

noaa week

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Congressional Saturation Dive Set At Hydrolab

Sen. Lowell Weicker of Connecticut and Congressman Bill Alexander of Arkansas will spend part of the summer recess at work under the sea.

Beginning Aug. 3, they will spend three days in a 16-foot-long cylinder at a depth of 60 feet, and then will endure 13½ hours of decompression before returning to the surface.

During their time in and near the Perry Hydro-Lab off the Bahamas, Weicker and Alexander will participate in experiments now under way by NOAA scientists. With them in the habitat will be Howard W. Pollock, Deputy Administrator, and Robert Wicklund, a fisheries biologist who also is manager of Hydro-Lab.

Anick Jackson Is NOAA Administrator In 29th Girls Nation Program

Anick Jackson, of Gulfport, Miss., was chosen by Girls Nation to serve as the Administrator of NOAA in the American Legion Auxiliary's 29th youth citizenship training course in the processes of Federal Government.

Dr. Robert M. White outlined his duties and responsibilities as NOAA Administrator to Miss Jackson when she visited his of-



Skywave Radar Monitoring Distant Sea

Search Underway for Marine Extracts Useful in Treating Cancer, Leukemia

A Sea Grant team at the University of Oklahoma is searching for extracts of marine organisms that may be useful in treating cancer and leukemia, hypertension, and cardiovascular disease.

According to Dr. Robert B. Abel, Director of the Office of Sea Grant, "This research program in landlocked Oklahoma, the only non-coastal or non-Great Lakes state with a Sea Grant, is one of the most significant programs designed to discover and identify marine substances with potential medical applications."

Supported by Sea Grant since 1971, the chemists and pharmacologists have provided the National Cancer Institute with extracts from 1665 marine species for testing against experimental tumor systems. Of these, 104

have been confirmed as active against leukemia in mice and 30 against human cancer cells in tissue culture. Some aspects of the program are funded by the National Cancer Institute.

Professors A. J. Weinheimer, L. S. Ciereszko, P. N. Kaul, and F. J. Schmitz and their students skin dive to collect their specimens for study. Marine plants and animals are collected from the tropical coral reefs of the Bahamas, Bermuda, Jamaica, Florida, and Eniwetok. The team also obtains specimens from the Drug Development Branch of the National Cancer Institute.

The Oklahoma team first derives crude extracts from the specimens. After the extracts' pharmacological action has been confirmed, they are subjected to chemical study to isolate the pure compounds with potential usefulness as drugs, and the structure of these pure compounds is determined. Larger quantities are then obtained—by harvesting or by synthesizing them in the laboratory—and referred to interested pharmaceutical companies for the preclinical and clinical studies required before new drugs may be introduced.

Under an agreement with the university, the Upjohn Company screens the marine extracts for certain types of bioactivity. Last year, preliminary results of the company's tests found one ma-

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Scientists are monitoring distant sea conditions in the North Pacific for the first time with a specially designed skywave radar that has just begun test operations off the coast of California. Project scientists say that, if the year-long tests of the over-the-horizon system are successful, operational versions of it could speed ships in their transoceanic cruises and could save ocean-related industries tens of millions of dollars a year.

This high-frequency radar is a key element in a cooperative research study known as SEA ECHO being conducted by the Naval Research Laboratory (NRL), Washington, D.C., and the Environmental Research Laboratories and Institute of Telecommunication Sciences (ITS), both in Boulder, Colo.

The target area of the first research study is the Gulf of Alaska, selected for its severe and changeable weather, and its role in American energy plans. The Gulf will be crossed by the sea leg of the Trans-Alaska Pipeline, and proposed oil leasing areas on the Alaskan continental shelf are the subject of an intensive environmental study being conducted by NOAA for the Interior Department's Bureau of Land Management.

Specifically, the radar-scanning technique employed is capable of helping scientists:

- predict destructive wave activity along the northwest coast of America;

- infer average wind conditions near the ocean surface for the prior 6 to 24-hour period;

- improve warnings to coastal

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EDS Unit Relocated in Boulder

The Marine Geology and Geophysics Branch, one of several data groups in the Environmental Data Service's National Geophysical and Solar-Terrestrial Data Center, has been relocated in Boulder, Colo., from Washington, D.C. to consolidate the Center's activities.

The Branch acts as a national clearinghouse for bathymetric, magnetic, gravimetric, seismic and bottom sample information collected under various programs by the United States marine in-

stitutions and government agencies.

As a major national source for these data and an archive for some marine data from international sources, it is actively involved in processing and formatting data in support of proposed resource projects on the U.S. Outer Continental Shelf and with the International Decade of the Ocean Exploration program.

Paul J. Grimm heads the 11-person professional staff of the Branch.

personnel perspective

Current Vacancies in NOAA

To insure that NOAA employees are aware of job possibilities throughout the agency, a list of current NOAA-wide vacancies is published below. Employees interested in any of the listed vacancies

should contact their servicing personnel office for information on where to apply.

Announcement Number	Position Title	Grade	MLC	Location	Issue Date	Closing Date
777-75	Associate Director	GS-17	NMFS	Washington, D.C.	7/7/75	7/28/75
5-76	Meteorologist	GS-13	NWS	Raleigh, N.C.	7/14/75	7/28/75
6-76	Electronic Tech.	GS-11	NWS	Detroit, Mich.	7/14/75	7/28/75
7-76	General Supply Spec.	GS-11	NWS	Anchorage, Alaska	7/14/75	7/28/75
8-76	Budget Analyst	GS-11	NWS	Anchorage, Alaska	7/14/75	7/28/75
9-76	Meteorological Tech.	GS-10	NWS	Norfolk, Nebr.	7/14/75	7/28/75
10-76	Meteorological Tech.	GS-9	NWS	Williston, N. Dak.	7/14/75	7/28/75
11-76	Supv. Electronics Tech.	GS-12	NWS	Denver, Colo.	7/14/75	7/28/75
12-76	Supv. Meteorologist	GS-13	NWS	Cheyenne, Wyo.	7/14/75	7/28/75
13-76	Chemist	GS-12	ERL	Boulder, Colo.	7/14/75	7/28/75
14-76	Physical Scientist	GS-13	ERL	Princeton, N.J.	7/14/75	7/28/75
2-76	Supv. Physical Scientist	GS-16	NESS	Suitland, Md.	7/9/75	7/30/75
15-76	Food Inspector	GS-5	NMFS	Gloucester, Maine	7/16/75	7/30/75
16-76	Fishery Biologist	GS-13	NMFS	Galveston, Tex.	7/16/75	7/30/75
17-76	Meteorologist	GS-14	NWS	Silver Spring, Md.	7/16/75	7/30/75
18-76	Supply Management Officer	GS-12	NWS	Kansas City, Mo.	7/18/75	8/1/75
19-76	Meteorological Tech.	GS-11	NWS	Hartford, Conn.	7/18/75	8/1/75
20-76	Computer Spec.	GS-12	ERL	Boulder, Colo.	7/18/75	8/1/75
23-76	Electronics Engineer	GS-13	NWS	Silver Spring, Md.	7/23/75	8/6/75
24-76	Fishery Administrator	GS-13	NMFS	St. Petersburg, Fla.	7/23/75	8/6/75
25-76	Fishery Biologist	GS-13	NMFS	La Jolla, Calif.	7/23/75	8/6/75
26-76	Supv. Meteorologist	GS-14	NWS	Camp Springs, Md.	7/23/75	8/6/75
27-76	Physical Scientist	GS-12	NWS	Camp Springs, Md.	7/23/75	8/6/75
21-76	Management Analyst	GS-12	ERL	Boulder, Colo.	7/18/75	8/8/75
22-76	Supv. Electronics Engineer	GS-15	NESS	Suitland, Md.	7/18/75	8/8/75

Testing Aid for Handicapped

The U.S. Civil Service Commission has modified techniques used to test handicapped persons for competitive job entry in the Federal service. New methods of administering the Professional and Administrative Career Examination (PACE) are designed to insure equality of employment opportunity for disabled persons. The Commission solicited the aid of experts in the fields of education, testing, and employment of the blind and deaf. The experts recommended changes in test administration and content that would make the exams more fair to disabled test takers.

Although the suggestions were directed toward government testing, many of them could be equally applied to personnel testing and selection procedures in the private sector:

-Blind and visually handicapped competitors are offered a choice of using braille, cassette tape, a reader, large print, or regular print. One recent change now allows a blind competitor to use an abacus or arithmetic-type slate on tests involving computations—a decision that is now general policy in administering federal tests.

-Many congenitally deaf persons have difficulty comprehending complex written material. This is most obvious when the deaf try to understand test instructions. CSC will stress the use of interpreters to translate test instructions to sign language and, as a further precaution, has hired a deaf person to write test instructions for deaf competitors.

-Changes have been made in test content. For example, questions that depend on visual presentation, such as those involving large tables of numbers, have been deleted for blind and visually handicapped persons.

-The Commission will carefully monitor the use of PACE by blind and deaf competitors and will institute no time limits for these candidates until fair limits may be determined on the basis of actual usage.

Disability Retirement Information

As announced in the July 3, 1975, edition of Personnel Perspective, retired Federal employees will receive a 5.1 percent cost-of-living increase effective August 1, 1975. Some NOAA employees who are awaiting decisions on pending disability retirement cases have asked whether they will be able to take advantage of the bonus situation if they have not received a final decision on the disability application by July 31, 1975.

The Civil Service Commission has advised us that if the applicant for disability retirement is carried in a pay status on sick leave or annual leave after July 31, 1975, the employee will not be eligible for the comparative computation of annuity back to December 31, 1974. (This comparative computation was described in the July 3,

1975, edition of Personnel Perspective.) To avoid this situation the following procedures are suggested:

1. Applicants may request leave without pay beginning on August 1, 1975.

2. If the claim is disallowed, sick or annual leave with pay may be retroactively substituted for the leave without pay.

3. If the claim is allowed, the annuity then commences on August 1, 1975, accumulated annual leave is payable in a lump sum, and unused sick leave is used in computing the annuity.

In some cases where a large amount of sick leave is involved, it may be more advantageous for an employee to remain in pay status on sick leave and be separated as of the date the sick leave expires. Although the employee would not be eligible for a comparative computation back to December 31, 1974, the employee would be eligible for a comparative computation back to July 31, 1975, or if there is another cost-of-living increase effective after August 1, 1975, and before the sick leave expires, back to the last preceding cost-of-living increase. Being able to receive pay while in a sick leave status, and the possible increase in the high-3 average pay and length of service could more than offset any loss of the December 31, 1975, comparative computation.

Further information on the choices open to disability applicants, and the effect of the choices, is available from your servicing personnel office.

UMTP Reminder

NOAA employees interested in applying for any of the Upward Mobility Training Programs announced in the April 25, 1975, edition of NOAA WEEK, should submit a CD-261, "Merit Promotion Interest Statement," a SF-171, "Personnel Qualifications Statement," and NOAA Form 52-18, "Employee Appraisal," to: NOAA Personnel Division, 6001 Executive Boulevard, Rockville, Maryland, 20852. ATTN: AD422. Candidates should send an application for each program for which they wish to apply. Candidates who have successfully completed one program may apply for consideration in another program after a 12-month waiting period. Candidates are encouraged to discuss program content with their supervisor and/or servicing personnel office. Closing dates for acceptance of applications are as follows:

Application Closing Dates	Program Starting Date
July 31	Oct. Feb.
Aug. 31	Nov.
Aug. 31	Nov.
Oct. 31	Jan.

A DEPARTMENT OF COMMERCE BRONZE MEDAL has been presented to Clarence J. Carlson (center), who retired recently from the National Marine Fisheries Service Northeast Utilization Research Center in Gloucester, Mass. The award, presented by Center Director Louis J. Ronsivalli, recognized Mr. Carlson's "expertise and leadership in the area of fishery technology which led to solutions to many serious industry problems over the years." Mrs. Carlson attended the ceremony.



New Edition of Coast Pilot 7 Published

A new edition of Coast Pilot 7, the "mariner's Bible" for the Pacific Coast and Hawaii and the first to be issued in seven years, has been published by the National Ocean Survey.

The 395-page volume contains the latest information on the coast and harbors of California, Oregon, Washington and Hawaii, based on a year's on-the-spot inspection by NOS personnel.

The 11th edition of this book, which has served mariners for more than a century, includes information on port facilities at some of the Nation's most important harbors on the Pacific, including San Diego, Los

Angeles, Long Beach, San Francisco, Portland, Seattle, Tacoma and Honolulu.

Detailed information is provided on wharves, cargo-handling equipment, depths alongside wharves, available storage area, and other data of interest to mariners. Small craft information has been increased, with emphasis on the transient boatman away from his usual cruising area.

Copies of the new edition may be obtained for \$6 from the NOS Distribution Division (C44), 6501 Lafayette Avenue, Riverdale, Md. 20840 or from its authorized sales agents.

LSC Surveys Position of Detroit's New Water Intake Structure

The Lake Survey Center's Horizontal Control Section recently provided geodetic control support in determining the position of the City of Detroit's newly constructed submerged water intake structure in Lake Huron, about eight-and-one-half miles northeast of the mouth of the St. Clair River.

Surveying Technician Jim Bryson made the actual eccentric measurements to an above-water construction at the site with the help of three other technicians. Mathematics Technician Jim Fre-

mont made the necessary eccentric reduction computations in the LSC's Detroit offices to obtain the position of the submerged intake. The operation was under the direction of William Bergen, Chief, Horizontal Control Section, and William Monteith, Chief, Surveys Branch. U.S. Coast Guard personnel stationed at Port Huron provided the necessary boat transportation to the offshore site.

This is the first time the in-

KCRT System, AFOS Predecessor, Nears 5th Anniversary in NWS

A little-known communication system within the National Weather Service that was a predecessor to the AFOS (Automation of Field Operations and Services) system is about to celebrate its fifth anniversary.

This is the KCRT system for message composition and display, which is linked to the National Meteorological Center's IBM/360 computer. (KCRT stands for Keyboard Cathode Ray Tube, denoting the combination of a

typewriterlike keyboard with a TV-type display.)

Begun as an experiment by the NWS Communications Division, the KCRT system quickly demonstrated its usefulness and has grown to a network of 40 display terminals, nationwide, in 18 installations.

KCRT pioneered in substitution of an all-electronic system for time-consuming communications on paper by teletypewriters. It delivers messages at 3,000 words a minute, compared to teletypewriter delivery of 50 to 100 words a minute.

The system incorporates a request/reply feature by which a specific item of information is available in a few seconds, in most instances. It also offers editing capabilities by which wrong characters may be corrected by merely typing over them, new information may be added by spreading apart words on the screen and typing in the desired data, and material may be deleted and sentences closed up. Such editing makes message composition extremely simple and fast.

The NWS Communications Division's Presentation and Display Branch, headed by Seymour Steiner, is responsible for development and maintenance of the KCRT system, in cooperation with NMC's Automation Division. Other Branch members are B. Augustine, V. Bjercknes, W. Cavanaugh, W. Crissman, R. Green, G. Griffin, H. Rice, and S. Walker.

Charting Filmed

A film crew from Station KOMO-TV, Seattle, Wash., spent a week aboard the NOAA Ship Fairweather in Alaska filming its nautical charting activities. The filming was done in Shelikof Strait, near Cook Inlet, for the program "Exploration Northwest."

NOAA Had Exhibits In Ten '75 Boat Shows

NOAA participated during the 1975 season in boat shows in Los Angeles, Houston, New York, Cleveland, Baltimore, Detroit, Washington, D.C., Miami, New Orleans and Chicago.

A new exhibit featuring four lighted panels depicted the products and services of the National Ocean Survey, National Marine Fisheries Service, National Weather Service and Office of Sea Grant.

All shows recorded increases in attendance over those for 1974. Houston recorded 317,682 paid admissions, and New York led all shows with 336,100.

Plans are now being made for NOAA participation in 1976 boat shows.

take structure has been accurately measured for charting purposes. Previous measurements had been made in the intake tunnel during construction, but had not been tied to chart datum. The intake structure projects about five feet above the lake bottom in 50 feet of water.

The position derived from the survey will be used to depict accurately the intake location on future nautical charts of these waters.



PARTICIPANTS IN THE 27TH WEATHER SERVICE OPERATIONS CLASS held recently at the NWS Technical Training Center in Kansas City, Mo., were (front row, from left) Richard A. Stitt, WSFO Los Angeles, Calif.; Frederick W. Schaefer, WSO Green Bay, Wis.; Lawrence G. Blanchard, WSO Columbia, Mo.; Edward Stickrod, WSFO Cleveland, Ohio; Ray West, WSO Rochester, N.Y.; Charles Moshier, WSO Sheridan, Wyo.; (standing, from left) Fred W. Leapley, NMC, Suitland, Md.; Frank Dillenkoffer, Instructor; James A. Eberwine, WSFO Philadelphia, Pa.; Gerald M. Beach, WSO Salem, Ore.; Paul W. Creceilius, WSO Rapid City, S.D.; James M. Burnett, WSO Lihue, Hawaii; Ronald L. Wavrin, WSO Medford, Ore.; Jerral Miller, WSO Huntsville, Ala.; Jack R. Tanner, WSO Las Vegas, Nev.; Richard A. Tippin, WSO Annette Island, Alaska; Robert Townsend, WSO Caribou, Maine; and Mike Coffin, Instructor.

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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

notes about people

Dr. Alan R. Thomas has been appointed Director of the Office of Programs at the Environmental Research Laboratories in Boulder, Colo. He succeeds John R. Robinson, who has gone to a position in ERL's outer continental shelf environmental assessment program.



Dr. Thomas

Dr. Thomas was previously a program analyst and budget examiner with the Office of Management and Budget, concerned with National Science Foundation issues. Earlier, as a program analyst and project leader for Analytic Services, Inc., he was involved in planning and developing Air Force research and development programs.

He holds a B.A. degree in physics and mathematics from Hamilton College in Clinton, N.Y., and received his Ph.D. in physics from the University of Rochester, N.Y.

Dr. George M. Meaburn has been appointed Program Leader for the Fisheries Chemical Analysis Program of the National Marine Fisheries Service Southeast Utilization Research Center in College Park, Md. He succeeds Mrs. Mary Ambrose who has retired.



Dr. Meaburn

Dr. Meaburn, who was born and educated in England, has been a guest scientist with the National Bureau of Standards since November. Prior to that, he was head of the Chemistry Division of the Armed Forces Radiobiology Research Institute in Bethesda, Md., and also held research posts in England and France.

Norman Doelling has been named manager of the Massachusetts

Search Underway for Marine Extracts

(Continued from page 1)

rine extract active against bacteria and another against viruses.

Marine organisms of greatest interest to the scientists now are corals, sea whips, and sea fans, anemones, and other animals low on the evolutionary ladder. They also are studying two species of sponges, whose extracts lower blood pressure and improve the tone of the heart muscle. Natural and synthetic chemical compounds with these properties are potentially useful in treating high

M. O. Dosunmu (left), a meteorologist from Nigeria interested in advancing his country's agriculture, is spending four weeks observing National Weather Service operations at Clemson University, Clemson, S.C., after completing two semesters at the University of Wisconsin under a United Nations scholarship. Alex J. Kish (right), Meteorologist in Charge of the Clemson Weather Service Office, is hosting Mr. Dosunmu's visit.



sets Institute of Technology Sea Grant Program's Marine Industry Advisory Service. The Service will function as a link with marine-oriented industries for exchanging ideas and information on business opportunities in the ocean and in ocean technologies. Mr. Doelling has had extensive experience in the selection, marketing and management of new products and services.

Most recently, he has been self-employed in his own consulting venture, serving high-technology American companies who seek business opportunities in Japan.

He holds bachelor's degrees from M.I.T. and Amherst College, and a master's from M.I.T.

Donald A. Kluckman recently entered on duty as

Meteorologist-in-Charge at the National Weather Service Meteorological Office in Neenah, Wis., replacing Anne Elder. He had been Official in Charge at the Weather Service Office in Pueblo, Colo., since 1971, and previously had been stationed at Rockford, Ill.; in the Western and Alaska Regions; and had served four years in the Navy as a Meteorologist.



Mr. Kluckman

blood pressure and heart disease. A major objective this year is development of streamlined standardized techniques for measuring the effects of the marine extracts. The team also will study the most potent non-proteinaceous marine toxin known—palytoxin. Because of its powerful constrictive effect on coronary arteries, palytoxin could be a valuable tool in studies of certain forms of angina.

A \$90,000 Sea Grant recently awarded will help continue this research.

Cdr. Donald J. Florwick, former Executive Officer of the NOAA Ship Researcher, has succeeded Capt. Robert W. Franklin as Officer in Charge at the National Ocean Survey's Southeast Marine Support Facility in Miami, Fla. (Formerly officially the Miami Ship and Ocean Engineering Facility, it was generally referred to as the Miami Ships Base.) He served previously for 30 months as Liaison Officer at the Environmental Research Laboratories' Atlantic Oceanographic and Meteorological Laboratories in Miami. He joined the commissioned corps in 1961.



Cdr. Florwick

Dr. Carleton Coulter III, NOAA Facilities Engineer, has been elected a Fellow of the

Skywave Radar Monitoring Distant Sea

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areas and ships likely to be damaged by the waves; and

—predict where and when high waves will reach other regions.

Remote areas such as the North Pacific are sparsely measured and the SEA ECHO data are expected to have a high potential in supplying needed information. Navy and NOAA scientists will test the radar data against the computer-generated models for a year or more to determine its reliability and accuracy before using it in real-time predictions.

Dr. Donald E. Barrick, Chief of Sea State Studies for NOAA's Wave Propagation Laboratory, said, "It will be the first time that it is possible to monitor wave and sea conditions on a regularly scheduled basis by remotely sensing sea state out to as far as 2,000 nautical miles."

A Wave Propagation Laboratory report estimates economic benefits to U.S. interests from an

American Society of Civil Engineers in recognition of his engineering accomplishments.

He has been a Department of Commerce employee for the past six years.

Charles T. Whalen has been named Chief of the National Geodetic Survey's Vertical Network Branch in Rockville, Md. He succeeds Cecil Ellingwood, who retired.



Mr. Whalen

A 1952 graduate of Montana State University in civil engineering, he was employed until 1959 by the Inter-American Geodetic Survey in Mexico, Panama, Columbia, Ecuador, Peru and Chile, and during the next 15 years by the U.S. Air Force Geodetic Survey Squadron, first in Orlando, Fla., and then in Cheyenne, Wyo.

Andrew Smith recently became the first graduate in the Boulder Administrative Training Program sponsored by the Environmental Research Laboratories, and is now a management analyst for Special Management Services. He was a library technician in Research Support Services when he was chosen for the program through a merit selection procedure.

Alaska Tax Changes

Employees who are subject to state tax withholdings for the State of Alaska may notice a minor change in their state tax for salary checks dated on or after July 30, 1975.

operational, \$12 million, two-site sea-scatter radar system scanning both oceans of as much as:

- \$45 million by ships carrying U.S. cargoes;
- \$8 million by U.S. fisheries;
- \$16 million by U.S. naval operations and research;
- \$14 million by offshore oil drilling and pumping operations;
- \$5 million by marine scientific research;
- \$4 million from coastal damage prevented; and
- \$8 million by recreation.

The radar's signals will be able to observe the coast of California, Oregon, Washington, and British Columbia as well as a wide section of ocean in the Gulf of Alaska. The SEA ECHO radar will also be able to "zero in" on any of 400 designated 80-by-80-mile patches of ocean within the antenna's range as far away as the westernmost tip of the Aleutian Island chain.



National Oceanic and Atmospheric Administration

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