

# Cross-sectoral ISIMIP and PROCLIAS Workshop 22-26 April 2024

**For exact session timings please refer to the detailed agenda;** please note that the program and indicated venues may change slightly for individual sessions

Time (UTC+2)	Monday 22 April	Tuesday 23 April	Wednesday 24 April		Thursday 25 April			Friday 26 April			
9:00-9:30	Registration	Registration	Side event <b>FireMIP</b>	Registration	PROCLIAS WG <b>TG3.11:</b> Heat warning catalogue	Sector meetings <b>Fire/Peat; Water Quality; Forests (TG2.5)</b>	<b>PROCLIAS highlights</b> from WG's 1-4			ISIMIP results and closing remarks  10-15 min presentations	
9:30-10:00											
10:00-10:30				Sector meeting <b>Fisheries</b>	Opening session <b>ISIMIP/PROCLIAS updates and highlights</b>	PROCLIAS WG's <b>TG1.2</b> QC/QA <b>TG3.2</b> Impact of heat on labour <b>TG4.2</b> Stakeholder mapping	<b>Early Career Session</b> Perspectives on future research pathways	Sector meeting <b>Water regional</b>			
10:30-11:00											PROCLIAS <b>TG2.1</b> State of the art and ways forward for impact attribution
11:00-11:30	Side event <b>FireMIP</b>	Sector meeting <b>Lakes</b>	Coffee Break	<b>Poster Session II</b> Coffee Break			Global water modelers side meeting				
11:30-12:00											
12:00-12:30				ISIMIP results 10-15 min presentations	Cross-sectoral presentations and panel discussion on <b>Study prospects</b>						
12:30-13:00											
13:00-13:30	Lunch Break		Lunch Break								
13:30-14:00											
14:00-14:30	Side events <b>FireMIP/AgMIP-GGCM</b>	Sector meetings <b>Biodiversity; Peat; Water quality</b>	Side event <b>FireMIP</b>	<b>ScenarioMIP/ISIMIP4</b> General Introduction		Keynote: Bart van den Hurk					
14:30-15:00				Keynote: Brian O'Neill		Cross-sectoral panel discussion					
15:00-15:30				<b>ScenarioMIP/ISIMIP4</b> Task force insights		<b>AR7 demands</b>					
15:30-16:00				Coffee Break		Coffee Break					
16:00-16:30		Sector meetings <b>Agriculture; Biomes/PF/Fire/Peat</b>	<b>ScenarioMIP/ISIMIP4</b>		Cross-sectoral panel discussion						
16:30-17:00			Data needs, IAM capacities, ISIMIP4-Scenarios		<b>Impact monitoring</b>						
17:00-17:30	Sector meeting <b>Energy</b>		<b>Poster Session I</b> Welcome reception		Joint dinner						
Evening											

## Detailed Program

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### **Monday 22.04.**

Time (UTC+2)	Session	Session organisers (chair in bold)	Venue
09:00-11:00	<b>Registration</b>		
11:00-13:30	<b>Side event: FireMIP</b> <ul style="list-style-type: none"><li>• Welcome and on-going analyses /with FireMIP data, including previous studies, and new ISMIP3a studies)</li></ul> <i>For detailed Information see separate program</i>	<b>Chantelle Burton</b> , Fang Li, <b>Stijn Hantson</b> , Matt Forrest	A56 Hasselmann Hall <a href="#">Zoom - Hasselmann Hall</a>
12:45-13:45	<b>Lunch break</b>		
13:45-18:00	<b>Side event: FireMIP</b> <ul style="list-style-type: none"><li>• Further Analyses and Future Runs (with discussion of the ISIMIP3b future scenario runs)</li><li>• Coffee break (15:00-15:30)</li><li>• Keynote: Kirsten Thonicke (17:30)</li></ul> <i>For detailed Information see separate program</i>	<b>Chantelle Burton</b> , Fang Li, <b>Stijn Hantson</b> , Matt Forrest	A56 Hasselmann Hall <a href="#">Zoom - Hasselmann Hall</a>
14:30-17:00	<b>Side event: AgMIP-GGCM</b> <ul style="list-style-type: none"><li>• New Future of Ife grant project overview and protocol and scenario design</li><li>• General GGCM research updates</li></ul>	<b>Jonas Jägermeyr</b>	A56 Telepresence room (0.38) <a href="#">Zoom - Telepresence</a>

## Tuesday 23.4.

Time (UTC+2)	Session	Session organisers (chair in bold)	Venue
09:00-12:00	<b>Registration</b>		
9:00-13:00	<p><b>Side event: FireMIP</b> <i>For detailed information see separate program</i></p> <ul style="list-style-type: none"> <li>• Developments in Data, Understanding and Modelling, &amp; Fire Model Development Horizons</li> <li>• Coffee (10:15-10:45)</li> </ul>	<p>Chantelle Burton, <b>Fang Li</b>, Stijn Hantson, <b>Matt Forrest</b></p>	<p>A56 Hasselmann Hall</p> <p><a href="#">Zoom - Hasselmann Hall</a></p>
10:00-12:00	<p><b>Sector meeting: Fisheries</b></p> <ul style="list-style-type: none"> <li>• Advances in modeling, data, and tools (10:00-11:00) <ul style="list-style-type: none"> <li>○ “BOATSv2: new developments &amp; simulations” (Kim Scherrer)</li> <li>○ “Presenting AquaMaps/AquaX” (Gabriel Reygondeau)</li> <li>○ TBA</li> </ul> </li> <li>• Discussion on AR7 needs, policy impacts, and future directions (11:00-12:00) <ul style="list-style-type: none"> <li>○ TBA</li> <li>○ TBA</li> <li>○ Discussion</li> </ul> </li> </ul>	<p>Derek Tittensor, Julia Blanchard, <b>Tyler Eddy</b></p>	<p>A56, Asien (2.33)</p> <p><a href="#">Zoom - Asien</a></p>
11:30-13:00	<p><b>Sector meeting: Lakes</b></p> <ul style="list-style-type: none"> <li>• Welcome and agenda</li> <li>• Current analysis using ISIMIP data <ul style="list-style-type: none"> <li>○ ISIMIP local lakes sensitivity using LakeEnsemblR</li> <li>○ Increasing warm-season evaporation rates across European lakes under climate change</li> </ul> </li> <li>• Current status of the lake sector</li> <li>• Discussion <ul style="list-style-type: none"> <li>○ Adaptation options</li> <li>○ Plans for new analyses</li> </ul> </li> </ul>	<p><b>Wim Thiery</b>, Daniel Mercado, Isabel Ayala-Zamora, Robert Ladwig, Don Pierson</p>	<p>A56, Afrika (3.14)</p> <p><a href="#">Zoom - Afrika</a></p>
13:00-14:00	<b>Lunch break (to be continued)</b>		

14:00-15:30	<b><u>Sector meeting: Peat</u></b> <ul style="list-style-type: none"> <li>Peatlands have the potential to emerge as significant contributors to future climate warming (Nitin Chaudary) (virtual)</li> </ul>	Angela Gallego-Sala, Michel Bechtold, Noah Smith	A56 Telepresence room (0.38) <a href="#">Zoom - Telepresence</a>
	<b><u>Sector meeting: Biodiversity</u></b> <p><b>10 min presentations + 2 min Q&amp;A</b></p> <ul style="list-style-type: none"> <li>Will land-use change continue to be the main driver for biodiversity loss in the future? (Edouard Davin)</li> <li>Comprehensive Expansion: Advancements in Downscaling Algorithms Beyond Temperature and Precipitation for the CHELSA Dataset (Dirk Karger)</li> <li>TBC (Damaris Zurell)</li> <li>ISIMIP update for Biodiversity Sector (Stefanie Heinicke, Christopher Reyer)</li> <li>Discussion</li> </ul>	Stefanie Heinicke, Christopher Reyer	House H, VR3 <a href="#">Zoom - House H VR3</a>
14:00-17:00	<b><u>Sector meeting: Water quality</u></b> <p><b>10 min presentations + 2 min Q&amp;A</b></p> <ul style="list-style-type: none"> <li>TBC (Edward Jones)</li> <li>Mapping present and future patterns of SDG indicator 6:3.2 in Africa using models (Maria Theresa Nakkazi)</li> <li>Development of the next steps towards Fast track and ISIMIP3 protocols</li> </ul>	Maryna Strokal, Rohini Kumar	House H, VR1 <a href="#">Zoom - House H VR1</a>
	<b><u>Side event: FireMIP</u></b> <ul style="list-style-type: none"> <li>Fire model development horizons II and wrap (14:30-15:30)</li> </ul>	Chantelle Burton, Fang Li, Stijn Hantson, Matt Forrest	A56 Hasselmann Hall <a href="#">Zoom - Hasselmann Hall</a>
15:30-17:00	<b><u>Sector meeting: Agriculture</u></b> <p><b>10 min presentation + 2 min Q&amp;A:</b></p> <ul style="list-style-type: none"> <li>General updates</li> <li>GeoMIP involvement in ISIMIP and upcoming projects with Fisheries and Ag sector contribution</li> <li>GGCMI/ISIMIP 4 initial planning</li> <li>Validation of ISIMIP 3 crop simulations (Cornelia Auer)</li> </ul>	Jonas Jägermeyr, Sam Rabin	A56 Telepresence room (0.38) <a href="#">Zoom - Telepresence</a>
	<b><u>Sector meeting: Biomes/PF/Fire/Peat</u></b> <ul style="list-style-type: none"> <li>Sector presentations and discussion</li> </ul>	Christopher Reyer et al.	A56 Hasselmann Hall <a href="#">Zoom - Hasselmann Hall</a>
17:00-19:00	<b><u>Sector meeting: Energy</u></b> <ul style="list-style-type: none"> <li>Two 10-15 minute inputs: One presentation by Ed Byers (IIASA) on developments and ideas for potentials of climate impacts emulation in energy sector modelling followed by a presentation by Francesco Pietro Colelli (CMCC) on the impacts of climate change on hydropower demand and supply in Italy.</li> <li>Presentation of ideas for joint papers on the basis of ISIMIP3 data.</li> <li>Discussion of these paper ideas and the perspective for an “integrated assessment” paper combining the work from the different subsectors.</li> </ul>	Christian Otto	A56 Telepresence room (0.38) <a href="#">Zoom - Telepresence</a>

## Wednesday 24.04.

Time (UTC+2)	Session	Session organisers (chair in bold)	Venue
09:00-10:00	<b>Registration</b>		
	<b>PROCLIAS TG3.11: Heat warning catalogue</b>	Aleš Urban	A56 Telepresence room (0.38)
	<ul style="list-style-type: none"> <li>Changes in heat-mortality over time: Are countries adapting to heat fast enough? (Samuel Lüthi)</li> <li>Assessing the effects of the heat health warning system on mortality in 15 German cities: A difference-in-differences approach (Veronika Huber)</li> </ul>		<a href="#">Zoom - Telepresence</a>
	<b>Sector meeting: Fire/Peat</b>	<b>Stijn Hantson, Michel Bechtold, et al.</b>	A56 Hasselmann Hall
	<ul style="list-style-type: none"> <li><i>Global Peat Fire Modelling: Opportunities and Challenges (Allan Spessa) (virtual)</i></li> <li>Fire and Peat discussion</li> </ul>		<a href="#">Zoom - Hasselmann Hall</a>
10:00-11:30	<b>Sector meeting: Water quality</b>	Maryna Strokal, Rohini Kumar	House H, VR 1 <a href="#">Zoom - House H VR1</a>
	<b>Sector meeting: Forests (TG2.5)</b>	Christopher Reyer	House H, VR 3
	<b>10 min presentations + 2 min Q&amp;A</b> <ul style="list-style-type: none"> <li>Ecosystem dynamics in arid conditions should be increasingly considered in vegetation model's evaluation and improvement: The case of model iLand in Spanish pine forests (Agnish Kumar Das)</li> <li>Testing robustness and plausibility of Biome-BGCMuSo simulations at a large scale (Katarina Merganicova)</li> <li>Reconciling climate-smart forestry in Europe with constraints on forest protection and timber demand (Konstantin Gregor)</li> </ul>		<a href="#">Zoom - House H VR3</a>
10:00-11:30	<b>Opening session</b>	Christopher Reyer	A56 Hasselmann Hall
	<ul style="list-style-type: none"> <li>ISIMIP/PROCLIAS updates and highlights (Katja Frieler, Christopher Reyer)</li> <li>ISIMIP QA/QC Tool (Hannes Müller Schmied, Jochen Klar)</li> <li>ISIMIP3b group III land use patterns (Edna Molina Bacca)</li> <li><i>EUCRA viewer (Jose Manuel Gutierrez) (virtual)</i></li> </ul>		<a href="#">Zoom - Hasselmann Hall</a>
11:30-12:00	<b>Coffee break</b>		
12:00-13:30	<b>ISIMIP3a results (“from too dry to too wet”)</b>	Simon Gosling	A56 Hasselmann Hall
	<b>10 min presentations + 5 min Q&amp;A</b> <ul style="list-style-type: none"> <li>The fingerprint of climate change in crop losses during recent heatwaves and droughts (Jonas Jägermeyr)</li> <li>Attribution clarifies the complex impacts of climate change on vegetation biomass change (<i>Akihiko Ito, virtual</i>).</li> <li>Impacts of past and future climate change on northern peatland hydrology: first results from the ISIMIP peatland sector (Michel Bechtold)</li> <li>Changing flood processes under future climate scenarios (Lina Stein)</li> <li><i>Towards validating reservoir operations in global hydrological models using satellite remote sensing – A case study in the CONUS (Naota Hanasaki, virtual)</i>.</li> <li>Summary of results on climate impact attribution on river discharge at the regional scale (from Topical Collection of papers in Climatic Change) (Valentina Krysanova)</li> </ul>		<a href="#">Zoom - Hasselmann Hall</a>
13:30-14:45	<b>Lunch break (to be continued)</b>		

14:45-16:00	<b>ScenarioMIP/ISIMIP4</b> General Introduction (Katja Frieler)	Christian Otto	A56 Hasselmann Hall  <a href="#">Zoom - Hasselmann Hall</a>
	<b>Keynote: Brian O'Neill</b> "Scenarios for CMIP7: Status and Next Steps"		
	<b>ScenarioMIP/ISIMIP4</b> ScenarioMIP task force insights (Nico Bauer) ESM perspectives (Chris Jones, Colin Jones)		
16:00-16:30	<b>Coffee break</b>		
16:30-17:30	<b>ScenarioMIP/ISIMIP4</b> Recap (Katja Frieler) Open discussion with expert panel (Brian O'Neill, Nico Bauer, Bart van den Hurk, Colin Jones/Chris Jones): ISIMIP data needs, IAM capacities, ISIMIP4-Scenarios	Franziska Piontek, Katja Frieler	A56 Hasselmann Hall  <a href="#">Zoom - Hasselmann Hall</a>
17:30-21:00	<b>Poster Session I</b> <ul style="list-style-type: none"> <li>Examining the contribution of human induced climate change on global soil moisture drought characteristics (Aris Koutroulis)</li> <li>Graphical representation of global water models participating in the Inter-Sectoral Impact Model Intercomparison Project (ISIMIP2b) (Hannes Müller Schmied)</li> <li>Thirsty sectors: a layered model for managing scarce water resources (Ioan Sabin Taranu)</li> <li>(TBD) John Kim</li> <li>Assessing the impact of climate change on erosion processes near bridges over rivers – data and methodological challenges (Kristina Potočki)</li> <li>Global warming is projected to lead to increased freshwater growth potential and changes in pace of life in Atlantic salmon <i>Salmo salar</i> (Adrian Rinaldo)</li> <li>How multi-sectoral climate-related risks could cumulate and affect livestock in West Africa (Audrey Brouillet)</li> <li>Biosphere destabilization in ISIMIP3b scenarios (Fabian Stenzel)</li> <li>Climate impacts on crop losses: Using satellite data and spatial models to foster food security (Shannon de Roos)</li> </ul>		A56 Hasselmann Hall
	<b>Welcome reception</b>		

## Thursday 25.04.

Time (UTC+2)	Session	Session organisers (chair in bold)	Venue
09:00-10:00	<b>PROCLIAS highlights from WG's 1-4</b> <ul style="list-style-type: none"> <li>• WG1: ISIMIP3a high-resolution sensitivity experiments (Johanna Malle/Dirk Karger)</li> <li>• WG2: (Sabine Undorf)</li> <li>• WG3: Understanding multiple climate risks (Simon Gosling)</li> <li>• WG4: (Albert Nkwasa)</li> </ul>	Christopher Reyer	A56 Hasselmann Hall <a href="#">Zoom - Hasselmann Hall</a>
10:00-11:00	<b>Sector meeting: Water regional</b> <ul style="list-style-type: none"> <li>• Overview of results on climate impact attribution in our Special Issue (SI)</li> <li>• Discussion about a topic for further research and potential next SI</li> </ul>	Valentina Krysanova, Fred Hattermann	House H, VR 1 <a href="#">Zoom - House H VR1</a>
	<b>PROCLIAS TG1.2: Automatic quality check / quality assessment of impact model output</b> <ul style="list-style-type: none"> <li>• Recent developments and use-cases</li> <li>• Way forward - discussing of further developments</li> <li>• Continuation of the network</li> </ul>	Hannes Müller Schmied	A56 Telepresence room (0.38) <a href="#">Zoom - Telepresence</a>
	<b>PROCLIAS TG3.2 Impact of heat on labour</b> <i>Program tbc</i>	Shouro Dasgupta	House H, VR 3 <a href="#">Zoom - House H VR3</a>
	<b>PROCLIAS TG4.2 Stakeholder mapping</b> <i>Program tbc</i>	Liliana Zaharia, Gabriela Toroimac	A56 Asien (2.33) <a href="#">Zoom - Asien</a>
	<b>Early Career Session: Discussions on future research pathways:</b> <ul style="list-style-type: none"> <li>• Cross-sectoral research ideas</li> <li>• Catering the demands from the upcoming IPCC AR7 cycle</li> <li>• Addressing issues raised at COP28</li> </ul>	Jacob Schewe, Christopher Reyer, Katja Frieler	A56 Hasselmann Hall <a href="#">Zoom - Hasselmann Hall</a>
11:00-12:00	<b>Poster Session II + Coffee Break</b> <ul style="list-style-type: none"> <li>• Climate change impact on wireless communications (Louis-François Pau)</li> <li>• Unveiling the Value of Cultural Forest Services: Overcoming Analytical Challenges for Informed Policy Decisions (Melania Michetti)</li> <li>• Education and capacity building on climate change and planetary health for healthcare professionals in global context (Muhammed Asaduzzaman)</li> <li>• Routing climate model runoff from CMIP6 to project future changes in global river discharge (Pauline Seubert)</li> <li>• The effect of extreme weather on coastal ecosystems and their services (Sarah Hülsen)</li> <li>• Results of the ISIMIP Lake Sector calibration study (Tom Lorimer)</li> <li>• Vary me a river: investigating the impacts of climate variability on hydropower and electricity systems planning in Switzerland (Yann Yasser Haddad)</li> <li>• Assessing the Risk and Impact of Fire Weather under Different Climate Change Scenarios (Yi-Ling Hwong)</li> </ul>		A56 Hasselmann Hall
	<b>Global water modelers side meeting</b> (upon invitation only)	Hannes Müller Schmied, Simon Gosling, Jacob Schewe	A56 Telepresence Room (0.38) <a href="#">Zoom - Telepresence</a>

to be continued

12:00-13:30	<b><u>Cross-sectoral presentations</u></b>	Maryna Stokal	A56 Hasselmann Hall  <a href="#">Zoom - Hasselmann Hall</a>
	<b>10 mins presentations + 2 min Q&amp;A</b> <ul style="list-style-type: none"> <li>• Global emergence of unprecedented exposure to climate extremes (Wim Thiery)</li> <li>• Temporal Dynamics of Internal Mobility in Response to Climate Extremes: A Global Analysis (2000-2019) (Kristina Petrova)</li> <li>• Interactive assessment of climate impacts and vulnerability hotspots using ISIMIP data &amp; Climate impact emulation and integration to IAMs (Michaela Werning, Edward Byers)</li> <li>• <i>Regional economic climate impacts in Europe: preliminary results from the TRACE (PESETA 5) project (Ignazio Mongelli) (virtual)</i></li> </ul>		
	<b><u>Cross-sectoral panel discussion: study prospects</u></b>	Jacob Schewe	
13:30-14:30	<b>Lunch break</b>		
14:30-15:00	<b>Keynote: Bart van den Hurk</b> "Impact assessments and scenarios in the Seventh IPCC Assessment Cycle: overview of current discussions"	Christopher Reyer	A56 Hasselmann Hall <a href="#">Zoom - Hasselmann Hall</a>
15:00-16:00	<b><u>Cross-sectoral panel discussion: AR7 demands</u></b>	Christopher Reyer	A56 Hasselmann Hall <a href="#">Zoom - Hasselmann Hall</a>
16:00-16:30	<b>Coffee Break</b>		
16:30-17:30	<b><u>Cross-sectoral panel discussion: Impact monitoring</u></b>	Matthias Mengel	A56 Hasselmann Hall <a href="#">Zoom - Hasselmann Hall</a>
Evening	<b>Joint dinner at <a href="#">Augustiner at Bürgerbahnhof</a> (on own costs)</b>		



## Friday 26.04.

Time (UTC+2)	Session	Session organisers (chair in bold)	Venue
09:00-10:30	<p><b><u>ISIMIP results and closing remarks</u></b></p> <p><b>10 mins presentations + 5 min Q&amp;A</b></p> <ul style="list-style-type: none"> <li>• Exposure of Europe's critical transport infrastructure to climate extremes (Cristina Deidda)</li> <li>• Estimating Flood Risk under Global Warming: An Approach from the Insurance Industry (Giulia Giani)</li> <li>• The regularity of climate-related extreme events under global warming (Karim Zantout)</li> <li>• <i>Children disproportionately exposed to attributable heatwaves at low-latitude low-income countries (Rosa Pietroiusti) (virtual)</i></li> <li>• Can we understand the variability in flood-induced displacement using process-based global flood modelling? (Sandra Zimmerman)</li> <li>• Global change impacts on ecosystems and food: bridging the land-sea divide (Julia Blanchard)</li> </ul>	<b>Veronika Huber</b>	<p>A56 Hasselmann Hall</p> <p><a href="#">Zoom - Hasselmann Hall</a></p>
10:30-11:30	<p><b><u>PROCLIAS TG2.1: State of the art and ways forward for impact attribution</u></b></p> <ul style="list-style-type: none"> <li>• How do ISIMIP3a detrended climate observations compare with GCM-based ISIMIP3b climate baselines? (Mel Thanatcha Brehon)</li> </ul>	Veronika Huber, Sabine Undorf, Matthias Mengel	<p>A56 Hasselmann Hall</p> <p><a href="#">Zoom - Hasselmann Hall</a></p>
10:30-12:00	<p><b><u>PROCLIAS WG4</u></b></p> <ul style="list-style-type: none"> <li>• Paper discussion: "Stakeholder Engagement in Climate Impact Attribution: Opportunities, Challenges, and Pathways to Impact"</li> </ul>	Albert Nkwasa	<p>A56 Telepresence Room (0.38)</p> <p><a href="#">Zoom - Telepresence</a></p>