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which successfully passed the QA-process
(i.e., met the Data Quality Objectives) were
included into the TFS-central data bank. The
following summary of major results obtained
in TFS would not have been possible without
the contribution of many experimentalists and
modellers participating in this project. I
would like to thank these colleagues for
their support. All participants are grateful
for the financial support by the BMBF and for

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the assistance by the Projekttragerschaft (UKF-GSF-Miinchen). Garmisch-Partenkirchen, WOLFGANG SEILER February 2002 DEVELOPMENT AND APPLICATION OF A MESOSCALE MODEL HIERARCHY FOR THE DIAGNOSIS AND FORECAST OF THE DISTRIBUTION OF POLLUTANTS OVER GERMANY AND EUROPE Journal of Atmospheric Chemistry 42: 5-22, 2002. 5 (c) 2002 Kluwer Academic Publishers. An Empirical, Receptor-Based Procedure for Assessing the Effect of Different Ozone Mitigation Strategies WOLFGANG FRICKE, WINFRIED VANDERSEE and STEFAN GILGE Deutscher Wetterdienst, Meteorologisches Observatorium, Albin-

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Schwaiger-Weg 10, D-82383 Hohenpeissenberg,
Germany, e-mail: wolfgang.fricke@dwd.de
(Received: 6 November 2000; in final form: 29
May 2001) Abstract. The paper presents a new
receptor-based approach for investigating the
effect of different mitigation strategies
on surface ozone concentrations. The
empirical approach relates measured ozone
concentrations to 3-D back trajectories and
European precursor emission data (NO_x, VOC,
isoprene). These are the only parameters used
as input. Following a description of the
method, results for two German stations, an
urban and a rural mountain site, are

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described, and discussed in detail.

Our world is changing at an accelerating rate. The global human population has grown from 6.1 billion to 7.1 billion in the last 15 years and is projected to reach 11.2 billion by the end of the century. The distribution of humans across the globe has also shifted, with more than 50 percent of the global population now living in urban areas, compared to 29 percent in 1950. Along with these trends, increasing energy demands, expanding industrial activities, and intensification of agricultural activities

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worldwide have in turn led to changes in emissions that have altered the composition of the atmosphere. These changes have led to major challenges for society, including deleterious impacts on climate, human and ecosystem health. Climate change is one of the greatest environmental challenges facing society today. Air pollution is a major threat to human health, as one out of eight deaths globally is caused by air pollution. And, future food production and global food security are vulnerable to both global change and air pollution. Atmospheric chemistry research is a key part of understanding and

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responding to these challenges. The Future of Atmospheric Chemistry Research: Remembering Yesterday, Understanding Today, Anticipating Tomorrow summarizes the rationale and need for supporting a comprehensive U.S. research program in atmospheric chemistry; comments on the broad trends in laboratory, field, satellite, and modeling studies of atmospheric chemistry; determines the priority areas of research for advancing the basic science of atmospheric chemistry; and identifies the highest priority needs for improvements in the research infrastructure to address those priority research topics.

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This report describes the scientific advances over the past decade in six core areas of atmospheric chemistry: emissions, chemical transformation, oxidants, atmospheric dynamics and circulation, aerosol particles and clouds, and biogeochemical cycles and deposition. This material was developed for the NSF's Atmospheric Chemistry Program; however, the findings will be of interest to other agencies and programs that support atmospheric chemistry research.

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