UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH

BOULDER, COLORADO

Quarterly Status Report #12
for the Period 1 March 1966 to 31 May 1966
NASA Contract Number NASr-185
UCAR Project Number 9702

Flight Support:

Five balloon flights were made for NASA grantees during this period and are reported in the attached flight summary.

The NASA Program Manager has agreed to our verbal request to increase the level of balloon flight support provided to NASA grantees by diverting $50,000 of the funds originally requested for R & D tasks to balloon flight support. This transfer of funds was made on 16 May 1966.

An estimate of the balance of funds remaining in this contract is:

Total Contract Funds	$633,000
Expenditures through 31 May 1966	536,233
Balance of Funds Available	$ 96,767

is:

1. To continue to provide balloon flight support to NASA approved programs.

2. To continue R & D effort toward achieving:

   a) To develop scale model techniques for experimental study of balloon structural phenomena.

   b) Extension of balloon capabilities to higher altitudes.

   c) Extension of ability to carry heavy payloads on low cost films.

   d) Extension of ability to launch heavy payloads.

Alvin L. Morris

Alvin L. Morris, Manager
Scientific Balloon Facility

Attachment

N66 84705 (ACCESSION NUMBER)
(THRU)
2 (PAGES)
None (CODE)
CR 75736 (NASA CR OR TMX OR AD NUMBER)
(CATEGORY)
FACILITY FORM 602

NCAR - NASA FLIGHT SUMMARY FOR THE PERIOD 1 MARCH 1966 TO 31 MAY 1966.

Scientific Investigator	Experimenter	Flight Date	Balloon Specification	Float Altitude	Payload Weight	Balloon Performance Notes
E.L.Chupp U/N.H.	Data handling system for measurement of solar gamma rays	6 Apr.'66	1.6 million cu.ft. 0.5 mil Poly	124,000 ft.	190.5 lbs	Successful flight
F. Bartman U/Mich.	Telemetry check	27 Apr.'66	250,000 cu.ft. 0.75 mil Poly	101,400 ft.	185 lbs	Successful from a ballooning standpoint. Antenna for scientific load came off immediately after launch so only partial scientific data was obtained.
F. Bartman U/Mich.	Temperature sounding by measuring ground radiation	8 May'66	2.94 million cu.ft. 1.0 mil Poly	108,000 ft	918 lbs	Successful flight
F. Bartman U/Mich.	Temperature sounding by measuring ground radiation	26 May'66	3.2 million cu.ft. GT-11 Mylar scrim gauge 35	none	1230 lbs	Flight failure. Release line squibs failed to fire preventing launch of package
G. Fazio Smithsonian A.O.	Measure high energy gamma rays	28 May'66	5 million cu.ft. 0.75 mil Poly	125,000 ft.	713 lbs	Successful flight.