

COAST & GEODETIC SURVEY

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NEWPORT OBSERVATORY OFFICIALLY OPENED

The Newport Geophysical Observatory, located eight miles north of Newport, Wash., and 40 miles north of Spokane, will be dedicated June 11 with Senator Henry M. Jackson of Washington the principal speaker. Also attending will be Vice Admiral H. Arnold Karo, ESSA Deputy Administrator; Rear Admiral James C. Tison Jr., C&GS Director; Captain Harold J. Seaborg, Director of ESSA's Pacific Marine Center in Seattle; and Congressman Thomas S. Foley, in whose district the observatory is located. One of the most modern geomagnetic and seismological facilities in the world, it is the first observatory of its kind in the Pacific Northwest. With this latest addition, Coast and Geodetic Survey maintains 15 of these observatories over a wide expanse from Point Barrow, Alaska, to the South Pole, and from Puerto Rico to Guam. Nearest ones to the Newport facility are at Boulder, Colo., and Palo Alto, Calif. Geophysicist Robert A. Eppley heads the new observatory.

ESSA OFFICERS COMMISSIONED

ESSA Deputy Administrator Vice Admiral H. Arnold Karo gave the principal address at graduation ceremonies of ESSA commissioned officers in Norfolk, Va., last week. The 34 graduates, who hold college degrees, had completed an intensive 13-week course in the scientific disciplines of ESSA which included, for the first time, meteorology and aeronomy to prepare them for possible future assignments in ESSA's Weather Bureau. Most of the graduates will be assigned to C&GS ships after a brief orientation at ESSA headquarters. The training program was conducted at the Atlantic Marine Center in Norfolk, the 20th officers class to be held there.

WB/USAF TEAM-UP

In response to a request from U.S. Air Force Systems Command, the Weather Bureau's Systems Development Office (SDO) is furnishing on-site technical support for installation of three WB WSR-57 radar systems in Southeast Asia. Ron Hilton of SDO's Equipment Development Laboratory will assist the contractor and Air Force personnel in establishing new operational sites, which will provide primary weather radar coverage to support increased military air operations.

ESSA OPENS DOORS

When ESSA celebrates its first anniversary July 13, the day the new organization officially came into being, many ESSA offices throughout the Nation will have open house so the public can learn of ESSA's numerous services. Exhibits now being planned by various ESSA groups will illustrate how weather forecasts are made, how earthquakes are recorded, how the earth's size and shape are measured, and how communications disturbances are predicted. Some ESSA ships, planes, and research laboratories also will be open to visitors.

CONTINENTAL SHELF DEVELOPMENT URGED

ESSA and the Office of Regional Economic Development (Dept. of Commerce) have started a cooperative project to encourage economic development of continental shelf regions. The project, which includes two economic research studies to be performed under contract as well as scientific projects to be performed by ESSA, will emphasize the resources available in New England shelf areas. ESSA will issue and monitor study contracts which will examine: (1) opportunities for achieving high levels of economic development consistent with wise management of continental shelf resources; (2) suitability of resources in New England coastal waters for marine-oriented uses. In addition, ESSA will assemble scientific information, such as bathymetric, geological, and gravity data, on the New England continental shelf to aid private firms in developing shelf resources.

CHINESE CLOUD THE ISSUE



The Institute for Atmospheric Sciences' Air Resources Laboratory (ARL) scientists have been tracking the cloud of radioactive debris which resulted from the third Chinese nuclear detonation last month. Most of the debris is believed to be in the upper troposphere. ARL provided information to the Atomic Energy Commission, the U. S. Public Health Service, the National Association of Photographic Manufacturers, and others concerned with radioactivity problems.

NEW C&GS APPOINTMENTS ANNOUNCED

William N. Green has been named to supervise Coast and Geodetic Survey's network of observatories where geomagnetic and seismological data are recorded. Observatories now are located at Adak, Sitka, Palmer, College, and Barrow, Alaska; Cayey, Puerto Rico; Dallas; Boulder, Colo.; Castle Rock, near Palo Alto, Calif.; Newport, Wash.; Tucson, Ariz.; Guam; Honolulu; and several in Antarctica. Eight of these observatories maintain a 24-hour watch as part of the Seismic Sea Wave Warning System. In another position appointment, Dr. S. T. Algermissen is the new chief of the Geophysics Research Group, Office of Seismology and Geomagnetism, at ESSA headquarters. He will direct the analysis and application of seismological and geomagnetic data collected by C&GS field parties and observatories. Lieutenant Commander Sidney C. Miller is scheduled to take over his new post as Commanding Officer of the USC&GSS Whiting in July.

ESSAite AUTHORS SPECIAL FEATURE

The spring issue of the Institute of Navigation Journal features an article by ESSA Captain Lorne G. Taylor, "Modern Charting Requirements for Marine Navigation and the National Economy". Taylor describes the extensive field and office operations necessary to produce and maintain this important charting service to the public and outlines recent advances in marine technology and oceanographic development.

NEW BOULDER LABORATORY

An informal conference last week introduced members of ESSA's Atmospheric Physics and Chemistry Laboratory to the local scientific community at Boulder, Colo. This Laboratory, part of the Institute for Atmospheric Sciences, is the first major addition to the Boulder facilities since the creation of ESSA last July. Speakers at the conference were Laboratory Director Dr. Helmut Weickmann, Dr. Joanne Simpson, Dr. Heinz W. Kasemir, William Cobb, Howard Ellis, Lothar Ruhnke, Byron Phillips, Heinz H. Grote, Paul Allee, Dr. Mary Hodge, Walter Komhyr, Ferdinand Zegel, and James T. Bradley. Some of the Laboratory's scientists already have moved to Boulder and the remainder of the staff will be transferred there from the Washington area by late summer.

BRONZE MEDALS PRESENTED TO ESSAITES

Bronze medals for superior service, the highest honor a Department of Commerce bureau can confer upon an employee, have been awarded to the following Coast and Geodetic field personnel: Commander Leonard S. Baker, formerly executive officer and commanding officer of the USC&GSS Pioneer; Locke L. Cranford Jr., Atlantic Marine Center, Norfolk, Va.; Roger N. Hunter, Blue Mountain Observatory, Baker, Ore.; Stephen R. Marson, chief engineer of USC&GSS Whiting; Moroni G. Metcalf, chief engineer of USC&GSS Surveyor; George E. Moore, head of the Boston Field Office; Lieutenant (j.g.) Frederick G. Paulsen, satellite navigation officer on USC&GSS Surveyor; Victor E. Serena, East Coast Field Office, Norfolk, Va.; Joseph Steinberg, Photogrammetric Branch chief, East Coast Field Office, Norfolk; and Oliver C. Swindell, chief quartermaster surveyor on USC&GSS Hilgard. Additional Bronze Medal presentations to other ESSA field employees will be made at later dates.

WEATHER REPORTS BY ROCKETS



ESSA, along with the National Aeronautics and Space Administration, the U.S. Army, Navy, and Air Force, participated in a joint project to launch meteorological sounding rockets from Wallops Station, Va., last month. Instrumented payloads were carried to altitudes of about 200,000 feet by the rockets and transmitted information on atmospheric temperature, density, and pressure as they descended by parachute. Specially-instrumented weather balloons rose to altitudes of about 130,000 feet and transmitted similar information. The experiment was to compare the results of various rocket and balloon measuring systems, to study effects of sun radiation on meteorological instruments, and to investigate the daily wind cycle and temperature variation in the upper atmosphere.

BOULDER HOSTS DOWN UNDER VISITORS

Two Australian scientists visited ESSA's Institutes for Environmental Research (IER) at Boulder, Colo., last month. Dr. Hugh C. Webster, professor of physics at the University of Queensland, and Dr. Reginald A. Smith, associate professor of physics at the University of New England, consulted with IER staff on problems in radio research.

EDS IN THE NEWS

Environmental Data Service Chief Climatologist Herbert C.S. Thom spoke on statistical methods in climatology to a seminar at Johns Hopkins University last month. EDS Climatology Division Chief Lothar A. Joos attended a meeting in Chicago last month to discuss the role of climatology in the National Hail Suppression Project. A World Meteorological Organization Fellow from the Institute of Tropical Meteorology, Poona, India, D. A. Mooley, has completed a one-month stay with EDS at Suitland, Md., studying climatological programs. He is scheduled to visit the National Weather Records Center at Asheville, N. C., from August until November. E. Arlo Richardson, ESSA State Climatologist for Utah and Nevada, has been selected for membership in Sigma Xi, a society honoring achievement in research.

YACHT RACE TO USE ESSA AID



Several ESSA components will provide services for the Newport, R.I., to Bermuda yacht race this month. Coast and Geodetic Survey will relay information on Gulf Stream currents for use by captains in planning their courses. The Weather Bureau is briefing captains before departure and will relay weather forecasts four times daily while the fleet is en route to Bermuda.

CLOUD NUCLEI EYED

Dr. Helmut Weickmann, Director of ESSA's Atmospheric Physics and Chemistry Laboratory, participated in a cloud nuclei workshop at Boulder, Colo., last month, which was attended by 30 international scientists. The meeting was an auxiliary session of the sixth International Conference on Condensation Nuclei. The scientists were particularly concerned with determining which particles actually function as condensation nuclei for cloud formation and also were interested in the way in which various nuclei produce precipitation.

SHALOWITZ HONORED

Aaron L. Shalowitz, a retired Coast and Geodetic Survey official, was honored by the American Congress on Surveying and Mapping at its 25th anniversary meeting with a plaque reading, "for outstanding contribution to the surveying and legal professions in the field of shore and sea boundaries." Retired from C&GS in 1964, after 48 years service, Shalowitz is the author of the two-volume Shore and Sea Boundaries, published by the Government Printing Office.

WHERE IS ENSCI?

ESSA's new cable address is ENSCI, Rockville, Maryland, to be used for identifying cable messages to and from ESSA. This new address does not alter any previously established addresses for Coast and Geodetic Survey or Weather Bureau.

EDL GETS NEW DEPUTY

Wayne F. Staats has been named Deputy Director of the Weather Bureau's Equipment Development Laboratory (EDL). Staats will continue as chief of the Laboratory's Equipment Branch while serving in his new capacity.

Items to be considered for ESSA NEWS must be received by Friday for publication the following Friday. Send material to: Office of Public Information, ESSA, Room 1021, Bldg. 5, WSC, Rockville, Md. 20852. Phone (301) 496-8193.

National Oceanic and Atmospheric Administration

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