iCROPM
FLORENCE
2026

3rd International Crop Modelling Symposium

Crop Modelling for Agriculture and Food Security under Global Change

February 2–4, 2026

Palazzo degli Affari
Florence, Italy

Final Programme

WELCOME LETTER

On behalf of the Organizing Committee, it is our great pleasure to welcome you to Florence and to the 3rd International Crop Modelling Symposium (iCROPM2026), dedicated to "Crop Modelling for Agriculture and Food Security under Global Change."

We are delighted to have you here for these days of scientific exchange and discussion, at a time when agriculture faces unprecedented global challenges—from climate change and resource degradation to food insecurity and biodiversity loss. In this context, crop modelling continues to play a key role in advancing agricultural research, supporting informed decision-making, and strengthening the resilience of food systems worldwide.

During the symposium, iCROPM2026 will bring together researchers, model developers, experimentalists, and stakeholders from across the globe to share ideas and insights on crop modelling across diverse crops, systems, and regions.

The scientific programme is structured around five interconnected themes:

- ***Scientific and Methodological Advances in Crop Modelling***
- ***Climate Change: Impacts, Adaptation, and Mitigation***
- ***Sustainability, Ecosystem Services, and Biodiversity***
- ***Food Systems and Food Security***
- ***Decision-Making and Innovation Support***

We hope that, alongside a stimulating scientific programme, you will also enjoy the unique atmosphere of Florence—a city where art, science, and innovation have been intertwined for centuries.

We wish you a productive, inspiring, and enjoyable stay, and we look forward to meeting you during the symposium.

Welcome to Florence and to iCROPM2026!

PROF. MARCO BINDI
University of Florence – DAGRI
iCROPM Symposium Co-Chair

PROF. ROBERTO FERRISE
University of Florence – DAGRI
iCROPM Symposium Co-Chair

COMMITTEES

ORGANIZING COMMITTEE

Senthold Asseng	Technical University of Munich, Germany
Marco Bindi	Università degli Studi di Firenze, Italy
Frank Ewert	Leibniz Centre for Agricultural Landscape Research (ZALF), Germany
Roberto Ferrise	Università degli Studi di Firenze, Italy
Pierre Martre	INRAE, France
Heidi Webber	Leibniz Centre for Agricultural Landscape Research (ZALF), Germany

SCIENTIFIC COMMITTEE

Ioannis Athanasiadis	WUR, Netherlands
Bruno Basso	MSU, USA
Davide Cammarano	Aarhus University, Denmark
Andy Challinor	University of Leeds, United Kingdom
Karine Chenu	QAAFI, Australia
Marc Corbeels	CIRAD, France
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Sonali McDermid	NYU, USA
Christoph Müller	PIK, Germany
Jorgen Olesen	Aarhus University, Denmark
Taru Palosuo	LUKE, Finland
Willingthon Pavan	UFL, USA
Reimund Rötter	University of Göttingen, Germany
Martin van Ittersum	WUR, Netherlands
Martin Volk	UFZ, Germany
Katharina Waha	UNI-A, Germany
Enli Wang	CSIRO, Australia
Xuhui Wang	PKU, China

KEYNOTE SPEAKERS

Jessica Fanzo	Columbia Climate School, USA
Bing Liu	Nanjing Agricultural University, China
Daniel Rodriguez	University of Queensland, Australia
Cynthia Rosenzweig	NASA Goddard Institute for Space Studies, Columbia Climate School, USA
Lily-belle Sweet	Helmholtz Centre for Environmental Research, Germany
Christopher Topping	Aarhus University, Denmark
Joachim von Braun	Bonn University, Germany

PROGRAMME

Start time	End time	Monday 2 February 2026		
08:00	09:00	**Registration**		
		ROOM MODULO 1		
09:00	09:30	**Institutional Welcome and Opening** **Roberto Ferrise** – Organizing Committee **Alessandra Petrucci** – Rector of the University of Florence **Daniela Toccafondi** – President of Fondazione PIN Prato **Simone Orlandini** – Head of DAGRI-UNIFI, Vice-Director Accademia dei Georgofili		
09:30 10:00	10:00 10:30	**Plenary Keynotes** **Chair: Frank Ewert** **Cynthia Rosenzweig** – Why We Model: Scientific Advances, "What If" Questions, and Aids for Decision Making **Joachim von Braun** – Food Systems Transformation Needs – Challenges for Policy and Opportunities for Modelling Systems, Crops, and Food Security		
10:30	11:15	**Coffee Break** **Room Modulo 0 and Modulo B**		
		ROOM MODULO 1	**ROOM MODULO 2.1**	**ROOM MODULO 2.2**
		Advances in models Chair: Gerrit Hoogenboom	**Sustainability & ESS** Chair: M. Volk; M. Corbeels	**Decision making & Innovation** Chair: Davide Cammarano
11:15	11:39	**Spotlight Presentation** **Scott Chapman** – Integrating crop models with deep learning: from synthetic datasets to tunable algorithms	**Spotlight Presentation** **Luis Junghanns** – Global hotspots of future cropland expansion vs. intensification and impacts on biodiversity	**Spotlight Presentation** **Alex Ruane** – Machine Learning–Enhanced Crop Modeling with Multidimensional Data Assimilation for Agricultural Decision Support
11:39	11:51	**Ioannis Athanasiadis** – From theory to gradients: crop growth models for the AI era	**Iris Vogeler** – From Long-Term Experiments to Models: Evaluating Set-Aside as a Strategy to Reduce N Leaching in Intensive Cropping Systems	**Pepijn A.J. van Oort** – A potato digital twin for decision support
11:51	12:03	**Enli Wang** – Integrating molecular and physiological models improves genotype–phenotype prediction of wheat flowering time	**Mara Gabbrielli** – Process-based regional assessment of nitrogen dynamics in arable farms under increasing organic fertilisation	**Vijaya Joshi** – Leveraging GenAI for crop simulation model applications
12:03	12:15	**Pierre Martre** – Enhancing predictions through model component exchange: A case study on soil temperature models using Crop2ML	**Antoine Couëdel** – Assessing the performance of DayCent and STICS in simulating soil carbon and maize yield responses to contrasting organic resources in sub-Saharan Africa	**Malte von Bloh** – Growing Smarter: Hybrid Models for Crop Yield Prediction
12:15	12:27	**Teiki Raihauti** – LLM-assisted workflow for crop model components generation towards interoperable agricultural platforms	**Marijn van der Velde** – New European datasets on agricultural land use and farming practices from Earth Observation, survey, administrative sources, and model applications	**Andreas Tewes** – Near-daily 10-m LAI maps for farmers by combining crop growth model simulations and Planet's Biomass Proxy remote sensing product
12:27	12:39	**Poster Pitches** **Sawyer T.** – Statistical and crop growth model–based genomic prediction approaches for flowering time in raspberry	**Yuning Shi** – Developing 2-D and 3-D variants of the Cycles agroecosystem model for farm practice optimization and landscape design	**Poster Pitches** **Kern J.** – Frequent flyer: UAV-based crop model calibration

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12:27	12:39	**Poster Pitches** **Bassu S.** – Modelling the effect of early waterlogging on the phenology of wheat **Lee J.** – Machine learning surrogate for coupled leaf gas-exchange model **Wang C.** – Disentangling environmental and structural drivers of evapotranspiration simulation errors in wheat of semi-arid and Mediterranean region **Hendriks R.** – Modelling potato quality: How drought and nitrogen stress influence tuber size and dry matter concentration **Prigent S.** – From metabolomics to models: predicting functional traits and water-use strategies for crop resilience **Kim Y.** – Groundwater should be considered in crop risk assessment **Garre H.** – Methods to isolate contributions of individual stressors and their interactions to crop growth in agroforestry systems **Kang M.** – Bridging chlorophyll content and vertical nitrogen distribution for accurate canopy photosynthesis simulation **Takashi T.** – Functional–structural plant modelling as a tool for synthetic data generation for AI-driven applications		**Rinaldi M.** – Development of Easy Simulator Crop Model (EaSiCroM) for irrigation management in water scarce environments **Berger A.** – Using the critical nitrogen uptake curve to drive nitrogen demand within an in-season decision support system for wheat **Taulemesse F.** – Integral nitrogen fertilization management of bread wheat in France with FERTI-ADAPT CHN
12:45	14:05	**Lunch** **Room Modulo 0 and Modulo B**		
		ROOM MODULO 1		
14:05	14:35	**Plenary Keynotes** **Chair: Heidi Webber** **Jessica Fanzo** – Crop models for a climate- and nutrition-resilient future		
		ROOM MODULO 0 AND MODULO B – POSTER AREA		
14:40	15:30	**Poster session**		
		ROOM MODULO 1	**ROOM MODULO 2.1**	**ROOM MODULO 2.2**
		Advances in models Chair: Enli Wang	**Food Systems** Chair: Gatien Falconnier	**Decision making & Innovation** Chair: Willingthon Pavan
15:30	15:42	**Henrike Mielenz** – The AgMIP calibration protocol	**Seyyedmajid Alimagham** – Rebalancing macronutrient supply in sub-Saharan Africa: Climate-smart optimization of cereal–legume systems	**Claas Nendel** – Combining process-based modelling and remote sensing to quantify state-scale groundwater extraction for irrigation in Brandenburg, Germany

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15:42	15:54	**Samuel Buis** – Advances in CroptimizR and CroPlotR R packages for crop model parameter estimation and evaluation	**Mkuhlani Siyabusa** – Quantifying and analyzing planting date gaps in Sub-Saharan African maize systems: a hybrid approach	**Maximilian Zachow** – Integrating forecasted weather conditions into data-driven models for wheat yield forecasts before harvest
15:54	16:06	**Daniel Pasquel** – On the interest of using high-throughput field phenotyping and satellite data for crop model calibration	**Marloes P. van Loon** – Sustainable intensification of grain legume production in sub-Saharan Africa and the impact of climate change	**Nathalie Colbach** – FLORSYS: a mechanistic model bridging scientists, advisors and farmers for designing agroecological weed management
16:06	16:18	**Irina Heiss** – Improving phenology and yield predictions in APSIMx using exclusively public data: a reproducible calibration workflow	**Lioba Martin** – Capturing yield failure due to heat vs. drought in Germany	**Alex Ruane** – A Virtual Agricultural Innovations Laboratory (AVAIL) – Crop Model Data Assimilation and Machine Learning for Innovations in Iowa
16:18	16:30	**Delhez Laura** – Revealing carbon-water trade-offs in Daisy crop model using Pareto-based calibration	**Poster Pitches** **Simwaka P.** – Maize-soybean intercropping in Malawi: Assessing the APSIM capabilities and the feasibility of the cropping systems **Owuor C.A.** – Maize yield estimation in Kenya using Earth observation, artificial intelligence, and crop modelling **Aysegul C.** – Small-scale farmers critical to curbing deforestation linked to forest-risk commodities	**Meshach Ojo Aderele** – MLDNDC: A machine learning-based surrogate model for the optimisation of cropping systems in Denmark
16:30	17:10	**Coffee Break** **Room Modulo 0 and Modulo B**		
		ROOM MODULO 1	**ROOM MODULO 2.1**	**ROOM MODULO 2.2**
		Advances in models Chair: Enli Wang	**Climate change** Chair: Andrew Challinor	**Decision making & Innovation** Chair: Katrien Descheemaeker
17:10	17:22	**Alessandro Triacca** – A Process-Based Framework for Simulating Cereal–Grain Legume Intercropping Systems	**Marcos Lana** – What did climate-change scenarios of Swedish agricultural crop production predict for 2000 onward, and what actually happened?	**Krishnagopal Halder** – Forecasting End-of-Season Winter Wheat Yields Across Germany Using an Enhanced Temporal Fusion Transformer
17:22	17:34	**Júlia Rasera** – Modeling perennial fruit trees with DSSAT-CSM: integration and evaluation of TREEGRO	**Lisma Safitri** – Assessing Climate-Smartness of Agronomic Practices in Oil Palm Production Under Climate Change	**Michal Antala** – Remote Sensing Meets Crop Models: Improving Potato Yield Simulations under Diverse Management
17:34	17:46	**Vittoria Viglione** – The quest for balance between accuracy and robustness in crop model-aided genomic prediction	**Mathieu Delandmeter** – Potential of crop diversification and integrated crop-livestock systems for climate change adaptation and mitigation	**Amal Chakhar** – Drought stress monitoring for climate resilience: maize monocrop vs. intercrop in western Kenya
17:46	17:58	**Andrianasolo Fety Nambinina** – Operational parameterization of 800 soft wheat varieties: reconciling decision support with unequal levels of knowledge	**Alessia Perego** – Restoring Farming Systems: SOC and N_2O driven by practices and crops	**Lucas Nicolas Vitantonio-Mazzini** – Real-time crop modelling APIs for optimizing agricultural decisions
17:58	18:10	**Yvonne Stickler** – Integrating Process-Based and Data-Driven Models for Wheat Yield Prediction Under Variable Meteorological Conditions	**Nadia Testani** – Integrating stakeholder knowledge and crop modeling to assess climate adaptation options in Northern European agriculture	**Jamina Gabrielle Bondad** – Process-Based Detection of Drought Stress at Scale: Insights from Silage Maize and Winter Wheat Dynamics in Germany
		End of the day		

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		Tuesday 3 February 2026		
		ROOM MODULO 1		
09:00 09:30	09:30 10:00	**Plenary Keynotes** **Chair: Senthold Asseng, Marco Bindi** **Lily-belle Sweet** – Pathways towards trustworthy, transparent and transferable machine learning for agricultural modelling **Bing Liu** – Integrative adaptation strategies for stabilizing wheat productivity with climate warming in China		
		ROOM MODULO 1	**ROOM MODULO 2.1**	**ROOM MODULO 2.2**
		Advances in models Chair: Taru Palosuo:	**Climate change** Chair: Xuhui Wang	**Sustainability & ESS** Chair: J.E. Olesen; M. Volk
10:10	10:22	**Kenneth Boote** – Adapting the CROPGRO Model for Winter and Spring Field Peas	**Spotlight Presentation** **Simone Bregaglio** – Climate risk and suitability for European hazelnut (Corylus avellana L.) from expert knowledge, climate indicators, and process-based modelling	**Ahmad Manschadi** – Simulating competition, facilitation, and yield dynamics in cereal-legume intercrops – The SSM-InterCrop model
10:22	10:34	**Celine Schoving** – Enhancing soybean phenology in crop models to evaluate its suitability.		**Adam Muhammad Amad** – A conceptual intercomparison of intercropping models: Insights from model developers and expert users
10:34	10:46	**Royer Pierrick** – From measured traits to genotype-specific parameters: a modeling approach applied to maize phenology and development components	**Jonas Jägermeyr** – Addressing near-term climate impacts in agriculture – comparing decadal predictions with scenario-based projections	**Magdalena Schwartzkopff** – Increasing grass-clover ley duration and proportion in dairy crop rotations increases SOC but also increases N leaching
10:46	10:58	**Shinhye Lee** – Simulating seasonal dynamics of P and N concentrations in maize aboveground biomass using DSSAT CSM-CERES and CSM-IXIM	**Hélène Raynal** – Identifying new agrometeorological zones for lucerne in present and future European climates using STICS model	**Ermes Movedi** – Simulation of the interspecific dynamics of Mediterranean annual sown grasslands.
11:00	11:45	**Coffee Break** **Room Modulo 0 and Modulo B**		
		ROOM MODULO 1	**ROOM MODULO 2.1**	**ROOM MODULO 2.2**
		Advances in models Chair: Taru Palosuo:	**Climate change** Chair: Jonas Jägermeyr	**Sustainability & ESS** Chair: J.E. Olesen; M. Volk
11:45	11:57	**Montserrat Salmeron** – Uncertainties among soybean models in simulating N balance	**Niccolò Renzi** – Climate Change and Vineyard Irrigation in Tuscany: Environmental Impacts from a Multi-Model Perspective	**Giorgio Ragaglini** – Modelling the Impact of Animal Stocking Rate and Crop Diversity on N circularity of European Dairy Cattle Systems

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11:57	12:09	**Xin Ge** – An integrated energy balance framework for wheat leaf and spike under compound heat–drought stress	**Mareike Koester** – Climate change impact assessment on spring barley production across European environmental zones: Model-based projections using CMIP6	**Ixchel Hernandez Ochoa** – Optimizing crop allocation to improve field productivity and resilience under heterogenous soil conditions
12:09	12:21	**Joseph Vernier** – How can micro-climate simulation enhance plant growth modelling in complex environments?	**David Ahiamadia** – Predicting the impact of climate change on grass growth in the Republic of Ireland	**Dominik Behrend** – Continen-tal-scale differences in winter wheat transpiration between historic and modern cultivars
12:21	12:33	**Gerrit Hoogenboom** – Using the ICASA Data Dictionary to Incre-ase the "FAIRness" of Datasets for Crop Model Improvement and Applications	**Madina Diancoumba** – Biophy-sical assessment of sustainable intensification in Northern Ghana under current and +2 °c conditions	**Mirela Mujkic** – DSSAT modelling of cover crop residues and tillage effects on N dynamics and maize productivity in Mediterranean climate
12:33	12:45	**Xinxin Chen** – Bridging literature and models: a workflow for cre-ating agricultural datasets for model applications using AI	**Poster Pitches** **Yusara A.** – Estimating global soybean yield under multiple climate change projections using a process-based model MATCRO-Soy **Folberth C.** – Crop climate impacts and drivers across the CMIP6 ensemble and sub-en-sembles **Joshi M.** – Linking climatic suita-bility and productivity of dryland crops during the Holocene using EcoCrop and LPJmL models **Florian Z.** – Bitter or Better? The climate future of cocoa cultivation **De Freitas C.H.** – Shifting Calen-dars? Spatial Patterns of Arabica Coffee Anthesis and Maturation under Climate Change in Brazil	**Poster Pitches** **Cavalli D.** – Towards dynamic and integrated modelling of plant-microbe interactions for sustainable multispecies agroe-cosystems **Leolini L.** – Diagnostic vs. prognostic modelling approach to estimate ecosystem fluxes in grasslands **Katte A.S.** – An integrated mo-deling framework for assessing environmental and agronomic outcomes for farm typologies in Germany
12:50	14:20	**Lunch** **Room Modulo 0 and Modulo B**		
		ROOM MODULO 0 AND MODULO B – POSTER AREA		
14:20	15:10	**Poster session**		
		ROOM MODULO 1	**ROOM MODULO 2.1**	**ROOM MODULO 2.2**
		Decision making & Innovation Chair: Bruno Basso	**Climate change** Chair: Dilys MacCarthy	**Sustainability & ESS** Chair: M. Corbeels; M. Volk
15:10	15:22	**Ahmed Kheir** – Hybrid ML_Hi-sAFe_LCA framework for climate-smart agroforestry decision support	**Liangliang Zhang** – Accelerated Variety Replacement Need for Climate Adaptation of Maize and Rice	**Jing Yu** – Modelling relay crop-ping in Germany
15:22	15:34	**Cameron Simoleit** – Hybrid Trai-ning for the Prediction of Fungi on Winter Wheat	**Ehsan Eyshi Rezaei** – Warming winters enable water-saving shift to autumn sugar beet cultivation in Iran	**Audrey Irene Deheinzelin** – Di-sease regulation in intercropping systems depends on spatial arrangement – a modelling study

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15:34	15:46	**Allard de Wit** – Predicting BBCH crop growth stages across the EU for regulation of pesticide application	**Quanbo Zhao** – Air temperature thresholds of extreme heat exposure for maize and soybean in Northern Hemisphere breadbaskets	**Yushan Wu** – Modeling strip intercropping systems in APSIM Next Generation: The importance of strip width specification and intercrop traits
15:46	15:58	**Sahut Adèle** – A parsimonious mechanistic crop model for decision support in herbaceous perennial crops: A case study on Asparagus	**Yutaka Tsutsumi-Morita** – Fertilizer dependency of ground-level ozone impact on photosynthesis in rice: implications for crop modelling	**Corisande Douay** – Multi-model predictive analysis of apple scab for apple tree pest management
16:00	16:40	**Coffee Break** **Room Modulo 0 and Modulo B**		
		ROOM MODULO 1	**ROOM MODULO 2.1**	**ROOM MODULO 2.2**
		Decision making & Innovation Chair: Davide Cammarano	**Climate change** Chair: Chair: Xuhui Wang	**Food Systems** Chair: Martin van Ittersum
16:40	16:52	**Katrien Descheemaeker** – Enabling farmers' innovation with models: A framework for mobilizing crop models into participatory approaches.	**Frank Dentener** – Effect of change in surface ozone pollution during the 2020 COVID-19 lockdown on wheat yields in Europe.	**Spotlight Presentation** **Tom Desmarez** – Territorial food self-sufficiency under climate change through optimised crop rotations and STICS simulations
16:52	17:04	**Freeman Akaribo** – Agricultural systems modelling and stakeholder engagement: A review of approaches and impact in Sub-Saharan African	**Thuy Huu Nguyen** – Combining ozone-T-FACE experimental data and crop models to assess elevated ozone and temperature effects on wheat growth in China	
17:04	17:16	**Sara Elisabetta Legler** – Integration of crop models, agronomic knowledge and technology for the success of decision making in crop management	**Shaohui Zhang** – Uncertainty of the rising atmospheric CO2 concentration on the global wheat productivity	**Joao Vasco Silva** – Agronomy, not genetics nor climate change, explains wheat yield plateaus in high-yielding environments of Northwest Europe
17:16	17:28	**Sumit Kumar Vishwakarma** – Biomass and Yield Estimation of Rice-Wheat Cropping System Using UAV-based Machine Learning Algorithms and DSSAT Crop Model	**Edwin Haas** – Climate Impact Analysis of the full Nitrogen Balance with the LandscapeDNDC Model and EURO-CORDEX Ensembles for Greeces	**Sotirios Archontoulis** – Scaling APSIM to Benchmark and Adapt US Maize Production Through Hydrology, Genetics, and Management Integration
17:30	19:15	**Break**		
		ROOM MODULO 1		
19:15	20:30	**Juniors meet Pioneers: a dialogue on crop modelling across generations** **Poster Award Ceremony**		
20:30	22:30	**Social Event** **Floor 3 and 4**		

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Start time	End time	Wednesday 4 February 2026		
		ROOM MODULO 1		
09:00 09:30	09:30 10:00	**Plenary Keynotes** **Chair: Pierre Martre, Roberto Ferrise** **Christopher Topping** – Functional Biodiversity Modelling for Agricultural Systems: Lessons from Environmental Risk Assessment **Daniel Rodriguez** – Systems modelling for Agriculture and Food Security		
		ROOM MODULO 1	**ROOM MODULO 2.1**	**ROOM MODULO 2.2**
		Climate change Chair: Reimund Rötter	**Decision making & Innovation** Chair: Katrien Descheemaeker	**Food Systems** Chair: Christoph Müller
10:10	10:22	**Jonas Jägermeyr** – Simulating Productivity of Climate-Resilient Opportunity Crops Across Africa	**Thiago Berton Ferreira** – Assimilation of Remotely Sensed Data into the DSSAT-CSM model	**Luigi Ponti** – Enhanced food security under global change requires a tritrophic perspective
10:22	10:34	**Livia Paleari** – Modeling genetic adaptation to support food security under climate change. A case study on barley in Ethiopia	**Luca Bechini and Claudio Osvaldo Stockle** – When properly instructed, ChatGPT can provide accurate and site-specific irrigation decisions	**Yuji Masutomi** – Crop.MoniCast: A Global System for Crop Monitoring and Yield Forecasting
10:34	10:46	**Muhammad Habib-Ur-Rahman** – Adaptation strategies for winter wheat under climate change using CERES-Wheat and N-Wheat models and CMIP6 climate scenarios	**Annimari Hartikainen** – Data model for a digital twin of a field supporting interchangeable modelling approaches	**Christoph Müller** – Crop-model informed economic analysis of nitrogen tax effects on food production
10:46	10:58	**Asmae Meziane** – Modeling Adaptive Management Strategies: Yield Outcomes and Emission Implications	**Willingthon Pavan** – Expanding the Generic Disease Model for multi-disease, multi-cycle, and user-defined applications	**Claudio Russo** – Ensemble Modeling and Multi-Criteria Analysis for Biofuel on Italian Marginal Lands
11:00	11:35	**Coffee Break** **Room Modulo 0 and Modulo B**		
		ROOM MODULO 1	**ROOM MODULO 2.1**	**ROOM MODULO 2.2**
		Climate change Chair: Reimund Rötter	**Advances in models** Chair: Ioannis Athanasiadis	**Decision making & Innovation** Chair: Willingthon Pavan
11:35	11:47	**Dima Sabboura** – Modelling the carbon footprint of oat across environments for plant-based milk substitutes	**Thiago Berton Ferreira** – Simulating the Impact of Biotic Stresses on Wheat through Disease-coupled Multi-Model Ensembles	**Willingthon Pavan** – VISTAA – Virtual Intelligent Simulation Tool for Agriculture Advisor
11:47	11:59	**Lennart Jansen** – Attributable economic impacts of climate change for crop production in Germany are positive and significant	**Roberto Ferrise** – The FraNchEstYN modelling framework for the synchronous estimates of yield losses due to plant diseases	**Chiara Marchetti** – A model-based decision support framework for optimizing cultivar choice. A case study on Pisum sativum L.
11:59	12:11	**Julie Constantin** – Developing energy cover crops in France: potential production for biogas and greenhouse gas balance	**Cyrille A. Midingoyi** – AgriScale: A distributed framework for gridded crop model ensemble applications	**Offer Rozenstein** – Bridging the Gap: Integrating Remote Sensing Data with a Coupled Crop-Radiative Transfer Model for Improved Agricultural Decision Support

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12:11	12:23	**Til Feike** – The climate change mitigation potential of improved crop rotations – a long-term simulation study for Germany for the 21st century	**Marco Perfetto** – Estimating spatial and temporal variability of crop growth by radiation-driven models based on satellite data assimilation	**Elodie Ruelle** – On farm weekly grass growth prediction in Ireland, from the farm to national television
12:23	12:35	**Teresa Murgia** – Maize productivity under low-N input: a modelling approach to a future climate scenarios in Malawi	**Christina Mathias** – Towards improved modeling of sugarcane radiation use efficiency: temperature dependence, crop age effects, and model formalisms	**Angelo Basile** – Applying Digital Twins and Geospatial Cyber-Infrastructure to Agricultural Policy and Practice
12:35	12:47	**Danaë M.A. Rozendaal** – Can deforestation-free cocoa production meet demand by 2060 under climate change? A crop-modelling study	**Benjamin Dumont** – Does model formalization impact its ability to simulate high yielding situations : Lessons learned from a multi-model ensemble	**Guillaume Bruelle** – Potential of seasonal rainfall forecast to improve yields in sub-Saharan Africa: a proof of concept
12:50	14:20	**Lunch** **Room Modulo 0 and Modulo B**		
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		Climate change Chair: Andrew Challinor	**Advances in models** Chair: Gerrit Hoogenboom	**Sustainability & ESS** Chair: M. Volk; J.E. Olesen
14:20	14:32	**Anna Hampf** – Climate change impacts and adaptation strategies for smallholder farmers in Madagascar	**Mariely Lopes dos Santos** – Introducing the Radish Crop into the DSSAT-Cropping System Model	**Gatien Falconnier** – A credible crop model ensemble to simulate maize response to intensification and climate variability in sub-Saharan Africa
14:32	14:44	**Mathilde De Freitas** – Modelling cereal–cowpea intercropping to close the yield gap while reducing N demand under climate variability and climate change in West Africa	**Seong Eun Lee** – Crop yield prediction of kimchi cabbage based on model-informed machine learning approaches	**Yazen Al-Salman** – The drivers of water use efficiency in aerobic rice under tropical south Indian conditions
14:44	14:56	**Beatrice Monteleone** – Insights on the impact of climate change on maize production in Italy using Convection Permitting climate Models	**Corné Verburg** – Data-driven and interpretable crop growth modeling using sparse identification of nonlinear dynamics (SINDy)	**Christian Kersebaum** – The effect of using different pedotransfer functions on modelling crop yield, water and N fluxes
14:56	15:08	**Martina Clerici** – Modeling the impact of climate and management scenarios on olive production and olive tree-olive fly interaction	**Jingye Han** – DeepCGM-generic: A Deep Learning Based Crop Growth Model for Multi-Varieties	**Paul Southard** – Integrated Hydrologic Modeling to Quantify Hydrologic Impacts of Natural Small Water Retention Measures
15:08	15:20	**Raniero Della Peruta** – Coffee yields in a changing climate: insights from multi-scale process-based modelling	**Armen Kemanian** – Algorithm-driven root optimization for maize water uptake and yield in the Midwest	**Dilys MacCarthy** – Evaluating sustainable maize intensification strategies in smallholder farming systems in northern Ghana
15:20	15:32	**Gatien Falconnier** – Simulating water and nitrogen stress in maize and groundnut: Implications for climatic risk in sub-humid Zimbabwe	**Ines Astrid Tougma** – Integrating measurable-pool soil organic carbon and nitrogen into cropping system models	**Riccardo Rossi** – Optimizing nomadic beekeeping management through integrated phenological models and short-term weather forecasts
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Session: Food Systems and Food Security
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iCROPM FLORENCE 2026

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GENERAL INFO

Social Event – Tuesday, 3rd February 2026

The Social Event will take place at Palazzo degli Affari on Tuesday, 3rd February, starting at 7:15 PM in Modulo 1 (1st Floor), with the Juniors Meet Pioneers session and the Poster Award Ceremony, followed by a cocktail dinner on the 3rd and 4th Floors.

Access is strictly reserved for registered participants. Please note that entry will not be permitted without an official event badge, which must be worn at all times.

CONGRESS VENUE

Palazzo degli Affari

Piazza Adua, 1

50123 Florence

www.firenzefiera.it/en/spaces/palazzo-degli-affari/ground-floor

REGISTRATION OPENING HOUR

Monday, 2nd February 2026 – 8.00 – 17.30

Tuesday, 3rd February 2026 – 8.30 – 18.00

Wednesday, 4th February 2026 – 8.30 – 17.00

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