

## ANTHROPOLOGY

# Andean People Studied

➤ AN ISOLATED GROUP of from 1,700 to 1,800 dwarfed people living on a subsistence basis in an "area God forgot" high in the Peruvian Andes has been visited and studied by a party of American and Peruvian scientists.

The Indians, whose language is the ancient Quechua, were found to be loaded with parasites and plagued with nutritional deficiencies. They live mostly on corn and potatoes, and have practically no fats.

The potatoes are stunted, the largest being barely as large as a golf ball. The corn is stunted. And the people are stunted.

The average adult man is less than five feet, one inch in height and he weighs only 114 pounds.

Nevertheless, the people have adapted well to the altitude of 10,000 to 11,000 feet. They have tremendous chests that allow them to take in enough oxygen for the heavy work they do.

They customarily trot along the difficult mountain trails carrying heavy burdens and, occasionally, for sport, stage "potato races" in which the big-chested little fellows run down a trail, each with a 150-pound sack of potatoes on his back, trying to see which man will reach the goal first.

The Indians live on a huge hacienda, or farm, of 36,000 acres belonging to the Peruvian Government, rented by Cornell University for research and technical assistance. Part of the area is above the tree line. The soil is poor and often thin where erosion has washed it away.

The people struggle under a 16th century feudalism originally imposed upon them by the Spanish Conquistadores. The scientists found evidence indicating the people, even in prehistoric times, were living on a subsistence level.

The work of the scientists has been coordinated by Dr. Marshall T. Newman, associate curator of physical anthropology at the Smithsonian Institution.

Accompanying him on the expedition were Dr. Carlos Collazos, head of the department of nutrition of Peru's Ministry of Public Health; Dr. Ramon Vallenaz, sub-director of the Peruvian Department of Industrial Hygiene; Dr. Fred H. Allen Jr., associate director of the Blood Grouping Laboratory, Boston; Srta. Carmen Caceres, a dietician; Dr. William C. Blanchard, field director of the project, and his staff from Cornell University, and Sr. Hector Martinez of the University of San Marcos.

Science News Letter, September 22, 1956

current sunspot cycle, which started a swing toward peak activity three years ago.

Several planets the size of earth could easily be contained within the spot.

National Bureau of Standards experts, who use sunspot activity in making day-by-day predictions of shortwave radio reception, reported the spot was at the sun's center on Sept. 12.

The sun is now heading into a high point in its approximately 11-year cycle of activity. The International Geophysical Year, which starts next July 1, was timed to coincide with this sunspot maximum, if possible.

Science News Letter, September 22, 1956

## SCIENCE NEWS LETTER

VOL. 70 SEPTEMBER 22, 1956 NO. 12

The Weekly Summary of Current Science, published every Saturday by SCIENCE SERVICE, Inc., 1719 N St., N.W., Washington 6, D. C., NORTH 7-2255. Edited by WATSON DAVIS.

Subscription rates: 1 yr., \$5.50; 2 yrs., \$10.00; 3 yrs., \$14.50; single copy, 15 cents, more than six months old, 25 cents. No charge for foreign postage.

Change of address: Three weeks notice is required. When ordering a change please state exactly how magazine is now addressed. Your new address should include postal zone number if you have one.

Copyright © 1956 by Science Service, Inc., Reproduction of any portion of SCIENCE NEWS LETTER is strictly prohibited. Newspapers, magazines and other publications are invited to avail themselves of the numerous syndicated services issued by Science Service. Science Service also publishes CHEMISTRY (monthly) and THINGS of Science (monthly).

Printed in U. S. A. Entered as second class matter at the post office at Washington, D. C., under the act of March 3, 1879. Acceptance for mailing at the special rate of postage provided for by Sec. 34.40, P. L. and R., 1948 Edition, paragraph (d) (act of February 28, 1925; 39 U. S. Code 283) authorized February 28, 1950. Established in mimeographed form March 13, 1922. Title registered as trademark, U. S. and Canadian Patent Offices. Indexed in Reader's Guide to Periodical Literature, Abridged Guide, and the Engineering Index.

Member Audit Bureau of Circulation Advertising Representatives: Howland and Howland, Inc., 1 E. 54th St., New York 22, Eldorado 5-5666, and 435 N. Michigan Ave., Chicago 11, Superior 7-6048.

### SCIENCE SERVICE

The Institution for the Popularization of Science organized 1921 as a non-profit corporation.

Board of Trustees—Nominated by the American Association for the Advancement of Science: Paul B. Sears, Yale University; Karl Lark-Horowitz, Purdue University; William W. Rubey, U. S. Geological Survey. Nominated by the National Academy of Sciences: Harlow Shapley, Harvard College Observatory; George W. Corner, Rockefeller Institute for Medical Research; Edward U. Condon, Washington University. Nominated by the National Research Council: Leonard Carmichael, Smithsonian Institution; Jerome Hunsaker, Massachusetts Institute of Technology; I. I. Rabi, Columbia University. Nominated by the Journalistic Profession: Michael A. Gorman, Flint Journal; Neil H. Swanson, Garrison, Md.; O. W. Riegel, Washington and Lee University. Nominated by the Scripps Estate: John T. O'Rourke, Washington Daily News; Charles E. Scripps, Cincinnati, Ohio; Edward J. Meeman, Memphis Press-Scimitar.

Officers—President: Leonard Carmichael; Vice President and Chairman of Executive Committee: Charles E. Scripps; Treasurer: O. W. Riegel; Secretary: Watson Davis.

Staff—Director: Watson Davis. Writers: Jane Stafford, Marjorie Van de Water, Ann Ewing, Howard Simons, Dorothy Schriver, Helen M. Davis. Science Clubs of America: Joseph H. Kraus, Margaret E. Patterson. Photography: Fremont Davis. Production: Priscilla Howe, Marcia Nelson. Interlingua Division in New York: Alexander Gode, 80 E. 11th St., GRamercy 3-5410.

## ASTRONOMY

# Plan Observing Satellite

➤ A DRESS REHEARSAL for amateur astronomers observing the earth-circling satellites during the International Geophysical Year will be held in the United States within the next three months.

Plans for the dry-run practice tracking of moonlets sometime in the very near future were announced in Barcelona, Spain, by Dr. Fred L. Whipple, Harvard University astronomer and director of Smithsonian Astrophysical Observatory, which is in charge of visual observations of the satellites. This program is called Moonwatch.

The "invaluable" practice Moonwatch will also provide the "first, large-scale" search for any possible undiscovered natural earth satellites, Dr. Whipple told the international meeting of about 300 scientists, gathered in Barcelona to make final plans for the International Geophysical Year.

IGY, in which about 50 nations will participate, is a world-wide study of the earth, its seas and its atmosphere.

Dr. Whipple also issued an invitation to astronomers of all countries, including Russia, to cooperate in the optical tracking program.

This, he said, was divided into three phases:

1. A photographic program involving the use of especially designed, wide-eyed Schmidt cameras placed at 12 or more stations around the world.

2. A visual observation program, involving volunteer groups of observers over the world, using simple optical aids to locate each satellite launched, of particular value in the beginning and final stages of any satellite's life.

3. A professional astronomers' program, using special equipment in observatories.

A central computing bureau is being set up in Cambridge, Mass., Dr. Whipple said, to provide immediate analysis of both precision photographic and approximate visual observations from which will be made predictions of the paths to be taken by the satellites. The high-speed electronic computer will also be used to analyze the combined observations for geophysical and astronomical results.

Science News Letter, September 22, 1956

## GEOPHYSICS

## Very Large Sunspot Bursts Forth on Sun

➤ THE BIGGEST SUNSPOT to burst forth on the solar surface in several years was recently followed with interest by scientists around the world.

The gigantic whirlpool of extremely hot gases appeared black only by contrast with its fiery surroundings. The sunspot was "by far" the largest to appear during the