

F18/38 Atmospheric Spectroscopy

Carsten Lüth Michael Dorkenwald

December 5, 2018

1 Abstract

In this experiment the trace gases Nitrogen-dioxid (NO_2) and Ozone (O_3) are examined with the DOAS method. These gases play an important role for life on earth and are therefore important to have a method to determine the respective concentration in the air. First, a Nitrogendioxid gas-cell is explored Second,

2 Introduction

explain how they effect our live on earth

3 Background

3.1 Ozone and Nitrogendioxid

3.2 The DOAS Measurement System

- 4 Active Measurement of a Nitrogendioxid gas-cell**
- 5 Sunlight Measurement of a recorded daycycle**
- 6 Sunlight Measurement different evaluations angles**