

Contact: Prof. Olga Scarpati
olgascarpati@yahoo.com.ar

ISBN 978-987-9260-46-3.
458 pp.

Foreign: Cost (U.S. dollar): 35
Shipping and Handling (U.S. dollar): 30

Argentinos: Costo \$Arg. 90 + Gastos de envío.

ENVIRONMENTAL CHANGE AND RATIONAL WATER USE

Environmental change and rational water use



Olga E. Scarpati and J.A.A. Jones, eds.

INTERNATIONAL

ENVIRONMENTAL CHANGE AND RATIONAL WATER USE

Session 1. Management of surface and groundwater resources.

Págs	Author	Title
1	D. F. Barrera	THE FEASIBILITY OF HYDROLOGICAL FORECASTS USING PRECIPITATION ESTIMATES OBTAINED FROM GEOSTATIONARY SATELLITES
15	N. Lucioni and R. Díaz	ASSESSING THE LAND SUITABILITY FOR <i>EUCALYPTUS</i> AFFORESTATION IN THE LOWER SALADO RIVER BASIN OF BUENOS AIRES PROVINCE, ARGENTINA
24	B. Matossian, G. M. Barría, D. Goniadzki and R. Díaz	APPLICATION OF SATELLITE MONITORING AND GEOGRAPHIC INFORMATION SYSTEM FOR A WATER-EXCESS WARNING SYSTEM FOR THE RURAL AREA IN THE NORTH-WEST OF BUENOS AIRES PROVINCE, ARGENTINA
31	W. G. Reimers, G. Almeida and B. Scian	THE ROLE OF ATMOSPHERIC WATER VAPOR FLUX ON MONTHLY PRECIPITATION EXTREMES OVER THE LITORAL REGION OF ARGENTINA
42	D. F. Vergani, Z. B. Stanganelli, J. C. Labraga, J. C. Benedetti, M. Dunn	ANALYSIS OF IMPACT AND VULNERABILITY TO EL NIÑO AND LA NIÑA EVENTS IN RURAL COMMUNITIES OF CHUBUT PROVINCE, PATAGONIA, ARGENTINA
57	M. Bouza and B. Scian	HYDROLOGICAL AND SATELLITE INDEXES FOR MONITORING RAINFALL EXTREMES IN THE SEMIARID PAMPA REGION, ARGENTINA
68	R. A. Díaz, M.M. Puricelli, R.E. Godagnone	ESTIMATING SOIL HYDROLOGICAL PARAMETERS IN A RURAL AREA OF NORTHWEST BUENOS AIRES PROVINCE, ARGENTINA, WITH PEDOTRANSFER FUNCTIONS
77	M. J. García Montaldo and L. P. Schejtman	PUBLIC POLICY ANALYSIS UPON THE FLOOD PROBLEMS IN THE BASIN OF LA PICASA LAGOON, ARGENTINA
90	A. M. Liberali and O. H. Gejo	FLOODS AND THE PROCESS OF URBANIZATION IN ARGENTINA: THE CASE OF RESISTENCIA.
96	M. H. González A. E. Fernández	FLOODS INCREASING IN BUENOS AIRES

		SALADO RIVER BASIN, ARGENTINA
114	A. I. J. Vich, R. Ojeda, D. Cobos, A. Pedrani and E. Grünwaldt	ENVIRONMENTAL DEGRADATION AND FLOODING HAZARDS. PROPOSAL FOR ITS MITIGATION AND CONTROL IN CENTRAL WESTERN ARGENTINA
125	H. G. Rosatto , M. Presutti, C.A. Grau , E. De Luca, F. A Solari, A. L. Alvarez, M. Lapido and G. Botta	DEM QUALITY ASSESMENT BY RMSE CALCULATION IN THE ALTITUDE IN AREAS WITH LOW TO MEDIUM SLOPES.
139	Claudio R. M. Baigún John. M. Nestler Norberto O. Oldani Carlos Vionnet	APPLYING THE REFERENCE RIVER CONCEPT FOR LARGE RIVERS RESTORATION: USING AN INTERHEMISPHERIC APPROACH
146	J. A. Forte Lay, O E. Scarpati, L. Spescha and A. D Capriolo	DROUGHT RISK IN THE PAMPEAN REGION (ARGENTINA) USING SOIL WATER STORAGE ANALYSIS
169	Scarpati, O. E. , J. A Forte Lay, M. E. Fernandez Long and A. D. Capriolo	ENSO INFLUENCE ON SOIL WATER BALANCE AND TEMPERATURE IN PAMPEAN FLATLANDS WITH SPECIAL ANALYSIS TO SAN PEDRO AREA, ARGENTINA

Session 2. Methods for evaluating and monitoring the pollution of water resources

187	G. M.I. Sardi, L. I. Carbó, M. Flores, S. B. Gil and M. A. Herrero	WASTEWATER MANAGEMENT IN MILK PRODUCTION, PROBLEMS ASSOCIATED WITH THE USE OF WATER RESOURCES IN BUENOS AIRES PROVINCE, ARGENTINA
195	R. J. M. Serafini, S. Arreghini and A. R. Fabrizio de Iorio	COULD <i>SAGITTARIA MONTEVIDENSIS</i> BE USED IN PHYTOREMEDIATION STRATEGIES?
203	L. de Cabo, A. Rendina, S. Arreghini, A. García., M. Bargiela, M. J. Barros, M. S. Fortunato, V. Gemini, S. Rossi, J. Moretton, S. Korol, R. Serafini and A. F. de Iorio	BEHAVIOUR OF THE RIACHUELO CONTAMINANTS AND THEIR EFFECTS IN THE RÍO DE LA PLATA ESTUARY (ARGENTINA)
215	N. M. Yoshida, C. H. Moscuza, C. du Mortier, M. J. L. Castro and A. Fernández Cirelli	ENVIRONMENTAL EFFECTS OF THERAPEUTIC AGENTS USED IN VETERINARIAN MEDICINE
225	C. E. Fiorentino and C. N. Ferrarello	HYDROCHEMISTRY OF THE NAPOSTÁ GRANDE BASIN (ARGENTINA), AS A DIAGNOSTIC FOR SUSTAINABLE EXPLOITATION
236	A. Kirschbaum and G. Baudino	MONITORING GROUNDWATER QUALITY IN THE VAQUEROS FREE AQUIFER, SALTA PROVINCE, ARGENTINA

Session 3. Water ecosystems, their conservation and modeling

247	C. He and T. E. Croley	INTEGRATION OF GIS AND VISUALIZATION FOR DISTRIBUTED LARGE BASIN RUNOFF MODELING OF THE GREAT LAKES WATERSHEDS
261	M. G. Erechtkoukova	EXPLORATORY SIMULATIONS WITH SPARSE DATA IN INVESTIGATION OF AQUATIC ECOSYSTEMS
270	G. V. Zucarelli; D. F. Barrera; E. B. Ceirano, M. del V. Morresi	METHODOLOGIES FOR THE FLOW CALCULATION IN THE FELICIANO RIVER BASIN (ENTRE RÍOS PROVINCE, ARGENTINA)
281	B. A. Fritschy	VEGETATION PONDERING IN A SECTION OF THE MIDDLE PARANA RIVER. SANTA FE PROVINCE, ARGENTINA
294	F. Grosman, P. Sanzano and G. Rudzik	INCIDENCE OF LOCAL AND GLOBAL CHANGES ON THE DYNAMICS OF PAMPEAN SHALLOW LAKES: THE CASE OF BLANCA GRANDE, (ARGENTINA)
302	F. J. Gaspari, M. G. Leonard and I. Ohde Cornely	METHODS FOR ENVIRONMENTAL DEGRADATION DIAGNOSIS IN WATERSHEDS. ITS APPLICATION TO SAN TEÓFILO BASIN, BUENOS AIRES PROVINCE, ARGENTINA
310	L. de Cabo; R. Seoane; L. Uргу; M. E. Koutsovitis; A. Dini and I. Obertello	TEMPORAL EVOLUTION OF HYDROLOGIC VARIABLES IN FLOODED AREAS OF THE LAKE CHASCOMÚS BASIN (BUENOS AIRES PROVINCE, ARGENTINA) AND LAND REUSE: AN ANALYSIS
319	O. Díaz, V. Colasurdo, F. Grosman, P. Sanzano and N. López	CHEMICAL CHARACTERIZATION OF SEVEN PAMPEAN SHALLOW LAKES IN ARGENTINA
328	M. G. Cogliati , C. Palese and J. L. Lässig	MONITORING THE BUENOS AIRES LAKE (SANTA CRUZ PROVINCE, ARGENTINA) USING NOAA-AVHRR

**Session 4. New approaches to the evaluation and forecasting of changes
in water resources under global warming**

341	N. I. Alekseevskiy, N. L. Frolova and V. A. Zhuk	PREDICTING FLOODS AND THEIR EFFECTS IN THE NORTHERN EUROPEAN PART OF RUSSIA
353	L. E. Espizua and G. I. Maldonado	GLACIER VARIATIONS IN THE CENTRAL ANDES, MENDOZA PROVINCE ARGENTINA, FROM 1896 TO 2005
367	L. Serio and P. Martin	MONTHLY RAINFALL IN BUENOS AIRES CITY (ARGENTINA) (1861-2000) ANALYSED USING THE GAMMA DISTRIBUTION FUNCTION
377	J. C. Leiva, G. A. Cabrera and L. E. Lenzano	IMPACTS OF THE CLIMATE CHANGE ON THE WATER RESOURCES OF THE CORDILLERA DE LOS ANDES. A STUDY CASE: EVIDENCES, PROGNOSIS AND CONSEQUENCES IN THE UPPER BASIN OF THE MENDOZA RIVER, (ARGENTINA)

Session 5. The problems of sustaining freshwater supplies

389	T. Vardanian	THE TECHNOGENE CHANGES OF WATER COMPONENT OF THE ENVIRONMENT IN THE REPUBLIC OF ARMENIA (RA)
397	P. A. Khaiteer	STRESS DYNAMICS OF AQUATIC ECOSYSTEMS AND THE CONCEPT OF ECOLOGICAL MODIFICATIONS
410	B. M. Rosales	RESIDUAL USEFUL LIFE ESTIMATE OF THE BUENOS AIRES (ARGENTINA), DRINKING WATER NETWORK
418	J. M. Mendía and J. Sassi.	LAND USE CONDITION CHANGE INDICATORS IN IRRIGATED SOILS OF THE NEGRO RIVER HIGH VALLEY (ARGENTINA)
422	A. Puig	RAISING ENVIRONMENTAL AWARENESS ON AQUATIC POLLUTION IN THE MATANZA-RIACHUELO RIVER BASIN, ARGENTINA
436	A. R García, M. Massobrio, A. F. de Iorio	ACCUMULATION AND DISTRIBUTION OF NUTRIENTS IN THE SOIL OF A DEFLATION HOLLOW AFFECTED BY CATTLE FEEDLOT ACTIVITIES IN BUENOS AIRES PROVINCE, ARGENTINA
447	E. Suárez Montenegro	CIENAGAS EVALUATION TECHNIQUE IN PRECORDILLERA OF SAN JUAN PROVINCE, ARGENTINA