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Title:

DESIGN, DEVELOPMENT AND FLIGHT TESTS OF CHEMICAL RELEASE PAYLOADS FOR UPPER ATMOSPHERE RESEARCH.

Fields and Groups :

040100 - Atmospheric Physics

Corporate Author:

SPACE DATA CORP PHOENIX ARIZ

Personal Author(s):Allen, Edward
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Beaudoin, Philip E**Report Date:**

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Abstract:

The rocket borne chemical payload systems were designed, developed and flight tested to give controlled releases of gases, vaporized liquids, and solids. Payloads consisted of chemical tanks, chemicals, fluid controls with associated plumbing, event programmer and aerodynamic envelope. Barium/Copper Oxide, Diborane, Tri-methylaluminum, Tri-ethylaluminum, Water/40 Volume % Methanol, Propane and Oxygen were provided. Chemical handling techniques were developed and engineering field services were provided to assist with payload launches. (Author)

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