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Title : A History of the Space Radiation Effects (SPACERAD) Program for the Joint USAF/NASA CRRES Mission. Part 1. From the Origins through the Launch, 1981-1990



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Abstract : The history narrates the Space Radiation Effects (SPACERAD) Program from its origins in 1981 through the launch of the SPACERAD experiments on the USAF/NASA Combined Release/Radiation Effects Satellite (CRRES) on July 25, 1990 and the initial data results in October 1990. The SPACERAD Program comprised a coordinated schedule of space-and-ground testing of state-of-the-art microelectronics, together with new satellite measurements of the Earth's radiation belts. The goals for the program were to produce improved standards and procedures for ground-testing future space microelectronics and new dynamic models of the radiation belts. The history discusses programmatic, management and funding issues that arose in the course of its realization.

Descriptors : *SOLAR RADIATION, *RADIATION HARDENING, MICROELECTRONICS, MAGNETOSPHERE, RADIATION BELTS, SCIENTIFIC SATELLITES

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