

MONTHLY REPORT

SEPTEMBER 1974

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QUANTITATIVE DETERMINATION OF STRATOSPHERIC AEROSOL CHARACTERISTICS

In September, 1974 we requested and received clarification from Harold Lockwood of Technicolor, Inc., subcontractor to the NASA Photo Technology Lab on how to calibrate the S190 film. With his clarifications on definitions and procedures and with the additional materials he provided us we were able to convert the film densities to radiometric units.

Magnetic tapes for S191 data pass 65 arrived this month. Two tapes of pass 61 also arrived. Pass 18 data arrived in July, 1974. We also received Skylab III and IV/EREP Data Books and the Responsivity Report for passes 18, 47, and 47-EL-2.

Further development and testing was performed on the algorithms to invert the brightness signature of the limb to a vertical profile of attenuation coefficients. To date, all test results using simulated data are positive.

We are concerned about the progress at NASA JSC on the development of the algorithm to calibrate the S191 data. The algorithm was not received this month as expected and we understand that the responsible programmer has been reassigned. The necessity to transfer the work to a new programmer will undoubtedly further delay completion of the software and documentation.

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