



# noaa week

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## Hawaiian Firm Joins NMFS PUFU Program

A voluntary inspection program conducted by the National Marine Fisheries Service to assure high quality in fisheries products has been adopted by a Hawaiian food processor.

Under the program, Red and White Foods, Inc., of Honolulu will be permitted to place a "Packed Under Federal Inspection" (PUFI) mark on its products. The mark attests that the product has been statistically sampled at the time of processing and found to be safe, wholesome, and of good quality.

Red and White Foods, the first Hawaiian processor to enter the program, produces nine products distributed in Hawaii, the U.S. mainland, and Canada.

To meet the high standards required to display the PUFU symbol, a processor of fish products must agree to inspection by an NMFS representative who insures that the conditions under which the products are processed meet high sanitary requirements. All costs of the inspection program are carried by the participating firm.

## New Wind Shear Program Area Formed in ERL

Dr. Donald W. Beran has been appointed head of the new Remote Sensor Applications program area within the Environmental Research Laboratories' Wave Propagation Laboratory in Boulder, Colo.

The principal function of the new group is to work on the Federal Aviation Administration's wind shear project—a research study formerly part of the Wave Propagation



Dr. Beran

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## NWS Names Award for Nebraska Man

### Edward H. Stoll Honored for 70 Years Of Volunteer Weather Observations

The National Weather Service has named a new award after an 89-year-old retired farmer in Nebraska, who recently completed 70 years of recording weather observations.

The Edward H. Stoll Award becomes the most recent of the weather service recognition certificates given to unpaid observers for reporting weather data. More than 13,000 volunteers collect and record almost five million observations a year.

Other awards honor Thomas Jefferson and the Rev. John Campanius Holm, early American weather pioneers, but the Stoll Award is the first named for a contemporary observer.

Edward H. Stoll of Elwood, Nebr., began his observations in 1905—before anyone in the present-day weather service was born—and has recorded more than 25,000 individual daily observations. Now retired from active farming, he lives on the same farm to which his parents brought him when he was only one-and-a-half years old.

In 1960, he won the Holm Award; in 1970, he was named outstanding citizen of the State of Nebraska; and in 1973 he received the Jefferson Award. He is still active and is a gold mine of information about weather events he has observed.

A presentation dinner, at which the first Stoll Award will be given the man for whom it is



Mr. Stoll

named, is planned by NWS personnel for December 10 in Elwood. (Photo by Claire Hurlburt, Hastings Tribune, Hastings, Nebr.)

## Contracts Awarded Alaska Department Of Fish and Game

The Alaska Department of Fish and Game has been awarded contracts totaling \$495,733 to make baseline ecological studies of migratory birds, assess fish and shellfish resources, and study the life histories and habitats of seals and sea otters in Alaskan coastal waters.

The contracts are part of a major marine environmental study conducted by the Environ-

(Continued on page 4)

## Anchorage SFSS Opens December 15

The National Environmental Satellite Service will open a Satellite Field Services Station in Anchorage, Alaska, this month to provide meteorologists, oceanographers, hydrologists, and others with information useful in doing their jobs.

The four-man team of specialists in satellite data interpretation, headed by James T. Bailey, will begin operating about December 15, utilizing photographs and other data provided by NOAA satellites—one in a polar orbit passing over Alaska six times daily and one in geostationary orbit over the equator almost due south of Alaska, photographing the Western Hemisphere every half hour.

Their evaluations will be made available to the National Weather Service Forecast Office in Anchorage, the Weather Service Offices in Fairbanks and Juneau, the National Marine Fisheries Service, the Coast Guard, the Bureau of Land Management, the U.S. Forest Service, general and commercial interests, various

(Continued on page 2)

## Tomlinson Receives Colbert Award

Raymond W. Tomlinson, Technical Advisor to the Chief of the Operations Division in the National Ocean Survey's National Geodetic Survey, has been awarded the 1974 Colbert Medal of the Society of American Mili-

tary Engineers. He was recognized for his contributions to electronic distance measuring and laser safety procedures.

The Medal was presented by Governor Ricky Bordallo of

(Continued on page 3)



(From left) Dometro Pablo, Chief of Cadastre, Government of Guam; Governor Bordallo; Mr. Tomlinson; and Mrs. Tomlinson.

## OCSEAP and MARMAP Sponsor Plankton Sampling Workshop

A workshop on quantitative plankton sampling at sea, sponsored by the Environmental Research Laboratories' Outer Continental Shelf Environmental Assessment Program (OCSEAP) and the National Marine Fisheries Service Marine Resources Monitoring, Assessment, and Prediction (MARMAP) program, was held recently aboard the NOAA Ship David Starr Jordan, off the southern California coast.

The participants—seven involved in the environmental baseline description of the Gulf of Alaska, Bristol Bay, and the Bering Sea, and two from MARMAP—were trained by Dr. Paul E. Smith, James R. Thrailkill, and Robert C. Counts, Fishery Biologists at the NMFS Southwest Fisheries Center's Laboratory in La Jolla, Calif.

Dr. Elbert H. Ahlstrom, Senior Scientist at the La Jolla Laboratory, has played a major role in developing techniques for the quantitative assessment of plankton obtained on California Cooperative Fisheries Investigation surveys conducted over the past 35 years. The Laboratory has thus become a center of expertise and instruction in quantitative plankton techniques and fish larvae identification.



Participants, shown during a pre-cruise conference at the La Jolla Laboratory, were (from left) Kenneth D. Waldron, NMFS Northwest Fisheries Center, Seattle, Wash; Robert Meyer, OCSEAP, Juneau, Alaska; Michael Tomlinson, University of Washington, Seattle; Pat Wagner, University of Alaska, Fairbanks; Mr. Counts; Dr. Smith; Mr. Thrailkill; Jack W. Jossi, NMFS MARMAP Field Office, Narragansett, R.I.; John H. Finuchane, NMFS MARMAP Field Office, Panama City, Fla; Douglas Redburn, State of Alaska Department of Environmental Conservation, Juneau; Isagani A. Almacan, National Ocean Survey, Seattle; and Kenneth Coyle, University of Alaska, Fairbanks.

## Detroit Intake Crib Area Investigated

The Lake Survey Center's Hydrographic Section, under the direction of Teddy Kuchciak, recently completed a hydrographic reconnaissance survey of the water area around the City of Detroit's new water intake crib located in Lake Huron eight miles northeast of Port Huron, Mich.

Using the NOAA Ship Laidly, with its Del Norte Electronic positioning and HYDORPLOT data collection systems, they located and verified the position of the Detroit Metropolitan Water Works intake, as well as sounding over adjacent areas where tempo-

rary coffer dams had been located during construction. A one-square-mile dumping ground area northeast of the water intake site was also investigated.

The area is extremely important because it is close to the shipping lanes and is used as an anchoring spot by vessels caught there during periods of heavy fog and storms.

Accompanying Mr. Kuchciak were the Laidly's operator, Roger Gauthier; Survey Technician Thomas Davis; and two personnel from the Detroit Metropolitan Water Works.

The results of the survey will appear on new editions of Charts 511 and 51.

## Dr. Beran Heads Wind Shear Area

(Continued from page 1)

Laboratory's Atmospheric Acoustics program area. Since 1971 Dr. Beran had served as Deputy Program Chief and head of the FAA wind shear project within this program area.

The new group's first major task, under continuing FAA sponsorship, is the development of a remote sensor system capable of measuring wind profiles at airports for use in the detection of hazardous wind shear conditions. Such conditions are believed to have been associated with two recent commercial airplane crashes in the United States.

Dr. Beran joined ERL in 1970 after receiving his Ph.D. degree in meteorology from the University of Melbourne, Australia. He previously received a B.S. degree in civil engineering from Utah State University and an M.S. degree in atmospheric science from Colorado State University. Earlier, he was a Meteorologist in the United States Air Force for four years.

## SFSS in Anchorage, Alaska, To Begin Operations Soon (Continued from page 1)

state agencies, the military, and others.

While some of the satellite data has been available in Anchorage for a number of months, according to Mr. Bailey, the capability of interpreting the imagery has not fully existed.

"We feel the special talents of the NESS team in examining satellite photographs and extracting complete information from them will be useful in a variety of ways," he said.

Mr. Bailey has been with NESS since March 1974, as Senior Meteorologist at the SFSS in Kansas City, Mo. Previously a Meteorologist in the U.S. Air Force, he retired as a lieutenant colonel.

Other team members are Glenn H. Trapp, formerly Meteorologist-in-Charge at the WSO in Corpus Christi, Tex.; Warren M. Wisner, formerly with the WSO in Juneau; and Waldo J.

Younger, with the Anchorage WSFO since 1960. All have received extensive training in analysis of satellite imagery.

Initially the station will operate a single shift seven days a week, but the first of the year will expand to 16-hours-a-day coverage, Mr. Bailey said.

NOAA has been utilizing satellite pictures in weather forecasting since 1960, and in more recent years has expanded its activities to include environmental monitoring by satellite.

At the present time, data can be obtained from seven U.S. satellites, five operated by NOAA, the other two by NASA. Three are in polar orbit, while the others are geostationary, in fixed positions over the equator scanning almost all of the Northern and Southern Hemispheres.

In addition to sending images to earth for environmental monitoring, some of the NOAA satel-

## Data on Michigan, Wisconsin Gathered

Arthur Christensen, Lake Survey Center Technician and Chief of LSC's Vertical Control party, and his team have completed the 1975 field season in upper Michigan and Wisconsin. The observations made during the six-month trip will assist in evaluating the International Great Lakes Datum (1955). IGLD 1955 is the datum of reference for all water level and benchmark elevations as developed and coordinated jointly by the United States and Canada.

Computation of elevations from the 1975 field data will be accomplished during the winter months under the direction of Harry A. Lippincott, Chief of the Vertical Control Section.



Mr. Christensen



A THREE-STATE PILOT WEATHER BRIEFING SEMINAR was staged recently at the National Weather Service Forecast Office in Columbia, S.C., by Weather Service Evaluation Officer Edward L. Paquet, under the auspices of the Southern Region Office of the Federal Aviation Administration. FAA Flight Service Station personnel from North Carolina, South Carolina, and Georgia, participated in the seminar.

lites are used for relaying meteorological and oceanographic information from data buoys, including some drifting in the Gulf of Alaska.

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NOAA Week reserves the right to make corrections, changes or deletions in submitted copy in conformity with the policies of the paper or the Administration.

Catherine S. Cawley, Editor  
Warren W. Buck, Jr., Art Director

A NATIONAL WEATHER SERVICE SPECIAL SERVICE AWARD and a Cascade County Civil Defense membership certificate in the "Order of the Broken Back" were presented recently to Ann Page of Simms, Mont., for her outstanding actions during the Sun River flood last June. When rising water threatened the official Sun River gage, Mrs. Page set up a new one and correlated it with the official gage, which subsequently was washed away.

When presenting the NWS Award at a luncheon in her honor, William Rammer (right), Meteorologist in Charge of the Weather Service Forecast Office in Great Falls, related that, "During the night as the flood waters rose with the approaching crest, Ann stood a lonely vigil, taking numerous river readings from a stake, and then drove to a phone booth near the town of Sun River to call these readings to the Great Falls weather office. During her last telephone call—after the crest had passed—she was standing ankle-deep in water in the phone booth."

On the left is William Murray, Cascade County Civil Defense Director. (Great Falls Tribune photo)



## International Fisheries Group, WECAFC, Holds First Meeting

Harvey R. Bullis, Jr., Director of the National Marine Fisheries Service Southeast Fisheries Center in Miami, Fla., was the U.S. Delegate to the recent inaugural meeting of the Western Central Atlantic Fisheries Commission (WECAFC) in Port of Spain, Trinidad.



Mr. Bullis

The Commission's three major working groups will be concerned with assessment of shrimp and lobster stocks; assessment of finfish stocks; and development of a regional fisheries statistical program.

The Delegate from Trinidad & Tobago was elected Chairman for the first two years, and those from Brazil, Colombia, and Cuba were elected Vice Chairmen.

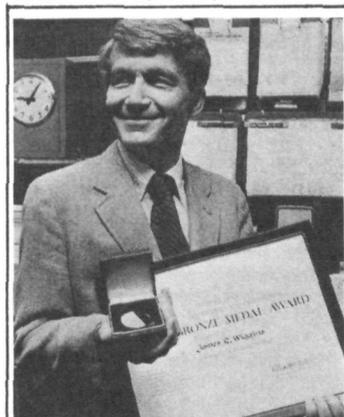
The group approved the major United Nations Development Program project for the region, which deals with the areas of resource assessment and status of the stocks, and elected Mr. Bullis and the Delegates from Guyana, Jamaica, and the Bahamas to join the four officers on the Executive Committee for the project.

According to Mr. Bullis, no substantive fishery issues were raised at this organizational meeting, but indications were that WECAFC will quickly become involved with many important fishery questions in the Gulf and Caribbean region.

## NWS Public Services, Emergency Warnings Branches Combined

The Public Services Branch and the Emergency Warnings Branch in the Meteorological Services Division of the National Weather Service Office of Meteorology and Oceanography have been combined. The new branch will retain the Public Services Branch title, and will be headed by Earl W. Estelle, former Chief of the Emergency Warnings Branch.

The Branch is responsible for public weather services including the NOAA Weather Radio program, air pollution program, forestry weather program, and hurricane, tornado and winter storm warning programs.



A DEPARTMENT OF COMMERCE BRONZE MEDAL was presented recently to James R. Wiggins "in recognition of outstanding accomplishments as Official-in-Charge of the Moline Weather Service Office since 1971." He was cited particularly for his efforts with the Quad City communities (Rock Island and Moline, Ill., and Davenport and Bettendorf, Iowa), Government agencies, and the news media toward improving the local severe weather and flash flood forecasting and warning program.

## November Storm Shifted Lake Levels, Wreaked Havoc

National Weather Service forecast offices were kept busy issuing storm and low (or high) water warnings as the near-hurricane force winds blew water out of western Lake Erie and piled it up at Buffalo during the storm that destroyed the 729-foot ore carrier Edmund Fitzgerald on November 10.

Almost simultaneous Lake Survey Center water level gage readings showed that at about 3:30 p.m. Erie's water level at Buffalo was almost 13 feet higher than the water level at Toledo on the other end of the lake. The water level at Toledo dropped from a calm level of about 40 inches above chart datum to around 30 inches below chart datum—nearly six feet. At Buffalo, water levels rose almost seven feet above the calm level.

Lake Survey Center gages at or near Buffalo were severely pounded, but continued to operate. The observer at the Sturgeon Point gage site reported that the area around the station was severely eroded by the huge waves and high water kicked up by the storm.

Two persons were washed off a breaker in Lake Michigan and drowned, and a large, empty, semi-trailer truck southbound on the Straits of Mackinac Bridge was blown over by the estimated 60 to 80 mph winds.

## International Tsunami Information Center Announces New Position, New Staff Members

A new position, Associate Director of the International Tsunami Information Center (ITIC), has been established as a result of actions by UNESCO's Intergovernmental Oceanographic Commission. Sydney Wigen, Regional Tidal Superintendent of the Pacific and Western Arctic Regions of the Canadian Hydrographic Service, was selected for this post for an initial period of one year. A graduate of the University of British Columbia and a

professional engineer, he has been actively involved both in Canada and internationally in the monitoring and interpretation of tsunamis and in the Tsunami Warning System.

Dr. George Pararas-Carayannis is Director of ITIC.

The National Weather Service Honolulu Observatory, on behalf of the ITIC, is responsible for, among other functions, the timely dissemination of tsunami warnings and watches on a local as well as international basis.

In addition, ITIC gives technical advice on the equipment required for an effective warning system and provides assistance in the establishment of national and regional warning systems in developing countries.

Lt. (j.g.) Dennis Sigrist, who recently joined the tsunami staff of the NWS Pacific Region as Assistant Tsunami Specialist, will be working with Dr. Pararas-Carayannis, performing staff duties relating to the Tsunami Warning System in the Pacific Region.



Lt. (j.g.) Sigrist

Lt. (j.g.) Sigrist previously was assigned to the NOAA Ship Researcher. He joined the NOAA Corps in 1973 after receiving his degree in Geology/Geophysics from the University of Hawaii.

## Tomlinson Honored

(Continued from page 1)

Guam, while Mr. Tomlinson was working with Guamanian surveyors in a cooperative program to provide the island with a modern survey control network and training them to conduct future surveys. While in Guam, he also taught NGS surveying procedures at the University of Guam.

Mr. Tomlinson joined the Coast and Geodetic Survey (predecessor of the NOS) in 1948 as a signal builder with a field party. Since then, he has performed in all field positions, and has directed a number of special projects, including the resurvey of the Maryland-Delaware Boundary Line.

He was named a technical advisor in 1964, when he assisted in the feasibility test and study that led to the development of the first laser measuring instrument.

He attended Arkansas Polytechnic College.

# notes about people

Joseph D. Harrell has joined the National Marine Fisheries Service as Chief of the Scientific Publications Staff, in Seattle, Wash. He succeeds Thomas A. Manar, who has retired.



Mr. Harrell

For the past five years Mr. Harrell has operated his own public relations and publishing business in San Francisco, Calif., specializing in scientific and industrial areas. Prior to that he was Press Relations Coordinator for Bechtel Corporation and, for 18 years, editor of *Western Machinery & Steel World*. His background also includes newspaper, news wire and radio experience.

In Seattle he will supervise NMFS publications, including *Fishery Bulletin*, *Marine Fisheries Review*, *Fishery Facts*, and the *SSRF* and *CIRC Technical Reports*.

A Naval officer in World War II, Mr. Harrell received his degree from the University of Georgia.

Richard D. Heath is the new Chief of the Facilities Branch in the Engineering Division at the National Weather Service Central Region Headquarters in Kansas City, Mo. He has replaced Duane E. Pond, who transferred to the NWS Western Region Headquarters in Salt Lake City, Utah.



Mr. Heath

Mr. Heath had been with NASA's Plum Brook (Sandusky) Research Facility, since 1962. Earlier he did design and field engineering work on Ground Support Facilities for the Atlas ICBM System at General Dynamics Astronautics.

He received his BSME from Iowa State University at Ames.

James N. Bagnell is the new Official in Charge at the National Weather Service Office in LaCrosse, Wis., replacing Finn A. Johnson, who has retired.



Mr. Bagnell

Mr. Bagnell had served in 10 states during the 22 years he had been with the NWS before moving to LaCrosse in 1971.

Malcolm S. Krebs, Chief of the Lake Survey Center's Engineering Division, and William J. Monteith, Chief of LSC's Surveys Branch, recently visited the National Ocean Survey's Pacific Marine Center in Seattle, Wash. They reviewed PMC's hydrographic survey operations, toured the base facilities, and met with personnel in the Marine and Electronic Engineering Divisions and the Operations and Processing Branches. The visit provided an opportunity to exchange ideas and compare PMC's hydrographic techniques and data flows to Rockville with those used at LSC.

In addition, they inspected new 29-foot hydrographic survey launches under construction in Seattle, and in actual operations off Redondo Beach, Calif., for possible purchase by LSC. The craft are used in hydrographic work by both the Atlantic and Pacific Marine Centers.



Mr. Saenz



Mr. Cheek

The Equipment Development Laboratory in the National Weather Service's Systems Development Office has participated in NOAA's Coop Education Program from its inception, and reports satisfactory results. Former Coop's Anthony Cheek and Raymond Saenz have received degrees and accepted staff appointments with the Laboratory.

Since 1971, Mr. Cheek has alternated six-month tours of work in the Laboratory with semesters at Drexel University in Philadelphia,

## Alaska Dept. of Fish and Game Awarded Contracts (Continued from page 1)

mental Research Laboratories for the Interior Department's Bureau of Land Management and its environmental studies program. This study seeks to determine the probable ecological impacts of oil exploration and development activities on Alaska's Outer Continental Shelf.

The Alaska researchers plan to summarize the distribution, abundance, behavior, and food dependencies of birds associated with shoreline and estuarine habitats in the Gulf of Alaska, and the Bering and Beaufort Seas. They also will determine the critical habitats, migratory routes, and breeding locales for principal bird species.

Primary emphasis for field sur-

**PROGRAM FOR EMPLOYMENT OF THE HANDICAPPED.** Bill Roberts (center), a new Seattle employee, received a warm welcome from Seattle Field Finance Office Chief, Clayton Terry (left) and Bill Dodds (right), NOAA's Chief of Field Operations Branch. Severely handicapped by a stroke at age 24, Mr. Roberts has proved his worth under a N O A A - Washington State on-the-job training agreement.



veys, from which he now has received his B.S. in electrical engineering. In his initial assignment in the surface sensor development area, he is designing circuits for the automation of an evaporation pan for the NWS Office of Hydrology.

Mr. Saenz had only one six-month work tour with the Laboratory, during which he was involved in the construction and debugging of an acoustic sounder. Last spring he received his B.S. in electrical engineering technology from New Mexico State University, and is now working on the automation of the radio theodolite.

Louise A. Purrett, a public information specialist at the Public Affairs Office of the Environmental Research Laboratories in Boulder, Colo., recently won a Clarion Award, given annually by Women in Communications, Inc. (WICI), for outstanding communications in print and broadcast media.

She won an honorable mention for a NOAA magazine article, "Parachutes, Windmills and

Rivers in the Sea," which concluded that harnessing the Florida Current, a part of the Gulf Stream, is economically feasible.

Before joining NOAA in January, 1974, she was with the publications office of the New York Zoological Society, and previously was earth sciences editor of the *Science News*, a national weekly magazine, headquartered in Washington, D.C.

Ms. Purrett received a B.S. in journalism from Pennsylvania State University in 1967, and a M.A. in journalism from the University of Wisconsin in 1972.

**FIND OUT WHAT COASTAL ZONE MANAGEMENT IS ALL ABOUT!**

Meet the Coastal Zone Staff at an Open House, 3 to 5 p.m. Friday, December 12. Third floor, Page 1 Building.

- Informal discussions.
- Hors d'oeuvres.
- Refreshments.
- Film and slides.

veys will be placed on the Beaufort Sea and habitats in the Bering Sea and Gulf of Alaska known to be important to key or critical bird species which are vulnerable to contamination. Helicopters and fixed-wing aircraft will be used to assess bird populations in the remote areas.

Results of the field surveys and previous research will be compiled for a general description of bird use by region and major habitat along Alaska's coastline. The scientists will identify all major bird habitats on maps and provide information on bird migration by species for one field season.

The researchers will make special surveys of the herring re-

sources in the southern Bering Sea, and the fish and shellfish in Yakutat Bay in the eastern Gulf of Alaska. They will assess the razor clam populations near Kodiak Island and the Alaskan Peninsula, and the plants and animals which inhabit the intertidal and subtidal zones of the Kenai Peninsula.

Basic information on the ecology, life history, population and nutrition of the land-breeding harbor seal, bearded seal, ringed seal, spotted seal, and sea otters also will be compiled to learn of their ecological roles in Alaska's marine environment.



# **National Oceanic and Atmospheric Administration**

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