

CONTRIBUTED SESSIONS – TIES 2010

Affiliation refers to the speaker author when authors are more than one*

C1: Air quality monitoring and assessment	Date: Monday 21st June 2010
Chair: Stefania Gigho	Room: Manzanillo 1 & 2

12:15 pm	Laina Mercer*; Adam Szpiro; Lianne Sheppard; Sara Adar; Ryan Allen; Ed Avol; Assaf Oron; Tim Larson; L-J Sally Liu; Joel Kaufman, Department of Biostatistics, University of Washington, USA: Predicting concentrations of oxides of nitrogen in Los Angeles, CA using universal kriging
12:40 pm	Johan Lindström*; Adam A Szpiro; Lianne Sheppard; Paul D. Sampson; Assaf Oron; Tim Larson, University of Washington, USA: Do source dispersion models improve predictions of air pollution?
1:05 pm	Sara Rodríguez R*; Hortensia Reyes C; Gladys Linares F; Humberto Vaquera Huerta; Paulino Pérez R., *Facultad de Ciencias Físico-Matemáticas, BUAP, México: Best subset selection of variables for analyzing weather ozone.

C2: Statistics in Paleoclimate	Date: Wednesday 23rd June 2010
Chair: Yulia Gel	Room: Manzanillo 1 & 2

9:30 am	Peter Green, University of Otago, New Zealand: Generating Useful Pseudoproxies
9:55 am	Stan Yip, Exeter Climate Systems, University of Exeter, UK: An information-theoretic approach to quantify source of uncertainty in climate predictions
10:20 am	William F. Christensen*; Andrea L. Thomas; Summer Rupper, *Brigham Young University, Department of Statistics, USA: Characterizing the statistical properties and interhemispheric distribution of Dansgaard-Oeschger events

C3: Water quality monitoring and assessment	Date: Monday 20th June 2010
Chair: Renjun Ma	Room: Manzanillo 3

2:30 pm	Joseph Sebastian Paimpillil, Center for Earth Research and Environment Management, India: Water quality in inland waterways of low-lying areas of Vembanad wetlands and the low cost purification strategies.
2:55 pm	Shadananan Nair, Nansen Environmental Research Center, India: Assessment of water quality in a tropical wetland to maintain local water security
3:20 pm	Rafik Soltani*; Lizhi Xiao, Faculty of Natural Resources and Information Technology, University of Petroleum-Beijing, China : Surface-NMR

	Technology for Hydrogeophysical Exploration in South America and Southern Africa: Adaptive Neuro-Fuzzy Inference Systems for Detection of Very-Weak and Very-Noisy Groundwater Relaxation Signals
3:45 pm	Marisa Sagua*; Héctor Massone, Mónica Tomás, Centro de de Investigaciones Ambientales; Centro de Geología de Costas y del Cuaternario. Universidad Nacional de Mar del Plata. República Argentina: Social vulnerability in the risk assessment of groundwater contamination in peri-urban areas. Mar del Plata Balcarce Corridor. República Argentina

C4: Indicators of environmental change

Date: Monday 20th June 2010

Chair: Andrew Finley

Room: Manzanillo 3

12.15 pm	Sotirios Koukoulas, University of the Aegean, Dept. of Geography, Greece: Metrics and indices describing spatial patterns of agricultural landscape change at different ontological levels
12.40 pm	Ramachandran Ramasamy, Head of Policy, Capability and Research, The National ICT Association of Malaysia, Malaysia: Measuring e-Waste as an Integral of Environment Degradation Measurements
1:05 pm	Goicoa, T.; Militino, A.F*.; Ugarte, M.D., Public University of Navarra; España: Modelling aboveground tree biomass while achieving the additivity property

C5: Space-time modeling of environmental data I

Date: Wednesday 23rd June 2010

Chair: Fedele Greco

Room: Manzanillo 3

9:30 am	Toulemonde Gwladys*; Guillou Armelle; Naveau Philippe, Université Montpellier 2, France: Hidden Markov Models for Gumbel Maxima
9:55 am	Quanxi Shao*; Ming Li, CSIRO, Australia: A new trend analysis for seasonal time series with consideration of data dependence
10:20 am	Jan Kloppenborg Møller*; Henrik Madsen; Jacob Carstensen, Technical University of Denmark, Denmark: Identification of ecosystem parameters by SDE-modelling

C6: Space-time modeling of environmental data II

Date: Wednesday 23rd June 2010

Chair: Mike Hutchinson

Room: Manzanillo 3

11:15 am	Carolyn Huston*; Carl Schwarz; Steve Thompson, Simon Fraser University, Canadá: Bayesian Hierarchical Modeling of Salmon Migration
11:40 am	Daniela Cocchi*; Francesca Bruno; Alessandro Vaghegini, Department of

	Statistics "Paolo Fortunati", Alma Mater Studiorum University of Bologna, Italy: Finite population properties of predictors based on spatial patterns
12:05 pm	Pedro Sequera*; Lelys Guenni, Universidad Simón Bolívar, Departamento de Cómputo Científico y Estadística, Caracas-Venezuela: Analysis of the dependence between large scale climatic variables and rainfall in Venezuela using copulas
12:30 pm	Francesco Lagona*; Antonello Maruotti; Marco Picone, University Roma Tre, Italy: Mixtures of truncated distributions for validating marine data

C7: Monitoring and modeling of environmental systems	Date: Monday 20th June 2010
Chair: Melissa Dobbie	Room: Manzanillo 3

5:00 pm	R. Glèlè Kakaï*; W. Bonou, Faculty of Agronomic Sciences, University of Abomey-Calavi (UAC), Bénin: Characterisation of the habitat of an endangered species (Afzelia africana Sm.) in the Lama Forest reserve (Benin, West Africa)
5:25 pm	R. Glèlè Kakaï*, B. Sinsin, Faculty of Agronomic Sciences, University of Abomey-Calavi (UAC), Bénin: Structural description of two Isoberlinia dominated vegetation types in the Wari–Maro Forest Reserve (Benin)
5:50 pm	Marie-Pierre Etienne*; Shannon Obradovich; Lynne Yamanaka, Murdoch McAllister, AgroParisTech, France: Accounting for interspecific competition when building longline relative abundance indices.

C8: Environmental data issues	Date: Wednesday 23rd June 2010
Chair: Carenne Ludeña	Room: Manzanillo 3

4:15 pm	Ali S. Gargoum, Department of Statistics, United Arab Emirates University: Managing uncertainties associated with dispersal models in predicting the spread gaseous waste after an accident
4:40 pm	Hannah Regis*; Smail Mahdi, University of the West Indies, Cave Hill Campus, Barbados: Robust Regression Analysis
5:05 pm	Hugo Faria; Hugo Montesinos*; Daniel Morales; Universidad Simón Bolívar, Venezuela: From Institutions to Environmental performance: In the fight against ecological degradation

POSTER SESSION – TIES 2010

- 1) Lelys Guenni ; Pedro Sequera.; Jesús Yerena, Universidad Simón Bolívar, Depto. de Cómputo Científico y Estadística, Venezuela: **“Spatial and Space-time models for historical monthly rainfall in Venezuela”**
- 2) Desireé Villalta; Lelys Guenni, Universidad Simón Bolívar, Departamento de Cómputo Científico y Estadística, Venezuela: **“Spatio-Temporal models for risk mapping of malaria incidence in Sucre State, Venezuela”**
- 3) Rincón Gladys; Cremades Lázaro V.; Font Josep, Universidad Simón Bolívar Departamento de Procesos y Sistemas, Venezuela: **“Estimation of PM10/TSP Ratio: Air Quality Puerto La Cruz city, Venezuela”**
- 4) Karenia Córdova; Laura Delgado; Santiago Ramos, Universidad Central de Venezuela, Instituto de Geografía y Desarrollo Regional-Área de Energía y Ambiente-FHE-UCV: **“Spatial analysis of malaria outbreaks in Sucre state- Venezuela, and its relation to the surface temperature patterns, in the endemic region of Paria peninsula.”**
- 5) Danny Villegas; Tony García; Luis Piñero; Yary Pérez, UNELLEZ Guanare-Venezuela: **“Principal components analysis for corn (Zea mays) producers farms characterization in Guanare municipality, Portuguesa state, Venezuela in 2008 winter cycle.”**
- 6) Shafiqah A. Al-Awadhi ; Fahima Alawadhi, Department of Statistics and OR, Kuwait University: **“Spatial-Temporal Model for Ambient Air Pollutants in the State of Kuwait”**
- 7) Fernando Casanoves; Laura Pla; Julio A. Di Rienzo, CATIE, Costa Rica : **“f-Diversity: Statistical tools for functional diversity analysis”**
- 8) Maestroni B.; I.Ferris; R. Kookana; A. Cannavan; D. Byron; G. Dercon, International Atomic Energy Agency, Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, Department of Nuclear Sciences and Applications, International Atomic Energy Agency, Vienna, Austria: **“Sampling surface waters to monitor the effectiveness of good agricultural practices at a catchment scale”**
- 9) Rositsa Mladenova; Aleksandra Neykova; Deyana Shtereva, Toxicology Department, Plant Protection Institute, Bulgaria: **“Risk assessment of the pesticide residues from conventional agriculture in the catchment”**
- 10) Tanya Caceres; Megh Mallavarapu; Ravi Naidu, Centre for Environmental and Chemistry Studies, Quito, Ecuador: **“Biotransformation of the organophosphate fenamiphos by green algae and cyanobacteria”**
- 11) Maritza Cabrera; Gordon Taylor; Michelle Sims, School for Health University of Bath, UK: **“Geospatial and temporal modelling of Dengue in Zulia state, Venezuela (2002-2008)”**
- 12) Leon J.G.; Puerta A.; Rubiano J.; Calmant S.; Seyler F., Universidad Nacional de Colombia; Universidad del Valle Colombia: **“Monitoring water levels at upper and middle Orinoco Basin from ENVISAT virtual gauge stations.”**
- 13) Colotti, E.; A.E. Blanco, Universidad Central de Venezuela, Escuela de Geografía, Departamento de Geografía Física: **“Detection of inhomogeneities in climatic series: case Nueva Esparta, Venezuela.”**

- 14) Colotti, E., Universidad Central de Venezuela, Escuela de Geografía, Departamento de Geografía Física: **“Rainfall characterization in Nueva Esparta, Venezuela from a multivariate method”**
- 15) Freddy López, Instituto Venezolano de Investigaciones Científicas (IVIC) Venezuela: **“Spatial dependence of rainfall maxima. Two case studies (Poster)”**
- 16) Yessica Fermín, Instituto Venezolano de Investigaciones Científicas (IVIC) Venezuela: **“Spatio-temporal covariance model estimation of the Caroni River Basin rainfall”**
- 17) Serena Arima; Lorenza Cretarola; Giovanna Jona Lasinio; Alessio Pollice, Dipartimento di Studi Geoeconomici, Linguistici, Statistici e Storici per l'Analisi Regionale - Università di Roma "La Sapienza", Italy: **“Bayesian Univariate Space - Time Hierarchical Models for Mapping Pollutant Concentrations in the municipal Area of Taranto”**
- 18) Ray Correll; Milena Kovarova, Rho Environmetrics, Australia: **“Confidence limits with small sample sizes”**
- 19) Shahram Khalighi Sigaroodi; Shiva Ebrahimi, University of Tehran, Iran: **“Effects of land use change on surface water regime (Case study: Orumieh Lake of Iran)”**