

Wednesday 23 March 2011

Poster Session 1: Mapping Global Change, Climate, Epidemiology and Health

[P1.1]	Spatial estimation of air pollution by ozone using bivariate approaches D. Rojas-Avellaneda*, J. Martínez-Cervantes, <i>Centro de Investigación en Geografía y Geomática "Ing. Jorge L. Tamayo", Mexico</i>
[P1.2]	Using penalised spline models to estimate varying health risks from air pollution D. Lee, <i>University of Glasgow, UK</i>
[P1.3]	Ocean data mining with application to climate indices of the North Atlantic A.N.-H. Hakobyan*, <i>Memorial University of Newfoundland, Canada</i>
[P1.4]	Geographically weighted regression using non-Euclidean distance metrics B. Lu*, M. Charlton, A.S. Fotheringham, <i>National University of Ireland, Ireland</i>
[P1.5]	Mapping land cover gradients using hypertemporal NDVI imagery A. Ali* ¹ , C.A.J.M. de Bie ¹ , A. Hammad ¹ , E.M.A. Smaling ^{1,2} , ¹ <i>University of Twente, The Netherlands</i> , ² <i>Wageningen University, The Netherlands</i>
[P1.6]	Application of a land use regression model for calculation of the spatial pattern of annual NOx air concentrations at national scale - a case study for Poland M. Kryza* ¹ , M. Szymanowski ¹ , A.J. Dore ² , M. Werner ¹ , ¹ <i>Wroclaw University, Poland</i> , ² <i>Centre for Ecology and Hydrology, United Kingdom</i>
[P1.8]	Asymmetry in breast reconstruction patients J. Smith*, A. Bowman, <i>University of Glasgow, UK</i>
[P1.9]	Spatial-temporal modeling to assess agricultural drought vulnerability U.V. Naik-Nimbalkar ¹ , R.K. Parchure ² , A.J. Shitole* ² , ¹ <i>University of Pune, India</i> , ² <i>Gokhale Institute of Politics and Economics, India</i>
[P1.10]	Assessing dynamics on epidemic of A/H1N1 flu in mainland China with spatial autocorrelation SIR model J.P. Chen*, L.L. Zhang, B.J. Huang, <i>Wuhan University, China</i>
[P1.11]	Spatiotemporal patterns in the occurrence of nephropatia epidemica and lyme disease in Belgium J.M. Barrios*, W.W. Verstraeten, P. Coppin, <i>Katholieke Universiteit Leuven, Belgium</i>
[P1.12]	Spatio-temporal model of avian influenza spread risk I. Iglesias* ¹ , J.M. Sánchez-Vizcaino ² , M.J. Muñoz ¹ , M. Martínez ^{1,2} , A. Torre ¹ , ¹ <i>CISA-INIA, Spain</i> , ² <i>Complutense University of Madrid, Spain</i>
[P1.13]	The spatiotemporal diffusion of pandemic influenza (H1N1)2009 in Hong Kong N.S. Wong*, S.S. Lee, <i>Chinese University of Hong Kong, Hong Kong</i>
[P1.14]	The chlorophyll variability in meteosat derived NDVI in a context of drought monitoring C. Rulinda*, W. Bijker, A. Stein, <i>University of Twente, The Netherlands</i>
[P1.15]	An entropy-based inequality risk metric applied to measure economic globalization B.G. Ruettimann, <i>Swiss Institute for Systems Engineering, Switzerland</i>
[P1.18]	Temporal variability and extreme value analysis of precipitations in Burkina Faso L. Bel* ¹ , J. Weiss ¹ , J.-J. Boreux ² , D. Tapsoba ³ , ¹ <i>AgroParisTech, France</i> , ² <i>Université de Liège, Belgium</i> , ³ <i>IREQ, Canada</i>
[P1.19]	Crop area estimation from UAV transects and MSR image data using spatial sampling method: Simulation experiments Y.Z. Pan, J.S. Zhang, K.J. Shen*, <i>State Key Laboratory of Earth Surface Processes and Resource Ecology, China</i> , ² <i>Beijing Normal University, China</i>
[P1.20]	Understanding the increase of the temperature in Amazon Rainforest by spatial statistics techniques A.R. Silva*, A.C. Mendonça, L.B. Torres, <i>Universidade de Brasilia, Brazil</i>
[P1.21]	Spatial statistical modelling and determinants analysis of floating population: A case study of Yiwu City, China H.S. Li*, Y.J. Wang, J.F. Han, Z.Y. Yu, <i>Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Science, China</i>
[P1.22]	Contextual land-cover classification using spatial statistics: Comparing the Getis and Moran statistics. B. Ghimire, V. Rodríguez-Galiano*, <i>Clark University, USA</i> , ² <i>University of Granada, Spain</i>
[P1.23]	Simulation of water use efficiency of terrestrial vegetation in China using BEPS-China model X.F. Feng*, G.H. Liu, Q. Ding, J.K. Huang, <i>Institute of Geographic Sciences and Natural Resource Research, China</i>
[P1.24]	Spatial representation of the soil climate under the climate change in various regions of the world M. Trnka ¹ , P. Hlavinka ¹ , Z. Zalud* ¹ , D. Semeradova ¹ , M. Hayes ² , C. Kersebaum ³ , ¹ <i>Mendel University in Brno, Czech Republic</i> , ² <i>University of Nebraska, USA</i> , ³ <i>Leibniz-Center of Agricultural Landscape Research, Germany</i>
[P1.25]	Space time clusters of crime in Stockholm, Sweden V.A. Ceccato*, A. Cornelis Uittenbogaard, <i>Royal Institute of Technology, Sweden</i>

[P1.26]	Evaluating drought risk for permanent grasslands under present and future climate conditions M. Trnka ¹ , Z. Zalud ^{*1} , D. Semeradova ¹ , A. Schaumberger ² , M. Dubrovsky ³ , J. Eitzinger ⁴ , ¹ Mendel University in Brno, Czech Republic, ² Federal Research and Education Center for Agriculture Raumberg-Gumpenstein, Austria, ³ Academy of Sciences of the Czech Republic, Czech Republic, ⁴ University of Natural Resources and Applied Life Sciences (BOKU), Austria
[P1.27]	Analysing climate effects on agriculture in time and space A. Holzkämper*, P. Calanca, J. Fuhrer, <i>Agroscope Reckenholz-Tänikon Research Station, Switzerland</i>
[P1.29]	A sight on the MSC semi-quantitative analysis applied to an Argentinean fishery M.L.M.Y. Marcelo L Morales-Yokobori*, L.B.P. Leszek Bruno Prenski, <i>University of Belgrano, Argentina</i>
[P1.30]	Spatial clusters of overweight and obesity in Cebu, Philippines: Investigating obesogenic environments with the spatial scan statistic D.L. Dahly, <i>University of Leeds, UK</i>
[P1.31]	Spatial and temporal trends in historic river flow data across the United Kingdom: A comparison against climatic variables J. Williams ^{*1} , I. Robertson ¹ , S.O. Los ¹ , T. Marsh ² , ¹ Swansea University, UK, ² Centre for Ecology and Hydrology, UK
[P1.32]	Presence-absence modelling of <i>Culicoides imicola</i> through data reduction and machine learning J. Peters ^{*1} , B. De Baets ¹ , J. van Donick ¹ , E. De Clercq ² , E. Ducheyne ² , N. Verhoest ¹ , ¹ Ghent University, Belgium, ² Avia-GIS, Belgium
[P1.33]	A prediction method for the global distribution of CO2 concentration from irregularly observed locations M. Tomosada*, <i>Central Research Institute of Electric Power Industry, Japan</i>
[P1.34]	Spatial models to explore the link between climate change and migration C. Ocello*, A. Petrucci, D. Vignoli, <i>University of Florence, Italy</i>
[P1.35]	Remote sensing data assimilation in modelling of urban dynamics J. van der Kwast ^{*1} , F. Canters ² , D. Karszenberg ³ , G. Engelen ¹ , ¹ Flemish Institute for Technological Research (VITO), Belgium, ² Vrije Universiteit Brussel, Belgium, ³ Utrecht University, The Netherlands
[P1.36]	Coastal water quality analysis of Mumbai Coast using pre-monsoon OCM images with satellite - synchronous field observations M. Bhattacharya*, Y.Y.Y. Agarwadkar, S. Azmi, M. Apte, A.B. Inamdar, <i>CSRE, IIT Bombay, India</i>
[P1.37]	Disaggregation of air quality data for spatio-temporal exposure modelling L.E. Gerharz*, B. Gräler, E. Pebesma, <i>University of Münster, Germany</i>
[P1.38]	Urban morphology of unplanned settlements: The use of spatial metrics in VHR remotely sensed images M. Kuffer*, J. Barros, <i>University of Twente, The Netherlands, ²University of London, UK</i>
[P1.39]	Mapping the temporal changes in primary productivity of the coastal waters of Mumbai using remote sensing techniques S. Azmi, Y.Y.Y. Agarwadkar, M. Bhattacharya*, M. Apte, A.B. Inamdar, <i>CSRE, IIT Bombay, India</i>
[P1.40]	Toward an interactive system for checking spatio-temporal data quality C. Plumejeaud*, D. Azzi, M. Villanova-Oliver, J. Gensel, <i>Laboratoire d'Informatique de Grenoble, France</i>
[P1.41]	Stratified sampling method applying in winter wheat area estimation using historical remote sensing images L. Zhao, J.S. Zhang*, Y.Z. Pan, G.N. Sun, L. Jin, <i>College of Resource Science and Technology, China, ²State Key Laboratory of Earth Surface Processes and Resource Ecology, China</i>
[P1.42]	Combining climatic projections with dispersal mechanisms of phlebotomine sandflies - a risk assessment for central Europe D. Fischer*, S.M. Thomas, C. Beierkuhnlein, <i>University of Bayreuth, Germany</i>
[P1.43]	Effects of climate change on endemic plant species of La Palma (Canary Islands) using environmental niche modelling S.D.H. Irl*, H. Dempe, E. Thiem, C. Beierkuhnlein, <i>Univeristy of Bayreuth, Germany</i>
[P1.44]	DOPA, a digital observatory using earth observations for assessing, monitoring and forecasting biodiversity in protected areas G. Dubois, M. Clerici, J.O. Skoien*, M. Punga, S. Peedell, <i>Joint Research Centre of the European Commission, Belgium</i>
[P1.45]	Large scale spatialization of characteristic parameters of air temperature seasonality R. Coppola ^{*1} , M. Lanfredi ^{1,2} , T. Simoniello ^{1,2} , A.L. Russo ¹ , M. D'Emilio ^{1,2} , M. Macchiato ^{2,3} , ¹ National Research Council, Italy, ² Interuniversity National Consortium for Physical Sciences of Matter, Italy, ³ University of Naples, Italy
[P1.46]	Extremes of gridded spatial ozone data in the southern mid-latitudes L. Frossard ^{*1} , A.C. Davison ¹ , H.E. Rieder ² , ¹ EPF Lausanne, Switzerland, ² ETH Zurich, Switzerland
[P1.47]	A clustering algorithm for spatially dependent functional data P.S. Secchi, S.V. Vantini, V.V. Vitelli*, <i>Politecnico di Milano, Italy</i>

[P1.48]	Historical evolution of seawater intrusion and pollution by Nitrates in the aquifer of Maneadero, Baja California, Mexico A. Licona-García*, R. Eaton-González, L. Walter Daesslé, E. Ohiiashi Manajarrez-Masuda, <i>Universidad Autónoma de Baja California, Mexico</i>
[P1.49]	Space econometric models for the estimate of value of the lot D. Doncel, A. Sanchez*, ¹ <i>University Distrital Francisco Jose of Caldas, Colombia</i>
[P1.50]	Wildfire frequency-area statistics in Spain M.V. Moreno* ¹ , B.D. Malamud ² , E. Chuvieco ¹ , ¹ <i>University of Alcalá, Spain</i> , ² <i>King's College London, UK</i>
[P1.51]	Application of spatial analysis to the examination of dengue fever incidence in Guayaquil, Ecuador K. Castillo*, J. Gonzalez, <i>Heinrich-Heine University of Düsseldorf, Germany</i>
[P1.52]	Vegetation degradation induced by climate change, relation of climate extremes and NDVI in pine communities of Queretaro, Mexico H. Luna-Soria*, H. Suzán-Azpiri, <i>Universidad Autonoma de Queretaro, Mexico</i>
[P1.53]	A geostatistical approach to event detection in wireless sensor networks Y. Zhang, N.A.S. Hamm*, N. Meratnia, A. Stein, P.J.M Havinga, <i>University of Twente, The Netherlands</i>
[P1.54]	Global scaling and connectivity of human population and development C. Small* ¹ , M. Montgomery ² , D. Balk ³ , C. Elvidge ⁴ , E. Bright ⁵ , G. Yetman ⁶ , ¹ <i>LDEO - Columbia University, USA</i> , ² <i>Stony Brook University, USA</i> , ³ <i>City University of New York, USA</i> , ⁴ <i>NOAA/NGDC, USA</i> , ⁵ <i>ORNL, USA</i> , ⁶ <i>CIESIN - Columbia University, USA</i>
[P1.55]	An integrated spatial statistical framework for road infrastructure design using climate projections E. Linder*, J. Jacobs, J. Daniel, <i>University of New Hampshire, USA</i>
[P1.56]	Dynamic simulation model of land cover in the Dulce Creek Basin, Argentina D.K. Zelaya* ¹ , L. Lima ^{2,4} , P. Laterra ^{3,4} , H. Massone ^{2,4} , N. Maceira ¹ , ¹ <i>INTA EEA Balcarce, Argentina</i> , ² <i>UNMdP – Centro de Geología de Costas y del Cuaternario, Argentina</i> , ³ <i>UNMdP – Facultad de Ciencias Agrarias, Argentina</i> , ⁴ <i>CONICET, Argentina</i>
[P1.57]	Expert elicitation of the variogram P. Truong* ¹ , G. Heuvelink ¹ , J.P. Gosling ² , ¹ <i>Wageningen University, The Netherlands</i> , ² <i>Food and Environment Research Agency, UK</i>
[P1.58]	Spatio-temporal smoothing of brain imaging MEG data M. Ventrucci* ¹ , A. Bowman ¹ , C. Ferguson ¹ , J. Gross ² , J.M. Schoffelen ³ , ¹ <i>Glasgow University, UK</i> , ² <i>Radboud University Nijmegen, The Netherlands</i>
[P1.59]	Land use change on the island of Borneo affects coastal water integrity B.J. Oney* ¹ , A. Shapiro ² , M. Wegmann ³ , ¹ <i>University of Bayreuth, Germany</i> , ² <i>World Wildlife Fund, United States</i> , ³ <i>University of Würzburg, Germany</i>
[P1.60]	The market value of listed heritage: An urban economic application of spatial hedonic pricing F. Lazrak*, P. Rietveld, <i>VU University, The Netherlands</i>
[P1.61]	Comparison of regression and kriging techniques for mapping the average annual precipitation of Turkey P. Aslantas Bostan* ¹ , G. Heuvelink ² , S.Z. Akyurek ¹ , ¹ <i>Middle East Technical University, Turkey</i> , ² <i>Wageningen University and Research Center, The Netherlands</i>
[P1.62]	The time of exposure to harmful, environmental factors - the spatial analysis of the cancer incidence rate in children D. Absalon ¹ , B. Ślesak* ² , ¹ <i>University of Silesia, Poland</i> , ² <i>Upper Silesian Child Health Center, Poland</i>
[P1.63]	Mapping and identifying seasonal flow changes associations with fish diversity by using geostatistical approaches Y.-P. Lin*, H.-H. Yu, C.-L. Wang, W.T. Hsiao, C.-W. Huang, <i>National Taiwan University, Taiwan</i>

Thursday 24 March 2011

Poster Session 2: Theory and Methods of Spatial Statistics

[P2.1]	IDW or kriging interpolation? That's the question Y. Fadakar A., <i>University of Queensland, Australia</i>
[P2.2]	Improved GMM estimation of panel data models with spatially correlated error components M. Arnold*, D. Wied, <i>TU Dortmund, Germany</i>
[P2.3]	Separate estimation of spatial dependence parameters and variance parameters in a spatial model M. Arnold*, D. Wied, <i>TU Dortmund, Germany</i>
[P2.4]	Spatial patterns of tree species in Silver fir-European beech old-growth forests in Carpathian mountains I.C. Petritan* ^{1,2} , A.M. Petritan ¹ , ¹ <i>Georg August University, Germany</i> , ² <i>Transilvania University Brasov, Romania</i>
[P2.5]	Application of Bayesian statistics in photogrammetric bundle adjustment R.F. Tang*, M. Cramer, D. Fritsch, <i>University of Stuttgart, Germany</i>
[P2.6]	The pair-copula construction for spatial data: A new approach to model spatial dependency B. Gräler*, E. Pebesma, <i>University of Münster, Germany</i>
[P2.7]	Ecological applications of spatial point process theory - examples of spatial complexity J. Illian, <i>University of St Andrews, UK</i>
[P2.8]	Artificial neural network in mineral nutrient monitoring: a review M.M. Saberioon*, A. Gholizadeh, M.S.M. Amin, <i>Institute of Advanced Technolog , University Putra Malaysia, Malaysia</i>
[P2.10]	Application of Bayes discriminant functions to classification of the spatial multivariate gaussian data K. Ducinkas*, L. Dreiziene, <i>Klaipeda University, Lithuania</i>
[P2.11]	Covariance models for spatial or spatio-temporal random vector fields M. Scheuerer* ¹ , M. Schlather ² , ¹ <i>University of Heidelberg, Germany</i> , ² <i>University of Göttingen, Germany</i>
[P2.12]	Design-based estimation under stratified spatial sampling L. Barabesi, S. Franceschi*, M. Marcheselli, <i>University of Siena, Italy</i>
[P2.13]	A multi-phase sampling strategy for estimating the attributes of scattered trees outside the forest F. Baffetta* ¹ , P. Corona ² , L. Fattorini ¹ , ¹ <i>University of Siena, Italy</i> , ² <i>University of Tuscia, Italy</i>
[P2.14]	Image classification based on bayes discriminant functions L. Stabingiene, G. Stabingis, K. Ducinkas*, <i>Klaipeda University, Lithuania</i>
[P2.15]	Using spatial and spatial-extreme statistics to characterise snow avalanche cycles N. Eckert* ¹ , J. Gaume ¹ , H. Castebrunet ^{2,1} , ¹ <i>Cemagref, UR ETNA, France</i> , ² <i>Météo France, CEN, France</i>
[P2.16]	Effects of tropical hurricane ivan on an orchid epiphytic community: A test on spatial segregation hypothesis J. Raventos*, E. Mujica, E. Gonzalez, A. Bonet, <i>University of Alicante, Spain</i>
[P2.17]	A method for gap filling of large geophysical dataset: Application to global soil moisture G. Wang* ¹ , D. Garcia ² , Y. Liu ³ , R. de Jeu ¹ , A.J. Dolman ¹ , ¹ <i>VU University Amsterdam, The Netherlands</i> , ² <i>University of Montreal Hospital, Canada</i> , ³ <i>CSIRO Land and Water, Black Mountain Laboratories, Australia</i>
[P2.19]	Maximum-likelihood estimation for spatial GLM models with closed-skew normal latent variables M. Mohammadzadeh*, F. Hosseini, <i>Tarbiat Modares University, Iran</i>
[P2.20]	Spatial regression with censored observations R.M. Crujeiras, <i>University of Santiago de Compostela, Spain</i>
[P2.21]	The influence of area size on morphometric DEM classification results considering k-median method M. Wiecek, <i>University of Wroclaw, Poland</i>
[P2.22]	One-step estimation of spatial dependence parameters: Properties and extensions of the APLE statistic H. Li* ¹ , C. Calder ² , N. Cressie ² , ¹ <i>IBM T. J. Watson Research Center, USA</i> , ² <i>The Ohio State University, USA</i>
[P2.23]	A variogram-based analysis of insect wing images to detect outbreaks: A case study of a pine looper (Bupalus piniarius L.) population O.P. Sekretenko* ^{1,3} , E.N. Palnikova ² , A.V. Kovalev ³ , V.G. Soukhovolsky ^{1,3} , ¹ <i>Sukachev Institute of Forest SB RAS, Russia</i> , ² <i>Siberian State Technological University, Russia</i> , ³ <i>Krasnoyarsk Scientific Centre SB RAS, Russia</i>
[P2.24]	Spatial modelling of the climate change impact on SOC temporal variations M. Fantappiè, G. L'Abate, E.A.C. Costantini*, <i>CRA-ABP, Italy</i>
[P2.25]	Spatial epidemiology. a model comparative study F. Montes ¹ , P. Moraga ² , F. Martínez-Ruiz* ¹ , ¹ <i>Universitat de València, Spain</i> , ² <i>Harvard School of Public Health, USA</i>
[P2.26]	Constrained optimization of spatial sampling in salt contaminated coastal farmland using EMI and continuous simulated annealing E. Scudiero*, R. Deiana, P. Teatini, G. Cassiani, F. Morari, <i>University of Padova, Italy</i>

[P2.27]	A least-cost path approach to stream delineation using lakes as patches and a digital elevation model as the cost surface S.J. Melles* ^{1,2} , N.E. Jones ² , B. Rayfield ³ , B. Schmidt ² , ¹ Trent University, Canada, ² Ontario Ministry of Natural Resources, Canada, ³ McGill University, Canada
[P2.28]	Evaluating the effects of land development policies on exurban forest cover based on agent-based models Y. Wang*, S.C. Li, Peking University, China
[P2.29]	Study on the oasisification process and its effects on soil particle distribution in the south rim of Tarim Basin in recent 30 years D.W. Gui* ^{1,2} , Y.W. Wu ^{1,3} , F.J. Zeng ^{1,2} , G.J. Liu ^{1,2} , J.Q. Lei ¹ , ¹ Xinjiang Institute of Ecology and Geography, CAS, China, ² Cele National Station of Observation and Research for Desert-Grassland Ecosystem, China, ³ Graduate University of the CAS, China
[P2.30]	Mapping activity/travel patterns using spatial statistics and space-time derived measures R. Dalumpines*, D.M. Scott, McMaster University, Canada
[P2.31]	Spatial analysis of forest fires clustering. Case study: Canton Ticino, Switzerland M. Kanevski ¹ , C. Vega Orozco* ¹ , M. Tonini ¹ , V. Timonin ¹ , M. Conedera ² , ¹ University of Lausanne, Switzerland, ² WSL Institute, Switzerland
[P2.32]	Geostatistics for spatial extremes. A case study of maximum annual rainfall in Portugal M.M. Neves* ¹ , D. Prata Gomes ² , ¹ Universidade Tecnica de Lisboa and CEAUL, Portugal, ² Universidade Nova de Lisboa and CMA, Portugal
[P2.34]	Spatial statistical PSE design and implement based on OGC WPS F.G. Kang*, C. Dong, Chinese Academy of Surveying and Mapping, China
[P2.35]	Dempster-shafer evidence theory for improved species distribution mapping A. Niamir* ^{1,2} , A.K. Skidmore ^{1,2} , R. Real ³ , A.G. Toxopeus ¹ , ¹ University of Twente, The Netherlands, ² Wageningen University, The Netherlands, ³ University of Malaga, Spain
[P2.37]	Probabilistic landslide hazard assessment using segmentation based homogenous susceptible units I. Das* ^{1,2} , A. Stein ¹ , N. Kerle ¹ , V. Dadhwal ² , ¹ University of Twente, The Netherlands, ² Indian Institute of Remote Sensing, India
[P2.38]	Nonparametric regression for functional spatial random fields with applications S. Dabo-Niang* ¹ , A.F. Yao ¹ , ¹ Université Lille 3, France, ² Université Aix-Marseille 2, France
[P2.39]	Spatial statistics of surface roughness change derived from multi-scale digital elevation models B.W. Tian*, L. Wang, K. Koike, Kumamoto University, Japan
[P2.40]	Spatial and time analysis of rainfall in the Tiber River Basin (central Italy) in relation to discharge measurements (1920-2010) E. Romano*, A.B. Petrangeli, E. Preziosi, CNR - Water Research Institute, Italy
[P2.41]	p { margin-bottom: 0.08in; } estimation and prediction in large spatial models using composite likelihood J. Eidsvik* ¹ , B. Shaby ² , B. Reich ³ , ¹ NTNU, Norway, ² Duke, USA, ³ NCSU, USA
[P2.42]	Spatial statistics methods in retail location research: A case study of Ankara, Turkey B.H. Ozuduru*, C. Varol, Gazi University, Turkey
[P2.43]	A web-based spatial modeling tool for assessing arsenic hazard in groundwaters in South-East Asia L. Rodríguez-Lado*, M. Amini, A. Johnson, Eawag: Swiss Federal Institute of Aquatic Science and Technology, Switzerland
[P2.45]	Spatial pattern of a plant after disperser loss. Dispersal limitation or habitat heterogeneity? J. Rodriguez-Perez* ¹ , T. Wiegand ¹ , A. Traveset ² , ¹ UFZ Helmholtz Centre for Environmental Research – Umweltforschungszentrum, Germany, ² Institut Mediterrani d’Estudis Avançats – IMEDEA, Spain
[P2.46]	Point pattern analysis of crown-to-crown interactions in mountain forests G. Vacchiano ¹ , E. Lingua* ² , R. Motta ¹ , D. Castagneri ¹ , ¹ University of Turin, Italy, ² University of Padova, Italy
[P2.47]	Spatial econometric models with very dense weighting matrices S. Farber ² , J. Mur* ¹ , ¹ University of Zaragoza, Spain, ² Ryerson University, Canada
[P2.48]	Dynamic allocation of weightages for desertification analysis using supervised training approach Y.Y.Y. Agarwadkar*, M.V. Khire, M. Bhattacharya, S. Azmi, M. Apte, CSRE, IIT Bombay, India
[P2.49]	Bayesian modeling of binary spatial data using clipped Gaussian-log Gaussian random field M. Jafari Khaledi ¹ , H. Zareifard* ¹ , F. Rivaz ² , ¹ Tarbiat Modares University, Iran, ² Shahid Beheshti University, Iran,
[P2.50]	Spatial Analysis of Flood Risk in Scotland M Franco-Villoria*, M Scott, T Hoey, D Fischbacher-Smith, University of Glasgow, UK
[P2.51]	Space-time universal Kriging model for leaf area growth in Eucalyptus globulus plantations: A weighted least squares fitting approach F. Montes* ¹ , M.J. Hernández ¹ , A. Ledo ² , P. Pita ² , ¹ CIFOR-INIA, Spain, ² Universidad Politécnica de Madrid, Spain

[P2.52]	On tail trend detection C. Neves* ¹ , L. de Haan ^{2,3} , A.M.G. Klein Tank ⁴ , ¹ University of Aveiro, Portugal, ² University of Tilburg, The Netherlands, ³ University of Lisbon, Portugal, ⁴ KNMI, Royal Netherlands Meteorological Institute, The Netherlands
[P2.53]	Spatial semi-parametric bootstrap method for analysis of kriging predictor of random field N. Iranpanah* ¹ , A. Mansourian ² , B. Tashayo ² , F. Haghighi ³ , ¹ University of Esfahan, Iran, ² K.N. Toosi University of Technology, Iran, ³ University of Alzahra, Iran
[P2.54]	An R implementation for Bayesian networks applied to spatial data M.P. Mello*, B.F.T. Rudorff, M. Adami, D.A. Aguiar, <i>National Institute for Space Research, Brazil</i>
[P2.55]	A combined spatial analysis of urban trip patterns and users' perceptions of transport modes M.A.N.D. Azevedo Filho* ^{2,1} , A.N. Rodrigues da Silva ¹ , ¹ University of Sao Paulo, Brazil, ² Federal University of Ceara, Brazil
[P2.56]	An application of spatial statistical techniques for the characterization of the seismicity of Valle del Cauca, Colombia. J.H. Garcés*, C. Mosquera, C.M. Peña, E.J. Salcedo, ¹ Universidad del Valle, Colombia, ² Director Observatorio Sismológico y Geofísico del Suroccidente colombiano, Colombia
[P2.58]	Copula models for correlated zero-inflated count data A. Monod*, <i>Ecole Polytechnique Fédérale de Lausanne, Switzerland</i>
[P2.59]	A methodological framework to quantify the spatial quality of biological databases J.R. García Márquez* ^{1,2} , J.H. Sommer ² , S. Da ² , M. Schmidt ¹ , O. Tackenberg ¹ , W. Barthlott ² , ¹ Biodiversity and Climate Research Center, Germany, ² University of Bonn, Germany

Friday 25 March 2011

Poster Session 3: Earth and Environmental Sciences

[P3.1]	Temporal variability of SPAD chlorophyll meter readings and its relationship to total nitrogen in leaves within a Malaysian paddy field A. Gholizadeh*, M.S.M. Amin, M.M. Saberioon, <i>University Putra Malaysia, Malaysia</i>
[P3.2]	Evaluation and comparison of some geostatistical methods for estimating the spatial variability of soil cation exchange capacity (CEC) F. Asadzadeh ¹ , M. Gorji ¹ , R. Sokouti ⁴ , R. Taghizadeh Mehrjardi ¹ , ¹ University of Tehran, Iran, ² Research Centre of Agricultural and Natural Resources of West Azerbaijan, Iran
[P3.3]	Using of Neuro-Fuzzy and Fuzzy-Kriging models for preparing of ground water quality map R. Taghizadeh-Mehrjardi ¹ , F. Dehghani ² , F. Asadzadeh ¹ , ¹ University of Tehran, Iran, ² Agricultural Research Center, Iran
[P3.5]	Comparing artificial neural network and multivariate linear regression models to predict soil organic carbon using digital terrain attributes S. Ayoubi*, A. Pilevar Shahri, <i>Isfahan University of Technology, Iran</i>
[P3.6]	Spatial prediction of nitrate concentration in drinking water using pH as auxiliary co-kriging variable J. Ghadermazi*, G. Sayyad, J. Mohammadi, A. Moezzi, F. Ahmadi, R. Schulin, <i>Agri-Jahad, Iran</i>
[P3.7]	The effect of aspect on soil spatial variability in central Zagros, Iran M.H. Salehi ¹ , I. Esfandiarpour ² , M. Sarshogh ² , ¹ Vali-e-Asr University, Iran, ² Shahrekord University, Iran
[P3.8]	Estimation of forest stand volume, tree density and biodiversity using Landsat ETM+ data, comparison of linear and tree regression analyses J. Mohammadi ¹ , S. Shataee ¹ , M. Babanezhad ² , ¹ Gorgan University of Agriculture and Natural Sciences, Iran, ² Golestan University, Iran,
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[P3.10]	Application of geographically weighted regression for modelling the spatial structure of urban heat island in the city of Wrocław (SW Poland) M. Szymanowski*, M. Kryza, <i>Institute of Geography and Regional Development, University of Wrocław, Poland</i>
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[P3.12]	Using spatial and spatial-extreme statistics to characterise snow avalanche cycles J.H. Wang ¹ , G.Y. Hu ² , J.X. Han ¹ , H. Zheng ¹ , ¹ Xi'an Shiyou University, China, ² China National Ocean Oil Corporation, China
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[P3.14]	Do spatial dependencies improve predictions of biodiversity in mountain pastures? M.K. Schneider*, U. Tschanz, A. Luescher, <i>Agroscope Reckenholz-Tänikon ART, Zürich, Switzerland</i>
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[P3.16]	Emergy-based ecological pressure analysis of land use in China Y. Gao*, Z. Feng, S.C. Li, <i>Peking University, China</i>
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[P3.19]	Influence of general earthworm abundance on short-range variability J. Palm ¹ , N.L.M.B. van Schaik ¹ , J. Klaus ² , E. Zehe ² , B. Schroeder ^{1,3} , ¹ University of Potsdam, Germany, ² Technical University of Munich, ³ Leibniz Centre for Agricultural Landscape Research (ZALF) e.V., Germany
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[P3.31]	Source identification by GIS-based receptor model applied to diffuse water pollution by perfluorinated compounds in Tokyo Bay Basin, Japan Y. Zushi*, S. Masunaga, <i>Yokohama National University, Japan</i>
[P3.32]	Uncertainties of forest mapping caused by the minimum crown cover criterion - a critical scale issue P. Magdon*, C. Kleinn, P. Beckschäfer, M. Schlather, <i>Georg-August-Universität Göttingen, Germany</i>
[P3.33]	Importance of outlier detection in spatial analysis of wind erosion M. Hosseinalizadeh* ¹ , F. Rivaz ¹ , R. Hedayatizadeh ¹ , ¹ <i>University of Tehran, Iran</i> , ² <i>Shahid Beheshti University, Iran</i> , ³ <i>Department of Environmental Protection, Southern Khorasan, Iran</i>
[P3.35]	Effect of land use change on spatial variability of soil water infiltration parameters S. Ghorbani Dashtaki* ¹ , M. Homaei ² , M. Mahdian ³ , B. Khalilmoghaddam ⁴ , ¹ <i>Shahrekord University, Iran</i> , ² <i>Tarbiat Modares University, Iran</i> , ³ <i>Soil Conservation and Watershed Management Research Institute, Iran</i> , ⁴ <i>Agriculture and Natural Resources University of Khuzestan, Iran</i>
[P3.36]	The association between physical activity levels and obesity at the micro-level in adults in Leeds, UK K.L. Edwards*, M. Malarman, <i>University of Leeds, UK</i>
[P3.37]	Using regression-kriging to detect change in reindeer spatial distribution in relation to human development A. Skarin* ¹ , L. Rönnegård ² , ¹ <i>Swedish University of Agricultural Sciences, Sweden</i> , ² <i>Dalarna University, Sweden</i>
[P3.38]	Is cellular automata algorithm able to predict the future dynamical shifts of tree species in Italy under climate change scenarios? a methodological approach M. Di Traglia ² , F. Attorre ¹ , F. Francesconi ¹ , R. Valenti ¹ , M. Vitale* ¹ , ¹ <i>"Sapienza" University of Rome, Italy</i> , ² <i>University of Molise, Italy</i>
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[P3.43]	Large-scale habitat prediction for Pacific sardine using satellite-sensed information J.P. Zwolinski*, R.E. Emmett, D.A. Demer, <i>NOAA NMFS Southwest Fisheries Science Center, USA</i> , ² <i>NOAA NMFS Northwest Fisheries Science Center, USA</i>
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[P3.49]	Forest habitat change dynamics in a riparian wetland S. Kollár* ¹ , Z. Vekerdy ² , B. Márkus ¹ , ¹ <i>University of West Hungary, Hungary</i> , ² <i>ITC, The Netherlands</i>
[P3.50]	Monitoring NO3 contamination of aquifer system of Bacia Do Cávado/Ribeiras Costeiras L. Margalho* ¹ , R. Menezes ² , I. Sousa ² , J. Silva ² , ¹ <i>ISEC, Portugal</i> , ² <i>Univ. Minho, Portugal</i>
[P3.51]	Fine-scale spatial distribution of microbial communities and soil nitrogen cycling following wildfire E.A.H. Smithwick ¹ , K.J. Naithani* ¹ , T.C. Balser ² , W.H. Romme ³ , M.G. Turner ² , ¹ <i>The Pennsylvania State University, USA</i> , ² <i>University of Wisconsin, USA</i> , ³ <i>Colorado State University, USA</i>
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[P3.56]	Assessing the costs and benefits of abating the adverse effects from fishing on fish habitat in a spatially explicit context: The swept area seabed impact model and its implications for commercial fishery management and policy C.K. Demarest* ¹ , B.P. Harris ² , ¹ <i>NOAA/NMFS/NEFSC, United States</i> , ² <i>University of Massachusetts at Dartmouth, United States</i>
[P3.57]	Spatial analysis of nitrates in a river network D. O'Donnell ¹ , E.M. Scott* ¹ , A.W. Bowman ¹ , M. Hallard ² , ¹ <i>University of Glasgow, UK</i> , ² <i>Scottish Environment Protection Agency, UK</i>
[P3.58]	Daily runoff forecast mapping - a tool for hazard warning in Norway K. Vormoor*, <i>Norwegian Water and Energy Directorate (NVE), Norway</i>
[P3.59]	Simulation of datasets using copulas: Application to soil moisture product D. Leroux* ^{1,2} , Y. Kerr ¹ , E. Wood ³ , R. de Jeu ⁴ , B. Berthelot ² , ¹ <i>CESBIO, France</i> , ² <i>Vega Technologies, France</i> , ³ <i>University of Princeton, USA</i> , ⁴ <i>Vrije Universiteit Amsterdam, The Netherlands</i>
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[P3.61]	Evaluation of heavy metal concentrations in mosses by non-parametric correlation analysis and decision tree models R. Pesch* ¹ , W. Schröder ¹ , H. Harmens ² , I. Ilyin ³ , ¹ <i>University of Vechta, Germany</i> , ² <i>Centre for Ecology and Hydrology, UK</i> , ³ <i>Meteorological Synthesizing Centre East of EMEP, Moscow, Russia</i>
[P3.62]	Ecologically coherent networks of marine protected areas - (spatial) statistical assessment techniques S. Ranft*, R. Pesch, W. Schröder, <i>University of Vechta, Germany</i>
[P3.64]	Methodology for the discrimination of areas affected by forest fires using satellite images and spatial statistics L. Bohórquez, I. Gómez, F. Santa*, <i>Distrital University, Colombia</i>
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