
Table of Contents

Editorial	1
Introduction	
<i>Marco Arpagaus</i>	1
1 Working Group on Data Assimilation	2
Developments at DWD: Integrated water vapour (IWV) from ground-based GPS	
<i>C. Schraff, M. Tomassini, K. Stephan</i>	2
Improvements of the operational latent heat nudging scheme used in COSMO-DE at DWD	
<i>K. Stephan, C. Schraff</i>	7
Screen-level data assimilation in COSMO-I2	
<i>M. Milelli, E. Oberto, M. Turco</i>	12
2 Working Group on Numerical Aspects	19
A linear solution for flow over mountains and its comparison with the COSMO model	
<i>M. Baldauf</i>	19
Evaluation of Precipitation Forecast for the COSMO Model in Reference to Z vs. Terrain Following Coordinates Version	
<i>E. Avgoustoglou, I. Papageorgiou</i>	25
3 Working Group on Physical Aspects	29
Introducing sub-grid scale orographic effects in the COSMO model	
<i>J.-P. Schulz</i>	29
Component testing of the COSMO model's turbulent diffusion scheme	
<i>B. Szintai, O. Fuhrer</i>	37
4 Working Group on Interpretation and Applications	42
Main results of the SREPS Priority Project	
<i>C. Marsigli, A. Montani, T. Paccagnella</i>	42
Performance of COSMO-LEPS system during the D-PHASE Operations Period	
<i>A. Montani, C. Marsigli, T. Paccagnella</i>	50
5 Working Group on Verification and Case Studies	54
Association of surface stations to NWP model grid points	
<i>P. Kaufmann</i>	54
Towards Operational Probabilistic Precipitation Forecast	
<i>M. Turco, M. Milelli</i>	56
QPF verification for 2007: COSMO-I7, COSMO-7, COSMO-EU, COSMO-ME, COSMO-I2, COSMO-IT	
<i>E. Oberto, M. Milelli</i>	63
Comparison of COSMO models and Multimodel SuperEnsemble outputs in Piemonte	
<i>D. Cane, M. Milelli</i>	69

Seasonal verification over Poland	
<i>K. Starosta and J. Linkowska</i>	73
20 th of July 2007 - Explosive Convection over Europe - The COSMO Perspective	
<i>J. Parfiniewicz</i>	79
Appendix: List of COSMO Newsletters and Technical Reports	86