List of COSMO Newsletters and Technical Reports

(available for download from the COSMO Website: `www.cosmo-model.org`)

COSMO Newsletters

No. 1: February 2001.

No. 2: February 2002.

No. 3: February 2003.

No. 4: February 2004.

No. 5: April 2005.

No. 6: July 2006; Proceedings from the COSMO General Meeting 2005.

No. 7: May 2008; Proceedings from the COSMO General Meeting 2006.

No. 8: August 2008; Proceedings from the COSMO General Meeting 2007.

No. 9: December 2008; Proceedings from the COSMO General Meeting 2008.

No.10: January 2010; Proceedings from the COSMO General Meeting 2009.

No.11: February 2011; Proceedings from the COSMO General Meeting 2010.

No.12: March 2012; Proceedings from the COSMO General Meeting 2011.

No.13: April 2013; Proceedings from the COSMO General Meeting 2012.

No.14: April 2014; Proceedings from the COSMO General Meeting 2013.

No.15: July 2015; Proceedings from the COSMO General Meeting 2014.

No.16: June 2016; Proceedings from the COSMO General Meeting 2015.

No.17: July 2017; Proceedings from the COSMO General Meeting 2016.

No.18: November 2018; Proceedings from the COSMO General Meeting 2017.

No.19: October 2019; Proceedings from the COSMO General Meeting 2018.

No.20: December 2020; Proceedings from the COSMO General Meeting 2019.

COSMO Technical Reports

No. 1: Dmitrii Mironov and Matthias Raschendorfer (2001):
Evaluation of Empirical Parameters of the New LM Surface-Layer Parameterization Scheme. Results from Numerical Experiments Including the Soil Moisture Analysis.

No. 2: Reinhold Schrodin and Erdmann Heise (2001):
The Multi-Layer Version of the DWD Soil Model TERRA_LM.

No. 3: Günther Doms (2001):
A Scheme for Monotonic Numerical Diffusion in the LM.

No. 4: Hans-Joachim Herzog, Ursula Schubert, Gerd Vogel, Adelheid Fiedler and Roswitha Kirchner (2002):
LLM — the High-Resolving Nonhydrostatic Simulation Model in the DWD-Project LITFASS.
Part I: Modelling Technique and Simulation Method.

No. 5: Jean-Marie Bettems (2002):
EUCOS Impact Study Using the Limited-Area Non-Hydrostatic NWP Model in Operational Use at MeteoSwiss.

No. 6: Heinz-Werner Bitzer and Jürgen Steppeler (2004):
Description of the Z-Coordinate Dynamical Core of LM.

No. 7: Hans-Joachim Herzog, Almut Gassmann (2005):
Lorenz- and Charney-Phillips vertical grid experimentation using a compressible nonhydrostatic toy-model relevant to the fast-mode part of the 'Lokal-Modell'

No. 8: Chiara Marsigli, Andrea Montani, Tiziana Paccagnella, Davide Sacchetti, André Walser, Marco Arpagaus, Thomas Schumann (2005):
Evaluation of the Performance of the COSMO-LEPS System

No. 9: Erdmann Heise, Bodo Ritter, Reinhold Schrodin (2006):
Operational Implementation of the Multilayer Soil Model

No. 10: M.D. Tsyrulnikov (2007):
Is the particle filtering approach appropriate for meso-scale data assimilation?

No. 11: Dmitrii V. Mironov (2008):
Parameterization of Lakes in Numerical Weather Prediction. Description of a Lake Model.

No. 12: Adriano Raspanti (2009):
Final report on priority project VERSUS (VERification System Unified Survey).

No. 13: Chiara Mirsigli (2009):
Final report on priority project SREPS (Short Range Ensemble Prediction System).

No. 14: Michael Baldauf (2009):
COSMO Priority Project "Further Developments of the Runge-Kutta Time Integration Scheme" (RK); Final Report.

No. 15: Silke Dierer (2009):
COSMO Priority Project "Further Developments of the Runge-Kutta Time Integration Scheme" (RK); Final Report.

No. 16: Pierre Eckert (2009):
COSMO Priority Project "INTERP"; Final Report.

No. 17: D. Leuenberger, M. Stoll, A. Roches (2010):
Description of some convective indices, implemented in the COSMO model.

No. 18: Daniel Leuenberger (2010):
Statistical Analysis of high-resolution COSMO Ensemble forecasts, in view of Data Assimilation.

No. 19: A. Montani, D. Cesari, C. Marsigli, T. Paccagnella (2010):
Seven years of activity in the field of mesoscale ensemble forecasting by the COSMO-LEPS system: main achievements and open challenges.

No. 20: A. Roches, O. Fuhrer (2012):
Tracer module in the COSMO model.

No. 21: M. Baldauf (2013):
A new fast-waves solver for the Runge-Kutta dynamical core.

No. 22: C. Marsigli, T. Diomede, A. Montani, T. Paccagnella, P. Louka, F. Gofa, A. Corigliano (2013):
The CONSENS Priority Project.

No. 23: M. Baldauf, O. Fuhrer, M. J. Kurowski, G. de Morsier, M. Muellner, Z. P. Piotrowski, B. Rosa, P. L. Vitagliano, D. Wojcik, M. Ziemianski (2013):
The COSMO Priority Project 'Conservative Dynamical Core' Final Report.

No. 24: A. K. Miltenberger, A. Roches, S. Pfahl, H. Wernli (2014):
Online Trajectory Module in COSMO: A short user guide.

No. 25: P. Khain, I. Carmona, A. Voudouri, E. Avgoustoglou, J.-M. Bettems, F. Grazzini (2015):
The Proof of the Parameters Calibration Method: CALMO Progress Report.

No. 26: D. Mironov, E. Machulskaya, B. Szintai, M. Raschendorfer, V. Perov, M. Chumakov, E. Avgoustoglou (2015):
The COSMO Priority Project 'UTCS' Final Report.

No. 27: Jean-Marie Bettems (2015):
         The COSMO Priority Project 'COLOBOC' Final Report.

No. 28: Ulrich Blahak (2016):
         RADAR_MIE_LM and RADAR_MIELIB - Calculation of Radar Reflectivity from Model Output.

No. 29: M. Tsyrulnikov, D. Gayfulin (2016):
         A Stochastic Pattern Generator for ensemble applications.

No. 30: Dmitrii Mironov, Ekaterina Machulskaya (2017):
         A Turbulence Kinetic Energy - Scalar Variance Turbulence Parameterization Scheme.

No. 31: P. Khain, I. Carmona, A. Voudouri, E. Avgoustoglou, J.-M. Bettems, F. Grazzini, P. Kaufmann (2017):
         CALMO - Progress Report.

No. 32: A. Voudouri, P. Khain, I. Carmona, E. Avgoustoglou, J.M. Bettems, F. Grazzini, O. Bellprat, P. Kaufmann and E. Bucchignani (2017):
         Calibration of COSMO Model, Priority Project CALMO Final report.

No. 33: Naim Vela (2017):
         V.A.S.T. (Versus Additional Statistical Techniques) User Manual (v2.0).

No. 34: C. Marsigli, D. Alferov, M. Arpagaus, E. Astakhova, R. Bonanno, G. Duniec, C. Gebhardt, W. Interewicz, N. Loglisci, A. Mazur, V. Maurer, A. Montani, A. Walser (2018):
         COsmo Towards Ensembles at the Km-scale IN Our countries" (COTEKINO), Priority Project final report.

No. 35: G. Rivin, I. Rozinkina, E. Astakhova, A. Montani, D. Alferov, M. Arpagaus, D. Blinov, A. Bundel, M. Chumakov, P. Eckert, A. Euripides, J. Foerstner, J. Helmert, E. Kazakova, A. Kirsanov, V. Kopeikin, E. Kukanova, D. Majewski, C. Marsigli, G. de Morsier, A. Muravev, T. Paccagnella, U. Schaettler, C. Schraff, M. Shatunova, A. Shcherbakov, P. Steiner, M. Zaichenko (2017):
         The COSMO Priority Project CORSO Final Report.

No. 36: A. Raspanti, A. Celozzi, A. Troisi, A. Vocino, R. Bove, F. Batignani(2018):
         The COSMO Priority Project VERSUS2 Final Report

No. 37: INSPECT Final Report A. Bundel, F. Gofa, D. Alferov, E. Astakhova, P. Baumann, D. Boucouvala, U. Damrath, P. Eckert, A. Kirsanov, X. Lapillonne, J. Linkowska, C. Marsigli, A. Montani, A. Muraviev, E. Oberto, M.S. Tesini, N. Vela, A. Wyszogrodzki, M. Zaichenko, A. Walser(2019):
         The COSMO Priority Project INSPECT Final Report

No. 38: G. Rivin, I. Rozinkina, E. Astakhova, A. Montani, J-M. Bettems, D. Alferov, D. Blinov, P. Eckert, A. Euripides, J. Helmert, M.Shatunova(2019):
         The COSMO Priority Project CORSO-A Final Report

No. 39: C. Marsigli, D. Alferov, E. Astakhova, G. Duniec, D. Gayfulin, C. Gebhardt, W. Interewicz, N. Loglisci, F. Marcucci, A. Mazur, A. Montani, M. Tsyrulnikov, A. Walser (2019):
         Studying perturbations for the representation of modeling uncertainties in Ensemble development (SPRED Priority Project): Final Report

No. 40: E. Bucchignani, P. Mercogliano, V. Garbero, M. Milelli, M. Varentsov, I. Rozinkina, G. Rivin, D. Blinov, A. Kirsanov, H. Wouters, J.-P. Schulz, U. Schaettler(2019):
         Analysis and Evaluation of TERRA_URB Scheme: PT AEVUS Final Report

No. 41: X. Lapillonne, O. Fuhrer(2020):
         Performance On Massively Parallel Architectures (POMPA): Final report

No. 42: E. Avgoustoglou, A. Voudouri, I Carmona, E. Bucchignani, Y. Levy, J. -M. Bettems (2020):
         A methodology towards the hierarchy of COSMO parameter calibration tests via the domain sensitivity over the Mediterranean area