

XVIII Convegno AIAM 2015

"Nuove energie per alimentare l'agricoltura

□ *acqua, aria, suolo, piante, animali*"

San Michele all'Adige (TN), 9 - 11 giugno 2015

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Sessione 1 - Strumenti e sintesi per l'agricoltura di precisione

- ASSESSMENT OF AN INTEGRATING TEMPERATURE-DEPENDENT LIFE TABLE DATA INTO A MATRIX PROJECTION MODEL FOR DROSOPHILA SUZUKII POPULATION ESTIMATION - *Gianfranco Anfora, Marco Valerio Rossi Stacconi, Nik G. Wiman, Souvik Bhattacharya, Vaughn M. Walton, Alberto Grassi, Markus Neteler, Claudio Ioriatti, Andrea Pugliese*

- SITE SPECIFIC WEED MANAGEMENT: ASSESSMENT OF THE POTENTIAL OF UNMANNED AERIAL VEHICLES (UAV) - *Raffaele Casa , Fabio Castaldi, Federico Pelosi*
- PREVAGROMECA: AGROMETEOROLOGICAL FORECAST SYSTEM FOR FARM MECHANIZATION - *Stanislao Esposito, Barbara Parisse, Massimo Scaglione, Edmondo Di Giuseppe, Riccardo Scano, Maria Carmen Beltrano, Massimiliano Pasqui*
- APPLICATION OF THE EDDY—COVARIANCE TECHNIQUE DURING THE CIVIDATEX EXPERIMENT - *Marco Falocchi, Stefano Barontini, Lorenzo Giovannini, Dino Zardi, Roberto Ranzi*
- HYDRO-TECH: AN INTEGRATED DECISION SUPPORT SYSTEM FOR SUSTAINABLE IRRIGATION MANAGEMENT. FIELD TESTING RESULTS ON LATE PEACH VARIETY SHOWN IN THE FRAMEWORK OF INTERREG IRMA PROJECT - *Mario Zippitelli, Vito Buono, Erminio Riezzo, Luigi Trotta, Francesco Schiavone, Gennaro Laera, Angelo Petrelli, Vito Cantore, Mladen Todorovic*
- INTEGRATED MODELLING APPROACH FOR ASSESSING THE POTENTIAL RISK OF NITRATE GROUNDWATER POLLUTION ON REGIONAL SCALE: THE APULIA CASE. - *Angelantonio Calabrese, Valeria Ancona, Vito Felice Uricchio, Claudia Campanale, Luigi Trotta, Francesco Schiavone, Gennaro Laera, Angelo Petrelli*
- A HIGH-RESOLUTION SOLAR RADIATION ATLAS FOR THE TRENTO REGION - *Lavinia Laiti, Lorenzo Giovannini, Luca Panziera, Dino Zardi*
- FEM-MUSina: AN ARDUINO CONTROLLED IRRIGATION MACHINE FOR POTTED PLANTS. - *Giambattista Toller, Matteo Perini, Nicolò Orandini, Gianluca Berti*
- PRECISION VITICULTURE: EU PROJECT VINTAGE RESULTS - *Fausto Tomei, Antonio Volta, Gabriele Antolini, Vittorio Marletto, Benjamin Bois, Mario Rega*
- RECOGNITION OF WEED SPECIES THROUGH ARTIFICIAL VISION - *Linda Pieri, Dario Mengoli, Fiorenzo Salvatorelli, Marco Vignudelli, Lorenzo Marconi, Francesca Ventura*
- VERIFICATION AND VALIDATION OF A COMPUTER MODEL TO FORECAST METEOROLOGICAL QUANTITIES - *Francesca Ventura, Roberto Solone, Alberto Bertozzi, Ivano Valmori*
- THERMAL SUMMATION – FLOWER DIFFERENTIATION PHENOLOGY INTERPOLATION CURVE ON *FRAGARIA X ANANASSA* DUCH. CV ELSANTA - *Paolo Zucchi, Paolo Martinatti, Claudio Ioriatti*

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- AGROMETEOROLOGICAL DECISION SUPPORT SYSTEMS FOR VITICULTURE - *Gabriele Cola, Massimo Compagnoni, Luigi Mariani, Simone G. Parisi*
- A PROCEDURE FOR THE QUALITY CONTROL OF SURFACE RADIATION DATA - *Lavinia Laiti, Lorenzo Giovannini, Luca Panziera, Daniele Andreis, Fabio Zottele, Gianni Toller, Dino Zardi*
- webGRAS: A WEB APPLICATION TO ESTIMATE THE POTENTIAL FORAGE QUALITY - *Giuseppe Romano, Andreas Schaumberger, Arnold Bodner, Giovanni Peratoner*
- APPLICATION OF SATELLITE REMOTE SENSING IN THE MANAGEMENT OF IRRIGATION OPERATIONS IN AGRICULTURE: THE CASE OF SAN VITTORE - *Luca Domenico Sapia, Andrea Spisni, Vittorio Marletto, Giulia Villani, Gabriele Bitelli, William Praticcioli*
- TESTING 3 THERMOMETER SHIELD PERFORMANCE - *Giambattista Toller, Stefano Corradini*
- A TOOL FOR FORECASTING BERRY RIPENING OF THE SANGIOVESE VARIETY - *Antonio Volta, Paola Tessarin, Giulia Villani, Adamo Domenico Rombolà, Mario Rega, Benjamin Bois, Vittorio Marletto*

Sessione 2 - Cambiamenti climatici, sostenibilità ed energia

- SOIL GIVES A LOT. NOT TRAMPLE - *Abate Daga, Simonetta Alberico, Stefano Salata, Carolina Giaimo, Michele Munafò, Andrea Strollo, Orlando Cimino, Filiberto Altobelli*
- ASTRO: A PROJECT TO RECOVER, EXPLOIT AND SHARE THE HISTORICAL METEOROLOGICAL ARCHIVES OF TRENTO - *Maria Carmen Beltrano, Emanuele Eccel, Rocco Scolozzi, Marco Deromedi, Stanislao Esposito, Mariangela Aliazzo, Eleonora Gerardi, Margherita Falcucci, Riccardo Scano, Luigi Iafrate*
- MICROMETEOROLOGICAL CONDITIONS IN PIEDMONTANESE VINEYARDS - *Valentina Andreoli, Claudio Cassardo, Federico Spanna*
- RADIATION MEASUREMENTS IN PIEDMONTANESE VINEYARDS - *Valentina Andreoli, Claudio Cassardo, Federico Spanna*

- A RADAR-BASED SHORT-TERM CLIMATOLOGICAL ANALYSIS OF SEVERE STORM IN PIEMONTE, ITALY - *Roberto Cremonini, Claudio Cassardo, Irene Raccanelli, Federica Bogò, Renzo Bechini, Valentina Campana, Mattia Vaccarone*
- ENERGY PERFORMANCES AND GREENHOUSE GAS EMISSIONS OF TWO CROPPING SYSTEMS IN SWEET SORGHUM FOR THE BIOETHANOL SUPPLY CHAIN - *Laura D'Andrea, Pasquale Garofalo, Alessandro Vittorio Vonella, Michele Rinaldi, Angelo Domenico Palumbo*
- NEW CLIMATIC MAPS OF ITALIAN TERRITORY - *Stanislao Esposito, Roberta Alilla, Maria Carmen Beltrano, Giovanni Dal Monte, Edmondo Di Giuseppe, Flora De Natale, Luigi Iafrate, Angelo Libertà, Barbara Parisse, Elisabetta Raparelli, Massimo Scaglione*
- RADIATION USE EFFICIENCY OF A PERENNIAL BIONERGY CROP IN MEDITERRANEAN ENVIRONMENT - *Gianfranco Rana e Rossana M. Ferrara*
- A@GRES: E-GOVERNMENT MODEL OF THE APULIAN FOOD SECTOR TO ENCOURAGE THE ADOPTION OF CLIMATE CHANGE ADAPTING STRATEGIES - *Carmine Massarelli, Angelantonio Calabrese, Vito Felice Uricchio, Erminio Riezzo, Mario Zippitelli, Michela Del Prete, Luigi Trotta, Francesco Schiavone, Gennaro Laera, Angelo Petrelli*
- CREATION OF AN INNOVATIVE ALERT SYSTEM: FROM SPATIAL DATA TO PROCESSING SCENARIOS, APPLICATION IN THE FIELD OF NEW TECHNOLOGIES THROUGH METEO CLIMATIC MONITORING - *Angelantonio Calabrese, Carmine Massarelli, Vito Felice Uricchio, Erminio Efizio Riezzo, Mario Zippitelli, Nicola Dongiovanni, Stefania Napoletano, Apolonia Netti, Edoardo Celiberti, Luigi Trotta, Francesco Schiavone, Gennaro Laera, Angelo Petrelli*
- CLIMATE CHANGE AND HUMAN HEALTH: IPPOCRATE A NEW SYSTEM FOR THE PREVENTION THROUGH THE ENVIRONMENTAL MONITORING - *Angelantonio Calabrese, Vito Felice Uricchio, Domenico di Noia, Erminio Efizio Riezzo, Mario Zippitelli, Michele Toriello, Giorgio Pietro Maggi, Edoardo Celiberti, Donato Festa, A. Colaianni, Luigi Trotta, Francesco Schiavone, Gennaro Laera, Angelo Petrelli*
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- TIME-SCALE EFFECTS IN CARBON SEQUESTRATION BY AN APPLE ORCHARD INFERRED BY EDDY COVARIANCE, METEOROLOGICAL AND SATELLITE OBSERVATIONS - *Leonardo Montagnani, Massimo Tagliavini, Enrico Tomelleri, Damiano Zanotelli*

- EVOLUTION OF INSURANCE CONTRACTS IN AGRICULTURAL FIELD ACCORDING TO CLIMATE CHANGE - *Fiorenzo Salvatorelli, Francesca Ventura, William Pratzzoli*

- HIGH-RESOLUTION NUMERICAL SIMULATIONS OF WINTERTIME ATMOSPHERIC BOUNDARY LAYER PROCESSES IN THE ADIGE VALLEY DURING AN ALPNAP PROJECT FIELD CAMPAIGN - *Elena Tomasi, Lorenzo Giovannini, Dino Zardi, Massimiliano de Franceschi*

- WEATHER FORECAST SERVICES ON THE WEB: AN OPPORTUNITY FOR RESEARCH AND MODELLING - *Roberto Zorer, Luca Delucchi, Duccio Rocchini, Amedeo Fadini, Markus Neteler*

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- NITROGEN UPTAKE OF ANNUAL CROPS: A FIRST ASSESSMENT IN ITALY - *Filiberto Altobelli, Flavio Lupi, Giuseppe Pulighe, Marco Napoli, Simone Orlandini, Anna Dalla Marta*

- MITIGATION OF LIVESTOCK AND AGRICULTURE EMISSIONS IN EMILIA-ROMAGNA REGION: THE LIFE+ PROJECT CLIMATE CHANGE-R - *Vittorio Marletto, Lucio Botarelli, Fausto Tomei, Giulia Villani, Claudio Selmi, Teresa Pacchioli, Laura Valli, Carlo Malavolta*

- RELATIONSHIPS BETWEEN VERDE SPRING DISCHARGE, PRECIPITATION AND NAO INDEX IN ABRUZZO DURING - PERIOD - *A. Chiaudani, W. Palmucci, D. Di Curzio, S. Rusi*

- HELPSOIL - CONSERVATIVE TECHNIQUE IN AGRICULTURE TO PRESERVE NATURAL RESOURCES - *Carlo Tieghi, Silvia Renata Motta, Andrea Giussani, Marco Sciacaluga, Alberto Rocca, Carlo Riparbelli, Lorenzo Craveri, Stefano Brenna*

- A PROPOSAL OF WEATHER RADAR-BASED STORM SEVERITY INDEX FOR PIEMONTE, ITALY - *Roberto Cremonini, Claudio Cassardo, Irene Raccanelli, Renzo Bechini, Valentina Campana*

- BIOETHANOL PRODUCTION FROM CARDOON GROWN IN MEDITERRANEAN

- ENVIRONMENT - *Laura D'Andrea, Giuseppe De Mastro, Angelo Domenico Palumbo*
- PERENNIAL RHIZOMATOUS GRASSES GROWN AS BIOENERGY CROPS ON MARGINAL LAND - *Laura D'Andrea*
 - COMPETITION OF ENERGY CROPS FOR LAND USE - *Laura D'Andrea, Enrico Ceotto*
 - RELATIONSHIP BETWEEN THE NAO INDEX AND SOME INDICES OF EXTREME PRECIPITATION IN THE ABRUZZO REGION - *Bruno Di Lena, Lorenzo Vergni, Alessandro Chiaudani*
 - RELATIONSHIPS BETWEEN CIRCULATION PATTERNS AND WINTER MONTHS PRECIPITATION IN ABRUZZO REGION IN THE 1951 – 2009 PERIOD - *Alessandro Chiaudani, Lorenzo Vergni, Bruno Di Lena*
 - ClimClass AND ClimClassMap: TWO R-PACKAGES FOR CLIMATIC AND AGRO-BIOCLIMATIC INDICES. AN APPLICATION TO TRENTINO - *Emanuele Eccel, Emanuele Cordano,, Fabio Zottele , Giambattista Toller*
 - COMPARISON BETWEEN LINEAR AND NON-LINEAR MODELS FOR ESTIMATING GHG FLUXES BY STATIC CHAMBERS IN A ITALIAN PADDY - *Rossana M. Ferrara, Cristina Muschitiello, Alessandro E. Agnelli, Alessandra Lagomarsino*
 - SOIL CO₂ FLUXES BY GREEN MANURE: PEDOLOGICAL AND METEOROLOGICAL EFFECTS - *Rossana M. Ferrara, Roberta Rossi, Cristina Muschitiello, Pasquale Campi, Anna M. Stellacci, Angelo D. Palumbo, Francesco Fornaro, Michele Introna, Nicola Martinelli, Gianfranco Rana*
 - INVESTIGATION OF TEMPERATURE AND PRECIPITATION EFFECTS ON CONTROL LEVEL AND SUNN PESTS POPULATION IN ZANJAN - *Pegah Mollaei, Majid Khiavi, Sona Sarfi, Ahad Yaghmuri*
 - SPATIAL AND TEMPORAL VARIATION OF SOIL RESPIRATION IN RELATION TO ENVIRONMENTAL CONDITIONS IN A VINEYARD OF NORTHERN ITALY - *Luca Tezza, Franco Meggio, Nadia Vendrame, Andrea Pitacco*
 - EMERGENCE AND ROOTS DEVELOPMENT AFTER FEW DAYS FROM SEEDING IN MAIZE (*Zea mays* L.) ON NATURAL SOIL AND RECONSTITUTED ONE - *Paolo Manfredi, Roberta Salvi, Chiara Cassinari, Raffaella Battaglia, Adriano Marocco, Marco Trevisan*
 - ECOLOGICAL FOOTPRINT OF DIFFERENT GRAPE CULTIVAR IN VELLETRI FIELDS. - *Serra M.C. , Casadei G., Bevilacqua N. , Cecchini F. , Calanducci N. , Morassut M.*
 - COMPARISON OF NDVI BETWEEN MODIS (250m) AND MSG (4km) OVER FOREST AREA OF EMILIA-ROMAGNA FOR DROUGHT MONITORING - *Andrea Spisni, Enrico Muzzi*

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Sessione 3 - Qualità e tutela delle produzioni

- THE IMPACT OF HAILSTORMS ON THE ITALIAN WEATHER CLIMATE - *Paolo Caraccio, Cristian Rendina, Simona Busacca*

- ZONING OF THE GRAPE-GROWING AREAS OF THE DOP "TERRE DELL'ALTA VALDAGRI": RELIMINARY RESULTS OF A MULTICRITERIA CLIMATIC CLASSIFICATION. - *Pasquale Cirigliano, Giovanni Dal Monte*

- VERIFICATION OF THE DISCOMFORT INDEX FORECAST IN FRIULI VENEZIA GIULIA REGION - *Andrea Cicogna, Alessandro Gimona, Livio Stefanuto*

- ASSESSMENT OF EMERGENCY IRRIGATION NEEDS FOR VINEYARDS IN EMILIA-ROMAGNA - *Nicola Laruccia, Gabriele Antolini, Vittorio Marletto*

- MANAGING STRAWBERRY GROWTH CYCLE BY MEANS OF MOBILE ORCHARD TECHNIQUE: A SYNERGIC INTERACTION OF DIFFERENT CLIMATIC ENVIRONMENTS - *Paolo Martinatti, Paolo Zucchi, Lara Giongo*

- VALIDATION OF AN IMMIGRATION INDEX FOR THE APPLE JUMPING LOUSE *Cacopsylla melanoneura* IN TRENTINO - *Mario Baldessari, Stefano Corradini, Claudio Ioriatti, Valerio Mazzoni*

- QUALITY INDICATORS OF GROUNDWATER FOR IRRIGATION OF MEDITERRANEAN PLANT SPECIES - *Cristina Muschitiello, Pasquale Campi, Alejandra Navarro, Marcello Mastroilli, Rossana M. Ferrara, Gianfranco Rana*

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- WEATHER CONDITIONS AND IMPACT OF VINE DISEASES IN TRENTINO - *Maurizio Bottura, Franca Ghidoni*

- ANALYSIS OF YEARS OF MONTEPULCIANO GRAPE DELIVERY TO A WINERY IN THE ABRUZZI IN RELATION TO THERMAL AVAILABILITY - *Oriana Silvestroni, Nicola Pallini, Bruno Di Lena, Vania Lanari, Alberto Palliotti*

- PERFORMANCE OF INTERNATIONAL AND LOCAL TABLE OLIVE CULTIVARS IN NEW CULTIVATION AREAS OF SARDINIA - *Pierpaolo Pazzola, Marcello Cillara, Pierfrancesco Deiana, Sandro Dettori, Andrea Motroni, Mario Santona, Antonio Montinaro, Maria Rosaria Filigheddu*

- FROST PHENOMENA IN AN ALPINE VALLEY: RESULTS FROM THE GEPRI PROJECT - *Massimiliano de Franceschi, Dino Zardi, Lorenzo Giovannini*

- □ PRODUCTION AND HARVEST SCHEDULE OF CAULIFLOWER AND RADICCHIO IN THE MOUNTAIN AREAS OF SOUTH TYROL - *Martina Mayus, Arndt Kunick, Markus Hauser, Roland Zelger, Giovanni Peratoner*

- MULTI-CLIMATE EXTENSIBILITY ANALYSIS OF STRAWBERRY SEASONAL MIGRATION - *Paolo Martinatti, Paolo Zucchi, Paolo Vinante, Tommaso Pantezzi*
- □ MUTUAL INFLUENCES OF WEATHER STATIONS POSITIONING ON METEOROLOGICAL MEASUREMENTS - *Francesca Sanna,, Angela Calvo, Andrea Merlone*

E VOLUZIONE STORICA DEL CONCETTO “ CAMBIAMENTI CLIMATICI ” IN I TALIA :

I CONTRIBUTI PIÙ ORIGINALI E

SIGNIFICATIVI DEGLI ULTIMI QUATTRO SECOLI

. Iafrate L., Esposito S., Beltrano MC.

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HE ROLE OF AGRICULTURAL POLICIES IN CONDITIONING TH

E ADAPTATION OF IRRIGATED AGRICULTURE TO

CLIMATE CHANGE IN

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OMAGNA

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Guerra E., Galioto F., Raggi M., Viaggi D.

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PHEN PER LA FIORITURA DI ROBINIA

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RICALIBRAZIONE E SCENARI FENOLOGICI

. Alilla R., Cola

G., Epifani C., Fini N., Dal Monte G., Mariani L.,

Parisi S.