

ATMOSPHERIC STUDIES

BY

OPTICAL SCATTERING

Presented by

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PREFACE

Studies in atmospheric ozone have been going on in India for a number of years now and various aspects of the subjects and of allied problems in the physics of the atmosphere have been engaging the attention of workers in the Physical Research Laboratory, Ahmedabad under the guidance of Professor K.R.Ramanathan. The author has been associated with this work since 1956 and the results reported in this thesis form part of this work.

Section I of the thesis gives an account of the author's work on atmospheric ozone. It includes a summary of the observations made computations and a discussion of the results, in relation to our present knowledge of the subject. In particular, the data of the IGY-IOC period are reviewed.

Section II of the thesis gives an account of author's studies on the scattering of light by aerosols in the atmosphere by measurements of the light scattered by the sky during twilight.

G.M.Shah

Certified that the thesis submitted by Mr.G.M.Shah is an account of the research work carried out by him at the Physical Research Laboratory, Ahmedabad.

K.R.Ramanathan

Dated : 23rd March 1962.

(K.R.Ramanathan)

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SECTION I

STUDIES ON ATMOSPHERIC OZONE

CHAPTER I

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REFERENCES.