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Title:

DATA REDUCTION OF CHEMICAL RELEASES IN THE UPPER ATMOSPHERE OF LOW-INTENSITY OPTICAL EMISSIONS CAUSED BY THE RELEASES AND DESIGN AND DEVELOPMENT OF PAYLOADS TO PRODUCE LUMINARY TRAIL AND POINT RELEASES AT ALTITUDES ABOVE 80 KM.

Corporate Author:

DEVICE DEVELOPMENT CORP WALTHAM MASS

Personal Author(s):

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Holt, Roland B

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Abstract:

Two areas of effort are contained in this report. The first covers data acquisition and reduction. The second covers payload design and development. A description of data acquisition instrumentation for Firefly III is set forth. This equipment included various types of camera and photomultiplier arrays. The data processing programs and their operation are described in detail. Studies of wind phenomena between 80 and 130 kilometers was permitted by Firefly III data. A Discussion of the conclusions is included. The payload section of the report describes the several models of payloads which have been developed and flown. The special characteristics to provide specific releases are outlined as well as the chemical compositions used. (Author)

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Annotation:

Data reduction of chemical releases in the upper atmosphere of low-intensity optical emissions caused by the releases.

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