XIIIth STICS users seminar

WELCOME



13-16 November 2023 Latresne (33)





















Scientific committee

Stics coordinators

Durand Jean-Louis - INRAE/P3F

Buis Samuel - INRAE/EMMAH

Constantin Julie - INRAE/AGIR

Ferchaud Fabien - INRAE/Eco&Sols

Garcia de Cortazar Atauri Inaki – INRAE/AgroClim

Le Mouëllic Isabelle - INRAE/Agroclim

EPS Stics team

Organization committee

Braconnier Patricia – INRAE/ISPA

Combes Didier - INRAE/P3F

Garcia de Cortazar Iñaki - INRAE/Agroclim

Le Mouëllic Isabelle - INRAE/Agroclim

Louarn Gaétan – INRAE/P3F

Mollier Alain - INRAE/ISPA

Saint-Cast Clément – INRAE/EGFV

Seghouani Mounir - INRAE/ISPA

Vivin Philippe - INRAE/EGFV



Program

Tuesday 14th november 2023

	10.000.0, 11.000.000.000							
08:30	Welcome and coffee							
08:45	Seminar opening							
	Session 1 (Durand JL & Mollier A)							
09:00	Head of the AgroEcoSystem scientific division – Nesme T (visio) Deputy Director of Persyst Department of CIRAD – Justes E President of the Inrae Nouvelle-Aquitaine-Bordeaux center – Lavialle O President of the Inrae Nouvelle-Aquitaine-Poitier center – Escobar Gutiérrez A Bordeaux Sciences Agro – Ellies M-P/Henaff M Aérocampus director – Guitard C							
10:00	News on the work and governance of the STICS Project Team							
11:00	Coffee break							
11h30 Keynote: «"Is there Scope for Dynamic Crop Simulation Models in World? - A View From DSSAT"» - Gerrit Hoogenboom								
	Photo							
12:30	Buffet							



Gerrit HOOGENBOOM

Professor & Preeminent Scholar Agricultural and Biological Engineering Université of Florida













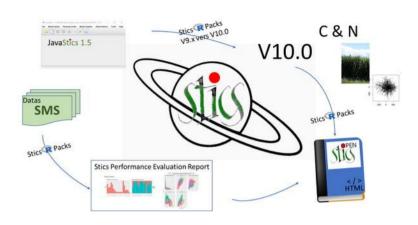








	Session 2 - New formalisms, configuration and evaluations of STICS (Leonard J, Raynal H, Dumont B)				
14:00	SticsRpacks: R packages for STICS, where are we? - Buis S – Lecharpentier P				
14:20	Development, deployment and execution of simulation workflows to study the impact of climate change on dairy farms – Chabrier P				
14:40	STICS ability to simulate long-term soil organic matter dynamics in crop-grassland rotations - Graux AI				
15:00	Modelling albedo and the energy budget using the STICS soil-crop model – Application to two Sub-Saharan sites – Diop S				
15:20	Using STICS under agrivoltaic shading conditions: How to consider the impact of panels on canopy and organs temperature? - Vernier J				
15:40	Flash presentation of posters (9 x 2')				
13.40	Flash presentation of posters (9 x 2')				
16:00	Coffee break				
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16:00 16:30	Coffee break Improvement of grapevine yield simulation in Champagne with the STICS model – Strullu L ISOP V10. Mise à jour du dispositif d'Information et de Suivi Objectif des Prairies (ISOP; INRAE				
16:00 16:30 16:50	Coffee break Improvement of grapevine yield simulation in Champagne with the STICS model – Strullu L ISOP V10. Mise à jour du dispositif d'Information et de Suivi Objectif des Prairies (ISOP ; INRAE - Météo-France – MASA) – Durand JL				
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Wednesday 15h november 2023

	08:30	Welcome and coffee				
		Session 3 - Modeling of cropping systems and biogeochemical cycles to support the agroecological transition (Louarn G)				
	08:45	Simulation of long-term water, nitrogen and carbon dynamics for contrasted arable cropping systems with the STICS model – Ferchaud F				
	09:05	Using a long-term experiment with a wide range of management practices to challenge N20 emission modelling with the STICS model – Belleville P				
	09:25	Predicting the short- and long- term effects of recycling organic wastes in cropping systems with the PROLEG tool – Levavasseur ${\sf F}$				
	09:45	Estimating CO2 fluxes (GPP, RECO, NEE) of diversified crop rotations from STICS outputs – Delandmeter M				
	10:05	Coffee break				
なるので	10:30	Conceptualization, formalisms and first evaluations of a phosphorus module for the STICS soil-crop model – Seghouani M				
	10:50	Impact of cover crops on N mineral fertilization and consequences for agro-environmental performances of maize monocrop in climate change context - Willaume M				
	11:10	Life cycle assessment of Quebec pig and poultry feedstuffs for the production of eco-friendly diets using the STICS model – Levraud M				
	11:30	Discussion				
	12:00	Poster session				
	12:30	Buffet				

		Session 4 - Cropping systems and climate change (Garcia de Cortazar Atauri I, Combe D)	Amphi		
	14:00	Adapting STICS-MILA crop model to Yellow Rust of Winter Wheat : from calibration to simulation of climate change impacts – Vidal T			
	14:20	Study of CO2 and temperature effects on wheat plant growth with the STICS crop model - Gawinowski M			
	14:40	Evolution under climate change of the resilience of the services provided by the cultivated areas of the Pays de Fougères – Graux Al			
	15:00	Spring barley yield and potential northward expansion under climate change in Canada – Jego G			
	15:20	Modeling agroecological intensification in the tropics with the Stics model – lessons learned and way forward – Couedel A			
	15:40	Coffee break			
	16:10	Potential production of energy cover crop in France: consequences on food crop production and environmental impacts based on scenarios simulation at high resolution – Launay C/Raynal H			
	16:30	Increasing soybean production in Europe: impact on cropping systems and environment – Constantin J			
	16:50	Discussion			
	17:30	Dominique Ripoche-Wachter			
7	18:30	Wine Casino	Hangar		
F	20:00	Gala dinner	Castle		
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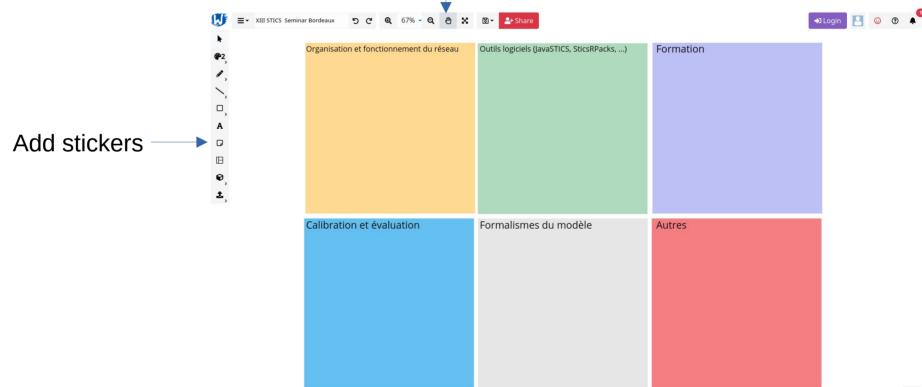
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	A STATE OF THE PARTY OF THE PAR	Tuesday 16 ^h november 2023	
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	08:30	Welcome and coffee	
		Session 5 - Intercropping (Saint-Cast C, Vivin P, Launay M)	
	08:45	Modeling key interactions in bi-specific intercropping systems: enhancing the STICS soil-crop model for sustainable agriculture – Justes E & Lecharpentier P	
	09:20	Intercropping cereals and legumes to stabilise yield in the tropics: evaluation of the STICS soil-crop model to simulate bi-specific intercrops – de Freitas M	
	09:40	The first calibration and evaluation of the STICS soil-crop model on chickpea-based intercropping system under Mediterranean conditions – Seghouani M	
	10:00	Discussion	
	10:15	Coffee break - Poster Session	
	10:45	General assembly and conclusion General Assembly	
	12:30	Buffet	Frank Land
3 11	14:00	End of the XIIIth STICS users seminar	The same of the sa
			Credit: ©Seghouani M



Brainwriting

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We wish you an excellent seminar