

Name-Surname	Anargyros Neofytos
Thesis Title	<i>Reevaluation of total ozone over Greece using ground-based measurements</i>
Supervisor	Chris Tzanis, Lecturer
Summary	In this study, the stray light interference is investigated during measurements of total ozone content carried out using the Dobson spectrophotometer No. 118. A series of total ozone content measurements were carried out for airmass values extending up to 5. The monochromatic-heterochromatic stray light derived by Basher model was used in order to evaluate the model's parameter and determine if the specific spectrophotometer suffers from this problem. The results obtained indicate that the Dobson spectrophotometer underestimates the total ozone content by 3.5 DU in average for airmass values up to 2.5 (1% of mean total ozone content). Using the aforementioned results, it can be stressed out that the measurements of total ozone content using the Dobson spectrophotometer, may continue to be representative to the variability of the mean total ozone over the whole mid-latitude zone of the Northern Hemisphere.
Key words	Stray light, Basher model
Evaluation committee	C. Tzanis, Lecturer C. Varotsos, Professor D. Deligiorgi, Associate Professor