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## Sessione 1 - Cambiamenti climatici: mitigazione ed adattamento

- HISTORICAL DEVELOPMENT OF THE “CLIMATE CHANGE” CONCEPT IN ITALY: THE MOST ORIGINAL AND SIGNIFICANT WORKS IN THE PAST FOUR CENTURIES.

*Luigi Iafrate, Stanislao Esposito, Maria Carmen Beltrano*

- THE ROLE OF AGRICULTURAL POLICIES IN CONDITIONING THE ADAPTATION OF IRRIGATED AGRICULTURE TO CLIMATE CHANGE IN THE BURANA BASIN (EMILIA-ROMAGNA, ITALY).

*Francesco Galioto, Elisa Guerra, Davide Viaggi, Meri Raggi*

- CALIBRATION OF IPHEN MODEL FOR LOCUST TREE FLOWERING

*Roberta Alilla, Gabriele Cola, Chiara Epifani, Nicola Fiini, Giovanni Dal Monte, Luigi Mariani, Simone Parisi*

- MAPPING CROP EVAPOTRANSPIRATION: INTEGRATION OF VEGETATION INDICES INTO A SOIL WATER BALANCE MODEL

*Simona Consoli, Daniela Vanella*

- NAO INDEX AND WINTER PRECIPITATION IN ABRUZZO REGION

*Alessandro Chiaudani, Lorenzo Vergni, Bruno Di Lena*

- BIO-CLIMATIC CHARACTERIZATION OF GRANA PADANO PRODUCTION AREA

*Maria Segnalini, Stanislao Esposito, Andrea Vitali, Umberto Bernabucci*

- AGROSCENARI AND THE 2014-2020 RURAL DEVELOPMENT PROGRAMME

*Domenico Vento, Paolo Ammassari, Giovanni Dal Monte, Francesca De Lorenzi, Marcello Donatelli, Gabriele Dono, Stanislao Esposito, Vittorio Marletto, Francesco Masoero, Massimiliano Pasqui, Sergio Pellegrini, Luigi Perini, Sara Quaresima, Pier Paolo Roggero, Pieranna Servadio, Raffaella Zucaro*

- CHANGE OF DAILY RAINFALL IN MARCHE REGION IN THE PERIOD 1960-2012

*Stefano Leonesi, Danilo Tognetti*

- IDROCLIMA: A CLIMATOLOGIC MAPPING OF SOIL WATER CONTENT FOR TRENTINO  
*Emanuele Cordano, Fabio Zottele, Emanuele Eccel*
- THUNDERSHOWERS IN BOLOGNA: COMPARISON BETWEEN TWO THIRTY-YEARS RAINFALL SERIES  
*Roberto Solone, Francesca Ventura*
- WARM SPELLS/HEAT WAVES OVER ITALY AND THEIR IMPACTS ON ARABLE CROP PRODUCTION  
*Giovanna Fontana, Andrea Toreti*
- GREEN E BLUE WATER FOR THE CULTIVATION OF WINTER DURUM IN PUGLIA REGION (SOUTHERN ITALY)  
*Domenico Ventrella, Luisa Giglio, Monia Charfeddine*
- FOREST FIRE: EFFECTIVENESS OF METEOROLOGICAL RISK INDICES  
*Davide Coi, Andrea Selvini, Vittorio Marletto, Francesca Ventura*
- INFLUENCE OF OVER CANOPY MICROSPRINKLING EVAPORATIVE COOLING ON MATURATION CURVE OF EVERBEARING STRAWBERRY  
*Paolo Martinatti, Paolo Zucchi, Tommaso Pantezzi*

## **Poster**

- PHENOLOGICAL OBSERVATION AND MODELING OF WHEAT, BARLEY, SORGHUM AND MAIZE: 2003-2013  
*Francesca Ventura, Gabriele Cola, Fiorenzo Salvatorelli, Linda Pieri*
- OLIVE TREE FLOWERING ADAPTABILITY TO THE SPRING TEMPERATURE AMOUNTS IN DIFFERENT MEDITERRANEAN AREAS  
*Fátima Aguilera, Fabio Orlandi, Tommaso Bonofiglio, Luis Ruiz-Valenzuela, Carmen Galán, Monji Msallem, Consuelo Díaz-de la Guardia, María del Mar Trigo, Angelo Giannelli, Rosa Pérez-Badía, Ali Ben Dhiab, Marco Fornaciari*
- NITROUS OXIDE EMISSIONS FROM AGRICULTURE IN EMILIA-ROMAGNA  
*Gabriele Antolini, Giulia Villani, Aldo Dal Prà, Lucio Botarelli, Vittorio Marletto, Maria Teresa Pacchioli, Laura Valli*
- PERFORMANCE OF THE SPECIES ARUNDO DONAX L. FOR THE PRODUCTION OF BIOMASS AT DIFFERENT CULTIVATION INPUT  
*Tommaso Bonofiglio, Fabio Orlandi, F. Aguilera, Marco Fornaciari*
- ANALYSIS OF SEVERE HAILSTORM COMBINING NUMERICAL WEATHER PREDICTION MODELS, GROUND AND REMOTE SENSING OBSERVATIONS  
*Lorenzo Craveri, Orietta Cazzuli, Dario Bellingeri, Roberto Cremonini*
- THE IMPACT OF WATER STRESS ON GROWTH AND DEVELOPMENT OF CORYMBIA CITRIODORA THROUGH THE FRACTION OF TRANSPIRABLE SOIL WATER (FTSW)  
*Cleverson Henrique de Freitas, Marcel Carvalho Abreu, Fabrina Bolzan Martins*
- FITTING OF GAMMA DISTRIBUTION TO MONTHLY AND SEASONAL PRECIPITATION IN THE ABRUZZO REGION  
*Lorenzo Vergni, Alessandro Chiaudani, Bruno Di Lena*

- EVALUATING EARLY AUTUMN AND LATE SPRING FROST OCCURRENCE IN ZANJAN FOR REDUCING THE FROST DAMAGES

*Pegah Mollaei, Sona Sarfi*

- TRENDS ANALYSIS OF RELATIVE HUMIDITY AND WATER VAPOR PRESSURE IN EMILIA-ROMAGNA REGION IN THE PERIOD 1984-2013

*Davide Rondini, Francesca Ventura*

## **Sessione 2 - Innovazioni e tecnologie nella produzione integrata**

- INTERNATIONAL INITIATIVES TO PROMOTE CLIMATE SMART AGRICULTURE

*Federica Rossi, Nicola DiVirgilio, Camilla Chieco, Teodoro Georgiadis*

- ANALYSIS OF THE USE OF HIGH-RESOLUTION SATELLITE IMAGERY TO MONITOR THE VEGETATION OF DURUM WHEAT IN THE VAL D'ORCIA (TUSCANY)

*Marco Mancini, Anna Dalla Marta, Federico Guasconi, Francesca Orlando, Daniele Grifoni, Gaetano Zipoli, Giampiero Maracchi, Simone Orlandini*

- WEATHERPROG: A COMPUTER PROGRAM FOR THE AUTOMATIC HANDLING OF CLIMATIC DATA

*Giuliano Langella*

- VALIDATION OF A MODEL FOR TEMPERATURE AND PRECIPITATION FORECAST

*Francesca Ventura, Roberto Solone, Alberto Bertozzi, Ivano Valmori*

- TEMPERATURE AND PRECIPITATION ITALIAN CLIMATE ZONES: RELEASE OF RASTER IMAGERY

*Edmondo Di Giuseppe, Giovanna Jona Lasinio, Barbara Parisse, Stanislao Esposito*

- OMNIA: A NEW TOOL FOR METEOROLOGICAL DATA MANAGEMENT

*Andrea Cicogna, Roberto Medeossi, Andrea Bellan, Alessandro Gimona, Livio Stefanuto, Stefano Micheletti*

- SPATIO-TEMPORAL DISTRIBUTION OF CALIBRATED HARGREAVES-SAMANI COEFFICIENTS IN ITALY

*Barbara Parisse, Edmondo Di Giuseppe, Massimo Scaglione, Stanislao Esposito*

- THE AGROMETEOROLOGICAL SERVICES AND THE IMPLEMENTATION OF THE NATIONAL ACTION PLAN FOR THE SUSTAINABLE USE OF PESTICIDES

*Roberto Caterisano, Paola Cirone*

- ESTIMATION OF NITROGEN POLLUTION FROM AGRICULTURE AT THE REGIONAL SCALE

*Gabriele Antolini, Gabriele Bardasi, Lucio Botarelli, Andrea Chahoud, Daniele Cristofori, Emanuele Dal Bianco, Donatella Ferri, Vittorio Marletto, William Pratizzoli, Paolo Spezzani, Andrea Spisni, Giulia Villani*

- PROGETTO GECORSIST: SINTESI DELLE ATTIVITÀ

*Emanuela Gaia Forni, Simone Falzoi, Michele Pisetta, Chiara Boni, Tommaso De Gregorio, Voghera Giorgia, Laura Alemanno, Cristina Novara, Siniscalco Consolata, Federico Spanna*

- EVALUATION OF EPI FORECASTING MODEL WITH INCLUSION OF UNCERTAINTY

IN INPUT VALUE AND TRACEABLE CALIBRATION

*Francesca Sanna, Quirico Antonio Cossu, Guido Roggero, Simone Bellagarda, Roberto Deboli, Andrea Merlone*

- HIGH RESOLUTION AGROMETEOROLOGICAL MODELS SUPPORTING PRECISION VITICULTURE

*Fausto Tomei, Gabriele Antolini, Antonio Volta, Giulia Villani, Vittorio Marletto*

- SIGEVI- A DECISION SUPPORT SYSTEM FOR PROGRAMMING OF MANAGEMENT AND HARVEST OF WINE AREA

*Tiziana La Iacona, Federico Spanna, Marco Vitali, Andrea Molino, Paolo Mollo, Agata Tringale, Lara Marcellin, Carola Grossi, Sandro Pera, D'Angelone Carlo, Eberle Daniele, Giacoppo Salvatore, Persano Federico, Claudio Lovisolo*

**Poster**

- METEOROLOGICAL FACTORS INFLUENCE ON THE POLYPHENOLS CONTENT AND ANTIOSSIDANT ACTIVITY OF "VENDEMMIA VERDE" HARVEST

*Francesca Cecchini, Barbara Giannini, Massimo Morassut, Maria Cecilia Serra*

- EFFECT OF SUBSURFACE DRIP IRRIGATION ON MAIZE YIELD, WATER DYNAMICS AND NITROGEN LOSSES

*Mattia Fumagalli, Andrea Giussani, Lodovico Alfieri, Marco Carozzi, Davide Corno, Marcello Ermido Chiodini, Mattia Sanna, Alessia Perego, Marco Acutis*

- TRAINING SYSTEM INFLUENCE ON MICROCLIMATE, MATURATION AND YIELD OF 'ISABEL PRECOCE' GRAPEVINE

*Mário José Pedro Júnior, José Luiz Hernandez, Ludmila Bardin-Camparotto, Gabriel Constantino Blain*

- ESTIMATING SOIL MOISTURE BY ELECTRICAL RESISTANCE MEASUREMENTS

*Giambattista Toller, Daniele Andreis, Aldo Biasi, Alessandro Biasi, Stefano Corradini, Danilo Caset, Andrea Faustini, Ugo Paternolli, Ivan Piffer, Giacomo Sartori, Fabio Zottele*

- CALIBRATION OF THE ARMIDA MODEL FOR TWO DIFFERENT POTATO CULTIVARS (VIVALDI AND PRIMURA)

*Antonio Volta, Giulia Villani, Federico Carboni, Michela Giusti, Cesare Govoni*

- BUD BURST OF BLACK LOCUST: COMPARISON BETWEEN MODELS AND OBSERVATIONS

*Antonio Volta, Nicola Fiini, William Pratizzoli, Vittorio Marletto*

- OVER CANOPY MICROSPRINKLING IRRIGATION: AN APPLICATION TEST IN RAIN

## SHIELD HIGH TUNNELS

*Paolo Zucchi, Paolo Martinatti, Tommaso Pantezzi*

E VOLUZIONE STORICA DEL CONCETTO “ CAMBIAMENTI CLIMATICI ” IN ITALIA :

I CONTRIBUTI PIÙ ORIGINALI E

SIGNIFICATIVI DEGLI ULTIMI QUATTRO SECOLI

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

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AND ADAPTATION OF IRRIGATED AGRICULTURE TO

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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.