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Title:

Upper Atmosphere Chemical Release and Smoke Trail Triangulation 1978 - 1981

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140400 - Photography

Corporate Author:

GEORGIA INST OF TECH ATLANTA SCHOOL OF AEROSPACE ENGINEERING

Personal Author(s):

Edwards, Howard D

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Abstract:

The objective of the first three field trips was to determine experimentally the magnitude and direction of stratospheric winds and shears, and to mark persistent layers of turbulence as a function of geographic latitude. The experiment conducted at Wallops Island, Virginia provided data corresponding to mid-latitudes. The trips to Ft. Churchill, Canada and Lima, Peru provided similar data corresponding to Arctic and Tropical Latitudes respectively. The objective of the trip to Fairbanks, Alaska in February, 1981 was to launch a cooperative AFGL Space Physics and Aeronomy division rocket, satellite, aircraft and ground-based experiment which would gather the data necessary to test the concepts of making quantitative electron density assessments from optical measurements.

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