

Workshop on "Opening up Earth Observations for Climate Adaptation", 8–12 December 2025

Time	Topic	Chair
14:00-15:15	Plenary Session 1: Introductions and scene-setting	Narelle van der We
	 Introduction to ISSI (Mike Rast) Convener introductions Workshop objectives (Ana Durán-Quesada) The My Climate Risk framework (Regina Rodrigues) Tour de table: motivations 	
15:15-15:45	Coffee Break	
15:45-17:00	 Scene-setting talks (20 min each incl. Q&A) Sarah Connors (Outcomes from recent ISSI Forum on EO for Climate Adaptation, https://forum.issibern.ch/climate-adaptation/) Aïda Diongue-Niang (IPCC and GCOS perspective) Ted Shepherd (Storylines and conditional attribution) Plenary Discussion 	Michaela Hegglin
18:00	Welcome Reception - Hallerstrasse 6, 1 st floor	

N.B. Suggested readings are provided at the end of this document

1



ISSI Workshop Programme, 8–12 December 2025

Tuesday, 9 December 2025

Objective: Deep dive into challenges associated with EO; Paper 1 brainstorming

Time	Topic	Chair
	Plenary Session 2: Challenges in EO usability	
9:00-10:30	Panel Discussion (with opening 5 min remarks)	Claudia Notarnicola
	Panellists: Cromwel Lukorito, Elinah Kuya, Carlo	
	Buontempo, Chris Merchant, Johanna Nalau	
	Topics:	
	Impacts of data scarcity	
	Calibration/validation gaps in data-poor regions	
	Data consistency and epistemic injustice	
	Identification and communication of uncertainties	
	Utilization of different risk attitudes and	
	preferences in adaptation	
10:30-11:00	Coffee Break	
	Paper brainstorming/guidance in Plenary	Patricia Nying'uro
11:00-11:30	Paper 1 objective	Mason Majszak
	Introduction: EO's adaptation relevance	
	Core sections: CIDs, storylines, case studies	
11:30-13:00	Breakout Groups on the content of Paper 1 (see chair	
	and rapporteur assignments at end of document)	
13:00-14:30	Lunch	
14:30 -15:45	Plenary: Breakout group presentations by	Pier Luigi Vidale
	rapporteurs, followed by discussion	
15:45-16:15	Coffee Break	
16:15 -17:30	Plenary: Case study presentations (15 min each incl.	Sophie Hebden
	Q&A) on use of EO in the context of:	
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Drought (Will Turner)
Rainfall extremes (Paola Arias)
Ice-loss narratives (Julienne Stroeve)
Plenary Discussion



ISSI Workshop Programme, 8-12 December 2025

Time	Philosophical framing of EO challenges; Paper 2 br	Chair		
9:00 - 10:30	Plenary Session 3: Philosophy & EO intersections	Rodrigo Estevez		
	Panel Discussion (with opening 5 min remarks)			
	Panellists: Vincent Lam, Julie Jebeile, Anna			
	Sörensson, Douglas Maraun			
	Topics:			
10:30-11:00	Coffee Break			
11:00 - 11:30	Paper brainstorming/guidance in Plenary	Patricia Nying'uro		
	Paper 2 objective	Mason Majszak		
	 Introduction: Epistemic gaps in EO Core sections: Justice-driven solutions (e.g., co-production, calibration equity) 			
11:30 - 13:00	Breakout Groups on the content of Paper 2 (see chair and rapporteur assignments at end of document)			
13:00 - 14:30	Lunch	1		
14:30 - 15:45	Plenary: Breakout group presentations by rapporteurs, followed by discussion	Ryan Stauffer		



ISSI Workshop Programme, 8–12 December 2025

16:15 - 17:15	Plenary Session 4: Epistemic injustice	
16.15 - 17.15	Scene-setting talks (20 min each incl. Q&A) David Ludwig (Knowledge system diversity) Greg Lusk (Values in science, with a focus on policy) Plenary Discussion Discussion questions: Credibility deficits and Bias in local EO testimony (e.g., Indigenous knowledge vs formal structure). Normative frameworks for "interpretive resources"	Heather Maseko- Msyale
40.00	 (Fricker, Leonelli). Context and intersectionality (local, regional global + intersecting vulnerabilities) Co-production of knowledge SDG-aligned calibration equity, IPCC pathways aligned to policy choices (WGIII centred) Alignment of epistemic and social justice 	
19:00	Workshop Dinner (organised by ISSI): Rosengarten, Alter Aarga	auerstalden 31b



ISSI Workshop Programme, 8-12 December 2025

Thursday, 11	Thursday, 11 December 2025				
Objective: Working out detailed outlines for the two papers					
Time	Topic	Chair			
9:00 - 9:30	Plenary: Recap	Convenors			
9:30 – 11:00 11:00 - 11:30	Breakout Groups: Paper 1 Writing (see chair and rapporteur assignments at end of document) Groups develop assigned sections (provisional): • Group A: EO ↔ CID linkages. • Group B: Storyline methodologies. • Group C: Case study integration. • Group D: Openness limitations. • Group E: Community-defined indicators. Coffee Break				
11:30 – 12:45	Plenary: Breakout group presentations	Christina Greene			
12:45 - 14:15	Lunch				
14:15 - 15:45	Breakout Groups: Paper 2 Writing (see chair and rapporteur assignments at end of document) Groups develop assigned sections (provisional):				
15:45 – 16:15	Coffee Break				
16:15 - 17:30	Plenary: Breakout group presentations	Stefan Brönnimann			



ISSI Workshop Programme, 8–12 December 2025

Objective: Synthesis of Papers 1 and 2						
Time	Topic	Chair				
9:00 - 10:30	Plenary: Bridge the two papers					
	Discussion:	is not				
10:30 – 11:00	Coffee Break					
11:00 – 13:00	Breakout Groups: Paper writing Paper 1 Writing Introduction: Epistemic gaps in EO. Core: Outline the desired "toolbox" - Justice-driven solutions (e.g. production, calibration equity). Policy pathways: SDGs, IPCC Potentially Suggesting new frameworks/methodologies that are with previous guidelines					
13:00 - 14:30	Lunch					
14:30 – 16:00	Final Plenary: Closing remarks and next steps • Wrap-up what has been done during the week • Assigning outstanding tasks • Set deadlines					



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Breakout groups

Tuesday (paper 1, overall)

	Α	В	С	D	E
Chair	Vidale	Connors	Diongue-Niang	Shepherd	Durán Quesada
Rapporteur	Tosic	Ghomsi	Kpaka	Hunt	Wang

Wednesday (paper 2, overall)

	Α	В	С	D	E
Chair	Arias	Kuya	Nying'uro	Sörensson	Maraun
Rapporteur	Turner	Brönnimann	Massot	Estevez	Greene

Thursday (paper 1, by topic)

	Α	В	С	D	E
Chair	Rast	Lukorito	Stroeve	Buontempo	Merchant
Rapporteur	Van der Wel	Stauffer	Notarnicola	Hegglin	Hebden

Thursday (paper 2, by topic)

	Α	В	С	D	E
Chair	Lam	Jebeile	Ludwig	Lusk	Nalau
Rapporteur	Majszak	Maseko Msyale	Kimani	Greene	Khumbanyiwa

Suggested readings:

Anderson, K., et al. (2017). Earth observation in service of the 2030 Agenda for Sustainable Development. Geo-spatial Inform. Sci., https://doi.org/10.1080/10095020.2017.1333230

Baylis, K. et al. (2025). Five Lessons for Closing the Last Mile: How to Make Climate Decision Support Actionable. Earth's Future, https://doi.org/10.1029/2024EF005799

Eicken H, Danielsen F, Sam JM, Fidel M, Johnson N, Poulsen MK, Lee OA, Spellman KV, Iversen L, Pulsifer P, Enghoff M. Connecting Top-Down and Bottom-Up Approaches in Environmental Observing. Bioscience. (2021) Apr 28;71(5):467-483. doi: 10.1093/biosci/biab018. PMID: 33986631; PMCID: PMC8106998.

Fricker, M. (2007). *Epistemic Injustice: Power and the Ethics of Knowing*. Oxford University Press, https://doi.org/10.1093/acprof:oso/9780198237907.001.0001



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Hegglin, M.I., et al. (2022). Space-based Earth observation in support of the UNFCCC Paris Agreement. *Front. Env. Sci.*, https://doi.org/10.3389/fenvs.2022.941490

Leonelli, S. (2023). *Philosophy of Open Science*. Cambridge University Press, https://doi.org/10.1017/9781009416368

Lloyd, E.A. & Shepherd, T.G. (2023). Foundations of attribution in climate-change science. *Env. Res. Clim.*, https://doi.org/10.1088/2752-5295/aceea1

Popp, T., et al. (2020). Consistency of Satellite Climate Data Records for Earth System Monitoring. *Bull. Amer. Meteor. Soc.*, https://doi.org/10.1175/BAMS-D-19-0127.1

Radeloff, V.C., et al. (2024). Need and vision for global medium-resolution Landsat and Sentinel-2 data products. *Remote Sensing Env.*, https://doi.org/10.1016/j.rse.2023.113918

Rodrigues, R.R. & Shepherd, T.G. (2022). Small is beautiful: climate-change science as if people mattered. PNAS Nexus, https://doi.org/10.1093/pnasnexus/pgac009

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