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# NOAA WEEK

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

## NWS, Coast Guard Expand Great Lakes Ice Forecasting

The National Weather Service, in cooperation with the U.S. Coast Guard, is expanding its ice-forecasting service for commercial shipping on the Great Lakes.

The effort is part of the Demonstration Program to Extend the Shipping Season on the Great Lakes and St. Lawrence Seaway, under the general management of the Army Corps of Engineers. NOAA and a number of other agencies, both public and private, are participating in the program--now in its second year--aimed at lengthening the navigation season on the Great Lakes during the winter months.

Traditionally, ice has blocked passage of ore boats and other large vessels on the lakes for periods of two to three months each winter. Officials believe faster and more-detailed weather reports will help commercial skippers keep going longer.

As one part of the ice-forecasting expansion, the NWS this year has assigned one of its meteorologists, Daron Boyce, fulltime to the Coast Guard Ice Navigation Center at Cleveland. His work will supplement that of the main Great Lakes Ice Forecasting Center at the National Weather Service Forecast Office in Detroit. Mr. Boyce's last duty station was at the Weather Service Forecast Office in Buffalo, N.Y.

The Cleveland center will be equipped with regular Weather Service teletypewriters and facsimile equipment so that personnel there will have available the latest weather observations and forecasts for briefings and chart information to relay to shipping agents and vessel captains.

The main ice-forecasting unit at the weather office in Detroit is expanding its service to issue ice and weather reports twice a day, instead of once a day--an ice outlook, issued at 10:40 a.m. will give mariners general information extending over the next several days; and an ice forecast will provide more specific information for a period ending at 7 p.m. the following day. Both will be available from Coast Guard radio stations around the Great Lakes.

Early in January, a new marine teletypewriter network for the Great Lakes is becoming operational. It will link U.S. and

## Ten NACOA Appointments Announced by President

President Nixon has announced ten appointments to the National Advisory Committee on Oceans and Atmosphere, which was established in 1971 to advise the Secretary of Commerce with respect to NOAA, and the President and the Congress with respect to the national program in marine and atmospheric affairs.

The new appointees are:

L. W. Lane, Jr., of Portola Valley, Calif., President, Lane Magazine and Book Company, Menlo Park, Calif., and Chairman, California Tourism and Visitors Services Commission. He succeeds Ralph A. MacMullan, who died on September 24, 1972.

Betsy Ancker-Johnson, of Seattle, Wash., Academic/Science Advisor, Research and Engineering Division, Boeing Company, Seattle, Wash. She succeeds Werner A. Baum, whose term has expired.

Perkins Bass, of Peterborough, N.H., member of Manchester, N.H., law firm of Sheehan, Phinney, Bass and Green, and former Congressman from New Hampshire. He succeeds John C. Calhoun, whose term has expired.

Arthur Godfrey, of Paeonian Springs, Va., radio and television personality, and International Trustee, World Wildlife Fund. He succeeds Gilbert M. Grosvenor, whose term has expired.

Charles L. Hosler, Jr., of State College, Pa., Dean, Earth and Mineral Sciences, Pennsylvania State University, University Park, Pa. He succeeds William O. Moody, Jr., whose term has expired.

John W. Luhring, of Los Angeles, Calif., Executive Director of Public Affairs, Union Bank, Los Angeles, and President, Los Angeles Board of Water and Power Commissioners. He succeeds Verner E. Suomi, whose term has expired.

Arthur E. Maxwell, of Quinsett, Mass., Provost, Woods Hole Oceanographic Institution, Woods Hole, Mass. He succeeds Edward Wenk, Jr., whose term has expired.

Donald B. Rice, Jr., of Santa Monica, Calif., President, Rand Corporation, and former Assistant Director, Office of Management and Budget. He succeeds Myron Tribus, whose term has expired.

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## Commander Michael H. Fleming Named To Command DAVIDSON

Commander Michael H. Fleming has been named Commanding Officer of the NOAA Ship DAVIDSON. He was



formerly liaison officer at the State Department's Office of International Affairs.

His other assignments since becoming a commissioned officer in 1961 have included service aboard various oceanographic and hydrographic survey vessels, with gravity and photogrammetric field parties, and with the National Environmental Satellite Service. His ship assignments included command of the survey ship LESTER JONES.

He graduated in 1961 from the University of Washington.

### Training in Marine Data Management For Developing Countries Will Continue

The Environmental Data Service's National Oceanographic Data Center (NODC) has received a grant to continue its training course in marine data management for developing countries. The funds for the fourth session of the program will be provided by the National Science Foundation Office for the International Decade of Ocean Exploration. The course is being given to strengthen the capabilities of developing countries to acquire and use marine data and information.

Twenty-three students from sixteen African, Asian, and Latin American countries participated in the first three training sessions. These sessions were sponsored by the Intergovernmental Oceanographic Commission of UNESCO and funded by the U.S. State Department Agency for International Development (AID). The AID-funded portion of the program will conclude with visits by NODC specialists to some of the participating countries. The specialists will provide on-site technical assistance in the establishment and operation of national oceanographic data centers. Chile, Columbia, Ecuador, and the Republic of Korea have already requested such assistance.

### Bond Authorization Cards Must Be Completed To Change Address on U.S. Savings Bonds

Employees participating in the U.S. Savings Bond program who wish to have the mailing address changed on their savings bonds must complete a Bond Authorization Card, SF-1192, and submit the change to the Payroll Office. A number of savings bonds are being returned to the Payroll Office due to incorrect addresses. The only means of changing addresses on U.S. Savings Bonds is by the use of the Bond Authorization Card, SF-1192.

## Cooperative Charting Contributors Named to USPS, NOS Honor Roll

A record 14,142 corrective items were submitted in 1972 by the U. S. Power Squadrons for maintenance of NOAA nautical charts, an increase of 16 percent over the previous year. To honor those making the greatest contributions to the cooperative charting program, the U. S. Power Squadrons and the National Ocean Survey, which prepares, maintains and issues the charts, have established an annual Honor Roll of Power Squadron districts, squadrons and individuals.

Those making the Honor Roll include:  
Districts -- 3,4,5,6,8,16,21,22,25, and 27.

Squadrons -- Swiftwater and Buffalo of District 6; Marathon and Key West of District 8; Poverty Bay of District 16; Chicago of District 20; San Antonio and Houston of District 21; Fort Myers of District 22; Cocoa Beach of District 23; Diablo of District 25; Tybee Light of District 26; and Fayetteville, Durham, Kingston, and Raleigh of District 27.

Individuals -- John Vanorsky, Raritan Squad., Dist. 4; Charles J. Manney, Buffalo Squad., Dist. 6; Fred Schmidt, Rochester Squad., Dist. 6; Albert L. Allen, Key West Squad., Dist. 8; Samuel S. Leavitt, Marathon Squad., Dist. 8; Robert F. Fletcher, Len Kellar, Richard E. McComb, and George A. White, Poverty Bay Squad., Dist. 16; Ray Snyder and C. E. Pomeroy, Chicago Squad., Dist. 20; Louis L. Guido, Jr., and Victor J. Weiss, San Antonio Squad., Dist. 21; James E. Hoover, Dayton Squad., Dist. 24; Robert E. Kuntz and William R. Macke, Diablo Squad., Dist. 25; Bertrand H. Dunegan, Tybee Light Squad., Dist. 26; and Richard W. Pritchard, Fayetteville Squad., Dist. 27.

Plans for the 1973 program will be made

at the annual Power Squadron meeting in Miami, Fla., January 11-13, at which Captain John Boyer, Chief, Marine Chart Division, will represent the National Ocean Survey.

The cooperative charting program is directed by Herman C. Anderson, Chief of the Chart Information Branch.



Mr. Anderson

### Latins Complete Training Aboard DISCOVERER

A two-month education and training mission for Latin American marine scientists and students was completed December 15 with the return to Miami of the NOAA Ship DISCOVERER. A total of 401 persons from the Caribbean area boarded the ship for periods ranging from one day to two weeks. Participants in the work at sea included: Mexico, 101; Trinidad, 73; Colombia, 63; Venezuela, 62; Jamaica, 51; Puerto Rico, 50; Netherland Antilles, 1.

## ALBATROSS IV Transferred To NOS Fleet Operations

Rear Admiral E. A. Taylor (left), Director of the National Ocean Survey Office of Fleet Operations; Melvin Greenwood (center), Staff Assistant to Admiral Taylor; and Rear Admiral A. C. Holmes



(right), Director of the NOS Atlantic Marine Center in Norfolk, Va., looked over otter trawl while aboard the ALBATROSS IV, research vessel of the Northeast Fisheries Center. They were visiting the Woods Hole facility to discuss the transfer of the vessel from the National Marine Fisheries Service to the NOS Office of Fleet Operations.

## Pickens To Command RUDE / HECK; Noble Is Named Executive Officer

Lieutenant Commander Leonard E. Pickens has been named Commanding Officer of NOAA's wire drag ships, the RUDE and HECK. The ships' new Executive Officer is Lieutenant Commander William M. Noble.

Lt. Commander Pickens had served as Executive Officer of the ships for the past year. He has been a commissioned officer



Lt. Commander Noble

since 1961, when he received his degree in civil engineering from Worcester Polytechnic Institute.

Lt. Commander Noble last served as chief pilot for the National Ocean Survey's Coastal Mapping Division. He received his engineering degree from the University of California at Los Angeles in 1964, and has been a commissioned officer since that year.

## Cooperative Research on Sablefish Conducted by NMFS and Soviet Ship

The Soviet research vessel OGON, in cooperative research on sablefish with the National Marine Fisheries Service Northwest Center at Seattle, Wash., conducted surveys out of Vancouver, Canada, during October and November 1972. Soviet scientists reported they tagged 3,350 sablefish, using NMFS tagging gear. Soviet and NMFS tagging records were exchanged when the first phase of the survey ended. Tagging gear was left aboard the OGON in anticipation of additional sablefish tagging by the Soviet vessel.

## Lieutenant Commander Fidel T. Smith Heads Hydrographic Field Party 746

Lieutenant Commander Fidel T. Smith is the new chief of Hydrographic Field Party



operations officer of the OCEANOGRAPHER and DAVIDSON.

746. The party is engaged in hydrographic surveys off the northwest coast of Florida, using a high speed launch. Lt. Commander Smith has been a commissioned officer since 1965. His previous assignments have included service in the satellite triangulation program, aboard the PATHFINDER, and as

## 7th Weather Radar Class Is Held at NWS Technical Training Center in Kansas City, Mo.

Participants in the 7th Weather Radar Class held at the National Weather Service Technical Training Center in Kansas City, Mo., November 28 - Decem-



ber 14, 1972, were (front row, from left) Ellie Pittman, Jr., Lake Charles, La.; George Lucas, Memphis, Tenn.; Ross K. Gardner, Atlantic City, N. J.; Raymond Pedersen, Des Moines, Iowa; Henry Mooney, Midland, Tex.; (second row, from left) Bill Winkert, Instructor; Bob Ponds, Jackson, Miss.; Edgar Hultman, Jr., New York, N.Y.; George Crabtree, Kansas City, Mo.; Dean Cole, Evansville, Ind.; Stephen Gilbert, Chatham, Mass.; Billy Ryan, Wichita, Kans.; and Larry Burns, Instructor.

## 1972 Albacore Tuna Catch Is Second Largest in History

West Coast commercial tuna fishermen in 1972 landed 34,000 tons of albacore ("white-meat" tuna), one of the largest catches ever recorded. The record was set in 1950 with a catch of 36,000 tons.

The 1972 figure is based on preliminary catch statistics tabulated at the National Marine Fisheries Service Southwest Fisheries Center, La Jolla, Calif., whose marine scientists work closely with state and industry fisheries managers.

The total catch for the Oregon-Washington-British Columbia coast showed a record 22,200 tons of albacore, representing a 91 percent increase over 1971 for the area. Off California, although the catch of 11,500 tons was down this year by 36 percent, it remained higher than individual catches of the other three sections.

A good year for albacore was predicted in May by NMFS investigators who scientifically scouted West Coast waters last spring in advance of the annual eastward migration of albacore. Forecasts of albacore landings have been produced annually for the past 12 years by the NMFS La Jolla Center. The forecasting group is under the direction of oceanographer Dr. R. Michael Laurs. The service was expanded in 1971 and 1972 by the establishment of a collaborative research program by NMFS and the American Fisherman's Research Foundation (AFRF).

In 1972, the cooperative effort involved a pre-season research cruise (May and June) by the NOAA Ship TOWNSEND CROMWELL, in loose company with 12 "jigboats" (boats that troll for albacore) and one baitboat, all chartered by the AFRF. Research procedures included exploratory fishing and tagging, measurement of water temperatures at the surface and at various depths, water transparency measurements, synoptic weather observations, and the preparation of detailed fishing logs. Analyses of the data produced considerable new information on the early shoreward (west to east) migration of albacore.

Later during the fishing season, additional research was conducted by an AFRF-chartered baitboat in company with the NOAA Ship DAVID STARR JORDAN off central California, using sonic devices to tag and track small-scale movements of albacore.

NMFS prognosticators were not on the mark concerning location of the biggest part of this year's catch, due to unpredictable changes in oceanographic conditions. Their early forecasts projected the major harvest of albacore south--rather than north--of San Francisco. They did, however, advance the possibility that warm waters could develop off southern California in late summer and limit fishing success in that area.

Throughout the albacore fishing season, the NMFS fisheries center at La Jolla transmits radio news on weather and fishing

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## Maritime Day Smart Ship Award Is Received by NOAA's McARTHUR



The NOAA Ship McARTHUR was the National Ocean Survey's representative to Seattle's 1972 Maritime Week commemoration, and won the award for being the outstanding government vessel. Rear Admiral Norman Taylor (left), Director of the Pacific Marine Center, presented the Smart Ship Award to the McARTHUR's Commanding Officer, Commander George M. Poor, when the vessel returned to Seattle at the conclusion of the field season. The inscription on the plaque reads, "Smart Ship Award presented to CSS McARTHUR, National Maritime Day 1972 by Propeller Club, Port of Seattle."

### Ice Forecasting (Continued from page 1)

Canadian weather stations and commercial marine radio stations. Information on this circuit will include routine ice and weather forecasts, storm watches and warnings, observations from ships and shore stations, notices to mariners, and urgent Coast Guard messages pertaining to navigation on the lakes. Non-Government agencies desiring this teletypewriter service may obtain information on installation and cost of necessary equipment from the ice forecaster at Cleveland.

To facilitate coordination of marine warnings, a dedicated telephone system has been installed linking the four principal weather forecast offices on the Great Lakes, including the Toronto office, and the Coast Guard's Ice Navigation Center in Cleveland. Calls on this system will be restricted to Great Lakes weather-and-ice problems.

### NACOA (Continued from page 1)

Clement Tillion, of Halibut Cove, Alaska, Member and Minority Leader, House of Representatives, Juneau, Alaska. Representative Tillion is being reappointed.

Elmer P. Wheaton, of Portola Valley, Calif., Vice President and General Manager for Research and Development, Lockheed Missiles and Space Corporation, Sunnyvale, Calif. He succeeds Rear Admiral Odale D. Waters, Jr., USN (Ret.), Department of Oceanography, Florida Institute of Technology, N. Indialantic, Fla.

Dr. William A. Nierenberg is Chairman of the 25-member committee, and Dr. William J. Hargis, Jr., is Vice Chairman. The committee submits an annual report to the President and the Congress.

## Supervision and Group Performance Course Given at NWS Center



Participants in the recent Supervision and Group Performance Course at the National Weather Service Technical Training Center in Kansas City, Mo., were: (front row, from left) Charles B. Johnson, WSFO Chicago, Ill.; Frederick M. Cramer, WSO Huron, S. Dak.; Lonnie R. Nine, WSMO Monett, Mo.; Margaret Barnes-Instructor-NOAA Personnel; Doyle Cook, WSFO Louisville, Ky.; John V. Graff, WSFO Minneapolis, Minn.; John Gruber, WSFO Chicago, Ill.; (back row, from left) Richard S. Baker, WSO Green Bay, Wis.;

Donald E. Henry, WSFO Minneapolis, Minn.; Sanford R. Miller, WSFO Sioux Falls, S. Dak.; Donal Davis, WSO Grand Island, Nebr.; Edwin L. Addison III, WSO Madison, Wis.; James A. Bynum, CLSC, Kansas City, Mo.; Duane F. Pond, CRH, Kansas City, Mo.; Joseph F. Audsley, NSSFC, Kansas City, Mo.; Raymond T. Lanigan, NSSFC, Kansas City, Mo.; Leonard Williams, CLSC, Kansas City, Mo.; and Leonard E. Peterson, WSO Duluth, Minn.

### Prospects Increasing for Survival Of Blue Whale--Largest Creature Ever

Recent passage of the Marine Mammal Protection Act of 1972 has renewed public interest in whales, seals, porpoises, and other marine mammals. Inquiries received by the National Marine Fisheries Service indicate that whales continue to fascinate students, especially younger students.

Apparently not everyone knows that the blue whale is by far the largest creature that has ever existed. The adult blue whale is larger than any dinosaur that ever lived, and is 15 to 20 times larger than an elephant. The blue whale weighs as much as 100 tons, and can reach a length of 100 feet. It has a heart weighing about half a ton, a tongue bigger than a taxicab, and a stomach that can hold more than a ton of food. Whales breathe air and can stay underwater for as long as two hours while swimming half a mile beneath the surface at a speed of 10 to 12 knots.

When blue whales could be taken legally, a specimen had a value of about \$10,000 in a processing plant. Blue whales were given complete protection by the International Whaling Commission in 1966 because of fears that they might become extinct. Many marine scientists now believe that prospects are favorable for the survival of the species. Present estimates place the blue whale population worldwide at about 10,000 animals, from a low of about a thousand in 1960.

### Stocking of Unutilized Lakes With Salmon Proposed for Alaska Interagency Project

A recent meeting among personnel of the National Marine Fisheries Service Alaska Regional Office, the Alaska Department of Fish and Game, and the Forest Service (U.S. Department of Agriculture) centered on a proposal to artificially stock coho salmon fry (young fish) in unutilized Alaska lakes. The area chosen for the interagency demonstration project is Port Walter, Baranof Island, Alaska.

The project proposes to expand fry stocking in five lakes totaling 740 acres and to evaluate the biological and economic feasibility of the concept for wider application in Alaska. Except for a small Dolly Varden population in two of the lakes, no salmon stocks exist in the selected waters.

The plan grew out of studies begun in 1969 of coho salmon stocking by the NMFS Little Port Walter station. Outstanding smolt production and adult returns from those studies led to other fry-stocking studies by NMFS at Tranquil Lake and nearby 41-acre Ludvik Lake, in 1972.

Present plans call for NMFS coordination of planning and provision of scientific leadership through its Port Walter station and staff; the provision of funding and manpower by the State of Alaska; and administrative assistance by the Forest Service in the preparation of environmental impact statements and the evaluation of the comparative biology of juvenile salmon stocked in the lakes.

## Fisherman Lands Black Marlin 800 Miles From Usual Habitat

The first black marlin ever landed in California waters was harpooned recently by commercial fisherman A.C. Sears while he was hunting swordfish. The 638-pound, 10 1/2-foot-long fish was caught east of San Clemente Island, at least 800 miles north of the species' usual habitat. Heretofore the tip of Baja California was considered the northernmost boundary for black marlin distribution.

Identification of the rare catch was confirmed by marine scientists from the National Marine Fisheries Service and the Scripps Institution of Oceanography, after which the specimen was presented to the San Diego Sea World for mounting and display. Black marlin, the scientists said, do not ordinarily stray far from tropical waters.

Studies of the complex ocean currents off the California coastline seem to indicate that the displacement of cold California currents by warmer tropical waters may be attracting increased numbers of tropical fish into California regions. These and other distribution patterns in the Pacific are under study at NMFS laboratories.

## Direct Washington/Moscow Circuit Expedites Progress of Meeting

Philip A. Dales, Communications Specialist in the Communications Standards and Procedures Branch of the National Weather Service's Communications Division, recently participated in an Informal Planning Meeting of the Regional Association-VI Working Group on Meteorological Telecommunications Study Group. The purpose of the meeting was to establish the transmission programs for the RA-VI portion of the World Weather Watch-Global Telecommunications System Main Trunk Circuit. Members from London, Paris, Offenbach, Stockholm, Prague, and Moscow and the WMO Secretariat attended.

During the meeting, which was chaired by V. N. Korotkikh, of the USSR, Mr. Dales talked to Edward B. Fawcett, Chief of the Analysis and Forecast Division at the National Meteorological Center in Suitland, Md., on the voice portion of the Washington/Moscow channel in order to provide the Study Group with detailed answers to several questions which had not been foreseen. This conversation contributed immeasurably to the completion of the programs in the short time allotted.

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Over 17,000 hydrographic surveys have been made by the National Ocean Survey and its predecessor, the Coast and Geodetic Survey, since the first such survey in 1834. The surveys are conducted for the production and maintenance of nautical charts.

## LSC Employees Receive Training In Photogrammetric Techniques

The Lake Survey Center is offering its employees indoctrination in photogrammetric principles and techniques in operating a Kelsh stereoplotter. The training, which began on October 30, is under the direction of Floyd R. Watts of the Surveys Branch and his assistant, Albin Barbuzinski.

Each student receives approximately 160 hours of intensive training.

For maximum efficiency, training is limited to two employees at a time. It is anticipated that it will be mid-June before training will be completed for all applicants. This group will be the reservoir for future staffing of photogrammetry operations.

## Lieutenant Commander Richard V. O'Connell Is OCEANOGRAPHER's New Operations Officer

Lieutenant Commander Richard V. O'Connell is the new Operations Officer aboard the NOAA Ship OCEANOGRAPHER. This is his second tour of duty aboard the NOAA Pacific Fleet flagship. Previous assignments since 1964, when he joined the commissioned corps, have included service aboard the NOAA Ship FAIRWEATHER, at the Honolulu Observatory, at the Fredericksburg (Va.) Geomagnetic Center, and at the South Pole.



## Lieutenant Melvin N. Maki Is Named Operations Officer of the McARTHUR

Lieutenant Melvin N. Maki is the new Operations Officer of the Seattle-based NOAA Ship McARTHUR. He joined the commissioned corps in 1966 and has served also on the BOWIE, PATTON and SURVEYOR.

## Tuna Catch (Continued from page 4)

conditions twice daily. The center issues regular albacore advisories as well, to commercial and sport fishermen, fish buyers, and fish processors.

The main objective of the albacore research conducted by NMFS scientists is to reach a better understanding of underlying factors affecting the prediction of the onset and subsequent development of the Pacific albacore fishery. Such an understanding might allow fishermen to extend the season and the area fished for the prized albacore.

# Length of Service Awards

A 20-year Length of Service Award was presented in September to George RAMSEY, who serves aboard the NOAA Ship McARTHUR.

NOAA Headquarters employees who received Length of Service Awards in November were: 35 years - Joseph PILEGGI, Frank LEWIS, and Francis V. KOHL. 30 years - Clella J. BARRY, William H. JOHNSON, Charles B. TAYLOR, Jr., Albert K. HEYWOOD, Elmo Franklin BABER, Charles W. MARSHECK, Eunice H. BLACKWELL, James E. CASKEY, Jr., Richard A. NUGENT, Francis X. SCHUSTER, Eugene L. PECK, William G. MCKINLEY. 25 years - H. William NEWMAN and Charles R. LEWIS. 20 years - Dorothy E. REH, Elizabeth V. LOVELESS, Reuben R. GRIFFIN, and Dorothy M. L. PHILSON.

National Weather Service Eastern Region Employees who received Length of Service Awards in November were: 35 years - Charles H. PIERCE, WSFO Boston, Mass.; Abraham S. KUSSMAN, WSFO New York, N.Y., and Henry G. KAPLAN, WSFO New York, N.Y. 30 years - John R. McCLAIN, WSFO Charleston, W. Va.; Murray STORCH, ERH; Gerald L. SHAK, ERH; and Mary E. EARLEY, WSMO Chatham, Mass. 25 years - George E. RAZEVICH, WSMO Dayton, Ohio. 20 years - Donald T. PARSONS, WSFO New York, N.Y.; Will D. TERRELL, Jr., WSO Charleston, S.C.; Maurice S. POWELL, Jr., AWP Boston, Mass.; and David D. BELL, Jr., WSO Columbus, Ohio.

Hilton M. Floyd (left), Fishery Methods & Equipment Specialist with the Brunswick, Ga., Laboratory of the NMFS Southeast Fisheries Center, received his 20-year Length of Service Award from Robert Cummins, Jr., Exploratory Fishing Program Manager.



National Marine Fisheries Service Southwest Fisheries Center employees in LaJolla, Calif. who recently received Length of Service Awards were: 25 years - Walter M. MATSUMOTO. 20 years - James L. SQUIRE, Jr. and Howard O. YOSHIDA.

National Weather Service Pacific Region employees who received Length of Service Awards in November were: 30 years - Louis HACKER, WSFO Honolulu; Harold A. STANDEN, WSFO, Kwajalein; and James A. BARTLETT, WSFO, Honolulu.

Employees at the National Marine Fisheries Service Northwest Fisheries Center, Seattle, Wash., who recently received Length of Service Awards are: 30 years - Carl E. ELLING. 20 years - Wallace W. BENTLEY, Gordon F. ESTERBERG, Winston E. FARR, Edward H. GRUGER, Jr., Rae R. MITSUOKA, Richard B. THOMPSON, Eileen D. KREITER, Alvin E. PETERSON, Felix FAVORITE, and Ansel M. JOHNSON.



National Weather Service Western Region employees who received Length of Service Awards in December are: 30 years - Robert M. BLACK, WH, WXAP, Salt Lake City; George A. FOWLER, Jr., WSO, Long Beach; Robert S. INGRAM WSFO Phoenix; Daryl E. Hahn, WSFO, Phoenix; Jack H. OLLER, WSO, Reno; Robert W. BEAL, WSO, Salem; and Fermin J. ARAGON, WSMO, San Nicholas. 25 years - Harold N. Wolcott, WSO, Boise; and Bruce R. KEWLEY, WSO, Winnemucca. 20 years - Glenwood H. STRAWN, WSO, Fresno; and John A. LLEWELLYN, WSO, Olympia.

Mary S. FUKUYAMA, of the National Marine Fisheries Service Scientific Publications Staff, Sand Point, Seattle, recently received a Length of Service Award for 25 years' service.

National Weather Service Western Region employees who received Length of Service Awards in November were: 35 years - Kenneth W. KEMPER, WSO, Flagstaff. 30 years - Eugene R. BARR, WSO (ARTC), Auburn; Charles HIBBARD, Jr., WSO (FW), Olympia; and Robert H. REESE, WSFO, San Francisco. 25 years - Ronald L. WAVRIN, WSO, Medford; Delora W. KASAVAGE, WSFO, Portland; and Robert E. HAYNES, WSFO, San Francisco. 20 years - Glenn R. TAYLOR, WSO, Seattle-Tacoma.

William MERCULIEF and Laurence GALANIN of the National Marine Fisheries Service Northwest Region, Seattle, Wash., recently received Length of Service Awards for 35 years of service.

National Weather Service Central Region Employees who received Length-of-Service Awards in November were: 35 years - Charles B. JOHNSON, WSFO Chicago, Ill.; Alfred C. LEE, WSFO Des Moines, Iowa; and Fred R. MAHER, WSFO Indianapolis, Ind. 30 years - Albert O. BANGERT, WSFO Omaha, Nebr.; Clark D. CRAMER, WSFO Sioux Falls, S. Dak.; Clyde R. WELCH, WSFO Chicago, Ill.; and Charles C. WILSON, WSO Lexington, Ky. 25 years - Allen D. PEARSON, NSSFC Kansas City, Mo. 20 years - Robert D. JOHNSON, WSFO Sioux Falls, S. Dak.; Marvin E. HASSE, WSO Madison, Wis.; and Eugene D. ORTMAN, WSO Huron, S. Dak.

Martin E. ZIMMER, of the Mark Preservation Branch at the National Ocean Survey's National Geodetic Survey Operations Center in Kansas City, Mo., received a 30-year Length-of-Service Award in November.



Harvey R. BULLIS, Jr. (left), Director of the National Marine Fisheries Service Southeast Fisheries Center, received his 25-year Length of Service pin from NMFS Director Philip M. Roedel.

## 15th Weather Service Operations Class Is Held in Kansas City



Participants in the Fifteenth Weather Service Operations Class held at the National Weather Service Technical Training Center in Kansas City, Mo., from November 28 to December 21, 1972, were: (First row, from left) Terrence Newman, Kwajalein, Marshall Islands; Jerold Parlier, Fargo N. Dak.; Melvin Lampley, Toledo, Ohio; Cristino Trujillo, San Juan, P.R.; Joe Johnston, Great Falls, Mont.; Delano Barr, Kotzebue, Alaska; Michael Wooldridge, Fair-

banks, Alaska; (second row, from left) Mike Weinrich, Instructor; Alfred Jenkins, Columbia, S.C.; Charles Francisco, Waterloo, Iowa; James Soileau, Glasgow, Mont.; Jim Wantz, Instructor; Lloyd Heiser, Dodge City, Kans.; Donald Endres, Binghamton, N.Y.; Don Whitman, Instructor; Elmer Tingle, Athens, Ga.; Frank Morine, Medford, Oreg.; Harold Davenport, Little Rock, Ark.; Marshall Battis, Fort Worth, Tex.; and Larry McEwen, Instructor.

## Automobile Repair Reform Advocate Speaks to NOVAC Group in Rockville



Patrick Goss, nationally recognized advocate of automobile repair reform, spoke recently before a quarterly meeting of NOAA Voluntary Action, Inc., at the Washington Science Center in Rockville, Md. The meeting was the first of the NOVAC series on managing personal finances. Future meetings will be held at other NOAA population centers in the Washington, D. C., area.

## Rockville Area Shuttle Service for Passengers and "Special Handling" Mail Is Begun

WSC-2	Mailroom	D	8:15	10:10	12:50	2:50
WSC-5	Room 513	A	8:20	10:15	12:55	2:55
		D	8:30	10:25	1:05	3:05
Wilkins Avenue Film Library Records Staging Exhibit Shop		A	8:45	10:40	1:20	3:15
		D	9:00	10:55	1:35	3:25
		A	9:15	11:10	1:50	3:35
		D	9:30			
NBOC-2	Room 307	D	9:30			
NBOC-1	Room 318	D	9:35	11:30	2:05	3:45
Rockwall	Room 306	A	9:45	11:35	2:10	3:55
	Room 400					
	Room 417	D	9:50	11:40	2:20	4:05
WSC-2	Mailroom	A	9:55	11:50	2:40	4:15

This is the schedule for a NOAA shuttle service within the Rockville area for passengers and "Special Handling" mail which has been put into effect by the Space and Services Section of AOD.

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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