

T H E U N I V E R S I T Y O F M I C H I G A N
COLLEGE OF ENGINEERING
Department of Electrical Engineering
Space Physics Research Laboratory

Quarterly Status Report No. KQ-20
for the period
December 1, 1964 to March 31, 1965

MEASUREMENT OF THE MOON'S ATMOSPHERIC PRESSURE

Prepared by:

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Under contract with:

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
CONTRACT NO. NASw-133
GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND

Administered through:

OFFICE OF RESEARCH ADMINISTRATION ANN ARBOR

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INTRODUCTION

This is the 20th status report describing the research effort under contract NASw-133 and it covers the period December 1, 1964 to March 31, 1965. This contract calls for the continued theoretical study of the lunar atmosphere and an investigation of the state-of-the-art composition measuring devices for the eventual use in the measurement of the composition of the moon's atmosphere.

RESEARCH EFFORT DURING THE PERIOD

The work on the anisotropy of the lunar atmosphere is essentially complete. A paper on the subject was read at the AGU meeting of December, 1964 in Seattle, Washington and is now being readied for publication.

A proposal was submitted for the support of the construction of a prototype pressure gauge with a directed orifice. The use of such a gauge on the moon would enable us to obtain a mass-analysis of the lunar atmosphere due to the anisotropy or the dependence of the molecular fluxes on location (see proposal ORA-65-807-PB1).

FUTURE WORK

This depends on the acceptance of the above mentioned proposal.

FUNDS REMAINING

As of 31 March, 1965, \$0 remains of the currently allotted funds.

MONTHLY COST BREAKDOWN

Month	Wages		Overhead	Expendable Materials	Equip- ment	Travel
	Student	Nonstudent				
December	\$ 421	\$ 1,739	\$ 800	\$ 21	0	\$347
January	81	977	655	588	0	-6
February		1,091	502	5	0	0
March	<u> </u>	<u>17</u>	<u>8</u>	<u>64</u>	<u>0</u>	<u>241</u>
TOTALS	\$ 502	\$ 3,824	\$1,965	\$678	0	\$582

GRAND TOTAL \$7,551

