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Authors: [S. M. Ayer](#); [C. A. Hein](#); [G. P. Seeley](#); [J. N. Bass](#); [M. J. Kendra](#); [RADEX INC BEDFORD MA](#)

**Abstract:** This contract supported investigations of integrated applications of physics, ephemerides, and mathematics of the atmosphere and near space. Projects undertaken and reported include spacecraft, ionospheric, atmospheric, and astronomical circumstances; data based studies of air combat targeting; meteorology including cloud scene simulation and ITASCA expert system; ionospheric scintillations; atmospheric metal deposition; auroral particle and electric field modeling, magnetic field studies for **CRRES**; atmospheric density models, databases and drag; PL-GEOSpace code for 3D visualization studies; DMSP magnetic field studies: (1) ephemerides; (2) comparison of LOKANGL and SPACETRACK codes for orbital prediction, and (3) software development for most of these fields of study.

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