

Cross-sectoral ISIMIP and PROCLIAS Workshop 16-19 May 2022

ISIMIP Sectoral session	Keynote	PROCLIAS WG1	PROCLIAS WG2	PROCLIAS WG3	PROCLIAS WG4
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Time (UTC+2)	Monday 16 May	Tuesday 17 May	Wednesday 18 May	Thursday 19 May	
9:00-10:30	Registration	Plenary: Climate Impact Attribution and Uncertainty Assessment (PROCLIAS WG 2) (9:00-10:30)	Plenary: Cross-sectoral climate impacts (PROCLIAS WG 3) (9:00-10:45)	Sector meeting: Fisheries and Marine Ecosystems (8:00-9:00)	
10:30-12:30	Sector meeting: Lakes (10:30-12:30)	Sector meeting: Water regional (1) (10:30-12:30)	Coffee Break (10:30-11:00)	Sector meeting: Water regional (2) (9:30-11:30)	
			Break-out sessions: <ul style="list-style-type: none"> • Vulnerability and exposure modeling • Water Quality (TG3.9) (11:00-12:30) 	Break-out session: Open exchange on methods for climate impact attribution (11:00-12:30)	Parallel Break-out sessions: Cross-sectoral climate impacts (TG3.5, 3.7, 3.11) (11:00-12:00)
12:30-13:30	Lunch Break				
13:30-14:30	Opening Session Keynote: Johan Rockström (PIK) (13:30-14:30)	Keynotes: Cath Senior (Met Office) Jakob Zscheischler (UFZ) (13:30-14:30)	Plenary: Communication and dissemination of climate impacts (PROCLIAS WG 4) (13:30-15:00)	ISIMIP Chelsa workshop (13:30-18:30)	
	5 min Break	5 min Break	5 min Break		
14:35-15:45	Plenary: ISIMIP data and protocols (PROCLIAS WG 1) (14:35-15:45)	Sector meeting: Labour (14:35-15:35)	Sector meeting Biomes, Fire, Permafrost (14:35-15:35)		Closed Session: ISIMIP SAB meeting (15:00-16:30)
15:45-16:10	Coffee Break and Group Photo (15:45-16:10)	Coffee Break and Poster session (15:35-16:15)			
16:10-17:40	Parallel Break-out sessions: ISIMIP data and protocols (TG1.1, 1.2, 1.3, 1.7) (16:10-17:40)	Parallel Sector meetings: Water global, Health, Agriculture, Energy fluctuations and Extremes, Peat (16:15-18:15)			
17:40-19:00	Welcome Reception (17:40)	Conference Dinner (18:30)			
19:00		Conference Dinner (19:00)			

Detailed Program

Monday 16.5. (note that on Monday we will have two slots with parallel sessions)

Time (UTC+2)	Session	Session organisers (Chair in bold)	Venue
9:00-10:30	<u>Registration</u>		A56: Atrium
10:30-12:30	<u>Sector meeting: Lakes</u> - Input data for ISIMIP3 - Ongoing analysis using lake sector ISIMIP data - Changes in protocol for ISIMIP3	Wim Thiery , Rafael Marcé, Don Pierson, Daniel Mercado-Bettín	A56: Conference hall
	<u>Sector meeting: Water regional (1)</u> - State of publications on attribution and detection - Presentation of studies - The planned Special Issue	Fred Hattermann , Valentina Krysanova	
12:30-13:30	Lunch Break		A56: Conference hall
13:30-14:30	<u>Opening session</u> - Introductory Keynote : “tba” (Johan Rockström) - Welcome, ISIMIP and PROCLIAS news and awards ceremony (Katja Frieler, Christopher Reyer)	Katja Frieler, Christopher Reyer	A56: Conference hall
5 min break			
14:35-15:45	<u>Plenary: ISIMIP data and protocols for climate impact modeling (PROCLIAS WG 1)</u> - Overview of PROCLIAS WG1 (Laura Dobor/Wim Thiery) - ISIMIP3: Simulation protocol and available forcing data (Katja Frieler) - ISIMIP3: land use patterns (TG1.1) (Miodrag Stevanovic) - ISIMIP3: High-resolution climate forcing data (TG1.7) (Dirk Karger) - ISIMIP: Automatic quality check / quality assessment of impact model output (TG1.2) (Hannes Müller Schmied) - PROCLIAS TG1.3: New data (Ann van Griensven/Alo Laas) - “Data for climate impact attribution in Europe” (Dominik Paprotny)	Laura Dobor , Wim Thiery, Stefan Lange	A56: Conference hall
15:45-16:10	Coffee break and Group Photo , to be continued		

16:10-17:40	<u>Break out session 1: ISIMIP Land use patterns (TG 1.1)</u>	Miodrag Stevanovic, Christopher Reyer	A56 Telepresence room (0.38)
	<ul style="list-style-type: none"> - Follow-up questions and discussion from the plenary talk - Discussion about what additional documentation on model assumptions etc. is needed by impact modellers - Discussion on the development of future global land-use patterns for impact simulations, especially for ISIMIP3b 		
	<u>Break out session 2: ISIMIP High resolution climate forcing data and experiments (TG 1.7)</u>	Dirk Karger, Stefan Lange, Christopher Reyer	A56 Conference hall
	<ul style="list-style-type: none"> - ISIMIP3a: Overview of the high-resolution sensitivity experiment - ISIMIP3a: Overview of the associated ADOHRIS project - ISIMIP3a: (tentatively) Some early results of the sensitivity experiment - ISIMIP3a: Direct human forcing data for the sensitivity experiment - Alternative approach: Global climate modeling at the kilometer scale - input from and discussion with Andrew Gettelman (climate modeler from NCAR) 		
16:10-17:40	<u>Break out session 3: Automatic quality check / quality assessment of impact model output (TG 1.2)</u>	Hannes Müller Schmied	House H, VR1
	<ul style="list-style-type: none"> - Quality control as operational tool (isimip-qc) and goal to fill in the plausible ranges - Generating ideas and sharing experiences about quality assessment tools across sectors - Real world examples from the global water sector - Develop next steps for both tools and involvement in the TG 		
16:10-17:40	<u>Break out session 4: New data (TG 1.3)</u>	Ann van Griensven, Alo Laas	House H, VR3
	<ul style="list-style-type: none"> - New data from remote sensing for (lake) modeling (Alo Laas) - Model evaluation using satellite based evapotranspiration (Ann van Griensven/James Celary Chawanda/Albert Nkwasa) - Further suggestions and feedbacks on new data from the audience 		
18:00	<u>Welcome Reception</u>		A56: Terrace in front of Conference hall

Tuesday 17.5. (note that on Tuesday we will have three slots with parallel sessions)

Time (UTC+2)	Session	Session organisers (Chair in bold)	Venue/Zoom link
9:00-10:30	<p><u>Plenary: Climate Impact Attribution and Uncertainty Assessment (PROCLIAS WG 2)</u></p> <ul style="list-style-type: none"> - 9:00: Overview of PROCLIAS WG2 (Elvira de Eyto, Matthias Mengel) - 9:15: Climate litigation (TG2.2; Inga Menke) - 9:20: Uncertainty assessment (TG2.3; Diaz Yanez Olalla) - 9:25: ISIMIP attribution and where it stands (Matthias Mengel) - 9:45: Discussion on ISIMIP attribution (Matthias Mengel) - 10:00: Climate impact attribution using hist-nat simulations from GCMs (TG2.1; Lukas Gudmundsson) 	Matthias Mengel, Elvira de Eyto	A56 Conference hall
10:30-11:00	Coffee Break		
11:00-12:30	<p><u>Parallel session 1: Vulnerability and exposure modeling</u></p> <p>10 mins presentations + 2 mins Q&A:</p> <ul style="list-style-type: none"> - 11:00-11:12: "Risk modelling for climate adaptation" (Chris Fairless) - 11:12-11:26: "Climate-resilient Adaptation in Uganda - Climate Risk Analysis with CLIMADA" (Arun Rana) - 11:26-11:38: "Uncertainty and sensitivity analysis for climate impact assessment and adaptation options appraisal modeling with CLIMADA" (Chahan Kropf) - 11:38-11:50: "Globally consistent tropical cyclones impact forecast system for population displacement" (Pui Man Kam) - 11:50-12:02: "Downscaling FireMIP output to a suitable scale for probabilistic wildfire risk assessment of economic impacts" (Carmen Steinmann) - 12:02-12:14: "Rapid changes in return periods of heat-related mortality extremes" (Samuel Lüthi) - 12:14-12:26: "Many-hazard Risk Assessment with the CLIMADA Data API" (Zélie Stalhandske) 	Christian Otto	A56 Conference hall
	<p><u>Parallel session 2: Water Quality (TG3.9)</u></p> <ul style="list-style-type: none"> - Development of water quality protocol(s) 	Maryna Strokal , Simon Gosling, Rafael Marcé, Martina Flörke, Michelle van Vliet	A56 Telepresence room (0.38)
	<p><u>Parallel session 3: Open exchange on methods for climate impact attribution</u></p> <ul style="list-style-type: none"> - What are climate impacts? - What does "climate impact attribution" mean? - How does climate impact attribution relate to classical climate change attribution? - What is needed for (quantitative) attribution statements we can trust? 	Veronika Huber , Lukas Gudmundsson	House H, VR1
12:30-13:30	Lunch break, to be continued		A56 Conference hall

13:30-14:30	Keynotes <ul style="list-style-type: none"> - Cath Senior: "The future direction for CMIP and climate modelling" - Jakob Zscheischler: "Progress and challenges in compound event research" 	Stefan Lange	A56 Conference hall
5 min break			
14:35-15:35	Sector session: Labour <ul style="list-style-type: none"> - "Incorporating adaptation in climate impacts on labour impacts - a framework" (Shouro Dasgupta, Elizabeth JZ Robinson, Simon Gosling) - Case studies and deep-dives (Israel) 	Shouro Dasgupta	A56 Telepresence room (0.38)
	Sector session: Biomes/Fire/Permafrost <ul style="list-style-type: none"> - Biomes/Fire/Permafrost Sector Overview and Simulation Status (Christopher Reyer, Jinfeng Chang, Eleanor Burke, Fang Li, Chantelle Burton, Stijn Hantson) - "Attributing globally observed permafrost warming to anthropogenic climate change" (Lukas Gudmundsson) - "Towards a new burned area data set for fire model evaluation" (Seppe Lampe) 	Christopher Reyer, Jinfeng Chang, Eleanor Burke, Fang Li, Chantelle Burton, Stijn Hantson	A56 Afrika (3.14)
15:35-16:15	Coffee Break & Poster Session <ul style="list-style-type: none"> - "Heat and precipitation extremes will occur closer together in a warming world. Assessing low-likelihood, high-impact events using large ensembles of climate model simulations" (Laura Suarez-Gutierrez, et al.) - "Present and future regional trends in lake and reservoir levels" (Inne Vanderkelen, Wim Thiery) - "Using interpretable machine learning to identify compound meteorological drivers of crop yield failure" (Lily-belle Sweet, Jakob Zscheischler) - "Assessment of people safety during climate change-driven coastal urban flooding" (Agnieszka Indiana Olbert, Jennifer Kirkpatrick) - "Detection and attribution of flow and sediment load in the Nile basin" (Albert Nkwasa, Annika Schlemn, Celray James Chawanda, Ann van Griensven) - "Climate Analog Approach for the Adaptation of Winter Wheat to Climate Change in France" (Burak Bulut, Mathieu Vrac, Nathalie de Noblet-Ducoudré) - "Future projections of the West Nile virus risk in Europe" (Diana Erazo) 		A56 Conference hall
to be continued			

16:15-18:15	<u>Sector meeting: Water global</u> <ul style="list-style-type: none"> - “Water scarcity assessment and multiple model intercomparison” (Junguo Liu) - “A comparison of global hydrological models using hydrological signatures” (Sebastian Gnann) 	Simon Gosling, Hannes Müller Schmied	A56 Conference hall
	<u>Sector meeting: Energy fluctuations and extremes</u> <ul style="list-style-type: none"> - Discuss recent progress with regard to the review paper - Illustrate the use of ISIMIP data for energy system modeling - Discuss the modeling protocol 	James Glynn, Michelle van Vliet, Christian Otto	House H, VR3
	<u>Sector session: Health</u> <ul style="list-style-type: none"> - Health sector overview: Simulations status, publications related to simulation round ISIMIP2, possible collaborations within the health sector community and across ISIMIP sectors - Open round to present projects - “Deadly Heat Exposure in an Urbanized World” (Steffen Lohrey) - Development of the ISIMIP3 health sector protocols - Datasets and models available within the health community; e.g., mortality rates, AC, other socio-economic data, regional exposure-response functions for heat-related mortality, etc. 	Iliusi Vega del Valle	House H, VR1
	<u>Sector session: Agriculture</u> <ul style="list-style-type: none"> - “Climate impacts on global agriculture emerge earlier in new generation of climate and crop models” (Jonas Jägermeyr) - “Acceleration, deceleration and reversal of changes across global warming levels by region and farm system from the ISIMIP/AgMIP GGCM crop model ensemble” (Alex Ruane) 	Jonas Jägermeyr, Sam Rabin	A56 Telepresence room (0.38)
	<u>Sector session: Peat</u> <ul style="list-style-type: none"> - 16:15 ISIMIP protocols general introduction - 16:25 New peat protocol - 16:35 Feedback and discussion - 16:45 Introduction to MOTHERSHIP and upcoming workshops and planned outputs - 16:55 General discussion and AOB 	Sarah Chadburn, Angela Gallego-Sala, Noah Smith, Michel Bechtold	A56 Afrika (3.14)
19:00	<u>Joint Dinner (on own costs)</u>		Augustiner im Bürgerbahnhof, Park Sanssouci

Wednesday 18.5. (note that on Wednesday we will have two slots with parallel sessions)

Time (UTC+2)	Session	Session organisers (Chair in bold)	Venue/Zoom link
9:00-10:45	<p><u>Plenary: Cross-sectoral climate impacts (PROCLIAS WG 3)</u></p> <ul style="list-style-type: none"> - Introduction to PROCLIAS Working Group 3 and its Task Groups (Simon Gosling and WG3 Task Group Leads) - “Cumulated worst and best cases projected climate-related cross-sectoral risks will all have emerged before 2050” (Audrey Brouillet) - “The kids aren’t alright” (Wim Thiery) - “JRC recent developments in climate risk assessment, PESETA and beyond” (Juan-Carlos Ciscar) - “Heat stress, labour productivity and adaptation in Europe - a regional and occupational analysis” (Wojtek Szewczyk) - “Forecast of temperature-attributable mortality at lead times of up to 15 days for a very large ensemble of European regions” (Marcos Quijal-Zamorano) - “Climate impacts on global agriculture emerge earlier in new generation of climate and crop models” (Jonas Jägermeyr) 	Simon Gosling, Jacob Schewe , Shiri Zemah-Shamir, Louis-Francois Pau	A56 Conference hall
10:45-11:00	Break		
11:00-12:00	<p><u>Parallel session 1: Heat-related mortality (TG3.11)</u></p> <ul style="list-style-type: none"> - Progress on the HEWS catalogue, - Study design and preliminary results of the joint TG3.11+MCC paper - Alternative ways of integration adaptation to heat-mortality studies 	Aleš Urban	House H, VR1
	<p><u>Parallel session 2: Cross-sectoral risk assessment / uncertainty (TG3.7)</u></p> <ul style="list-style-type: none"> - Follow-up discussions on workshop in April 	Wojtek Szewczyk , Juan Carlos Ciscar	A56 Conference hall
	<p><u>Parallel session 3: PROCLIAS Task Group on Agroecology (TG3.5)</u></p> <ul style="list-style-type: none"> - Explain scope and on-going work - Recruit submissions for the Belgrade workshop. 	Louis-Francois Pau, Tatjana Dragičević Radičević	A56 Telepresence room (0.38)
11:30-13:00	<u>Closed session: Paper writing related to previous workshop in Venice (2021)</u>	Shouro Dasgupta	A56 Europa (0.24)
12:00-12:30	<p><u>‘hot model’ issue in CMIP6 climate projections</u></p> <ul style="list-style-type: none"> - Presentation of the commentary “Climate simulations: recognize the ‘hot model’ problem” by Hausfather et al. (2022, Nature, https://doi.org/10.1038/d41586-022-01192-2) (Stefan Lange) - Invited comments: Colin Jones (Project Head of the UKESM Core Development Team) - Open discussion 	Jacob Schewe	A56: Conference hall
12:30-13:30	Lunch Break, to be continued		

13:30-15:00	<u>Plenary: Communication and dissemination of climate impacts (PROCLIAS WG 4)</u> <ul style="list-style-type: none"> - Introduction to the PROCLIAS Working Group 4 progress so far and upcoming changes (30 min) - TG 4.2 Stakeholder mapping: Current and Expected Outcomes (Liliana Zaharia, Gabriela Ioana-Toroimac) - New TG 4.4: ISlpedia (Martin Park) - Visualisation of ISIMIP Data in the EUCRA context (Hans-Martin Füssel) - What can go wrong in science communication? (Richard Black) (30 min) - The role of science in closing the knowledge-action gap of the climate crisis (Veronika Huber) (30 min) - Future/new activities, spontaneous Break out groups can form 	Inga Menke, Ann van Griensven, Martin Park	A56 Conference hall
5 min Break			
15:05-15:40	<u>Parallel session 1: PROCLIAS Stakeholder Mapping within WG4:</u> <ul style="list-style-type: none"> - Current progress and expected outcomes 	Liliana Zaharia, Gabriela Toroimac	A56 Telepresence room (0.38)
	<u>Parallel session 2: The role of science in closing the knowledge-action gap of the climate crisis</u> <ul style="list-style-type: none"> - Continuation of the plenary discussion 	Veronika Huber	A56 Conference hall
	<u>Parallel session 3: General brainstorm on new task groups in WG4</u> <ul style="list-style-type: none"> - Any ideas and new TGs are welcome to join 	Inga Menke	A56 Asien (2.33)
	<u>Parallel session 4: ISlpedia (TG 4.4) & Data Visualization (tbc)</u> <ul style="list-style-type: none"> - How to feature your research on ISlpedia 	Martin Park	A56 Afrika (3.14)
15:40-16:00	Coffee Break		
16:00-17:30	<u>Keynotes and wrap up</u> <ul style="list-style-type: none"> - Camille Parmesan: "Observed Impacts of Climate Change: From Species to Ecosystem Processes" - Brian O'Neill: "Large-scale impact modeling and the Key Risks of climate change" - Closing remarks (Katja Frieler) 	Katja Frieler	A56 Conference hall
18:30	<u>Joint Dinner (on own costs)</u>		TBA

Thursday 19.05. (note that on Thursday we will have one slot with parallel sessions)

Time (UTC+2)	Session	Session organisers (Chair in bold)	Venue/Zoom link
8:00-9:00	<p>Sector meeting: Fisheries and Marine Ecosystems</p> <ul style="list-style-type: none"> - 8:00-8:30 Session Keynote talk: "The potential impacts of climate change on agriculture and fisheries production in 72 tropical coastal communities" (Joshua Cinner, James Cook University): a cross sectoral paper about to be published applying both FishMIP and AgMip CMIP6 results - 8:30-9:00 "Towards FishMIP 2.0: Building Confidence in FishMIP Global and Regional Marine Ecosystem Models" (Julia Blanchard, University of Tasmania): this will cover our current 3a protocol and next steps for FishMIP this year and beyond 	Julia Blanchard	A56 Asien (2.33)
9:30-11:30	<p>Sector meeting: Water regional (2)</p> <ul style="list-style-type: none"> - State of publications on attribution and detection - Presentation of studies - The planned Special Issue 	Fred Hattermann , Valentina Krysanova	A56 Telepresence room (0.38)
10:00-11:30	<p>Sector meeting: Forest</p> <ul style="list-style-type: none"> - ISIMIP Forest sector overview (2b data, 1*1km experiment, country scale simulations) (C. Reyer) - Towards a bottom-up assessment of the climate sensitivity of Europe's forests (Marc Gruenig, Werner Rammer) - "Assessing the impact of drought and heatwaves on European forest tree mortality and productivity for the last two decades extreme events" (Tarunsinh Chaudhari) - "Application of the process based model 3D-CMCC-FEM to simulate the productivity at regional scale in Basilicata (Italy)" (Daniela Dalmonech) 	Christopher Reyer , Mats Mahnken	A56 Asien (2.33)
11:30-11:45	Break		
11:45-18:30	<p>ISIMIP Chelsa workshop</p> <ul style="list-style-type: none"> - Basic concept of the downscaling - Overview of the code structure, modules, classes, functions, saga_api - Ingesting the ISIMIP3_BA data - Preparing the input data for a limited spatial extent - Running the model (Parameters, Parallelization, slurm, singularity) - <i>for further information see separate program</i> 	Stefan Lange , Dirk Karger	A56, Telepresence room (0.38)