employees shown above. They are, (from left) Victor E. SERENA, Charles H. BISHOP, Leo F. BEUGNET, Rear Adm. Alfred C. Holmes, Director, AMC, who presented the awards, Woodrow W. FEAZEL, and Russell J. PATE. George W. BUSHBAUM and William L. JONNS received awards for 25 years and Allen G. DAVIS and Donald H. ELLIOTT for 20 years.

Other length-of-service awards were presented aboard AMC-based ships to the following: 30 years - Aubrey V. ANSELL, NOAA Ship RUDE and Robert J. HAYNES, NOAA Ship WHITING. 25 years - Herbert W. TITTLE, NOAA Ship WHITING. 20 years - Frank LODKEY, NOAA Ship RESEARCHER; Robert L. ESTES, NOAA Ship MT MITCHELL; and DeWitt DAILEY and Kenneth N. WINDLEY, NOAA Ship WHITING.

National Weather Service Central Region employees who received length-of-service awards in November were: 30 years - Joseph W. Berry, WSO/SC Denver, Colo.; Earl A. JOHNSON, RFC Kansas City, Mo.; Edward L. Mc GUIRE, NSSFC Kansas City, Mo.; Henry J. PAUL, WSFO Detroit, Mich.; Robert L. SPENGLER, WSO Grand Junction, Colo.; and Harry W. WALDHEUSER, WSFO St. Louis, Mo. 25 years - Iris L. GRENINGER, WSO Springfield, Mo.; Paul E. WOOLARD, WSO Norfolk, Nebr. 20 years - Donald A. BUGALA, WSO Flint, Mich.; David H. HORNER, WSO Columbia, Mo.; and Donn M. FREDERICK, WSO Chicago (Midway), Ill.

Shown above are employees of the National Marine Fisheries Service Southwest Region who received length-of-service awards during October. They are, (from left, front row) Frank COLIANNA, Lillian VLYMEN, Dorothy ROLL, and Captain Charles FORSTER. (from left, back row) George MATTSON, J. F. Theodore SAUR, Lloyd FARRAR, John MacGREGOR, and Charles HILL. Not pictured was Arlin McLAUGHLIN. Mr. SAUR and Mr. HILL received 25-year awards, and the others received 20-year awards.

The Lake Survey Center recently presented a 20-year length-of-service award to Edward J. GURCHE, hydraulic engineer technician in the Center's Water Levels Gaging Section.

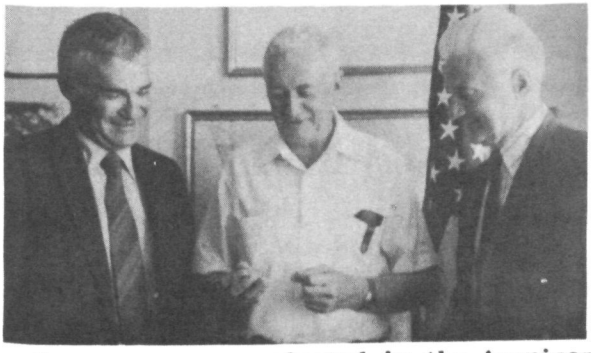
The National Weather Service Eastern Region employees who received length-of-service awards in November are: 35 years - Lawrence C. PIERCE, WSO Harrisburg, Pa.; and Horace C. DWELLE, WSO Parkersburg, W. Va. 30 years - Robert A. LAFFERTY, WSFO Cleveland, Ohio; Frank N. EVERARD, WSFO Washington, D. C. (Suitland); Milton N. SCHMITZ, WSO Toledo, Ohio; Thomas S. DEACON, WSO Williamsport, Pa.; and James D. GREENAWALT, WSMO Pittsburgh, Pa. 25 years - Donald L. QUICK, WSFO Albany, N.Y.; Lloyd

(Continued on page 7)

Awards (Continued from page 6)

CHAMBERLAIN, WSSF Wallops Is., Va.; and Solomon J. TOUFIC, WSFO Boston, Mass.

20 years - Thomas N. MALMGREN, WSFO Boston, Mass.; Ruth LEVINE, ERH (SSD); Daniel J. MONTE, WSFO Albany, N.Y.; William E. SMITH, WSO Pittsburgh, Pa.; Jacquelyn Harding, WSO Charleston, S. C.; Robert M. LESTER, WSFO Cleveland, Ohio; Eloise S. GREGORY, WSO Washington, D. C. (National); and Edwin J. HEATH, WSO Columbus, Ohio.



In a ceremony conducted in the American Consulate in Hermosillo, Mexico, last month, Robert Carman(center,above)Technical Representative of the U.S. National Weather Service in Empalme, Mexico, received his 35-year pin and a letter commending his service from U. S. Consul General Elmer E. Yelton (right). On Mr. Carman's left is Michael Sunray, Technical Representative of the NWS in the American Embassy, Mexico City.

Miller ROBERTS (center, above),National Geodetic Survey field employee, is shown being presented a 30-year pin by Captain Leonard S. Baker, Chief, Geodesy Division, as Robert R. Gerrish, Chief of Geodetic Field Party G-37, watches.

William MARTIN, a National Ocean Survey employee at the Pacific Marine Center in Seattle, Wash.,has received a 35-year award.

The National Weather Service Pacific Region awarded the following length-of-service awards: Hung C. KAM, WSO Koror, 20-year award; and Robert G. RIVARD, WSO Majuro, 25-year award.

Howard W. KING (left, above) chief of National Geodetic Survey Reconnaissaince Field Party G-34, is shown receiving his 35-year pin from G. C. Randall at a ceremony held in Cotulla, Tex. Ivan L. Crabbe, chief of Party G-18 (right), along with members of both field parties witnessed the ceremony.

National Weather Service Southern Region employees who received length-of-service awards in November are: 30 years - James A. WHITE, WSO Apalachicola, Fla.; John P. GEYER, WSO Dallas, Tex.; Allan E. ELOMAA, WSO Jacksonville, Fla.; Arnold L. SUGG and Edward L. MANAK, National Hurricane Center, Miami, Fla.; Troy V. GOODWIN, WSO Midland, Tex.; Charles S. SELF, WSO Nashville, Tenn; Lawrence A. McDONALD and Earl S. MORGAN, WSO Orlando, Fla. 25 years - John J. DROST, NHC, Miami, Fla. 20 years - William E. HIGGINS, WSO, Bristol,Tenn.; Jack H. ALLEN, WSO Daytona Beach, Fla.;and Denzil R. DAVIS, WSO/AG, Quincy, Fla.

National Weather Service Western Region employees who received length-of-service awards in November are: 30 years - Raymond E. DUNNAVIN, WSO Salem,Oreg.; George R. ELLIS, WSFO Los Angeles,Calif.;John M. HULL, WSFO Portland,Oreg.;Keith E. LINGENFELTER,WSO Red Bluff,Calif.;Wesley K. ORENDORFF,WSFO Seattle,Wash.;Charles S. PATTERSON,RFC Portland, Oreg.;Charles E. SYVERSON, WSFO Boise,Idaho; Richard D. TARBLE, RFC Sacramento,Calif. 25 years - John G. FLEMING, WSO Ely,Nev. 20 years - Harley W. LILIENTHAL,WSO Burns,Oreg.

Length-of-service awards recently were presented to the following Environmental Research Laboratories employees: 35 years- Robert H. SOURBEER, National Hurricane Research Laboratory, Miami, Fla. 30 years - Leroy S. FARR, Research Support Services, Boulder, Colo. 25 years - Lowell P. RIGGS, Boulder, Colo.; Theodore V. RYAN, Pacific Oceanographic Laboratory, Seattle, Wash.; George A. CLEEVES, Air Resources Laboratory, Durham, N. C.; and Ralph R. SOLLER, Air Resources Laboratory, Indiana, Pa.

Ninth Weather Service Operations Class Completes Course

Shown above are the participants in the Ninth Weather Service Operations Class held at the National Weather Service Technical Training Center in Kansas City, Mo., from October 27 - November 23. They are (from left): Mike Weinrich, instructor; Frank Sealy, Corpus Christi, Tex.; Jim Malinosky, Rochester, N.Y.; Fred Ackerson, Binghamton, N.Y.; John Sossamon, McGrath, Alaska; Marvin Kuykendall, Portland, Oreg.; Larry Burns, Instructor; Jesse Tyson, Red Bluff, Calif.; Jerry Watts, Detroit, Mich.; Dave Bell, Columbus, Ohio; Ken Shaver, Baltimore, Md.; Dean Melton, Fresno, Calif.; Douglas Eck, Del Rio, Tex.; Al Duncan, Eureka, Calif.; Fred Day, Sault Ste. Marie, Mich.; Dale Helgerson, Rockford, Ill.; Harry Arashiro, Honolulu, Hawaii; Andy Martinez, Brownsville, Tex.; and Don Whitman, Instructor.

Climatic Summary of San Juan Published

The National Weather Service, in cooperation with the Puerto Rico Information Service, Inc., has published a resort area climatic summary of San Juan, P.R., by Robert J. Calvesbert, Climatologist for Puerto Rico. The booklet is entitled, "Climatography of the United States," No. 21-66-1, Climatic Summaries of Resort Areas. It is one of a series of climatic summaries of resort areas issued by the NWS.

The eight-page illustrated brochure includes a history of San Juan and Puerto Rico, and climatic data of interest to the traveler. Copies may be obtained from Mr. Calvesbert, Climatologist for Puerto Rico and the Virgin Islands, G.P.O. Box 4407, San Juan, P. R. 00936

Atmospheric Turbidity and Precipitation Sampling Program Becomes Operational

Final preparations have been completed for implementing National Weather Service participation with the Environmental Protection Agency (EPA) in the WMO regional environmental monitoring network.

The ten NWS stations participating in the program are Caribou, Me.; Atlantic City, N.J.; Raleigh, N.C.; Salem, Ill.; Meridian, Miss.; Huron, S.D.; Alamosa, Colo.; Victoria, Tex.; Pendleton, Oreg.; and Bishop, Calif.

The two-fold program (turbidity measurements and precipitation collection for chemical analysis) became operational as of December 1.

U.S. and Soviet Fisheries Scientists Discuss Status of Pacific Stocks

Fisheries scientists of the United States and the Soviet Union met recently at the National Marine Fisheries Service North Pacific Fisheries Research Center in Seattle, Wash., to determine the status of important fisheries stocks in the northeast Pacific Ocean.

Dr. Dayton L. Alverson, Acting Center Director, headed the U.S. delegation, with advisors J. McCrary, Alaska Department of Fish and Game; E. C. Greenhood, California Department of Fish and Game; Drs. F. M. Fukuhara, J. C. Quast, and P. E. Smith, NMFS; W. F. Hublou, Fish Commission of Oregon; G. B. DiDonato, Washington Department of Fisheries; and Professor D. E. Bevan, University of Washington.

Card Punching Eliminated by Equipment

The final shipment of 20 key stations and three control units for the Inforex Intelligent Key-Entry System has been delivered to EDS' National Climatic Center at Asheville, N.C. The control units store data keyed at the stations on discs and, by supervisor control, enter the disc storage onto magnetic tape, eliminating the need for punching cards.

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

National Oceanic and Atmospheric Administration

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