

Program for the 'Agricultural Land Use and Feedbacks in a Changing Climate' Conference 2019

Wednesday 24.04.19

Welcome and opening remarks		Aula, Hohenheim Palace
09:00 - 09:05	Stephan Dabbert , President of the University of Hohenheim	
09:05 - 09:15	Thilo Streck , Speaker of the DFG Research Unit 1695 'Regional Climate Change'	
Session 1.1 - Land Atmosphere Feedback		Session Chair: Kirsten Warrach-Sagi
Aula, Hohenheim Palace		
09:15 - 09:55	Keynote Speaker Sonia Seneviratne	Projecting changes at 1.5°C vs 2°C global warming: The role of land processes
09:55 - 10:15	Joachim Ingwersen	Coupling the land surface model Noah-MP with the generic crop growth model Gecros: Model description, calibration and validation
10:15 - 10:35	Kirsten Warrach-Sagi	ALCM – A crop model improving growing season temperatures in a regional climate model
10:35 - 10:45	Session Discussion	
10:45 - 11:15	Coffee Break	Foyer, Hohenheim Palace
Session 1.2 - Land Atmosphere Feedback		Session Chair: Kirsten Warrach-Sagi
Aula, Hohenheim Palace		
11:15 - 11:55	Keynote Speaker Michael Ek	Land-atmosphere interaction over agricultural regions
11:55 - 12:15	Florian Späth	The Land Atmosphere Feedback Observatory (LAFO): A novel sensor network to improve weather forecasting and climate models
12:15 - 12:35	Lisa Jach	Biogeophysical impacts of forestation in Europe: First results from the LUCAS Regional Climate Model intercomparison
12:35 - 12:45	Session Discussion	
12:45 - 13:45	Lunch	Balcony Room, Hohenheim Palace
Session 2.1 - Crop Response and Modeling		Session Chair: Andreas Fangmeier
Aula, Hohenheim Palace		
13:45 - 14:25	Keynote Speaker Håkan Pleijel	CO ₂ effects on wheat: response functions and meta-analysis
14:25 - 14:45	Petra Högy	Grain quality characteristics of wheat as affected by CO ₂ enrichment and heat waves
14:45 - 15:05	Florian Schierhorn	Impacts of climate change on wheat and barley yields in Kazakhstan
15:05 - 15:15	Session Discussion	
15:15 - 15:45	Coffee Break	Foyer, Hohenheim Palace
Session 2.2 - Crop Response and Modeling		Session Chair: Tobias K.D. Weber
Aula, Hohenheim Palace		
15:45 - 16:25	Keynote Speaker Frank Ewert	Crop modelling across spatio-temporal scales
16:25 - 16:45	Eckart Priesack	Development of Agro-Forestry Models to assess productivity and environmental protection capacity
16:45 - 17:05	Christian Troost	Crop Modelling and Operational, Tactical and Strategic Adaptation of Crop Choice and Management
17:05 - 17:15	Session Discussion	Decisions: The integrated bioeconomic modeling system MPMAS-Expert-N
Meet & Greet		Balcony Room, Hohenheim Palace
17:30 - 19:30	With drinks and nibbles	

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Thursday 25.04.19

Session 3 - Soil Carbon Turnover under Climate Change		Session Chair: Sergey Blagodatskiy	Aula, Hohenheim Palace
09:00 - 09:40	Keynote Speaker Carlos Sierra	Time scales of carbon sequestration in soils	
09:40 - 10:00	Christian Poll	Impact of warming on carbon cycling in an arable ecosystem	
10:00 - 10:20	Moritz Laub	Using proxies from mid-DRIFTS Spectroscopy and enzyme temperature sensitivities to improve soil organic matter modelling	
10:20 - 10:30	Session Discussion		
10:30 - 11:00	Coffee Break		Foyer, Hohenheim Palace
Session 4 - Climate Change Impact on Ecosystem Services		Session Chair: Christian Poll	Aula, Hohenheim Palace
11:00 - 11:40	Keynote Speaker Rachel Creamer	How can we assess the multi-functionality of our soils in a changing climate? From measurement to policy perspectives.	
11:40 - 12:00	Andreas von Heßberg	Revitalisation through grazing of abandoned mountain pastures (alms) in the alpine and pre-alpine regions under a changing climate	
12:00 - 12:20	Kevin Thellmann	Estimating hydrological ecosystem services under scenarios of land use and climate change in a mountainous watershed in Xishuangbanna, South-West China	
12:20 - 12:30	Session Discussion		
12:40 - 13:30	Lunch		Balcony Room, Hohenheim Palace
Poster Session			Blue Room, Hohenheim Palace
13:30 - 15:00			
15:00 - 15:30	Coffee Break		Foyer, Hohenheim Palace
Field Trip			
15:30 - 15:45	Walk to the field location		
15:45 - 16:05	Station 1 - LAFO		
16:05 - 16:25	Station 2 - HoCC		
16:25 - 16:45	Station 3 - Mini-FACE		
16:45 - 17:00	Walk to bus pick-up for the conference dinner		
Conference Dinner - Hohenneuffen Castle			
17:00 - 18:00	Travel to Hohenneuffen		
18:00 - 18:30	Reception at the Sun-Terrace		
18:30 - 22:00	Conference Dinner		
22:00 - 23:00	Travel back to Stuttgart, Hohenheim		

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Friday 26.04.19

Session 5.1 - The Future of Agricultural Land Use

Session Chair: Christian Troost

Euroforum

09:00 - 09:40	Keynote Speaker John Antle	Computational Science and the Future of Agricultural Land Use
09:40 - 10:00	Thorsten Arnold	Local impacts of increasing climate variability, and farmers' response strategies
10:00 - 10:20	Evelyn Reinmuth	Annual Risk Scores – integrating farmers inter-temporal risk perceptions in dynamic field planning simulations
10:20 - 10:30	Session Discussion	
10:30 - 11:00	Coffee Break	

Foyer, Hohenheim Palace

Session 5.2 - The Future of Agricultural Land Use

Session Chair: Christian Troost

Euroforum

11:00 - 11:20	Francisco Mendoza Tijerino	Bio-economic agent-based modeling of feedbacks between land use, farm machinery use and climate change in Southwestern Germany
11:20 - 11:40	Joachim Aurbacher	Using Bayesian Network Models to enable Interactive Modelling with Agricultural Stakeholders
11:40 - 12:00	Regina Birner	Future role of agricultural land use in the bioeconomy
12:00 - 12:20	Thomas Berger	Virtual Farms and Digital Twins: The Future of Agricultural Land-Use Modeling?
12:20 - 12:30	Session Discussion	
12:30 - 13:30	Lunch	

Balcony Room, Hohenheim Palace

Lessons learnt from the DFG Research Unit 1695 Regional Climate Change

Euroforum

13:30 - 14:00	Research Unit Speaker Thilo Streck
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Challenges to Land System Science and Modeling

Euroforum

15:00 - 15:30	Panel discussion
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Final Words & Poster Award

Euroforum

15:30 - 16:00	End of Conference
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