



# ESSA NEWS

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

## Earth Day Observed at ESSA Headquarters



Dr. Robert M. White, ESSA Administrator, addresses crowd at Earth Day observances held at ESSA headquarters, April 22.

## NMC Global Predictions Aid Apollo 13 Forecasts

Global numerical analyses and forecasts--the first ever produced for operational purposes by any nation--were made by the Weather Bureau's National Meteorological Center to assist recovery operations for the Apollo 13 mission. Beginning at 7 a.m. EST on April 16, the day before the successful splashdown, 500 millibar global wind and height analyses were made. These analyses were used as initial data for 500 millibar global barotropic forecast calculations for up to 36 hours. The forecasts of high-altitude wind flow and pressure patterns were passed on to the Bureau's Spaceflight Meteorology Group to aid them in their recovery area forecasts, which proved to be very accurate.

The operational forecast models normally used by the NMC include one that covers most of the Northern Hemisphere and a tropical model for the belt between 48 degrees South and 48 degrees North.

For some time, the Center's Development Division has been working on the development of a global barotropic model. Because the weather in the Apollo 13 emergency recovery area at 21 degrees South was being affected by a trough at the middle latitudes of the Southern Hemisphere, the National Meteorological Center used its experimental global model to obtain a better forecast of this mid-latitude weather system.

In preparing its analyses and forecasts, the Spaceflight Meteorology Group used surface and upper air observations, reconnaissance aircraft reports, other NMC guidance material, and several meteorological satellite products, in addition to the NMC's global forecast model. In particular, the ESSA 9, ATS-1, ITOS-1, and Nimbus 4 visible and infrared depictions were used. Both the predictions and the landing weather were good.

## WB and Air Force Make Hurricane Season Plans



Dr. George P. Cressman, Weather Bureau Director (left), and Major General Russell K. Pierce, Jr., U.S. Air Force Air Weather Service Commander (right), conferred this month on the forthcoming 1970 Atlantic hurricane season.

### Volunteer Now for D.C. Rainfall Study

A study is presently underway of meso-scale and individual storm rainfall and maximum and minimum temperature patterns in a 25-mile radius of Washington, D.C. Volunteers, including part-time, are still needed to fill gaps in the one-mile-spaced network by recording daily rainfall amounts using simplified rain gages. The network, established in 1946 and directed by Clarence A. Woollum since 1958, consists of private citizens who have an interest in meteorology, as well as approximately 75 ESSA employees. At present, there are about 150 sites in the Washington network. The data gathered by the volunteers is used to study the relationship of rainfall to runoff, to measure mesoscale variability of precipitation, and for studies of rainfall amount and intensity versus flooding that becomes more acute as rural property is converted into urban. Those desiring to participate in the volunteer network may call Thomas Blackburn, 495-2497 (IDS code 179-2497) on weekdays or 598-5870 evenings and weekends. Rain gages are available for \$1.65.

## Lt. Walter to Command USC&GSS RUDE and HECK

Lt. Merritt N. Walter has been appointed commanding officer of the USC&GS Ships RUDE and HECK now operating in the Gulf of Mexico. The wire drag ships, the only ones of their kind in the nation, are specifically designed to obtain information through wire drag operations of navigational hazards. Lt. Walter served as executive officer of the two vessels before his present appointment. Prior to that, he served in the Navy for six years. His service in the Corps includes assignments aboard the USC&GS Ships EXPLORER and DISCOVERER.



### OCEANOGRAPHER Investigates Pacific Basin

A three-week investigation of a 600-by-600 mile basin at the bottom of the Pacific is being carried out during April by the USC&GS Ship OCEANOGRAPHER. Scientists will study the welling up of heat from within the earth that warms the water below the sea as it moves northward from the frigid Antarctic. Little is known of the process by which this thermal energy moves upward after it escapes the earth's crust. The Panama Basin was selected for the investigation because the heat that rises in it from within the earth is estimated to be three times greater than the average rate elsewhere in the world's oceans. Scientists from Columbia and Ecuador are scheduled to participate. Theodore Ryan of the Pacific Oceanographic Laboratories in Seattle is in charge of the investigation. Others in the party include Norman P. Laird of the Seattle Laboratories; Paul Grim of the Atlantic Oceanographic and Meteorological Laboratories, Miami; and William Plank of Oregon State University. The USC&GS OCEANOGRAPHER, commanded by Capt. Merlyn Natto, is scheduled to return to Seattle on May 7.

## Junior Fellows Tour ESSA

Students selected for the Junior Fellowship Program in the Washington, D.C., area visited ESSA headquarters recently as part of an orientation in the activities of the Commerce Department. They were welcomed by T. P. Gleiter, ESSA Assistant Administrator for Administration and Technical Services. Everett H. Ramey of the Coast Survey's Photogrammetric Branch led the group on a tour of the Survey's headquarters offices. These Junior Fellows will be assigned to Commerce agencies in the Washington metropolitan area, and will be given assignments closely related to their career interests and college majors. Junior Fellows will also be employed at various field offices of the Weather Bureau, the Coast and Geodetic Survey, the Research Laboratories, and the Environmental Data Service. Students selected for the Junior Fellowship Program are high school seniors in the top 10 percent of their classes who have outstanding leadership qualities and potential. The Fellows will work during the summer and other school vacation periods. Most of those assigned to ESSA will have strong backgrounds and interests in fields of the physical sciences and engineering.



Junior Fellows (left to right) Paul Horton, Ronald Colbert, Frederick Harris, Marianna Giordana, and George Ellard view the operation of a precision measuring device at C&GS headquarters.

## Boyd Young, EDS Employee, Dies

Boyd Young, employed in the Technical Information Unit of EDS' National Weather Records Center, Asheville, N.C., died Apr. 19.

## Elliott Wins Bronze Medal



J. B. Elliott (center) accepts award from P. H. Moore. Mrs. Elliott is at left.

J. B. Elliott, veteran weatherman at the Weather Bureau's Forecast Office, Birmingham, Ala., received the Department of Commerce Bronze Medal in ceremonies held Apr. 2. Presenting the medal to Mr. Elliott was Paul Moore, chief of Scientific Services for the Southern Region, Fort Worth, Tex. In making the presentation, Mr. Moore cited Mr. Elliott for "his outstanding performance of duties for many years and his contributions in the area of public service." Over the years, Mr. Elliott has compiled a reference of tornadoes, severe thunderstorms, floods, heavy snows, ice storms, and other weather events for the State of Alabama. His calendar date file of these outstanding weather occurrences is used daily on the Alabama ESSA Weather Wire.

## NEIC Issues 1968 Earthquake Report

The National Earthquake Information Center has issued its annual report for 1968 of earthquakes in the United States. The 111-page publication, edited by Jerry Coffman and William K. Cloud, has been issued annually since 1928. It describes briefly earthquakes in the U.S. for the calendar year, plus a list and short description of principal earthquakes of the world. Copies are available from the U.S. Government Printing Office, Washington, D.C., 20402 for \$1.50.

# New Special Salary Schedules Announced

(Authority: FPM Letter 530-130,  
dated April 27, 1970)

EFFECTIVE: December 28, 1969

**NOTE:** The occupations indicated are those used in ESSA and the list does not include all series for which special in-hire rates are approved. Rates and occupational coverage are subject to change from time to time. Modifications are issued through FPM Letters referenced to Chapter 530.

Physical Scientist Rates (World-wide)

1310	Physics	1330	Astronomy and Space
1313	Geophysics	1340	Meteorology
1315	Hydrology	1360	Oceanography
1320	Chemistry	1372	Geodesy

Grade	1	2	3	4	5	6	7	8	9	10
GS-5	\$ 8,292	\$ 8,510	\$ 8,728	\$ 8,946	\$ 9,164	\$ 9,382	\$ 9,600	\$ 9,818	\$10,036	\$10,254
GS-6	9,238	9,481	9,724	9,967	10,210	10,453	10,696	10,939	11,182	11,425
GS-7	10,258	10,528	10,798	11,068	11,338	11,608	11,878	12,148	12,418	12,688
GS-8	10,750	11,049	11,348	11,647	11,946	12,245	12,544	12,843	13,142	13,441
GS-9	11,526	11,855	12,184	12,513	12,842	13,171	13,500	13,829	14,158	14,487
GS-10	12,317	12,679	13,041	13,403	13,765	14,127	14,489	14,851	15,213	15,575
GS-11	13,096	13,493	13,890	14,287	14,684	15,081	15,478	15,875	16,272	16,669

Engineer Rates (World-wide)

801	General	850	Electrical	1301.1	Physical Scientist
803	Safety	855	Electronics		
810	Civil	861	Aerospace		
830	Mechanical	871	Naval Architecture		

Grade	1	2	3	4	5	6	7	8	9	10
GS-5	\$ 8,510	\$ 8,728	\$ 8,946	\$ 9,164	\$ 9,382	\$ 9,600	\$ 9,818	\$10,036	\$10,254	\$10,472
GS-6	9,481	9,724	9,967	10,210	10,453	10,696	10,939	11,182	11,425	11,668
GS-7	10,528	10,798	11,068	11,338	11,608	11,878	12,148	12,418	12,688	12,958
GS-8	11,049	11,348	11,647	11,946	12,245	12,544	12,843	13,142	13,441	13,740
GS-9	11,855	12,184	12,513	12,842	13,171	13,500	13,829	14,158	14,487	14,816
GS-10	12,679	13,041	13,403	13,765	14,127	14,489	14,851	15,213	15,575	15,937
GS-11	13,493	13,890	14,287	14,684	15,081	15,478	15,875	16,272	16,669	17,066
GS-12	14,665	15,138	15,611	16,084	16,557	17,030	17,503	17,976	18,449	18,922

## GS-510 Accounting Series (World-wide)

Grade	1	2	3	4	5	6	7	8	9	10
GS-5	\$ 7,856	\$ 8,074	\$ 8,292	\$ 8,510	\$ 8,728	\$ 8,946	\$ 9,164	\$ 9,382	\$ 9,600	\$ 9,818
GS-7	9,178	9,448	9,718	9,988	10,258	10,528	10,798	11,068	11,338	11,608
GS-9	10,539	10,868	11,197	11,526	11,855	12,184	12,513	12,842	13,171	13,500

## GS-1370 Cartographer Series (Wash., D.C.)

GS-5	\$ 7,638	\$ 7,856	\$ 8,074	\$ 8,292	\$ 8,510	\$ 8,728	\$ 8,946	\$ 9,164	\$ 9,382	\$ 9,600
GS-7	9,448	9,718	9,988	10,258	10,528	10,798	11,068	11,338	11,608	11,878
GS-9	10,539	10,868	11,197	11,526	11,855	12,184	12,513	12,842	13,171	13,500

## GS-1515 Operations Research Series (World-wide)

### GS-1529 Mathematical Statistician ( " )

GS-5	\$ 8,074	\$ 8,292	\$ 8,510	\$ 8,728	\$ 8,946	\$ 9,164	\$ 9,382	\$ 9,600	\$ 9,818	\$10,036
GS-7	9,718	9,988	10,258	10,528	10,798	11,068	11,338	11,608	11,878	12,148
GS-9	11,526	11,855	12,184	12,513	12,842	13,171	13,500	13,829	14,158	14,487
GS-11	13,096	13,493	13,890	14,287	14,684	15,081	15,478	15,875	16,272	16,669

## GS-1520 Mathematician Series (World-wide)

GS-5	\$ 7,856	\$ 8,074	\$ 8,292	\$ 8,510	\$ 8,728	\$ 8,946	\$ 9,164	\$ 9,382	\$ 9,600	\$ 9,818
GS-7	9,718	9,988	10,258	10,528	10,798	11,068	11,338	11,608	11,878	12,148
GS-9	11,526	11,855	12,184	12,513	12,842	13,171	13,500	13,829	14,158	14,487
GS-11	13,096	13,493	13,890	14,287	14,684	15,081	15,478	15,875	16,272	16,669

Items to be considered for ESSA NEWS must be received by Monday for publication the following Friday. Send material to: Office of Public Information, ESSA, Room 804, Bldg. 5, Rockville, Md. 20852. Phone (301) 496-8243.

# **National Oceanic and Atmospheric Administration**

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July 23, 2010