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## Books of the Week

For the editorial information of our readers, books received for review since last week's issue are listed. For convenient purchase of any U. S. book in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N.W., Washington 6, D. C. Request free publications direct from publisher, not from Science Service.

**BIBLIOGRAPHY OF MATERIAL ON ANIMAL EXPERIMENTATION**—*Illinois Society for Medical Research* and the *National Society for Medical Research*, ISMR Bulletin No. 6, 8 p., paper, free upon request to publisher, 951 E. 58th St., Chicago 37, Ill. A selective bibliography including material from 1914 to August 15, 1954.

**THE HEALTH OF REGIONVILLE: What the People Thought and Did About It**—Earl Lomon Koo—*Columbia University Press*, 177 p., illus., \$3.25. This book is a study of popular attitudes toward sickness based on a survey made in a rural community of New York State.

**JIVARO: Among the Headshrinkers of the Amazon**—Bertrand Flornoy, with foreword by Brian Fawcett—*Library Publishers*, 224 p., illus., \$3.95. Telling of an expedition into the jungles of the Amazon to the Jivaro tribe and describing their techniques of human head-shrinking, a process heretofore unexplained.

**MODERN CHEMICAL DISCOVERIES**—Richard Clements—*Dutton*, 290 p., illus., \$5.00. The author, a British science writer, has endeavored to bring together in one volume all the most important chemical discoveries of the past 50 years.

**RIGS AND RIGGING OF YACHTS**—D. Phillips-Birt—*Adlard Coles (John de Graff)*, 207 p., illus., \$8.00. For yachtsmen, especially those planning a new rig.

**SAILING AERODYNAMICS**—John Morwood—*Philosophical Library*, 124 p., illus., \$7.50. Presenting the theory of sailing for the yachtsman.

**SOIL**—G. V. Jacks—*Philosophical Library*, 221 p., illus., \$5.00. To give farmers and students of agriculture an understanding of soil management.

**TABLES OF INTEGRAL TRANSFORMS: Vol. II**—Based, in part, on notes left by Harry Bateman and compiled by the Staff of the Bateman Manuscript Project—*McGraw-Hill*, 451 p., \$8.00. Containing tables of further integral transforms and integrals of higher transcendental functions.

**THE VITAMINS: Chemistry, Physiology, Pathology, Vol. III**—W. H. Sebrell Jr. and Robert

S. Harris, Eds.—*Academic*, 665 p., illus., \$15.00. The last book in a three volume reference work, containing the vitamins from p-aminobenzoic acid to the tocopherols, as well as new and unidentified growth factors.

Science News Letter, December 4, 1954

### Jet Stream

*Continued from p. 363*

Measurements must come from all parts of the world. At present, they are made extensively only over certain portions of the Northern Hemisphere.

During the International Geophysical Year, scheduled for 1957-1958, scientists around the world will coordinate their efforts to measure such things as daily changes in the earth's magnetic field, formation of "northern lights," and variations in shortwave radio propagation conditions.

For weathermen, among the most fascinating data to be taken will be the upper air measurements.

The first suggestion of the existence of a narrow, high-velocity region in the upper atmosphere was made in 1933 by the late Prof. V. Bjerknes and his associates.

Their suggestion went unnoticed until 1944, when Dr. H. C. Willett of Massachusetts Institute of Technology published diagrams suggesting a "localized high velocity stream in the upper westerlies."

In 1946, three University of Chicago meteorologists, Dr. Carl-Gustaf Rossby, a Swedish-American meteorologist, Dr. Eric Palmén and Dr. Riehl, made a full-scale theoretical attack on the problem.

At that time, Dr. Rossby suggested that the pattern of flow high above the middle latitudes suggests the presence of "a broad stream meandering eastward around the hemisphere in wavelike patterns. The kinetic energy of this stream is concentrated in a narrow band of high wind speed embedded in a relatively quiescent surrounding atmosphere."

Science News Letter, December 4, 1954

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