



**UN Climate Change COP 28
Dubai, United Arab Emirates**

Outcome Document

**“Bridging the Research Gap: Leveling the Climate
Research Field and Empowering Global South Climate
Change Adaptation and Disaster Risk Reduction”**

Organized by the following partners: SilverLining, Green Africa Youth Organisation, Sustenta Honduras, Arab Youth Climate Movement Qatar, and Sustainability Week Pakistan

**December 8, 2023, 3:30 PM GST
Global Climate Action Hub - Lab 1 Al Shaheen, Blue Zone**

“Bridging the Research Gap: Leveling the Climate Research Field and Empowering Global South Climate Change Adaptation and Disaster Risk Reduction” Action Event / Implementation Lab

Key Messages:

- **Global Disparities in Climate Impacts Research:**
 - Climate impacts are disproportionately affecting developing countries.
 - The Global South is a heterogeneous region, with some areas possessing high scientific capacity and all harboring significant talent for studying climate impacts. Despite this, the majority of research is still produced in the Global North.
 - Regional and local contexts require locally led climate impacts research, which is currently hindered by funding gaps and technical limitations in some countries in the Global South.
 - This research is vital for adaptation, climate finance, and all climate decision-making.
- **Democratizing Access to Earth System Models: Cloud for Climate**
 - Cloud computing has the potential to democratize access to high-performance computing by allowing research and analysis to be conducted without the need to download large datasets.
 - Cloud for Climate represents a collaboration between SilverLining and Amazon Sustainability Data Initiative aimed at accelerating climate research and promoting equity.
 - SilverLining has provided support for an advanced study of near-term climate, marking the first-ever full production climate model simulations on the cloud.
 - This initiative supports the creation of new climate datasets with open access through the public cloud and facilitates capacity-building workshops to encourage the adoption of cloud-based analysis and tools.
- **Equity, Inclusion, and Financial Support in Scientific Research: Climate Research for All**
 - There is a demand for financial mechanisms supporting equitable, transparent science crucial for adaptation and climate decision-making.
 - Current funding programs inadequately address limitations in accessing and conducting physical sciences research.
 - SilverLining proposes Climate Research for All: a \$1b+ multilateral funding program for research in the Global South to improve scientific understanding of the impacts of climate change on communities, ecosystems, and resources by addressing gaps in personnel, physical and financial resources, and technical capacity for physical science research.
- **Role of Youth:**
 - Majority of young climate researchers study abroad, due to a lack of international confidence in their regional climate research and lack of funding and infrastructure access.
 - ‘Brain drain’ of young researchers to the Global North exacerbates the shortage of resources and expertise in the continent.
 - We must empower youth in the Global South to study these crucial issues.

Outcome 1: Increase awareness of climate impact research needs and opportunities in developing countries, especially as relevant to adaptation planning and DRR.

- Jyoti Singh, climate researcher from India, highlighted the global disparities in climate impacts research due to funding gaps and technical limitations in some countries in the Global South.
- The event emphasized the necessity for downscaled regional and local models of climate impacts to effectively address adaptation planning and DRR. This research is vital for adaptation, climate finance, and all climate decision-making.
- Marcos Regis Silva, Director of CRA, highlighted the distinctive opportunity for developing countries to delve into the study of climate impacts. These regions possess significant talent for such research. However, the majority of research is still predominantly produced in the Global North.

Outcome 2: Highlight concrete examples of initiatives and models that support equitable participation in international decision-making on climate change via improved scientific capacity.

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Outcome 3: Shared experiences and ideas for steps forward on various levels (local, national, regional).

- The event placed a specific focus on encouraging local youth-led action in climate research.
- Joshua Amponsem, Founder of GAYO, underscored that a majority of young climate researchers tend to study abroad due to a lack of international confidence in their regional climate research, coupled with challenges in funding and infrastructure access.
- Jyoti Singh emphasized the issue of 'brain drain,' pointing out that the migration of young researchers to the Global North worsens the shortage of resources and expertise in the continent.
- Joshua Amponsem shared that GAYO is actively empowering youth in the Global South to engage in the study of these crucial climate issues.
- SilverLining's Global Young Leaders Initiative is facilitating virtual briefings to provide platforms for youth to collaborate with scientists.
- As part of the Cloud for Climate initiative, SilverLining is hosting technical briefings for scientists in the Global South, enabling them to access cloud computing resources.

Content:

Events were required to feature collective progress on mitigation (2030 breakthroughs), adaptation and resilience (SAA outcomes) and means of implementation. Please outline below how this featured in your session.



- The event’s segment on ‘Case studies of climate research capacity building in the Global South’ consisted of keynote presentations from Alicia Karspeck and Marcos Regis Silva which showcased two case studies of solutions that are accelerating the goal of climate research for effective adaptation: Cloud for Climate and Climate Research for All.
- The event’s segment on ‘Role of stakeholders in accelerating climate research for all’ discussed the roles of relevant stakeholder groups (youth, researchers, and policymakers), their barriers, and how to overcome these barriers.
- These initiatives highlight how climate research can be democratized and made accessible across diverse geographical regions, specifically in the Global south.

Diversity & Inclusion:

Event organisers were requested to ensure events were inclusive of age, gender, geography, and represented a spectrum of stakeholders across all levels of government and sectors. Please share below the number of speakers represented in each group at this event.

Youth <i>No of Speakers under 35</i>	Geography <i>Number of Speakers from developing countries</i>	Gender <i>Number of female speakers</i>	Indigenous Peoples <i>Number of speakers from Indigenous groups</i>
4 / 8 total speakers	4 / 8 total speakers	4 / 8 total speakers	0 / 8 total speakers
50%	50%	50%	0%

Materials / Assets:

Please share any links to materials from the session (e.g. photos, slides)

[Photos](#)

[Slides](#)