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## Sofia: Science Vision and Current Status

By Scott D. Horner

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 32 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. This slide presentation details the science and status of the Stratospheric Observatory for Infrared Astronomy (SOFIA). SOFIA is a 2.5 m Telescope designed to fit into a modified Boeing 747SP aircraft. It will have imaging and spectroscopy from .03 micron to 1.6 mm, emphasizing the obscured infrared spectrum (i. e., 30-300 micron). It will fly between 39,000 to 45,000 feet, above over 99.8% of the water vapor which obscures the infrared from other ground based telescopes. Since it is on a ground based airplane, the instrumentation can be interchangeable between flights, it can fly anywhere and anytime. Diagrams show an overview of the observatory, the optical layout, and a comparison of SOFIA with the other major IR Imaging spectroscopic Space Observatories. Pictures include a shot of the installation of the primary mirror, and the Telescope instrument interface. Charts show the first generation instruments, and their ranges of spectral observation. Also the presentation reviews the science questions that SOFIAs instruments will assist in reviewing. This item ships from La Vergne, TN. Paperback.



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