

NOAA Begins Global Buoy Deployment

Meteorological ocean buoys are being deployed to be used in a 140 nation, world-wide weather experiment. NOAA has the responsibility for U.S. participation in the Global Weather Experiment, through which weather information of all kinds will be gathered in unprecedented amounts and detail from all parts of the globe.

The first in a series of 50 weather information-gathering drifting buoys developed by the NOAA Data Buoy Office in Bay St. Louis, Miss., will be deployed in the South Pacific Ocean during the next several months by the U.S. Coast Guard cutter *Acushnet*.

The cutter will drop 16 of the buoys at locations between Peru

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A recent visit to the NMFS Laboratory in Galveston, Tex., allowed NOAA Administrator Richard A. Frank to meet with local representatives of the fishing industry and to view the experimental "turtle excluder" panel on a shrimp boat. Discussing the turtle saving device are: (l to r) William Utz, Executive Director, National Shrimp Congress; Ralph Rayburn, Executive Director, Texas Shrimp Assoc.; Eldon Greenberg, NOAA General Counsel; Administrator Frank, and Raymond Wheeler, Biologist, NMFS Galveston Laboratory.

NMFS Charleston Lab Dedicated

A new fisheries utilization and research laboratory was dedicated in Charleston, S.C., Oct. 31, at the National Marine Fisheries Service's Southeast Fisheries Center.

Situated at the South Carolina Marine Resources Center, the new Charleston laboratory is being leased to the Federal Government by the State, which constructed it at a cost of \$3.8 million.

Participants in the dedication ceremony included Secretary of Commerce Juanita M. Kreps, Gov. James Edwards, U.S. Sen. Ernest F. Hollings, State Senator James Waddell, NOAA Administrator Richard A. Frank, Laboratory Director Harry Seagran, and others.

The 45,000 square foot facility is a part of the Southeast Fisheries Center, which includes seven laboratories from South



Touring the newly dedicated NMFS Charleston Laboratory are (l to r) Pat Fair, fishery nutritionist; Secretary of Commerce Juanita Kreps; U.S. Senator Ernest F. Hollings; Warren Kane of the Senator's staff; Harry Seagran, Laboratory Director; Frank Raines, Associate Director for Economics and Government, OMB; and NOAA Administrator Richard A. Frank.

Carolina to Texas.

The laboratory will be concerned with the rational use of fishery stocks, the quality and safety of seafood products, and aquaculture nutrition research. It will assist State and other Federal agencies, as well as industry, recreational groups and

the general public, by providing them needed information.

Currently the laboratory is working closely with the South Carolina Sea Grant program in mariculture research on the Malaysian prawn, macrobrachium, which holds promise as a useful addition to local seafood resources.

Frank Predicts Increased Fishery Exports to Japan

U.S. fishery product exports to Japan could reach \$1 billion in five years and will approach \$500 million in 1979, more than double the 1977 figure, Richard A. Frank, NOAA Administrator, has predicted. The prediction was made after a U.S. Export Development Mission headed by Secretary of Commerce Juanita M. Kreps in October returned from Japan.

Government officials and fishery industry leaders from Alaska, the West Coast, the Gulf and South Atlantic States, and New England discussed opportunities for expanding fishery im-

ports from the U.S. with Japanese business and government leaders for five days.

"Progress was made at the meetings, but work remains to be done," said Frank. "Trade barriers must be reduced before we can consider the problem close to solution."

At the outset of the Tokyo discussions, Frank indicated that Japanese action on trade barriers to U.S. fisheries product exports would be a factor in U.S. determination of 1979 allocations to foreign nations wishing to fish for resources in the U.S. 200-

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Law Enforcement Rewarded

The Law Enforcement Branch of the Northwest Regional Office, National Marine Fisheries Service was awarded a Unit Citation Award for meeting greatly enlarged responsibilities during 1977 to patrol large areas and enforce fishing regulations in Puget Sound and the north-eastern Pacific Ocean. The increased responsibilities were due to new requirements, both foreign and domestic, under the Fishery Conservation and Management Act; assuming enforcement of the International Pacific Salmon Fisheries Commission's regulations in the sockeye salmon fisheries in Northern Puget Sound — regulations that were previously enforced by the State of Washington; and

assuming enforcement of state salmon fishing regulations on Puget Sound as newly required by Federal District Court orders.

All of these enforcement responsibilities were in fisheries that involved significant controversies and both threatened and actual illegal fishing and organized "fish-ins."

The unit's clerical personnel met their increased workload successfully and field personnel conducted many extra hours of patrols, often under hazardous conditions. In spite of the added responsibilities and complex enforcement problems in 1977, these extra efforts succeeded in maintaining orderly and well-managed fisheries.



NMFS Northwest Region's Law Enforcement Branch presented NOAA UNIT CITATION AWARD by Regional Director Donald R. Johnson. Seated, left to right, Deputy Branch Chief George E. Marshall, Regional Director Johnson, and Branch Chief Wayne C. Lewis. First row, standing: Clyde R. Harrison, Zella M. Crawford, Judith L. Fogarty, Barbara D. Jones, Nena A. Deriugin, Robert E. Williams, Edward W. Wightman. Back row: Harold E. Witham, Gilbert D. Thompson, Richard A. Severtson, William R. Dickinson, Robert N. Langbehn, Alfred L. Stankowiak, David K. Johnson, Kirk W. Breese. Other recipients, not pictured, were: Lorraine M. Fugita, David J. Gibler, Shelby E. Vance, and Gaylene L. Waters.

Buoys Deployed

and New Zealand during the three-month, 17,500-mile cruise. An additional 10 buoys will be deployed by the Argentine Navy, while U.S. Navy and Coast Guard vessels supporting Operation Deep Freeze in the South Pole will place the remaining buoys at assigned locations.

The program begins next month, with the first of two special observation periods when data collection will be most intense scheduled for January and February of next year.

The buoys carried by the Achushnet will drift free, relaying pressure and temperature information via satellite to GWE scientists. Each of the expendable buoys weighs about 250 pounds, is spar-shaped about 10 feet long, and is made of aluminum. A UHF transmitter on board, in addition to transmitting information from the barometric and temperature sensors, allows the buoy to be "tracked" by the TIROS-N satellite.

The buoys recently were test deployed by parachute from a Coast Guard C-130 aircraft for the Data Buoy Office; dropped without damage into the ocean by an airplane flying four miles high.

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The deployment from 20,000 feet was conducted to assure it could be accomplished without damage to the buoys or their instrumentation. Earlier tests were successfully done from altitudes of 500 and 2,000 feet, but high altitude deployment is more desirable for reasons of aircraft operation fuel economy.

In the test deployments, the C-130 aircraft slowed from its normal speed of 600 miles an hour to 150 mph during the drop period. The plane can carry up to 10 buoys at one time. Aircraft drops will augment the ship deployments.

In the Global Weather Experiment, coordinated acquisition of weather data will be accomplished by ships, balloons, satellites, ground observation stations, buoys, and scientific and commercial aircraft on transoceanic flights. Approximately 300 drifting buoys from participating countries will be deployed in the Southern Hemisphere where there are insufficient weather observations and where persistent cloudiness interferes with the remote acquisition of sea surface temperature and pressure by orbiting satellites.

Frank Predicts Increases

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mile Fishery Conservation Zone. The allocations will be made by the Department of State during the next several weeks. U.S. law requires that trade considerations enter into the making of allocations to foreign nations.

Frank stated that there are excellent opportunities to market many of the species in Japan, if we can reduce some of the trade barriers that limit market access. The U.S. has a \$2.1 billion deficit trade balance in fishery products and a \$14 billion overall trade deficit with Japan. Implementation of the U.S. 200-mile fishery conservation zone has created opportunities to expand U.S. production and exports of

fish products.

Frank and NOAA's Assistant Administrator for Fisheries, Terry Leitzell, discussed with Japanese officials the reduction of trade barriers to encourage further U.S. imports and the need to provide greater market access for Alaskan pollock, Pacific cod, Alaskan pollock roe, herring and herring roe, crabs, hakes, and salmon roe, mackerel and squid.

NOAA NEWS

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

Norma V. Reyes, Editor
Warren W. Buck, Jr., Art Director

JOGGERS

And yet again, the Washington, D.C. area NOAA joggers will be running along the C&O Canal.

Rain or shine, various distance courses will be run on Saturday, Dec. 2, beginning at 1 p.m., including the 1-mile fun-run.

For more information (or to volunteer your assistance) call John Brookbank (427-7053), Lou Boezi (427-7841), or Bernie Edelman (427-7730).

NOS Begins River Survey In Georgia

A seven-month navigable area survey from the St. Marys River to Kings Bay, Ga., begins this month, NOAA's National Ocean Survey has announced.

Lt. Marcella J. Bradley and Lt. Kathryn A. Andreen, NOAA Corps, will each command an automated hydrographic survey launch, each launch having a crew of four.

The NOS survey will contribute to a new data base for the maintenance of existing nautical charts and construction of four charts indicating the approaches to the new naval base at Kings Bay. The survey also will update NOAA's maritime publication, *Coast Pilot*, and verify all charted features, including the positioning of fixed and floating aids to navigation, and recommend new items for charting.

The navigable area survey was requested by the Defense Mapping Agency Hydrographic/Topographic Center, and is part of a cooperative effort involving the U.S. Army Corps of Engineers, the U.S. Navy, and the U.S. Coast Guard.

DBO Buys Minority Firms

The Data Buoy Office recently awarded two contracts that are among the first in NOAA issued to minority firms for technical services.

Chi Associates, Inc., of Arlington, Va., received a \$32,825 contract to analyze data acquired during a mooring experiment in the Pacific. Technology Development Corps., of Sunnyvale, Calif., was awarded a \$77,199 contract to conduct analysis in preparing a preliminary design for a buoy motion package.

The Data Buoy Office is located in the National Space Technology Laboratories in Mississippi.

Junior Fellows Had A Successful Summer At PMEL

The Pacific Marine Environmental Laboratory in Seattle has just completed a successful effort to increase the participation of women and minorities in the science and engineering programs of that facility.

Under the direction of Dr. Frank Gonzalez, Hispanic Employment Program Coordinator for PMEL, the 1978 Junior Fellowship program provided that special opportunity to four Asians, three Hispanics, one Filipino, one Black and one Caucasian. Five of the students were female.

Using the University of Washington Minority Affairs Office as a source, Gonzalez identified 40 Washington state high schools with significant minority student populations. By mid-June, ten students were selected from applications submitted with the assistance of guidance counselors and teachers. To qualify, students had to be: 1) a high school senior, 2) planning to attend college, 3) financially needy, and 4) in the upper 10% of their class.

Gonzalez took on the additional responsibility of placing these students with host families, thereby smoothing the transition away from home to a large city and allowing them to save a larger percentage of their summer earnings.

The activities of the young people were diverse, depending on both their interests and capabilities and the research project needs. Three participated in oceanographic research cruises; feedback from the entire group of fellows indicates this is a high priority for them. Lisa Russel joined PMEL scientists on a research cruise in Cook Inlet, Alaska, aboard the NOAA ship Miller Freeman. Her duties at sea included preparing, retrieving, and sampling sediment traps and perform-

Omar Medina, a Junior Fellow at NOAA's Pacific Marine Environmental Laboratory, checks a glass sphere used as subsurface flotation for instrument moorings.



Sylvia Estrada, a Junior Fellow at NOAA's Pacific Marine Environmental Laboratory, analyzes and plots data collected for the Deep Ocean Mining Environmental Study (DOMES).

ing chlorophyll extractions. Lisa's supervisor and fellow scientists found her an enthusiastic and diligent member of the scientific party. Clifford Jackson early on expressed an interest in mechanical engineering. His activities with the Coastal Physics group of PMEL involved helping to assemble radar-tracked drifting buoys and then participating in a field test in August in the Strait of Juan de Fuca. Cliff discovered that sea duty was not always comfortable, but this did not daunt his interest in oceanographic equipment. Rita Chin was shore-bound during her summer at PMEL, but from the perspective of her supervisor, she contributed

and learned much. Rita learned Fortran programming on the job and then helped develop a program for use in a statistical inference problem. This work will quite likely result in the publication of a Technical Memorandum.

By all assessments the program was a success. The Junior Fellows were quickly integrated into the laboratory activities and, for the most part, left at the end of the summer with a far more realistic view of what is involved in being a professional scientist. Based on this experience, most of the young people indicated that they were far more motivated to launch into their future schooling.

Explosion of Star May Have Changed History of Earth, Scientists Say

A chain of events ignited by an exploding star may be what caused the sudden extinction of thousands of species of animals—including the dinosaurs—on earth, report Drs. George Reid and John McAfee of NOAA's ERL Aeronomy Laboratory and Dr. Paul Crutzen of the National Center for Atmospheric Research.

The scientists have estimated the atmospheric and climatic changes that would result if the earth were to pass through the cloudy remnant of a supernova, a star that suddenly blazes to millions of times its normal brilliance. Their calculations suggest that severe depletion of stratospheric ozone, cooler temperatures, and drought might result. Understanding what they call the "extreme, pathological cases" helps explain the effects of lesser perturbations to the atmosphere, such as weakening of the ozone shield.

"The history of life on earth has been punctuated by widespread and apparently sudden extinctions affecting both terrestrial and marine animals," report the scientists. The best-known of these mass extinctions occurred about 65 million years

Pacific Basin Marine Data Set Now Available

A new, comprehensive (16 million observations) marine data set for the Pacific Basin suitable for studying long-term climatic variations and large scale sea-air interactions, has been assembled by EDIS' National Climatic Center (NCC). This unique data set brings together, in compact form on a single set of 34 reels of magnetic tape, all usable shipboard observations of wind, air, and sea-surface temperatures.

These data gathered since 1854 include the Pacific Basin temperature data recently assembled by NCC as part of the Historical Sea Surface Temperature Data Project, as well as ship-intake water temperature observations.

ago, and claimed the dinosaurs among the casualties.

Reid, McAfee, and Crutzen think that the supernovas may have been the killers, and that the atmospheric and climatic changes caused by increased radiation was the weapon.

Whether or not these severe conditions could have led to major extinctions of animals is a matter for speculation, the researchers conclude in a recent issue of the journal, *Nature*. But, "a nearby supernova explosion is . . . an event that may well have occurred several times within the billion-year existence of life on earth," they theorize.

GOES - 3 Helps Launch TIROS - N

The launch of TIROS-N last month, delayed first by equipment problems and then by upper level wind shear, was accomplished on October 13 thanks largely to a sister satellite, GOES 3, according to NESS officials.

After a delay of nearly a month, the new NOAA polar-orbiting satellite was scheduled to be launched from the Western Test Range in California on October 10. But upper level wind shear delayed it on the 10th, the 11th, and the 12th.

Finally, with the Air Weather Service forecasting continued wind shear on the 13th, meteorologists at NESS turned to data provided by GOES 3, the West Coast geostationary satellite, and predicted 14 hours before scheduled launch time that the winds would drop at about the time proposed for launch.

With this prediction, three hours before launch a balloon was sent aloft and verified a decrease in upper level winds. On this basis, TIROS-N was placed in orbit early on the morning of October 13, and now is being checked out by NASA before being turned over to NOAA for operational control.



Milred Sanborn --A True Giver Of Life

Mildred Sanborn of the NMFS Northeast Regional Office in Gloucester, Mass., is the latest example of Champion Blood Donors to come to the attention of NOAA News.

Sanborn has given blood since W.W. II. To date she has given over eight gallons.

Largest Sea Grant Ever Goes To University of California

The largest grant ever awarded through the National Sea Grant College Program has been made to the University of California. The \$2,737,500 grant will help carry out 47 research projects at seven of the nine campuses of the University, as well as at the Moss Landing Marine Laboratories, San Diego State University, Humboldt State University, San Jose State University, and Stanford University.

Among projects under the grant, scientists will seek solutions to a number of problems associated with aquaculture, including salt tolerant plant culture and salmon mortality rates during transfer from hatchery to seawater rearing pens.

Sea Grants have also been made to the University of Alaska (\$1,050,000) whose main project is to study the pink shrimp industry to determine if catch declines in recent years are related to oceanographic factors; to the University of Delaware (\$890,000) where scientists are attempting to produce edible plants that will grow in saltwater with the potential of becoming a food crop; to the University of Hawaii (\$1,150,000) where a little-known, but potentially vast, stock of marine resources—including edible fish species—is beginning to be explored by the scientists in waters around the northwestern Hawaiian islands and their associated shelf area.

A team of University of Maryland economists is developing a computer-based economic

model of the Nation's marine resources to help decision makers in coastal States and the Federal government better predict the effects of proposed coastal activities.

Support for the project comes jointly from NOAA's Office of Coastal Management and the Interior Department's Bureau of Land Management through a contract of nearly \$1 million to the University of Maryland's Bureau of Business and Economic Research.

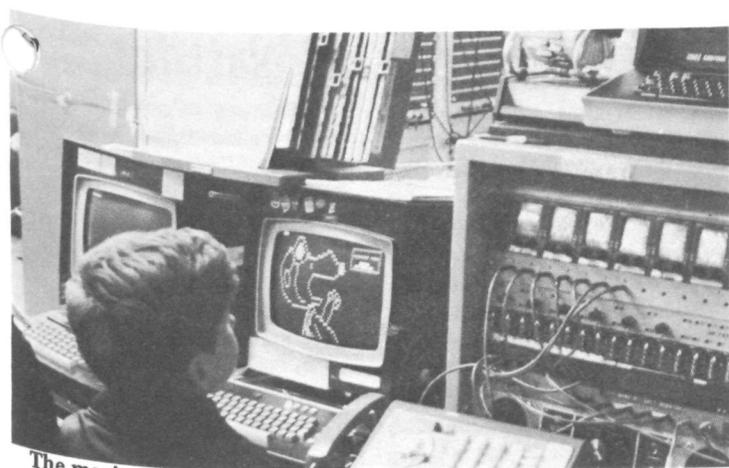
The Office of Coastal Zone Management has also awarded a grant to the state of New Jersey (\$800,000) whose coastal zone management program won Federal approval.

Contracts totalling \$1.2 million have been awarded by NOAA to Human Sciences Research, Inc., of McLean, Va., and Clapp and Mayne, Inc., San Juan, Puerto Rico, to collect data on the fish catch by marine recreational anglers. The survey is being conducted for the National Marine Fisheries Service.

The Office of Ocean Engineering is administering two contracts totalling almost \$1.2 million, awarded to a team consisting of personnel from TRW, Inc., and Global Marine Development, Inc., both of Los Angeles, and one from Science Applications, Inc., Los Angeles, and Brown & Root, Inc., Houston, to develop preliminary designs for a cold water pipe system of proposed ocean thermal energy conversion plants.

NOAA Celebrated Its Eighth Year

NOAA celebrated its eighth birthday during October, opening its doors across the country for the bus loads of school children, their teachers, and even some curious parents.



The magic of computers captivates this young visitor at the combined NWS, NESS, NMC open house in Suitland, Md.



Small hand covers the ultraviolet sensor at ERL's open house in Boulder, Colo.



Children surround NOS' Bill Stanley, Dr. Gordon Lill, and Capt. Roger Lanier during the open house in Rockville, Md.



Visitors to the NMFS Sandy Hook Lab in N.J., view marine specimens through microscopes.



M.D. Bunch of ERL's Research Support Services, teaches students games computers play.



Lt. (jg) Gary M. Barone and Lt.(jg) Michael S. Sagalow encourage potential NOAA Corps officers to take the pamphlets at the NOS open house.

Winter Means Careful Interpretation of Flexitime

There is a very good chance that during the coming winter months there will be occasions when an administrative dismissal or liberal leave policy is effected at one or more of the various NOAA work locations. Since flexitime alters normal procedures, it would be beneficial for employees and supervisors to be familiar with NOAA's policy regarding early dismissal and liberal leave for employees who are working flexible hours. The NOAA policy on flexible working hours concerning administrative dismissals for severe weather or other hazardous conditions should be referred to in Chapter 11, Section 07 of the NOAA Personnel Handbook for guidance.

The NOAA Personnel Handbook Chapter 11, Section 07, paragraphs 8c, 8d, and 8e state:

"c. In NOAA early dismissal for severe weather or other

hazardous conditions will be interpreted as being a facility closing in the same sense as a closing for an emergency situation. Therefore, all affected employees will be released at the same time, irrespective of their individual work schedules. Thus, an employee working a normal tour of 8:00 a.m. to 4:30 p.m. and an employee working a flexitime tour of 9:00 a.m. to 5:30 p.m. will *both* be released *at the time stated in the early dismissal notice.*

d. Administrative leave in the above situations will accrue for the number of hours between the time of *dismissal* and the end of the employee's scheduled tour but only if the employee is at work at the *time of notice* of dismissal. A charge to leave will be made in all other cases.

e. A liberal leave policy will apply to employees on flexible

hours when conditions warrant and liberal leave is authorized for other Federal employees. This is a judgment call on the part of the supervisor. It does not mean that one employee has a right to any more benefit than any other employee. For example, if employees under liberal leave conditions are permitted two hours excused absence, this excused time is predicated on the traditional, fixed schedule hours. That is, if the traditional schedule is 8:00 a.m. to 4:30 p.m. *all* employees are expected to report for work by 10:00 a.m. and will work a 6 hour day. This will provide equity between employees on flexible work hours and employees on a standard non-flexible work schedule."

Any questions concerning administrative dismissals should be referred to your servicing personnel officer.

Inter-Gov't. Assignments Possible

All levels of government are being called upon to provide more and better services for a growing member of citizens. To do this, Federal, State, and local governments must share their resources and cooperate in solving mutual problems. The Intergovernmental Personnel Act of 1970 (IPA) (Public Law 91-648) allows temporary assignments of employees to accomplish these goals.

Under the mobility provisions of the IPA, employees may be assigned between Federal executive agencies and States, local governments, and institutions of higher education for periods up to two years. Assignees can provide expertise for priority

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NOAA Personnel Division Lists Current Vacancies

Announcement No.	Position Title	Grade	MLC	Location	Issue Date	Closing Date
PR-78-10	Supervisory Meteorological Technician	GS-10	NWS	Guam, Mich.	11/21/78	12/06/78
NMFS 78-70	Fishery Administrator	GS-13/14	NMFS	Washington, D.C.	11/15/78	12/07/78
ER 78-70	Meteorological Technician	GS-7/8/9	NWS	Pittsburgh, Penn.	11/21/78	12/06/78
ER 78-71	Meteorologist	GS-11	NWS	Columbia, S.C.	11/21/78	12/06/78
PAGE 78-71	Clerk-Typist	GS-4	EDIS	Washington, D.C.	11/21/78	12/06/78
PAGE 78-72	Clerk (Typing)	GS-5	EDIS	Washington, D.C.	11/21/78	12/06/78
ER 78-72	Labor Relations Specialist	GS-12	NWS	Garden City, N.Y.	11/21/78	12/06/78
ER 78-73	Meteorologist	GS-11	NWS	Trenton, N.J.	11/28/78	12/12/78
ER 78-74	Hydrologist	GS-13	NWS	Pittsburgh, Penn.	11/28/78	12/12/78
OCZM 78-78	Policy and Program Analyst	GS-13	CZ	Washington, D.C.	11/21/78	12/06/78
NMFS 78-80	Secretary-Stenographer	GS-07	NMFS	Washington, D.C.	11/20/78	12/12/78
HQS 78-93	Supervisory Personnel Staffing Specialist	GS-13	HDQS	Rockville, Md.	11/20/78	12/12/78
HQS 78-95	Visual Information Specialist	GS-12	HDQS	Rockville, Md.	11/20/78	12/05/78
HQS 78-96	Space Management Analyst	GS-12	HDQS	Rockville, Md.	11/20/78	12/05/78
HQS 78-98	Executive Director to the National Advisory Committee on Oceans and Atmosphere	GS-17/18	NACOA	Washington, D.C.	11/28/78	12/19/78
EDIS 78-329	Geophysicist	GS-12	EDIS	Boulder, Colo.	11/20/78	12/05/78
ITS 78-367	Electronics Engineer	GS-14	ITS	Boulder, Colo.	11/13/78	12/04/78
ITS 78-369	Electronics Engineer	GS-14	ITS	Boulder, Colo.	11/13/78	12/04/78
SER 79-1	Fishery Biologist or Physical Science Admin.	GS-14	NMFS	Pascagoula, Miss.	11/21/78	12/06/78
NESS 79-1	Meteorologist (2 vacancies)	GS-13	NESS	Anchorage, Ak.	11/20/78	12/05/78
SER 79-5	Supervisory Fishery Biologist	GS-14	NWS	Miami, Fla.	11/15/78	11/30/78
AR 79-8	Meteorologist (2 vacancies)	GS-12	NWS	Anchorage, Ak.	11/21/78	12/06/78
AR 79-9	Meteorological Technician	GS-09	NWS	Barrow, Ak.	11/21/78	12/06/78
AR 79-10	Meteorological Technician	GS-09	NWS	Bethel, Ak.	11/21/78	12/06/78
AR 79-11	Meteorological Technician	GS-09	NWS	Barter Island, Ak.	11/21/78	12/06/78

Dr. Helmut K. Weickmann of NOAA's Environmental Research Laboratories was recently awarded a Distinguished Lecturer Certificate by the American Meteorological Society for the Tor Bergeron Memorial Lecture he prepared for the Conference



Dr. Helmut K. Weickmann on Cloud Physics and Atmospheric Electricity held in Issaquah, Wash., this past summer. Weickmann, Director of ERL's Atmospheric Physics and Chemistry Laboratory in Boulder, Colo., is particularly noted for

his research on hail suppression, cloud nucleation, and cloud and precipitation physics, and is author of more than 75 technical publications in those fields.

Directory Info.

The Washington Metro Area Personnel Locator has set Dec. 8 as the deadline for inserting information in the next NOAA Organization Directory and Personnel Locator that will be distributed in January.

If an employee's name does not appear in the current alphabetical section of the directory or if information is incorrect, NOAA Form 46-11 should be sent to the Directory Service Office, AD12, Rm. 110A, Rockwall Bldg.

The form can be obtained in previous issues of the Organization Directory or by calling 443-8910.

Erik N. Birk recently was commissioned as an ensign in the NOAA Corps. "It's not the Army but I really can't complain," said his father, Col. Thomas C. Birk, commander of Reynolds Army Hospital at Fort Sill, Okla., who swore in his son at the commissioning ceremony.

Blood is especially needed during the holiday season. Your donation could save a life. GIVE BLOOD.



Scott Jenkins (center), second prize winner in the National Science Fair competition, is given weather pamphlets by Chicago MIC, Ray Waldman (right), during a tour of the NWS Chicago offices with his father, Garfield Jenkins (left). The Jenkins' also visited the O'Hare and Midway WSO's.

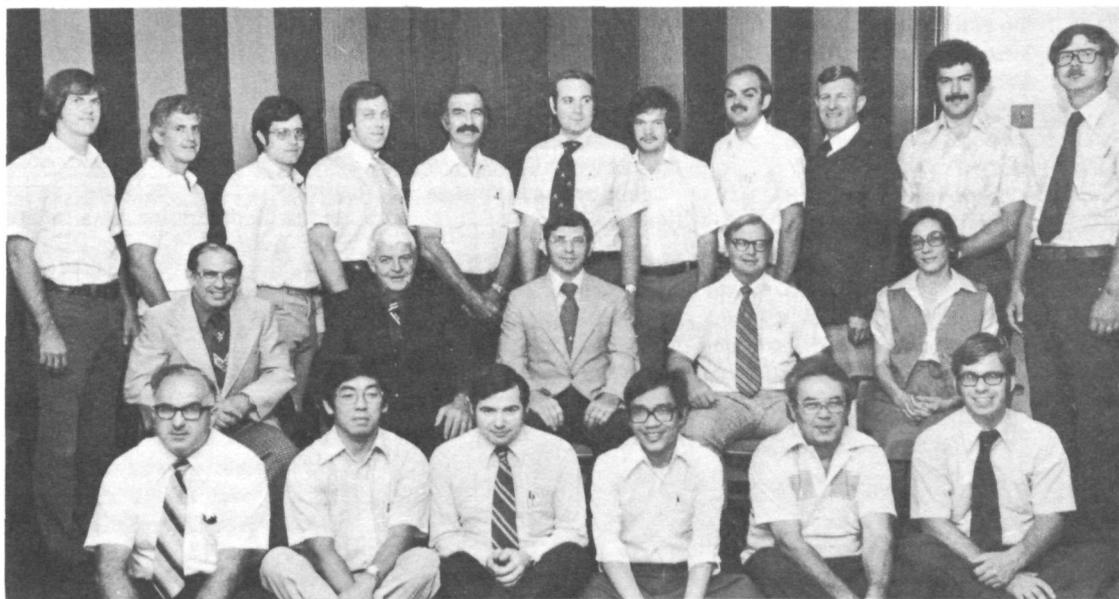
OBITUARIES

Richard Fay

Richard Fay, retired NWS employee, died Oct. 15. He began his weather service career in 1956 at Woods Hole, Mass., serving also at the WSFO Boston, and Eastern Region Headquarters, Garden City, N.Y. He retired in 1976 as Meteorologist in Charge of WSFO Cleveland, Oh. He is survived by his wife, Shirley Fay, and three children of 339 Nahant Road, Nahant, Mass. 01908.

John F. Fogarty

John F. Fogarty, retired NWS employee, died Oct. 26. He entered the NWS in 1950 at Midway Island, serving also in Honolulu, Hawaii; San Francisco, Calif.; Washington, D.C.; Boston, Mass.; Buffalo, N.Y.; Hartford, Conn.; and eventually Worcester, Mass. where he retired in 1977. He is survived by his wife, Margaret Fogarty, of 18 Fairchild Drive, Holden, Mass. 01520, and a son, James.



The NWS Central Region Hydrology Division and the Kansas City River Forecast Center hosted a Dam Break/Dynamic Routing Seminar recently. Attendees, who included representatives from other Federal, State and Canadian agencies, were: (1 to r, 1st row) Joe Pay, Louisville, Ky.; Roy Osugi, Omaha, Neb.; Ed May, Ann Arbor Mich.; Thai Ngujen, Alberta River Forecast Center, Canada; Claron Koontz, Corps of Engineers, Kansas City, Mo.; Al Shipe, Indianapolis, Ind.; (2nd row) Herman Mondschein, Kansas City, Mo., RFC; Dr. Jack Sheridan, Tulsa, Okla., RFC; Dr. Danny Fread (principal lecturer), O/H, Silver Spring, Md.; Elza Echaniz, Bureau of Reclamation, Denver, Colo.; (3rd row) Billy Olsen, Des Moines, Io.; Edward Leuch, Corps of Engineers, Rock Island, Ill.; John Vento, Corps of Engineers, Chicago, Ill.; Craig Sanders, Minneapolis, Minn.; Ralph Clement, U.S. Geological Survey, Lawrence, Kans.; Robert Somrek, Chicago, Ill.; Bob Ramsey, Tennessee Division of Water Resources, Nashville; Robert Barkau, Corps of Engineers, St. Louis, Mo.; Lawrence Wetter, Soil Conservation Service, Salina, Kans.; Dave Brandon, Topeka, Kans.; Ron Schwartz, Corps of Engineers, Kansas City, Mo.



**FESTIVE
SEAFOOD
PUMPKIN**

- 2 pounds medium-sized shrimp, fresh or frozen
- 2 cans (12 ounces each) crab fingers or claws
- 1 large pumpkin
- 1 small box round colored toothpicks
- Endive, parsley, or leaves of evergreen
- Cocktail Sauce

Thaw frozen shrimp; place shrimp in boiling water. Cover and simmer 3 to 5 minutes or until shrimp are pink and tender. Drain. Peel shrimp, leaving the tail section of the shell on. Remove sand veins and rinse with cold water. Chill. Separate and wash endive, parsley, or evergreen. Chill.

Select a large, ripe pumpkin. Wash and dry pumpkin thoroughly. Attach the shrimp to the pumpkin with toothpicks in vertical lines following the sections of the pumpkin. For alternate lines of seafood use crab fingers and attach to pumpkin by placing the shell end of the claw in pumpkin. Continue layers of shrimp and crab fingers alternately until the pumpkin is covered. Garnish pumpkin and around base with endive, parsley, or evergreen leaves. Make approximately 12 servings.

Cocktail Sauce

- | | |
|--------------------------------------|--|
| 1 cup chili sauce | 1/4 cup finely chopped celery |
| 1/2 cup catsup | 2 tablespoons finely chopped green onions and tops |
| 1 tablespoon horseradish | 1 tablespoon finely chopped sweet pickle relish |
| 1/4 teaspoon salt | |
| 1 teaspoon Worcestershire sauce | |
| 2 tablespoons lemon juice | |
| 1/2 teaspoon liquid hot pepper sauce | |

Combine all ingredients; chill. Makes approximately 2 cups sauce.

(Note: If desired, a hole may be cut in the top of pumpkin to fit a 6 to 7-inch diameter shallow bowl and the Cocktail Sauce served in the bowl; or it may be served separately.)



Hawaii Governor George Ariyoshi accepts a satellite photo of Hurricane Fico from Clarence Lee (center), Meteorologist in Charge, WSFO Honolulu, and Dr. Ray Jensen (right), Director, NWS Pacific Region, during the state's Severe Weather Awareness and Preparedness Week in September.

**SE Multi-Agency
Communications
Group Forms**

The National Marine Fisheries Service, Southeast Region, has joined other marine law enforcement agencies in forming the Southeast Region Communications Survey Group.

NMFS employees, Morris Palozzi, Chief, Law enforcement Division; Charles Fuss, Jr., Special Agent In Charge; and Peter Marini, Communication Management Specialist, met recently in St. Petersburg, Fla., with representatives of the Coast Guard, Customs, and State conservation agencies to discuss the feasibility of a shared communications network. Marini was elected coordinator of the group.

The multi-agency group is in the process of identifying all the user communications requirements of the group and of studying all facets of communications facilities available for quick transmittal of information required in marine enforcement missions, including marine conservation, pollution, smuggling, emergencies and disasters. The result of the studies will assist in defining the extent and complexity of the network design and will determine what materials are needed for a standard communication capability.

**GOES-1 Goes
European**

Operational control of NOAA's GOES-1 geostationary satellite was formally turned over to the European Space Agency on Tuesday, November 14, in ceremonies at Villafranca del Castillo, Spain.

The spacecraft, originally on station over the eastern Pacific Ocean, has been moved to a position at 58 degrees west, above the Indian Ocean, where it will remain during the Global Weather Experiment. GOES-3, launched this past summer, replaced GOES-1 as the West Coast geostationary spacecraft.

BEST FISH BUYS

According to the NMFS National Fishery Education Center in Chicago, the best fish buys for the next week or so are likely to be fresh cod steaks and fish sticks along the Northeast Seaboard; fresh whole whiting and sea trout in the Middle Atlantic States, including the D.C. area; fresh catfish and speckled trout in the Southeast and along the Gulf Coast; frozen cod fillets and frozen batter fried portions in the Midwest; fresh Pacific shrimp and fresh Pacific red snapper in the Northwest; and fresh butterfish fillets and frozen turbot fillets in the Southwest.

Personnel (From p. 6)

projects, solve problems involving two levels of government, and build intergovernmental understanding by gaining experience in another administrative environment.

The Department of Commerce has taken advantage of the mobility provisions of the IPA and found the experiences to be quite beneficial. During fiscal year 1978, various bureaus of the Department sent 21 employees on IPA mobility assignments to universities and state and local governments. A total of 78 persons were brought into the Department. The length of the assignments varied from a few months to two years, with the majority falling into the 1-2 year category.

Most of the benefit derived by the Department from the program falls under the area of expert assistance received in a number of different scientific and technical areas. Moreover, employees on assignments have acquired additional expertise in their specialization, which is a value to the Department. Some other benefits have been establishment of valuable links with the academic community and the enhancement of understanding of mutual problems a number of areas.

National Oceanic and Atmospheric Administration

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Imaging Contractor
12200 Kiln Court
Beltsville, MD 20704-1387
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