Editorial
Use of the Ocean

Articles
Magnetic Storms: E. H. Vestine
From satellite data should come new understanding of magnetic storms, auroras, and the ionosphere.

Sterile-Male Method of Population Control: E. F. Knipling
Successful with some insects, the method may also be effective when applied to other noxious animals.

Science in the News
Transfer of Projects Gives Air Force Major Role in Military Space Activities; U.S. Specialists Describe Soviet Commitments to Education

Book Reviews
M. Polanyi's The Study of Man, reviewed by W. Earle; other reviews

Reports
Electrical System for Home Conversion and Storage of Solar Energy: L. J. Giacoletto

Pavlov the Empiricist: G. Razran

Effect of Dietary Facts on Fatty Acid Composition of Human Erythrocytes and Chick Cerebella: M. K. Horwitt, C. C. Harvey, B. Century

Experimental Evidence in Support of the Dormant Tumor Cell:
B. Fisher and E. R. Fisher

Fusion of Complex Flicker: J. Levinson

Competitive Antagonism between Kinetin and 8-Azaguanine in Polytoma uvella: F. Moewus

Generator Potential of Insect Chemoreceptor: H. Morita and S. Yamashita

Association Affairs
AAAS Chicago Meetings, 1868-1959

Departments
Letters
Forthcoming Events; New Products

Cover
Sunspot, taken from a balloon at an altitude of 80,000 feet at 11:13 A.M. C.D.T. during the Stratoscope flight of 17 August. Project Stratoscope is an undertaking in high-altitude astronomy headed by Martin Schwarzschild, professor of astronomy at Princeton University, and supported by the National Science Foundation and the Office of Naval Research. The telescope carried by the balloon was designed and built by Perkin-Elmer Corporation, and the television equipment used for controlling the telescope from the ground and for transmitting the images was designed and built by the Princeton Laboratories of the Radio Corporation of America.