

Preface

G. Kaiser

Objectives of the Field Measurement Campaign

N. Moussiopoulos

SECTION 1: THE CAMPAIGN

Thessaloniki '91 Field Measurement Campaign -3

An Executive Summary

N. Moussiopoulos, H. Güsten, D.N. Asimakopoulos, T. Cvitas

The Wind Field and the Atmospheric Boundary Layer Structure I1

over the Greater Thessaloniki Area: I. The Wind Field

M. Tombrou, C.G. Helmis, M. Petrakis, D.N. Asimakopoulos

The Wind Field and the Atmospheric Boundary Layer Structure 25

over the Greater Thessaloniki Area: II. The Atmospheric Boundary Layer Structure

C.G. Helmis, D.N. Asimakopoulos, M. Tombrou, A. Soilemes

Photo-Oxidant Measurements in Greater Thessaloniki 43

H. Güsten, G. Heinrich, E. Mönnich, J. Weppner

Statistical Ozone Data Analysis for the Thessaloniki 1991 107

Campaign

T. Cvitas, L. Klasinc, D. Tiljak

On the Vertical Ozone Structure over Thessaloniki Area 135

during Sea Breeze Days

C. Varotsos, C.G. Helmis, M. Petrakis, M. Tombrou, D.N. Asimakopoulos

Measurements of the Permanent Monitoring Network 149

during the Field Measurement Campaign

N. Moussiopoulos, A.G. Proyou

SECTION 2: RELATED TOPICS

Application of the EURAD Zooming Mode1 for the Greater 189

Thessaloniki Area

N. Moussiopoulos, P. Sahm

Actual Traffic Emissions in Thessaloniki on One Hour and 205

One Year Basis

N.A. Kyriakis

Prediction of Air Pollution Reduction from the Construction 217

of Six Multi-Level Intersections in Thessaloniki

S. Vougiaris, Mohammad A.S. Mustafa

Atmospheric Deposition onto the Ground of Cosmogenic ^7Be 227

and ^{137}Cs from Fallout of the Chernobyl Accident

C. Papastefanou