



NOAA WEEK

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

FLARE Seafloor Studies Involve Three Women Scientists

Dr. Beaumariage Named Director Of Manned Undersea Programs

Dr. Donald C. Beaumariage has been named Director of the Manned Undersea Science and Technology program at NOAA. Dr. Beaumariage had been leading consultant to the program for several months before his appointment as director.

The MUS&T program was begun in late 1971 as part of NOAA's responsibility to increase man's knowledge of the ocean environment and its living and mineral resources. Among other things, MUS&T provides the facilities, such as submarines and habitats, to enable man to work under the ocean on science and research projects. The program currently supports the Florida Aquanaut Research Expedition, the intensive undersea study of the waters and ocean floor being conducted off the southeastern coast of Florida.



Before joining NOAA to help set up the MUS&T program, Dr. Beaumariage held senior management positions in Advanced Technology and Information Systems, Bunker-Ramo Corp. He headed the corporation's Eastern Technical Center as Director of Engineering.

Prior to his work with Bunker-Ramo, he was manager of a number of advanced electronic systems in several RCA Defense Electronics Products Divisions and managed the RCA Data Systems Center, Bethesda, Md.

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A team of three women aquanauts launched the second phase of FLARE (Florida Aquanaut Research Expedition) March 28 off Key Largo, near Pennekamp State Park, Fla. Dr. Sylvia Earle, Carole Aregood, and Zdenka Goldstein are conducting a four-day research project on undersea plant life and its significance to marine animals.

Their project is the sixth of nine studies in the three-month exploration of coral reefs. FLARE missions are conducted from the midget habitat EDALHAB, stationed at a depth of 45 feet, which draws life support from the catamaran vessel LULU.

Team leader Dr. Earle, the mother of six children ranging in age from 16 to 3, is a diver-scientist who has studied underwater life in the Indian Ocean, the Caribbean Sea, off South America, and off both coasts of the United States. She is presently a member of the staff of the Los Angeles Museum of Natural History, as well as an associate in scientific departments at Harvard University, the University of California, and the University of South Florida.

The 37-year-old marine botanist and biologist was team leader on one of the 1970 TEKTITE II missions off the Virgin Islands, and a participant in dives on the submersible DEEP DIVER off the Bahamas, in the 1968 "Man-in-the-Sea" project. Dr. Earle's latest in an extensive list of fellowships and awards was her selection as the Los Angeles TIMES' "Woman of the Year," in 1970.

Dr. Earle's two associates on the undersea exploration for FLARE also are seasoned divers. Ms. Aregood, a teacher at Trenton State College (N.J.) has had ten years of diving experience, primarily in Florida waters; technician Ms. Goldstein, who

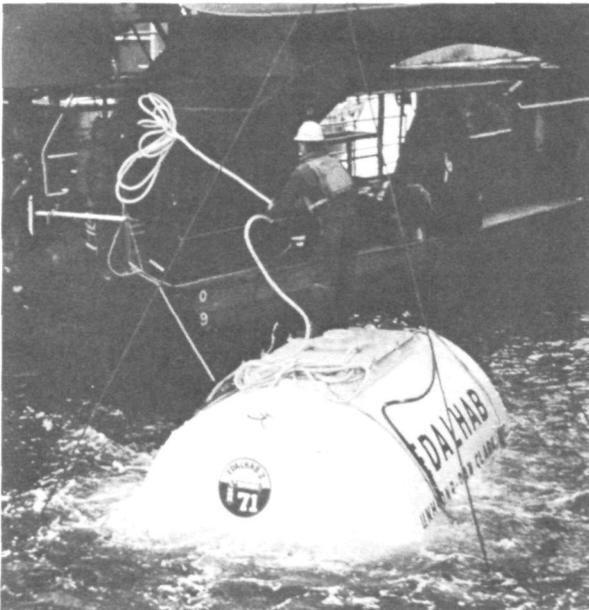
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FLARE (Continued from page 1)

works for a South Florida firm of consulting engineers and is studying for an engineering degree at Miami-Dade Junior College, has been diving in Florida waters and off Andros Island (the Bahamas) for the past several years.

Participants in the March 28-April 1 FLARE event are concentrating on the interaction between marine plants and animals. The scientists are collecting and classifying a wide variety of reef vegetation (probably more than 100 species) throughout each day and into the night. At the same time, they will observe the activities of plant-eating fishes on the reef and in surrounding areas. Expectations are that the data gathered will expand knowledge of food habits and preferences of reef fishes, and provide measurements of the influence herbivores ("grazers") have on reef plants. The botanical study will provide comparative data for a similar study undertaken earlier by Dr. Earle in the Virgin Islands.

A part of NOAA's MUS&T (Manned Undersea Science and Technology) program, FLARE also receives support from NOAA's Sea Grant office. The scientific coordinator for the second phase of FLARE (March 28 to April 17) is NOAA geologist Dr. Robert Dill.



EDALHAB II, the small undersea habitat in which three women scientists are currently living and working off the southeast coast of Florida as part of FLARE, is shown suspended between the twin hulls of its mother ship LULU during dockside exercises.

Tuna Tag Find Nets \$300 Prize For Canadian Cannery Worker

A 20-year-old Canadian cannery worker won \$300 when a tuna tag she found while at work carried the winning number in the first lottery sponsored by the International Commission for the Conservation of Atlantic Tunas (ICAT). The Commission headquartered in Madrid, Spain, plans to hold the lottery annually to publicize the importance of tagging studies to the conservation of tunas in the Atlantic, and to encourage return of tags and recovery information.

Dr. Albert C. Jones of the NMFS Southeast Fisheries Center at Miami, and Chairman of the ICAT sub-committee on stock identification, said that the winning tag came from a nine-pound bluefin tuna, which had been tagged by an Arlington, Mass., man on August 14, 1970, near Block Island. The fish was recaptured over a year later by a Canadian fishing vessel, which delivered it to a cannery in St. Andrews, New Brunswick.

In the United States, the Cooperative Game Fish Tagging Program is sponsored by the Woods Hole Oceanographic Institution on the east coast, and by the NMFS Fishery-Oceanography Center at LaJolla on the west coast.

Dr. Beaumariage (Continued from page 1)

He was also leader of the Theoretical Analysis Group at Sperry Gyroscope Company for several years.

Dr. Beaumariage was awarded the Doctor of Science degree by Carnegie Institute of Technology in 1950. He previously had earned an M.S.E.E. at that institution in 1948 and had received a B.E.E. from Cornell University in 1946. While at Carnegie, he was a Research Engineer and Instructor in the Department of Electrical Engineering. During 1959-60, he was a Sloan Fellow, Executive Development Program, Massachusetts Institute of Technology, receiving a degree in 1960.

Dr. Beaumariage is a Registered Professional Engineer, State of Massachusetts, and is a member of the Institute of Electronic and Electrical Engineers' Professional Group on Engineering Management. He is also a member of the national honor societies Tau Beta Pi (engineering and science), Sigma Xi (research), Pi Mu Epsilon (mathematics), and Eta Kappa Nu (electrical engineering). He is listed in American Men of Science.

Takashi Miyahara To Head NMFS State-Federal Relations

The National Marine Fisheries Service has announced the appointment of Takashi Miyahara, as Chief of its Office of State-Federal Relationships, effective about April 10. Mr. Miyahara will be responsible to the Associate Director for Resource Management for planning and administering State-Federal cooperative efforts in developing and implementing new concepts for managing commercial and recreational fisheries. He also will direct the Service's \$6.5 million grant-in-aid program.

The State-Federal Fisheries Management Program is intended to create and encourage national systems for managing the Nation's fisheries resources. In directing this activity at the national level, Mr. Miyahara will represent NMFS in contacts with members of Congress; State and Federal officials, including State legislative bodies; officials of scientific organizations and commercial and recreational fishing groups, to develop programs and policies for solving fisheries management problems of mutual concern.

Mr. Miyahara worked in the Bureau of Commercial Fisheries (now NMFS) from 1953 to 1962 when he resigned to join Wakefield Fisheries of Alaska as General Superintendent for about nine years. After leaving the Federal service, he was asked to continue his association with scientists on the U.S. Section of the King Crab and Tanner Crab Subcommittee of the International North Pacific Fisheries Commission and on several occasions he served as chairman and spokesman for the subcommittee. He also worked with the Alaska Department of Fish and Game and the Alaska Legislature on the State's king crab program.

He holds a B.S. degree in fisheries from the University of Washington, Seattle, and is a member of the American Institute of Fisheries Research Biologists.

Some Weather Service Specialists Upgraded

The National Weather Service is upgrading Weather Service Specialist personnel at a limited number of Weather Service Offices effective April 2. Personnel Action papers are now being processed and will be delivered to those affected shortly. These actions are being taken as a result of the new Meteorological Technician Classification Standard by the Civil Service Commission.

Dr. White To Join In Dedication Of Texas A&M Sea Grant Status

Dr. Robert M. White, Administrator of NOAA will deliver the keynote address at dedication ceremonies April 6, honoring Texas A&M University as one of the nation's first four Sea Grant College during Texas Sea Grant College Day on the University campus.

Other participants include University President Jack K. Williams; Dr. John C. Calhoun, Jr., vice president for academic affairs and director of the Sea Grant Program; Clyde Wells, chairman of the board of directors, Texas A&M University System; Texas Land Commissioner Bob L. Armstrong; Dr. William McIlhenny, Dow Chemical Company; Dr. Richard Geyer, head, Department of Oceanography; and Ronald Tomas, president, Graduate Student Council.

Following the dedicatory address, persons giving distinguished service to the university's Sea Grant program will be recognized for their contributions.

Later in the day, Robert B. Abel, Director of NOAA's Sea Grant Program, will headline an open student seminar on the topic "Careers in the Marine Sciences."

Sea Grant College designation represents a commitment to continue the programs instigated under institutional support and to expand these to include every facet of marine resources development and coastal zone management.

A&M shares its new Sea Grant College status with three other marine-oriented universities --- Oregon State, Washington and Rhode Island.

Nine NOS Men Author Papers for AGU Meeting

Nine National Ocean Survey men will deliver papers at the 53rd annual meeting of the American Geophysical Union in Washington, D.C., April 17-21. Seven are from the Office of Marine Surveys and Maps. They are Jack Fancher, II, Steacy Hicks, Richard Perry, Milton Rutstein, Kenneth Potter, Douglas Elvers and Joseph Morley. Their papers cover shelf seiches in Puerto Rico, the tectonic history of the northeast Pacific, crustal lineations in southwest Alaska, gravity measurements over the northeast Pacific seabed, and deformation of the sea floor and fracture zones off the Washington-Oregon coast. Bernard Chovitz and Allen Pope of NOS's Geodetic Research and Development Laboratory, will deliver papers on gravity anomalies and pseudo-inverses.

Mrs. Watford Back To School For Day's Teaching Assignment



Environmental Data Service geophysicist Ola B. Watford was among a group of scientists who volunteered to be "math teachers for a day" in Boulder, Colo., recently while the students' regular teachers attended a conference of the National Council of Mathematics in Denver. The scientists were invited to be guest lecturers by the school district to give junior and senior high students an opportunity to see how math is applied to research and industry.

Mrs. Watford, a staff member of the magnetic charts branch of EDS' Geomagnetic Data Division, taught geometry and honors math classes at the senior high level. To demonstrate how math plays a significant role in her work, she distributed sample copies of an observatory's magnetograms which, she explained, are translated numerically and constitute a daily printed record of the direction and magnitude of the earth's magnetic field. She added that extensive data are collected on land, sea, and air, pointing out that 200 land-based observatories function throughout the world, including one near Boulder.

Mrs. Watford explained that computers now directly contour the isomagnetic lines shown on the charts. When published, these charts are not only useful for theoretical studies by scientists but also as navigational aids by both ships and airplanes, and for updating land plots by surveyors.

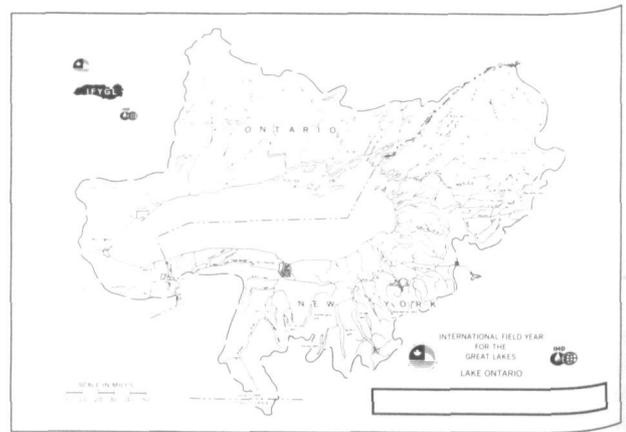
NWS Prepares Fishermen's Weather Forecast

The Boston Weather Service Forecast Office is preparing a "Georges Bank and Nantucket Shoal" forecast for dissemination on the Hyannis and Boston VFH-FM weather radio stations. The broadcast combines several offshore area forecasts and is designed to assist the commercial fishing fleet operating from New Bedford and Gloucester.

Special Charts for IFYGL Printed by Lake Survey Center

The Lake Survey Center's Press Section has completed running its portion of the special series of Lake Ontario charts to be used during the International Field Year for the Great Lakes (IFYGL). The charts are being prepared by the Lake Survey Center and the Department of the Environment, Marine Sciences Branch, Canadian Hydrographic Service. The topographic data were compiled in 1971 from Canadian Hydrographic Service National Topographic System Mapping charts, and U.S. Department of Interior Geological Survey charts. Lake Survey field sheets were used as the base for hydrographic depiction.

The IFYGL charts prepared by LSC include: (1) a Planning Chart showing the drainage basin at a scale of 1:500,000, with universal transverse mercator grid shown in blue; (2) a land and sea version of the 1:400,000 LSC Chart 2 showing the Decca lattice system in red and green, for navigational purposes; (3) Plotting Charts at a scale of 1:80,000, with bathymetric contour at 10 meter intervals, Decca lattice shown in red and green, UTM grid shown in blue, and containing five miles of shore detail only; and (4) two chartlets, each 8" x 11", one showing the Lake Ontario drainage basin and the other Lake Ontario only. Altogether, a total of eight charts printed at the scale of 1:80,000 will be used--the three by LSC and five furnished by Canada. They were designed especially for and will be used solely by the scientists carrying out this important project.



This chartlet of the Lake Ontario drainage basin is a sample of those being prepared and printed for the International Field Year for the Great Lakes by NOAA's Lake Survey Center.

NMFS Reports Gray Whale Count Down 15 Percent From Average

The National Marine Fisheries Service reports that the number of gray whales counted during the annual southward migration between December 18 and February 8 is down about 15 percent from the average count since the census began five years ago. Although the counts were quite consistent from 1967-68 through 1970-71, the decrease this season does not necessarily indicate a decline in the gray whale population according to the NMFS. Two NMFS observers stood equal numbers of morning and afternoon watches during the count, which takes place in daylight hours just south of Monterey, California. Weather conditions, visibility, ocean currents, and other factors differ from year to year and could be responsible for the lower count this season.

The table shows the gray whale counts for only those dates in which the census was in operation during each of the five years:

Season	Count
1967-1968	3,120
1968-1969	3,081
1969-1970	3,064
1970-1971	3,304
1971-1972	2,588

Fisheries experts said that while no definitive reason can be given for the decrease, a larger portion of the whale population could have migrated farther offshore due to increased boat traffic in the Monterey area, as happened at Point Loma, Calif., during the past decade. Studies of the gray whale will be continued to assure that every precaution is taken to protect the species.

The gray whale was already on the endangered species list when former Commerce Secretary Stans terminated commercial whaling in the United States at the end of 1971. Other whales on the endangered list are the finback, sei, sperm, bowhead, blue, humpback, and right whales.



Gray Whale Up For Air

Cdr. James P. Randall Directs NOS Aeronautical Charting

Cdr. James P. Randall is the National Ocean Survey's new Deputy Associate Director for Aeronautical Charting and Cartography. Cdr. Randall will assist the Associate Director, Frederick O. Diercks, in the administration of approximately 565 NOS personnel charged with the production of more than 50 million aeronautical and nautical charts annually.



A 1952 graduate of the University of Cincinnati, Cdr. Randall joined the commissioned corps in 1954. He has since served on seven of the agency's ships, as Commanding or Executive Officer on five ships; chief of a photogrammetric field party; command pilot of the air photo missions; liaison officer with the Federal Aviation Admin.; Deputy Director of the Survey's Executive and Technical Services Staff; and, most recently, as Technical Assistant to the Associate Director, Aeronautical Charting and Cartography.

Cdr. Randall is a U.S. Air Corps veteran. He has attended the Army's Flight Training School and the Armed Forces Staff College.

Weather Service For Deaf Inaugurated

A new weather service for the deaf was inaugurated at the NWS Forecast Office in Indianapolis on March 9. Participating in the ceremony were MIC Glen V. Sachse and Dr. H. Latham Breuning.

Dr. Breuning is National President of Teletypewriters for the Deaf, Inc., whose 2,000 members over the nation use teletypewriters in their homes to "talk" with each other over regular telephone lines. Under the new service, whenever a severe weather watch or warning affects the Indianapolis area, the teletypewriter tape is first used to transmit on regular circuits. Then, it is made into a loop and placed in the "Teletypewriter for the Deaf" transmitter. When someone calls the special number for this circuit, the teletypewriter will transmit the contents of the loop, then stop and be ready for another call. When no watch or warning is in effect for the Indianapolis area, the tape loop will carry the latest local forecast.



Dr. Gordon Lill, Deputy Director of the National Ocean Survey, has been reappointed to the Advisory Council of the Institute of Marine Resources at the University of California at Berkeley. The reappointment, by Charles J. Hitch, President of the University, will extend through August 31, 1974.

On March 10, Cdr. Freddie L. Jeffries and Lt. Jimmy A. Lyons completed the first two-week refresher course given at the NOAA Officer Training Center for NOAA Corps personnel being reassigned to sea duty after tours ashore.

Philip M. Cohen, Chief of the National Ocean Survey's Marine Geophysics Group, has been appointed Chairman of the Committee on Marine Surveying and Mapping of the American Congress on Surveying and Mapping. The Committee represents the organizations and disciplines which tie together common techniques, standards, and requirements for surveying continental shelf areas, and for the integration of these factors covering the transitional zone in coastal areas.

Captain Leonard S. Baker, Chief, Division of Geodesy of the National Geodetic Survey, was recently elected to a three-year term as a Director of the American Congress on Surveying and Mapping. Captain Baker has been appointed by the incoming President, Mr. Ed Miller, as Chairman of the Finance Committee and as a member of the Financial and Administrative Matters Committee.

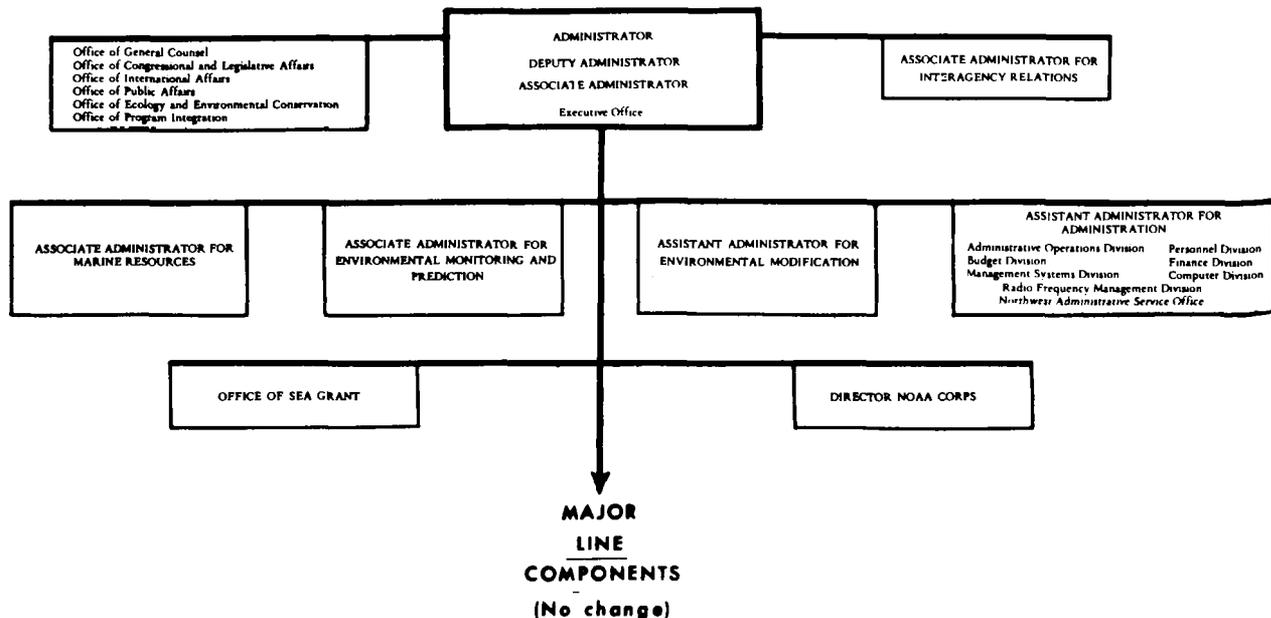
Moore Fills Modification Post Created by Reorganization

Recent revisions in NOAA's organization structure have resulted in the establishment of a new Office of Program Integration and an Assistant Administrator for Environmental Modification. The reorganization also eliminates the old Assistant Administrator for Policy and Plans and Associate Administrator for Science and Technology, assigning their functions to the new office and assistant administrator and other components. The Office of Program Integration acts as a focal point for NOAA contacts with the

Office of the Secretary and the Office of Management and Budget on program matters and guides the overall planning-programming functions for NOAA.

Donald F. Moore, former Assistant Administrator for Policy and Plans, has been assigned the new position of Assistant Administrator for Environmental Modification. His duties are to oversee and establish policy for NOAA's activities in both intentional and inadvertent environmental modification. He will also be in charge of NOAA's aircraft resources.

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



Weather Service Radars Dedicated in Nebraska and South Dakota

A new combined Weather Service Office and radar facility were dedicated at the Grand Island, Nebraska, Airport on March 1.

The ceremony was attended by government officials, community officials, and national and regional officials of the National Weather Service.

The new office has the latest model weather surveillance radar, which provides a capability of looking at severe local storm clouds, such as thunderstorms, often at a distance up to 200 miles. This equipment will enable the Weather Service Office to provide better weather and warning services in a region that includes North Central Kansas and most of Nebraska other than the Panhandle.



Among those at the formal dedication of the Grand Island Weather Service facility on March 1 were (from the left) J. Schmidt, Charles Knudsen (NWS Central Region Director), C. Stephens, C. Mancuso, S. Fleharty (Meteorologist in Charge), R. Petersen, M. Tignor, J. Kieffer, D. Schmidt, D. Stokes, and O. Burnett.

Lt. Oliver On Six-Month Inspection Tour

A six-month field inspection of navigational facilities and conditions in Puerto Rico and the U.S. Virgin Islands will be made by

Lt. (jg) Larry J.

Oliver of the NOAA Corps for the National Ocean Survey.

He will consult with local, federal and state agencies, port authorities, pilots and other marine interests in the area. His findings will be incorporated in a

new edition of U.S. Coast Pilot 5 for the Atlantic Coast, Gulf of Mexico, Puerto Rico and Virgin Islands, scheduled for publication in 1973.



Another Weather Service radar was dedicated on March 7 at Huron, S. Dak. A number of state and local officials were on hand for the ceremony at the Huron NWS facility. The high-powered WSR-57 radar is the first of its kind installed in South Dakota. Its 250-mile range will provide severe storm surveillance over most the state, a large part of Nebraska, North Dakota, Minnesota, and northwestern Iowa. It will operate in conjunction with Weather Service radar already in operation at Grand Island (see above), Des Moines, Iowa, and Minneapolis, Minn., to provide a more detailed storm and severe weather warning service to the upper Midwest.



Cutting a symbolic ribbon at the dedication of the Huron, S. Dak., Weather Service radar are (from the left) Philip A. Calabrese, NWSH; C.E. Fowler, NWS Huron; and Charles G. Knudsen, NWS Central Region Director.

Thirty In NOS Complete Computer Course

The following thirty members of the National Ocean Survey's Geodesy Division recently completed an introduction to a computer course taught by the Electronic Computing Division of NOS: W.R. Bishop; J. Buczek; L.E. Butler; J.L. David; C.O. DeMarr; C.F. Ellingwood; C.J. Fronczek; C.L. Gilliland; C.F. Kelley; S.E. Luckey; R.W. Miller; N. Morrison; C.C. Mortenson; J.B. Mosier; M. Navyasky; J.E. Pettey; A.A. Poling; B. Putziger; S.M. Reese; K.E. Rudkin; K.H.F. Schaffrath; I.W. Smith; D.S. Snellgrove; J.F. Spencer; P.R. Spofford; H.S. Stettner; J.H. Till; J.J. Whitmore; G. M. Young; and J.C. Young. Personnel not in the Geodesy Division who also attended the course were: S. Martin; Z. Wooldredge; and Dr. H. Orlin.

Length of Service Awards

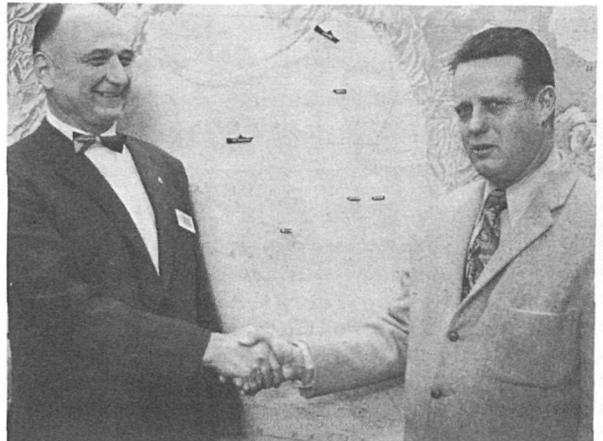
NOAA Headquarters employees who received length-of-service awards in February were: 35 years - Samuel C. DELFIN and Thomas F. FINNIN. 30 years - Martin ROSENBLATT; Dorothy D. MARTIN; James P. CONDAXIS; Perry E. WALPER; Luther A. OLSON; Eulalia N. MANDES; Lucile F. VAUGHN; Nathan M. BARREY; Harlan K. SAYLOR; Roy M. McCARTER; Hyman ORLIN; Eleanor C. HUNTER; Walter J. BIENIA; Warren E. CARLSON; Richard S. LEWIS; Edward L. BEISEL; William K. DAVIS; William S. GURNEE; Hugh J. CHRISTIAN. 25 years - Helen T. HAGEMEYER; Blanche G. LANIER; Simon I. KAUFMAN; Roma MILLER; Alan H. SHAPLEY; and Robert D. BALKOVIC. 20 years - L. Clarissa WALKINS; James R. NICHOLSON; John P. COBURN; Darrel J. FOAT; Richard BOLLINGER; James E. PETTEY; and Betty C. MENGEL.

National Weather Service Eastern Region employees who received length-of-service awards during February and March were: 35 years - Peter F. GORDON, New York, WSO; 30 years - Charles H. RYLAND, Pittsburgh, Pa., WSFO; Omer E. MURRAY, Philadelphia, Pa., FIU; William A. DREBERT, Boston, Mass., WSFO; Robert A. COLLINS (SET), Albany, N.Y., WSFO; Clyde P. THOMAS, Wilmington, N.C., WSO; Samuel K. PARRISH, Charleston, S.C., WSO; William E. KENNEDY, Cleveland, O., WSFO; Carl M. RELYEA (HIC), Cincinnati, O., RFC; Christopher LEGANO, New York N.Y. (NYU), WSFO; James B. PERRY, Boston, Mass., WSFO; Robert F. BOWES, Cleveland, O., WSFO; Charles ARCHAMBAULT, Boston, Mass., WSFO; Nicholas E. RIZZO, Personnel, ERH.

National Weather Service Western Region employees who received length-of-service awards during February were: 35 years - Paul A. ARNERICH, San Francisco, PWP. 30 years - Albert MALACH, Fresno, WSO; Philip LARCH, Medford, WSO; Ray W. ECHOLS, Pocatello, WSO; David I. WISE, Sacramento, WSO. 25 years - Harley D. GINGERICH, Billings, WSO. 20 years - William H. HENNING, Eureka, WSO; John R. STRAUCH, Missoula, WSO; Robert J. MANGELS, San Francisco, PWP; Corinne M. GOGUE, Stockton, WSO.

Employees at the National Geodetic Survey Operations Center, NOS, who received length-of-service awards in February were: 30-years - Gerald A. JAHN, Party G-16; and Harry W. WHITE, Party G-21. 25 years - James T. STAPLETON, Mark Maintenance Branch; and John D. RIGNEY.

Environmental Research Laboratories employees who received length-of-service awards during January, February and March include: 35 years - Ernestine G. SCOTT, ARL. 30 years - Albert L. FORST, O/D; Marshall G. HATCH, O/D; Merrill L. CLEVEN, ESL; Leonard M. MURPHY, ESL; Charles H. TRUE, AOML; Roland V. GOULAIT, ARL; Irving I. SHULMAN, GFDL; Margaret M. BIVANS, ORSS; William A. FRANCIS, JR., EDS. 25 years - Howard T. ELLIS, ARL; Franklin A. GIFFORD, Jr., ARL; Arthur G. JEAN, Jr., SEL; Nathan W. STIEWIG, ORSS; Alan H. SHAPLEY, EDS; 20 years - Robert N. POWELL, O/D; I. Vander HOVEN, ARL; Howard G. SCHROEDER, SEL; Gerard R. OCHS, WPL; Arthur E. BURNS, ORSS; Eugene M. RASMUSSEN, O/D.



Paul Arnerich (above left) received a 35-year length-of-service award from Charles Roberts, Marine Supervisor of the National Weather Service's San Francisco-based Pacific Weather Patrol.

DiLeo Now Handles NOAA Business Cards

Effective immediately, business cards are now being handled for the NOAA Employees Association by Mr. Michael J. DiLeo, NOAA-NWS, W332, Washington, D.C. 20233. Cards bearing the official U.S. Department of Commerce and NOAA emblems will continue to be furnished to employees for \$3.50 per hundred plus \$1.00 for each additional 100 cards requested with the initial order. Checks should be made payable to NOAA Employees Association and forwarded at the time of order.

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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