



NOAA WEEK

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

Spacecraft Oceanography Group Joins NOAA

On May 1, 1972, John W. Sherman III and a staff of six marine scientists moved from the U.S. Navy Spacecraft Oceanography (SPOC) Project and joined the Office of Research, National Environmental Satellite Service. The SPOC Project was established in October 1965 at the Naval Oceanographic Office and transferred to the Naval Research Laboratory in 1971. This project has worked closely with the National Aeronautics and Space Administration, the Navy, and the ocean community to identify requirements and develop experiments for the remote sensing of oceanographic variables using aircraft and satellites. The addition of the SPOC Group to the National Environmental Satellite Service will augment NOAA's ongoing research and development efforts in marine environment data acquisition.

ERL-Designed Bucket-Line Dredge May Stimulate Offshore Mining

A team of engineers at the Environmental Research Laboratories has designed a bucket-line dredge that may help solve the problem of economically mining minerals on the continental shelves.

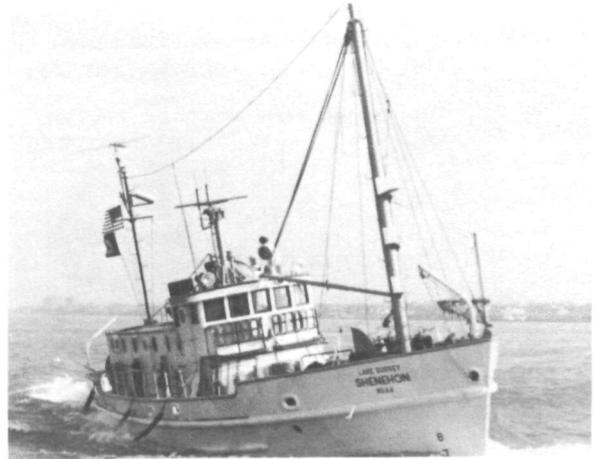
Research on the dredge was done by Project Leader Robert D. O'Brien, assisted by Consulting Engineer Charles M. Romanowitz and other members of the staff at the Marine Minerals Technology Center (MMTC) in Tiburon, Calif.

The design is for a huge bucket-line mining dredge, with 54-cubic foot buckets, which can operate 150 feet below the ocean surface, and can move anywhere along the continental shelf.

The research group converted the basic design of a Panama Canal dredge proposed by Yuba Industries in 1948 into a complete mining unit by adding a gravity treatment plant with a capacity of 2,200 cubic yards per hour.

The gravity treatment plant would use water and gravitational force to separate

SHENEHON Begins Studies Of Lake's Heat Loss



The NOAA Ship SHENEHON is making a week-long study of water currents out of Lake Ontario that cause temperature changes in the Lake. Understanding this process, called advection, is a key part of understanding the lake's thermal structure, which affects water circulation, ice formation, pollutant dispersion, and wildlife habitats.

The project of the research vessel, operated by the Lake Survey Center, is part of the International Field Year for the Great Lakes (IFYGL).

The vessel will work two preselected stretches of the St. Lawrence River, and make eight "stations" -- sites for detailed measurement -- on each section, taking detailed water velocity and temperature readings.

At some seasons there are two or more layers of water of differing temperatures entering the river from Lake Ontario.

Cold water, which is more dense and therefore heavier than warm water, usually constitutes the lower layers, unless it is stirred up by natural mixing actions in a flowing stream. SHENEHON's studies are designed to find out what the overall heat loss of Lake Ontario through the St. Lawrence amounts to, and where the point of water mixing is located.

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Lasaro R. Maipi Is Appointed Official in Charge at Truk WSO



Supervisory weather observer Lasaro R. Maipi (left) is shown being congratulated by National Weather Service Pacific Regional Director P.H. Kutschenreuter, who swore him in as Official in Charge of the Weather Service Office at Truk, Eastern Caroline Islands. In the center is John G. Norris, PRH personnel officer.

Mr. Maipi, who began his weather career in 1953, is the first Micronesian selected to head a WSO. His appointment is the culmination of a program begun two decades ago to develop Micronesians to take over the observational program at weather offices in the Trust Territory of the Pacific Islands.

Since 1957, when the third class graduated from the weather observer training center established at Truk in 1954, all personnel at the stations -- except for the Officials in Charge -- have been Micronesians.

In 1968 the National Weather Service, with the cooperation of the East-West Center, University of Hawaii, inaugurated the Micronesians Scholarship Program to begin developing employees to replace the American Officials in Charge. Each year a technically-qualified Micronesians is selected to study management and administration at the Kapiolani Community College and receive supplementary training at the Regional Headquarters, the Honolulu Forecast Center and at a weather office on one of the neighbor islands.

When he returns to his weather station he begins on-the-job training in the administration and supervision of the station under the technical guidance of the American Official in Charge.

Future plans call for the filling of the Official in Charge positions with Micronesians at the four other Trust Territory weather offices -- Koror, Majuro, Ponape and Yap -- when adequate training has been provided.

Rayfield, Greenwood, and Irving Are Named to New Posts in NOS



Mr. Rayfield Mr. Greenwood Mr. Irving

Three new appointments have been made in the National Ocean Survey's Office of Fleet Operations at Rockville, Md. They are: Earl W. Rayfield, as Chief of the Operational Support Branch in the Operations Division; Mel Greenwood, as Staff Assistant to the Associate Director for Fisheries Resources; and William C. Irving, as Plans and Programs Officer.

Mr. Rayfield has been with the Federal Government for 19 years, the last seven with the NOS and its predecessor, the Coast and Geodetic Survey. Mr. Greenwood's prior 23 years of service with the Federal Government have been entirely with the National Marine Fisheries Service and its predecessor, the Bureau of Commercial Fisheries. He will now serve in a liaison capacity with Fleet Operations. Mr. Irving served in the Navy for 12 years before joining the U.S. Naval Oceanographic Office in 1962. His past five years have been with NOO's Operations Office.

Bucket-Line Dredge (Continued from page 1)

minerals from the raw material.

The dredge would be powered by a diesel generating system with a 12,000-horsepower capacity, housed in a catamaran-type ship.

To date, the largest onshore bucket-line dredge varies in capacity from 18 to 20 cubic feet with maximum capacity of 800 cubic yards mined per hour, a little over one-third the capacity of the MMTC dredge design.

Romanowitz says the MMTC dredge has the potential to make offshore mining feasible on the continental shelves. It could bring within reach a greater range of marine mining formations that could not be worked with smaller capacity designs. And it could operate at very high capacities for very low cost, offsetting additional costs inherent in offshore mining.

SAVE THAT DATE

The NOAA Employees Association Spring Dance, featuring continuous music--"Dixie" and Swing by Ralph Graves' Band and Rock by the Colony--will be held at St. Bern-

ard's Crystal Room, Riverdale, Md., May 20, from 9 - 1. Tickets (\$3.00 per person) and further details are available from NOAA Club Delegates.

Congressional Committee Staffs To Review NMFS Research

The National Marine Fisheries Service and NOAA's Office of Congressional Affairs have arranged a May 12 program at the NMFS Biological Research Laboratory in Oxford, Md., to provide staff members of Congressional committees with an overview of NMFS research programs.

Arrangements were made by Charles Odell of the Office of Congressional Affairs.

New Bulletins Aid Forecasters Preparing Thunderstorm Forecasts

Ronald M. Reap, Research Meteorologist at the National Weather Service Techniques Development Laboratory, has developed a numerical model which generates on computer two new bulletins which serve as guidance for operational forecasters in preparing thunderstorm forecasts.

Called FOUS 10 and FOUS 11, the new bulletins started appearing on the Service C (NWS teletype) network on March 29. They contain 24-hour forecasts of temperature and dew point for 68 specific locations in the United States, and a stability index for thunderstorm occurrence, along with six-hourly positions which define the path (or trajectory) taken by individual parcels of air terminating at the surface, at 5,000 feet, and at 10,000 feet.

Newton A. Lieurance Is Honored by Airlines For Contributions to Weather Forecasting



Newton A. Lieurance (right), Special Assistant to the Administrator for Aviation Affairs, is shown receiving the 1971 Gorrell Award of the Air Transport Association of America (ATA) for his work in weather analysis leading to improved flight planning by the airlines. On the left, is Mrs. Lieurance.

ATA president Stuart G. Tipton (center), cited Mr. Lieurance's work as advisor to the airline meteorological committee almost from its formation in 1937, which "made airline operations more reliable, thereby giving better service to the public," and congratulated him for "helping the airlines strengthen what is really the backbone of our service posture--accurate weather predictions for use in flight planning."

NOAA Will Be a Participant In Pollution Control Conference

NOAA is one of eight Government agencies participating in the second annual conference on Pollution Control in the Marine Industries. The two-day conference, sponsored by the International Association for Pollution Control, will be held May 11 and 12 at the Shoreham Hotel in Washington, D.C.

Dr. Richard E. Hallgren, NOAA's Associate Administrator for Environmental Monitoring and Prediction, will speak on "Effects of Waste, Oil, and Hazardous Materials on the Marine Environment" in the Friday p.m. session on Survey of Programs for Control of Solid Wastes, Hazardous Materials, Air and Noise Pollution in the Marine Industry.

Further information and registration and reservation materials are available from the IAPC, Suite 303, 4733 Bethesda Ave., N.W., Washington, D.C. 20014

Rear Admiral Tison Is Elected a Director Of International Hydrographic Organization

Rear Admiral James C. Tison, Jr. (Ret.), former Director of the Coast and Geodetic Survey (now the National Ocean Survey), has been elected a Director of the International Hydrographic Organization in Monaco. Election to the three-member Directing Committee of the 43-nation organization came at the IHO's Tenth Conference. Adm. Tison, who will serve for five years, was with the C&GS from 1929 until his retirement in 1968, the last three years as Director.



Catalog Will Describe NGDC Services

During the past year, the Environmental Data Service's National Geophysical Data Center (NGDC) supplied marine geophysical data at cost to 42 petroleum exploration groups, 10 mining companies, and 35 other companies involved in marine consulting or contracting activities. In addition, representatives from 10 private companies visited NGDC to discuss its data holdings in marine geophysics. A catalog describing the Center's services is now in preparation.

NMFS Holds Marine Workshop in Gloucester

Services of National Marine Fisheries Service to fishermen and international trade opportunities in fisheries were major topics of a marine extension workshop held recently at the NMFS Northeast Regional Office in Gloucester, Mass.

Co-sponsored by the Sea Grant-funded New England Marine Resources Information Program, the workshop was directed to sport and commercial fishermen.

NWS Eastern Region Forms Two New Advisory Councils



Shown above are the members of the recently formed National Weather Service Eastern Region Meteorological Technician Advisory Council. They are (from left): J. Cizek, Portland, Maine; C. Miller, Mansfield, Ohio; M. Hill, Huntington, W. Va.; C. Clark, Raleigh, N.C.; E. Gregory, Washington, D.C.; S. G. Simplicio, Director, Eastern Region; E. Medeiros, Boston, Mass.; C. Kearney, Greenville-Spartanburg, S.C.; J. Fogarty, Worcester, Mass.; and T. Deacon, Williamsport, Pa.

Below are the members of the Region's new Meteorologist-Hydrologist Advisory Council. They are (from left): S. Mayer, Philadelphia, Pa.; E. Riech, Buffalo, N.Y.; A. Carlson, Charleston, S.C.; S. G. Simplicio, Director, Eastern Region; R. Waldman, Cleveland, Ohio; T. Grant, New York; I. Bartfeld, Hartford, Conn.; and R. Thomas, Albany, N.Y.



University of Connecticut Is Awarded Sea Grant for Long Island Sound Study

NOAA has awarded an \$85,000 Sea Grant to the University of Connecticut to help determine the budgets for heavy metal wastes in Long Island Sound.

The Sea Grant will be matched by funds from non-federal sources, according to Dr. Peter Dehlinger, program director at the university's Marine Sciences Institute. Project scientists will measure the amounts and distributions of hazardous heavy metals in the water, indicate the relative importance of biological and geochemical sinks, and determine how circulation and mixing processes of the Sound distribute these metals.

The results of this study will provide important base-line data for future management of the Sound's resources, contribute to the establishment of an early and sensitive system for monitoring water quality, and can provide information on heavy metal concentrations that may be of importance to public health.

NOAA Men Participate in Seminars On Natural Disasters, Planning

Allen D. Pearson, Director of the National Severe Storms Forecast Center, Kansas City, Mo., recently participated in a Seminar Series on Natural Disasters and Government Planning being held at Pennsylvania State University in University Park, Pa. His subject was "Tornado."

Mark Spaeth, Geophysicist in the Seismological Investigations Group of the Environmental Research Laboratories, is scheduled to speak on "The Tsunamis of April 1946 and March 1964, A Comparison," at the June 1 seminar session.

Dr. Robert H. Simpson, Director of the National Hurricane Center in Miami, Fla., is scheduled to speak at the June 8 session on the subject of "Hurricane."

Darvin L. Bisbee Dies

Darvin L. Bisbee, assistant to the chief of the Financial Assistance Division of the National Marine Fisheries Service, died recently. He had been in the NMFS headquarters office for four years, had served as financial assistance officer operating out of the NMFS Seattle office from 1962-1968, and previously had spent six years with the U.S. Navy. His widow resides in Silver Spring, Md.

Lake Studies (Continued from page 1)

Advection studies -- studies of heat gain and loss by movement of air or water -- are part of an overall IFYGL project to determine Lake Ontario's energy budget, which is the balance of inflow and outflow of energy from all sources. Energy gains and losses are caused by such factors as river currents, power plant discharges, solar radiation, and rain or snowfall, all of which will be measured during IFYGL.

Determination of the lake's energy budget will provide better information on evaporation, which is a major source of water loss. It will also provide basic data necessary for more effective water management in the lakes, making possible better decisions about proposed regulations concerning water use.

Advection studies also will be made by SHENEHON in late June, late August, and early November in the St. Lawrence, at periods when differing river currents and differing temperatures have differing effects on Lake Ontario's heat outflow.

Similar data will be collected by other IFYGL groups, both Canadian and American, at numerous locations throughout the Lake and its tributaries such as the lower Niagara River.

Data from SHENEHON will be used by U.S. and Canadian scientists working with the IFYGL heat balance studies of the lake. The group is led by Dr. A.P. Pinsak of the Lake Survey Center, and also includes John Grumblatt of the center, and Farrell Boyce of the Canada Centre for Inland Waters, Burlington, Ontario.

AMS Chapter in South Carolina Honors Science Fair Participants



Shown with Frederick Branden (back row, on the right), a forecaster at the National Weather Service Forecast Office in Columbia, S.C., and chairman of the local chapter of the American Meteorological Society, are participants in the Regional Science Fair at Columbia given special recognition by the Central South Carolina Chapter of the AMS.

In the front row are Leonard Green (left) and Douglas Smith, students at Orangeburg Middle School in Orangeburg County, whose project was entitled, "The Inversion and Its Effects on Pollution in the Air." On the left, back row, is Frank Shumpert, a student at Pelion High School, who received a certificate and book for his senior division project on "Raindrops."

Dr. Stillings To Co-Chair FPC Conference

Dr. Bruce R. Stillings, Director of the National Marine Fisheries Service Fishery Products Technology Laboratory at College Park, Md., is co-chairman of an international conference on fish protein concentrate (FPC) scheduled to be held June 6-8 at the Massachusetts Institute of Technology, Cambridge, Mass. The program has been structured to review FPC activities, delineate obstacles or problem areas, and assess the potential of FPC as a significant source of protein in human diets.

Sponsoring organizations include the Malnutrition Panel of the United States-Japan Cooperative Medical Science Program; the Committee on International Nutrition Programs; the Committee on Aquatic Food Resources of the Food and Nutrition Board, National Academy of Sciences-National Research Council; the MIT Sea Grant Program, and the University of Rhode Island Sea Grant Program.

Dr. Stillings also will present a review paper on nutrition, and other NOAA personnel scheduled to participate include Dr. W.F. Royce, Associate Director of NMFS for Resource Research, who will discuss perspectives of the resource; Roland Finch, Chief of the NMFS Fishery Products Research and Inspection Division, reviewing FPC processes; and Dr. Virginia Sidwell, also of the College Park laboratory, with a review paper on the technology of utilization.

New Surveys in Western States Are Begun by NGS Field Parties

Field parties of the National Geodetic Survey have recently completed surveying projects in several western states, and other surveys are getting underway.

Charles R. Lesley and Byron W. Miller are doing the preliminary field work for a 486-mile, six-month geodetic survey between Rock Springs, Wyo., and Leroy, Mont., and Woodrow M. Johnson's 16-man party is beginning the actual survey work.

Mr. Johnson's party recently completed part of a 12-month, 1,260-mile geodetic traverse survey extending through California, Oregon, and Washington. The other part of the survey was done by the 15-man party headed by Lowell D. Fair.

Mr. Fair's party is now beginning a new 10-month geodetic survey of more than 1,660 square miles in Oregon. This \$300,000, three-county survey is a cooperative project with the Mid-Williamette Valley Council of Governments to provide precise geographic positions for use in Oregon's centralized mapping program.

The 20-man field party headed by Clarence Symms is making a four-month, 150-mile geodetic survey to determine ground elevations in the vicinity of Bakersfield, Calif.

Ivan L. Crabbe's 15-man field party recently completed a seven-month, 4800-square-mile geodetic survey in southern Texas, in support of federal mapping projects and for state and local engineering planning. The party has now moved its headquarters to Kansas, where it will perform interstate highway surveys.



Lake Survey Technicians Receive Training On NOS Airport Obstruction Charts

The above photo was taken during a recent training session on the production and maintenance of airport obstruction charts, provided in Washington, D.C., by the Engraving Branch of the National Ocean Survey's Reproduction Division, for two technicians from the Reproduction Branch of the Lake Survey Center in Detroit. The men are (from left) Donald Dominick, LSC; Ralph Bower, NOS; Charles Watkins, LSC; and Daniel Klein, Foreman, Negative Engraving Branch, NOS. The training will enable the LSC's Reproduction Branch to assist whenever necessary with airport obstruction charts.

NOAA Employees Receive Length of Service Awards

The following names should have been included in the listing on March 31 of National Weather Service Eastern Region employees who received length-of-service awards during February and March: 25 years - James A. CARR, WSO New Brunswick, N.J.; 20 years - A. Boyd PACK, WSO/C Ithaca, N.Y.; Bobby OEHLERICH, WSFO Buffalo, N.Y.

Shown following a length-of-service award ceremony at the Environmental Research Laboratories in Boulder, Colo., last month are (from left) Arthur G. JEAN, SEL, 25 years; Dr. Wilmot N. Hess, Director of ERL, who presented the awards; Margaret M. BIVANS, RSS, 30 years; and Nathan W. STIEWIG, RSS, 25 years. Howard G. BOOTH, ARL, should have been included in the listing on March 31 of ERL employees who received 20-year length-of-service awards during January, February and March.



National Weather Service Pacific Region employees who received length-of-service awards during February and March were: 30 years - George W. GEISLER, Honolulu WSFO; 25 years - Neil J. INGRAM, Kwajalein WSFO; Neil M. BOURAY, WSS, WSO Kahului; Takaharu MIZUKAMI, PMRWS Barking Sands.

Personnel at the Environmental Data Services' National Climatic Center in Asheville, N.C., who received length-of-service awards in March were: 30 years (shown here, from left) - Robert K. HOOD, Robert E. HIMBERGER, and Paul J. KANE. 25 years - Conrad D. MANEY, Francis HUTCHINS, and Doris SORRELLS. 20 years - Frank W. NORTON, Beulah C. TAYLOR, Paul M. MURPHY, and Frederick B. WARREN.



National Weather Service Central Region employees who received length-of-service awards during February and March were: 30 years - Hayden A. FOX, WSO Cairo, Ill.; Helen R. GILDO, WSFO Chicago, Ill.; William D. GILMET, WSO Alpena, Mich.; Charles G. KNUDSEN, CRH Kansas City, Mo.; Leslie T. GERDES, WSO Peoria, Ill.; Morton B. PETERSON, WSO Grand Rapids, Mich.; James E. RHODES, CLSC Kansas City, Mo.; John C. STOKES, WSO Alamosa, Colo.; Ralph T. TICE, WSO Topeka, Kans. 25 years - Edward F. FALKOWSKI, WSFO Detroit, Mich.; Clair D. MILLS, NSSFC Kansas City, Mo.; John R. SLOAN, WSO Williston, N. Dak. 20 years - Curtis J. SMITH, WSO S/C, Lincoln, Nebr.; Milton G. STIRDIVANT, WSO Green Bay, Wis.; James R. WIGGINS, WSO Moline, Ill.; James M. YATES, WSFO Des Moines, Iowa; Benjamin L. BROWN, NSSFC Kansas City, Mo.; Donald E. GREGG, WSO Dodge City, Kans.; Harry E. HATFIELD, WSMO North Omaha, Nebr.; Donald R. WHITMAN, WSTTC Kansas City, Mo.



NOAA Headquarters employees who received length-of-service awards during March were: 40 years - Donald A. RICE. 30 years - Garland HILL; Francis X. OXLEY; Starr P. WILLIAMS; Eugene A. GARDNER; Samuel O. GRIMM, Jr.; Harold S. LIPPMANN; William RICHARDSON; Jesse H. EATON; Everett H. RAEMEY; Joseph MAGID; Nicholas C. KOKA; Max A. WICZER; Othal H. THOMAS; Alec SLEPITZA; Ralph C. TURBETT; Harry W. PARIZER; Wesley A. HARDY; Robert W. SCHLOEMER; James D. McQUIGG; Annie M. DARBY; Salvatore CALTABIANO; Emi KAMACHI. 25 years - Thomas W. DAVIS; Graden HARGER; Burl SMITH; Vincent J. MALONEY; John E. BRUNETTE; Saul C. BERKMAN; Leroy L. JODRIE; William L. RAYNORE; Joseph G. VAETH. 20 years - Dr. Robert M. WHITE, NOAA Administrator; Kenneth MACDONALD; Robert L. BLOOMBERG; Edward P. GUY; Thomas H. REPPERT; Robert P. LANE; Warren C. HAGEN; John J. CHAKALIS; Sylvia O. KATZ.

Shown with former Lake Survey Center Director Captain Robert E. Williams (second from left) are LSC employees who recently received awards for 30 years of service. They are (left) William J. SLATER, Reproduction Branch; Dorsey A. HAMRICK, Chart Section (third from left); and Joseph SCHANTA, Reproduction Branch (right).



Hollis C. HOWES, Party G-20, assigned to the National Ocean Survey's National Geodetic Survey Operations Center received a 30-year length-of-service award during March.



James T. STAPLETON (left), Mark Maintenance Branch, National Geodetic Survey Operations Center, is shown receiving a 25-year length-of-service pin from Center Director Captain G.L. Short.

National Weather Service Western Region employees who received length-of-service awards during March were: 30 years - Richard B. GRAVES, Eugene WSO; Thomas E. KEOUGH, San Francisco WSFO. 25 years - David M. FEHLING, Seattle WSFO; DeVon B. SMITH, Salt Lake City WSFO; Aran MARKARIAN, Yakima WSO.

Rear Admiral Norman E. Taylor, Director of the Pacific Marine Center (left), recently presented a 35-year length-of-service pin to William MARTIN (center), Chief of PMC's Processing Division. On the right is Gordon Shadoan, Chief NASO Personnel Division. Richard LYNN of PMC received a 25-year pin.





notes about people...

James E. Caskey, Jr., and Robert R. Freeman of the Environmental Data Service's Environmental Science Information Center recently participated in a seminar series on Information Retrieval through a telephone discussion facility (tele-lecture). The seminar was conducted by the Kent State University School of Library Science. Mr. Caskey summarized the philosophy of technical information by which NOAA's primary publication services, library services, and secondary information services have been merged with NOAA's data services into a single organization--the Environmental Data Service. Mr. Freeman reviewed the technical approaches by ESIC to automation of technical information service through computer storage and retrieval.

John McAlinden, Supervisory Cartographer in the National Ocean Survey's Marine Geophysics Group, presented a paper on "Systematic Geophysical Mapping of Continental Shelves and Deep Ocean Areas" at the recent annual meeting of the American Association of Petroleum Geologists in Denver, Colo.

James T. Bradley, Florida State Climatologist since 1970, has been selected to be the Climatological Information Specialist in the Lakeland, Fla., Rotary Club. Mr. Bradley holds a B.S. from the City College of New York, an M.S. from New York University, and will receive his Ph.D. in meteorology from NYU this spring.



Mr. Bradley

Dr. Arthur P. Pinsak, Chief of the Lake Survey Center's Water Characteristics Branch, and Charles E. Adams, a physical scientist in that Branch, presented papers at the Fifteenth Conference on Great Lakes Research held recently at the University of Wisconsin in Madison.

Hundreds of Great Lakes scientists and technicians from the public, private and university communities annually attend this conference to exchange new ideas and discuss their different research projects.

Dr. Pinsak's paper concerns the diversity of the sediment and water composition at Rochester Harbor and their relation to the disposal mechanisms, interaction of the sediments, and mechanisms of trace element fixation.

Mr. Adams' paper describes characteristics and methods of calibration of a settling tube which the Water Characteristics Branch has built, that provides a method for sediment-size classification, an improvement over the accuracy of typical

size classification techniques, such as sieving, and also reduces analysis time.

William H. Haggard, Director of the National Climatic Center, Asheville, N.C., has received an "Award for Devoted and Unselfish 'Service above Self'," from the Governor of District 767 of Rotary International, in recognition of the work he did for the District Governor in Rotary extension.

Harris Magnusson, fishery technologist with the Technical Assistance Division of NOAA's Office of International Affairs, has been assigned to an 18-month tour of duty in Saigon, Vietnam.

Mr. Magnusson will work with the Department of State's Agency for International Development and the Vietnamese Directorate of Fisheries, mostly in industrial development and processing areas. He has served 19½ years with the Federal fisheries agency, and previously served 11 years as director of technology for the National Fisheries Institute.

Glenn H. Trapp, Meteorologist in Charge of the Rochester, Minn., Weather Service Office, recently received a commendation from the State of Minnesota Civil Defense Office for his "exemplary public service to the counties of Dodge, Goodhue, Fillmore, Freeborn, Houston, Mower, Olmsted, Rice, Steele, Wabasha, and Winona, Minnesota, for the past six years."

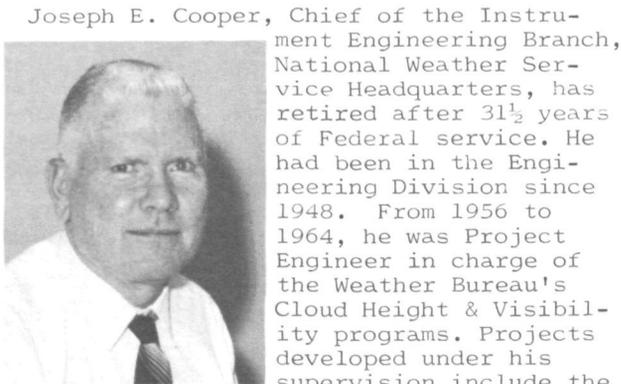
Cited as being particularly noteworthy were his accurate announcements and warnings during the severe weather occurrences of 1971, his assistance in training Civil Defense volunteer weather spotters and cheerful cooperation with Civil Defense personnel.

Alan H. Shapley, the Environmental Data Service's Acting Associate Director for Geophysics, recently participated in a meeting of the International Council of Scientific Unions' Commission on Solar-Terrestrial Physics held in London, England. The Commission met to update and restructure plans for international interdisciplinary cooperative programs. Detailed study group reports were accepted on the planned International Magnetospheric Study (IMS) 1976-78 involving intensive coordinated satellite and ground-based observations. Scientific objectives were formed for other cooperative studies which will eventually lead to observation programs concerning the dynamics of solar and interplanetary plasmas and the physics and chemistry of the total terrestrial atmosphere. Mr. Shapley is the leader of the program for Monitoring of the Sun-Earth Environment (MONSEE), which supports all other programs and includes the overseeing of data exchange.

Helmut C. Boker Dies

Helmut C. Boker, a Weather Service Specialist at the Harrisburg, Pa., Weather Service Office, died on April 30. With the NWS since 1966, he had been in Harrisburg all of the time except for a few months' duty in Pittsburgh.

Recent Retirements of Six NOAA Employees Are Announced



Joseph E. Cooper, Chief of the Instrument Engineering Branch, National Weather Service Headquarters, has retired after 31½ years of Federal service. He had been in the Engineering Division since 1948. From 1956 to 1964, he was Project Engineer in charge of the Weather Bureau's Cloud Height & Visibility programs. Projects developed under his supervision include the

Runway Visual Range System and numerous engineering refinements to the Rotating Beam Ceilometer System.

Gertrude A. Fricke, meteorologist in the Scientific and Technical Publications Division of the Environmental Data Service's



Environmental Science Information Center, retired on April 28, after more than 30 years of Federal service.

She was employed by the Census Bureau in 1940, after teaching in Marshalltown, Iowa, Public Schools for several years. In 1942, she entered the Weather Bureau as a statistical clerk, and subsequently served as a meteorologist

and climatologist in its Climatological Services Division, and as a general physical scientist in EDS's Publications Group. In 1970, she received a Department of Commerce Bronze Medal.

She attended Iowa State Teachers College, received a bachelor's degree from George Washington University, and in 1956 was awarded a graduate assistantship in meteorology and climatology by the University of Washington.

Robert T. Small, Meteorologist in Charge of the Weather Service Office in Spokane, Wash., retired on April 15, after 35 years' service.

He received the Department of Commerce Bronze Medal Award in 1968 for his outstanding competence as MIC and achievements in public service programs. His earlier assignments were at Boise, Idaho; Pomona, Calif.; Pendleton and Medford, Oreg. Mr. and Mrs. Small reside at

1515 East 38th Avenue, Spokane, Wash., 99203.



Recent retirees from the Atlantic Marine Center, in Norfolk, Va., included Surveying Technician Matthew A. Stewart and William Shearouse, Chief of Photo Party 60. Shown above at a luncheon in their honor, are (from left) Harland R. Cravat, Chief, Surveys Planning Branch, National Ocean Survey Coastal Mapping Division; Mrs. Shearouse; Elgan T. Jenkins, Chief of Photo Surveys Branch, AMC; Mr. Shearouse; Rear Admiral Alfred C. Holmes, Director, AMC; Mr. Stewart; and Mrs. Stewart.

Mr. Stewart began his service with the Coast and Geodetic Survey (predecessor of the NOS) in 1942. Recognized for years as being the outstanding precise level man in Photogrammetry's Coastal Surveys, he was assistant chief of the party that received a commendation for the accuracy of the original survey made for the Fredericksburg, Va., Magnetic Observatory. He was also a recipient of the 1960 Karo Award of the Society of American Military Engineers. He and Mrs. Stewart are residing in Myrtle Beach, S.C.

Mr. Shearouse has been with the agency since 1934, except for three-plus years in the late thirties, when he worked for the T.V.A. and the Agriculture Adjustment Administration. He often was selected to negotiate with and perform surveys that were primarily for other Federal or state agencies, and his commendations included many for speeches on the work of the agency given before various civic organizations. His most recent honor was receipt of the Karo award for his assistance in the recent survey between the U.S. and Mexico. He and Mrs. Shearouse plan to live in Bradenton, Fla.

John Fuller, Weather Service Specialist



at San Diego WSO, recently retired after 35 years' Federal Service. All of his service was in the Weather Service Western Region, and mostly at San Diego. He was assigned at Sacramento and Phoenix for a few years in the 1940's. His address is 11537 Jessica Lane, Lakeside, California 92040.

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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