

Monday, May 06

Poster Session
T1: Model evaluation and quality assurance

<p>H15-20: EVALUATION OF DIFFERENT GAS PHASE CHEMICAL MECHANISMS AGAINST SMOG CHAMBER EXPERIMENTAL DATA <i>Marta G. Vivanco and Manuel Santiago</i></p>
<p>H15-49: IMPROVING THE LOW-WIND PERFORMANCE OF THE AERMOD ATMOSPHERIC DISPERSION MODEL FOR PREDICTING SHORT-RANGE IMPACTS OF LIVESTOCK AMMONIA EMISSIONS <i>Mark R. Theobald and Mark A. Sutton</i></p>
<p>H15-66: SPATIAL REPRESENTATIVENESS OF AIR QUALITY MONITORING STATIONS IN ITALY <i>Antonio Piersanti, Gaia Righini, Felicita Russo, Giuseppe Cremona, Lina Vitali, Luisella Ciancarella</i></p>
<p>H15-142: CODASC: A DATABASE FOR THE VALIDATION OF STREET CANYON DISPERSION MODELS <i>Christof Gromke</i></p>
<p>H15-169: HOW CAN HYPERSPECTRAL IMAGERY HELP TO CHARACTERIZE PLUME AND TO MEASURE POLLUTANT IN THE ATMOSPHERE? <i>Maxime NIBART, Thierry ROBIN, Armand ALBERGEL, Jean-Marc PECHINOT</i></p>
<p>H15-48: COMPARISON OF SPATIAL RAINFALL DATA CALCULATED WITH A METEOROLOGICAL MODEL AND FROM MEASUREMENTS – IMPLICATIONS FOR ESTIMATION OF WET DEPOSITION WITH THE FRAME MODEL <i>Maciej Kryza, Anthony J. Dore, Małgorzata Werner, Kinga Wałaszek</i></p>
<p>H15-200: SENSITIVITY STUDY OF THE IMPACT OF METEOROLOGICAL INPUT PARAMETERS ON ATMOSPHERIC DISPERSION ESTIMATES <i>Ana Graciela Ulke</i></p>
<p>H15-105: Stack configuration and meteorological influences on the simulation of a large power plant plume <i>Souto, J.A., Moral, C., Hernandez-Garcés, A., Rodríguez, A., Saavedra, S., Casares, J.J.</i></p>
<p>H15-161: EVALUATION OF ALADIN-CAM_x and WRF/Chem operational AIR quality forecasts: first results <i>Marko Rus, Rahela Žabkar, Jože Rakovec</i></p>
<p>H15-128: STUDY OF THE URBAN HEAT ISLAND IN LECCE (ITALY) BY MEANS OF ADMS AND ENVI-MET <i>Giuseppe Maggiotto, Marco Santo, Riccardo Buccolieri, Silvana Di Sabatino</i></p>
<p>H15-82: VALIDATION OF A GEOSTATISTICAL INTERPOLATION MODEL USING MEASUREMENT OF PARTICULATE MATTER CONCENTRATION <i>Lucie Bonvalet, Andrée Marijns, Benoît Debast, Olivier Parks, Guy Gérard, Grégory Coussement and Charles Passelecq</i></p>
<p>H15-195: REGIONAL AIR QUALITY FORECASTING FOR THE CZECH REPUBLIC <i>Linton Corbet, Ondřej Vlček, Kryštof Eben, Jitka Liczki, Nina Benešová, Miloslav Modlík</i></p>
<p>H15-69: SENSITIVITY ANALYSIS ON PM TRAFFIC EMISSION MODELING PARAMETERS <i>J. Garcia, R. Cerdeira, N. Tavares, L. M. R. Coelho, M.G. Carvalho</i></p>
<p>H15-62: EVALUATION OF THE WRF MODEL RESULTS FOR HIGH OZONE EPISODE IN SW POLAND – THE ROLE OF MODEL INITIAL CONDITIONS <i>Kinga Wałaszek, Maciej Kryza, Małgorzata Werner</i></p>
<p>H15-52: Receptor modeling for source apportionment of particle bounded polycyclic aromatic hydrocarbons at an urban location in Spain <i>M.S. Callén, A. Iturmendi, J.M. López, A.M. Mastral</i></p>
<p>H15-33: CERES™ CBRN – A unified modelling and decision support system to assess the dispersal and health impact of hazardous releases in urban or open-field environments <i>Patrick ARMAND¹, Luc PATRYL¹, Guillevic LAMAISON², Lionel SOULHAC², Laurent DEGUILLAUME³, Nadine CHAUMERLIAC³ and Marguerite MONFORT¹</i></p>
<p>H15-333: Evaluation of detection abilities of monitoring networks using different assessment criteria <i>Radek Hofman, Petr Pecha, Václav Šmíd</i></p>

HARMO 15: 15th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes

Poster Session
T2: Environmental impact assessment

H15-30: HIGH RESOLUTION MAPS OF NITROGEN DIOXIDE FOR THE PROVINCE OF STYRIA, AUSTRIA <i>Dietmar Oettl</i>
H15-310: REGIONAL AIR QUALITY management ASSESSMENT BY USING CHIMERE AIR QUALITY MODEL <i>J.A. Souto, S. Saavedra, A. Rodríguez, M. Dios, López, J¹, D. Cartelle, J.M. Vellón, N. Gallego, M.L. Macho</i>
H15-44: ASSESSMENT OF THE PORT AREA CONTRIBUTION TO THE AIR QUALITY IN THE CITY OF BURGAS <i>Ekaterina Batchvarova, Hristomir Branzov, Jordan Marinski, Hristina Kirova, Damyan Barantiev, Anton Petrov, Anna Jordanova, Svilen Borisov</i>
H15-71: DISPERSION MODELLING FOR DECISION-MAKING: COMBINING SPATIAL STATISTICS WITH MODEL PARAMETERIZATION <i>A Tiwary, A Namdeo, P S Goodman, M C Bell</i>
H15-106: MODELLING PM₁₀ DISPERSION FROM ROAD TRAFFIC AND INDUSTRY IN <i>Matic Ivančič and Rudi Vončina</i>
H15-196: EVALUATION OF CFD SIMULATIONS PREDICTING DIFFUSE SOURCES EMISSION DISPERSION: COMPARISON BETWEEN LARGE EDDY SIMULATIONS (LES) AND REGULATORY MODELS <i>Bruno Furieri, Edilson Luis do Nascimento, Jean-Luc Harion, Neyval Costa Reis Jr, Jane Meri Santos</i>
H15-80: IMPACTS ON AIR QUALITY FROM EU-ETS AND IPPC IMPLEMENTATION IN ROMANIAN IRON&STEEL PLANTS <i>Mihaela Balanescu, Ecaterina Matei, Mirela Sohaciu, Cristian Predescu</i>
H15-83: DETERMINATION OF THE ROLE OF MODELING IN THE SELECTED ODOUR EMISSIONS SOURCES IMPACT ASSESSMENT <i>Izabela Sówka, Zygmunt Kowalski, Maria Skrętowicz, Piotr Sobczyński, Jerzy Zwoździak, Agnieszka Makara</i>

Tuesday, May 07

Poster Session
T3: Use of modelling in support of EU air quality directives

H15-148: MODELLING ACTIVITIES FOR THE DEVELOPMENT OF AIR QUALITY PLANS IN MADRID (SPAIN) <i>Rafael Borge, Julio Lumbreras, Javier Pérez, David de la Paz, Michel Vedrenne, Juan Manuel de Andrés, Encarnación Rodríguez</i>
H15-144: COMBINING DIFFERENT METHODOLOGIES FOR SOURCE APPORTIONMENT OF PARTICULATE MATTER IN CYPRUS <i>Evangelia Fragkou, Ioannis Douros, George Tsegas, Eleftherios Chourdakis, Nicolas Moussiopoulos and Savvas Kleanthous</i>
H15-50: LOCAL PM₁₀ SOURCE APPORTIONMENT FOR NON-ATTAINMENT AREAS IN SLOVAKIA <i>Jana Krajčovičová, Martin Kremler, Jana Matejovičová</i>
H15-59: HIGH QUALITY AIR POLLUTION DISPERSION MODELLING USING HIGH COMPUTATIONAL PERFORMANCE LAGRANGIAN PARTICLE MODEL <i>Boštjan Grašič, Primož Mlakar, Marija Zlata Božnar, Juš Kocijan and Gianni Tinarelli</i>

Poster Session
T6: Use of modelling in exposure assessments

H15-104: ASSESSMENT OF SEPARATION DISTANCES TO AVOID ODOUR ANNOYANCE: INTERACTION BETWEEN ODOUR IMPACT CRITERIA AND PEAK-TO-MEAN FACTORS <i>Günther Schaubberger, Martin Piringer and Erwin Petz</i>
H15-5: MODELLING OF THE ATMOSPHERIC DISPERSION OF RADIONUCLIDES FROM THE URANIUM PROCESSING FACILITIES OF THE FORMER PRIDNEPROVSKY CHEMICAL PLANT IN UKRAINE <i>Ivan Kovalets, Aleksander Kchalchenkov and Tatiana Lavrova</i>

H15-3: NUMBER CONCENTRATION, DISTRIBUTION AND TRANSFORMATION OF NANOPARTICLES IN AND OUTSIDE A CAR CABIN <i>Pouyan Joodatnia , Prashant Kumar, Alan Robins</i>
H15-24: AN INTEGRATED APPROACH BETWEEN DISPERSION MODELS AND AIR QUALITY DATA FOR AIR POLLUTION EXPOSURE ASSESSMENT PURPOSES <i>Cristina Mangia, Marco Cervino, Emilio Antonio Luca Gianicolo</i>
H15-101: ESTIMATING ODOR IMPACT RANGE OF SELECTED WASTEWATER TREATMENT PLANT FOR WINTER AND SUMMER SEASONS IN POLISH CONDITIONS USING CALPUFF MODEL <i>Izabela Sówka, Maria Skrętowicz, Piotr Sobczyński, Jerzy Zwoździak</i>

Poster Session T8: : Modelling air dispersion and exposure to accidental releases
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H15-157: NUMERICAL SIMULATION OF HAZARDOUS MATERIAL ATMOSPHERIC DISPERSION FOLLOWING AN ACCIDENTAL RELEASE IN AN INDUSTRIAL SITE: THE EFFECTS OF ATMOSPHERIC CHEMISTRY DURING DISPERSION <i>Mehmet Karaca, Antonia Zogka, Yann Fenard, Abdelwahid Mellouki, Philippe Dagaut and Iskender Gökalp</i>
H15-134: MODELLING OF FLUCTUATING CONCENTRATION FIELDS IN COMPLEX INDUSTRIAL AREAS <i>Giovanni Leuzzi, Paolo Monti, Armando Pelliccioni, Claudio Gariazzo</i>
H15-29: IMPROVED SCHEME FOR PARAMETRIZATION OF CONVECTIVE TRANSPORT IN NAME III <i>Elena Meneguz and David J. Thomson</i>
H15-172: SENSITIVITY ANALYSIS OF THE MODELLED DEPOSITION OF ¹³⁷CS ON THE JAPANESE LAND FOLLOWING THE FUKUSHIMA ACCIDENT: PRELIMINARY RESULTS <i>J. Groëll, D. Quélo, A. Mathieu</i>
H15-122: NUMERICAL ANALYSIS FOR ¹³⁷CS ON SEABED SEDIMENT INCLUDING ATMOSPHERIC DEPOSITION NEAR THE FUKUSHIMA COASTAL AREA <i>Byung Il Min, Raul Periañez and Kyung-Suk Suh</i>
H15-167: PLUME RISE AND SPREADING IN BUOYANT RELEASES IN THE ATMOSPHERE: EXPERIMENTS AND STOCHASTIC MODELLING <i>Massimo Marro, I Salizzoni, François-Xavier Cierco, Irène Korsakissok, Enrico Danzi, Lionel Soulhac</i>
H15-98: FUTURE RADIOLOGICAL DISPERSION CALCULATIONS IN SWITZERLAND WITH JRODOS AND LASAT <i>Giuseppe Testa, Hanspeter Isaak, Cyrill von Arx</i>
H15-103: ATMOSPHERIC DISPERSION MODELING FOR THE FUKUSHIMA NUCLEAR ACCIDENT <i>Kyung Suk Suh and Byung-Il Min</i>
H15-146: SIMULATION DATABASE FOR ATMOSPHERIC DISPERSION OF POLLUTANT AND TOXIC COMPOUNDS DURING ACCIDENTAL FIRES <i>A. Marongiu, E. Angelino, S. A. Bellinzona, G. Fossati, L. Lanzani, E. Peroni</i>
H15-23: Estimated Height Thermal Internal Boundary Layer in Almirante Alvaro Alberto Nuclear Power Through Mesoscale Model-5. <i>José Francisco de Oliveira Júnior, Luiz Claudio Gomes Pimentel, Luiz Landau , Nilton Oliveira Moraes</i>
H15-130: POLLUTANT CONCENTRATION FLUCTUATIONS IN A NEUTRAL ATMOSPHERIC BOUNDARY LAYER: A NEW DETAILED DATA SET FOR THE VALIDATION OF DISPERSION MODELS <i>Chiara Nironi, Pietro Salizzoni, Patrick Méjean, Lionel Soulhac</i>

Wednesday, May 08

Poster Session
T4: Meso-scale meteorology and air quality modelling

H15-138: SENSITIVITY ANALYSIS OF FIRE BEHAVIOUR SIMULATIONS OVER SPAIN WITH WRF-FIRE

Roberto San José, Juan Luis Pérez Rosa M. González-Barras J. Pecci and M. Palacios

H15-40: SPATIAL AND CHEMICAL PATTERNS OF PM_{2.5} – A CASE STUDY FOR THE UNITED KINGDOM AND POLAND

Małgorzata Werner, Maciej Kryza, Anthony J. Dore

H15-70: Analysis of the Integrated environmental and Meteorological forecasting and Alert System (SIAM) for air quality applications over different regions of the Iberian Peninsula.

Arasa, R. , Picanyol, M., De Tera, O.

H15-125: AIR-QUALITY AND CLIMATE INTERACTION WITHIN URBAN ENVIRONMENT

Tomas Halenka, Peter Huszar, Michal Belda and Katerina Zemankova

H15-100: AIR-QUALITY CHANGES INDUCED BY URBAN LAND SURFACE FORCING IN CENTRAL EUROPE

Peter Huszar, Tomas Halenka, Michal Belda and Katerina Zemankova

H15-193: DEVELOPMENT OF ATMOSPHERIC MODELLING SYSTEM FOR OZONE AND FINE PARTICULATES PREDICTION IN THAILAND

Vanisa Surapipith

H15-32: Does the NAO index affect the precipitation amount and chemistry in the north-eastern Iberian Peninsula?

Rebeca Izquierdo , Marta Alarcon , Anna Avila

H15-143: EVALUATION OF THE HIRLAM AND HARMONIE NUMERICAL WEATHER PREDICTION MODELS DURING AN AIR POLLUTION EPISODE

Gertie Geertsema, Huseyin Toros and Gerard Cats

H15-164: MESOSCALE SIMULATION OF HOT WEATHER EVENTS DURING AUGUST 2012 IN GREECE

Diamando Vlachogiannis, Athanasios Sfetsos, Stylianos N. Karozis, George Emmanouil, Nikolaos Gounaris and Constantina Mita

H15-12: THE SAHARAN SAND EPISODE ON APRIL 12TH, 2002 IN THE NORTHERN ADRIATIC AREA /CROATIA

Ana Alebić-Juretić, Kornelija Špoler Čanić, Iva Kavčić and Zvezdana Bencetić Klaić

H15-39: Analytical Model for Pollutant Dispersion Released from Different Sources with Deposition to the Ground in

Atmospheric Boundary Layer

Anikender Kumar and P. Goyal

H15-194: CONTROVERSARY PROBLEMS OF ATMOSPHERIC STABILITY PARAMETRIZATION IN AIR POLLUTION DISPERSION

Iveta Steinberga, Ieva Sile

Poster Session
T5: Urban scale and street canyon modelling

H15-166: ON THE EFFECTS OF SAMPLING DURATION ON TURBULENCE MODELING AND ITS APPLICATION IN ATMOSPHERIC CFD SIMULATIONS

Radi Sadek, Lionel Soulhac, Fabien Brocheton, Emmanuel Buisson

H15-60: EXTENSION AND MODIFICATION OF THE BULK RICHARDSON NUMBER METHOD FOR PARAMETERIZATION OF EXCHANGE AND INTERACTION PROCESSES OVER URBAN AREAS

Evgeni Syrakov, Kostadin Ganev

H15-65: Validating the RIO-IFDM-street canyon coupling over Antwerp, Belgium

W. Lefebvre, M. Van Poppel and B. Maiheu

H15-109: ON THE ROLE OF THE ROUGHNESS LENGTH IN URBAN BOUNDARY LAYERS

Armando Pelliccioni, Paolo Monti, Giovanni Leuzzi

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H15-117: APPLICATION OF DETACHED EDDY SIMULATION TO NEIGHBORHOOD SCALE ATMOSPHERIC DISPERSION <i>Konstantinos E. Kakosimos and Marc J. Assael</i>
H15-153: Using a direct numerical simulation to parameterise a street network dispersion model <i>E.V.Goulart O.Coceal S.E.Belcher</i>
H15-198: Geometrical characteristics of PM concentration fields in different types of urban areas <i>Jiri Pospisil and Miroslav Jicha</i>
H15-43: ON THE FLOWS OVER TWO-DIMENSIONAL IDEALIZED STREET CANYONS WITH HEIGHT VARIATION <i>Colman Ching-Chi Wong & Chun-Ho Liu</i>
H15-174: SIMULATING THE HEAT ISLANDS FOR A TROPICAL URBAN AIRSHED IN INDIA: A FEASIBILITY STUDY FOR MEGACITY DELHI USING WRF-GIS MODELLING <i>Anurag Kandya, Manju Mohan and Shweta Bhati</i>
H15-120: Numerical simulations of stratified turbulent flow with usage of high order schemes WENO and ILES <i>Aleš Jirk¹ and Josef Brechler</i>
H15-18: Street canyon air ventilation and pollution dispersion modelling <i>Chi-To Ng and Chun-Ho Liu</i>
H15-67: LARGE EDDY SIMULATION OF POLLUTION DISPERSION FROM HIGHWAYS WITH NOISE BARRIERS <i>Vladimír Fuka, Josef Brechler</i>
H15-123: From local-scale to micro-scale assessment of the atmospheric impact of the pollutant plume emitted from a power-plant stack. <i>Grazia Ghermandi, Sergio Teggi, Sara Fabbì, Alessandro Bigi and Marco Michele Zaccanti</i>
Poster Session T7: : Inverse dispersion modelling and source identification
H15-182: INVERTING TIME DEPENDENT CONCENTRATION SIGNALS TO ESTIMATE POLLUTANT EMISSIONS IN CASE OF ACCIDENTAL OR DELIBERATE RELEASE <i>Nabil BEN SALEM, Lionel SOULHAC, Pietro SALIZZONI, Patrick ARMAND</i>
H15-191: A TRAJECTORY STATISTICAL METHOD FOR THE IDENTIFICATION OF SOURCES ASSOCIATED WITH CONCENTRATION PEAK EVENTS <i>Rita Cesari, Paolo Paradisi, Paolo Allegrini</i>
H15-89: APPLICATION OF A SOURCE-RECEPTOR MODEL TO DETERMINE SOURCE AREAS OF POLLEN IN CATALONIA (NE SPAIN) <i>Marta Alarcón; Jordina Belmonte; Mirna López-Pacheco</i>
H15-74: ESTIMATION OF SOURCE TERM BY INVERSE MODEL IN EMERGENCY WITH ENVIRONMENTAL MONITORING AND ATMOSPHERIC DISPERSION IN KOREA NUCLEAR POWER PLANT <i>Gab-Bock Lee, Wook Sohn, Yang-Hee Yang, Won-Jong Park</i>
H15-92: APPLICATION OF ATMOSPHERIC TRANSPORT MODELS AT THE NEW ATMOSPHERIC EBRE DELTA STATION (CLIMADAT NETWORK) IN EASTERN SPAIN <i>C. Grossi, R. Curcoll, J.A. Morguá, A. Àgueda, M. Ealo, P. Occhipinti, M. Nofuentes, L. Sánchez-García, O. Batet, A. Vargas, X., A. T. Vermeulen and X. Rodó.</i>
H15-163: MODELLING OF POLYCYCLIC AROMATIC HYDROCARBONS FROM SELECTED POINT AND AREA SOURCES IN CENTRAL EUROPE <i>Jana Matejovičová, Gerhard Lammel, Christos Efstathiou, Jana Krajčovičová, Martin Kremler</i>