

2024 RESILIENCE LEARNING MONTH: KNOWLEDGE SHARING EVENTS

Session Agenda

Event Title: **The Impact of Weather Shocks on a Developing Economy in a Cold Region: Evidence from Mongolia**

Date/Time: **24 September (Tuesday), 10:00–11:15 a.m.**

**Description/
Objectives:**

This session presents a study on the macroeconomic effects of temperature and precipitation shocks in Mongolia, a unique case of a developing economy in a cold region. While most research focuses on the negative impacts of climate change on developing countries in hotter climates, this study addresses the gap in understanding for cold region economies like Mongolia. Using extensive national and provincial data, the study reveals that temperature increases have delayed negative effects on economic output, while increased precipitation can boost productivity in the short term. The findings emphasize the need for tailored climate adaptation strategies, improved water management, and economic diversification to build resilience. Mongolia's experience offers valuable lessons for other ADB developing member countries facing climate vulnerabilities in diverse regional contexts, providing insights into how climate impacts can be managed to support sustainable development.

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https://asiandevbank.sharepoint.com/:u:/t/org_sdcd/EX0KIsSslcVPnqz6P1hWSosBKlrn1IJZy1Qr3jvCpbLcHA?e=IYdfxp

Time	Activity
10:00-10:02	Opening Remarks Kelly Bird, Advisor, EARD
10:02-10:17	Mongolia's climate trends: temperature and precipitation Homer Pagkalinawan, Climate Change Officer, ADB
10:17-10:27	Mongolia's economic structure and vulnerability to weather shocks Cara Tinio, Associate Economics Officer, ADB
10:27-10:42	Empirical evidence on the impact of weather shocks on Mongolia's economic activity and policy recommendations Dorothea M. Ramizo, Associate Economics Officer, ADB
10:42-10:52	Discussant Enkh-Amgalan Tseelei, Senior Climate Change Officer, ADB
10:52-11:02	Q&A
11:02-11:04	Closing

Moderator: Sugar Gonzalez, Senior Climate Change Officer

Speaker/s:



Kelly Bird

Advisor, ADB Office of the Director General, East Asia Department

Kelly Bird is Advisor to Asian Development Bank's (ADB) East Asia Department. Prior to this assignment he was the Country Director for the Philippines and the Director of the Public Management, Financial Sector and Trade Division in the Southeast Asia Department of ADB. Prior to joining the ADB in 2006, he worked as part of a USAID-funded project with the Indonesian government from 1999 to 2005, and in 2006 as a consultant on trade policy with the World Bank in Jakarta. He graduated with a PhD in economics from the Australian National University in 1999. He has published several papers in international journals including *Applied Economic Letters*, *Bulletin of Indonesian Studies*, *Journal of Development Studies*, *Oxford Development Studies*, *Southeast Asian Affairs*, *World Economy*, and *World Development*.



Homer Pagkalinawan

Associate Climate Change Officer, Climate Change, Resilience and Environment Cluster, Climate Change and Sustainable Development Department (CCSD)

Homer recently joined CCSD as part of the Pacific climate team and climate focal for Palau, Marshall Islands, and the Federated States of Micronesia. His climate change work in Asia and the Pacific includes predictive damage modelling, resource mapping, vulnerability assessment, and recovery analysis. Prior to CCSD, he was with ERDI where he contributed to flagship publications such as the *Asian Development Outlook* and the upcoming *Climate Change Report*.



Cara Tinio

Associate Economics Officer, Office of the Director General, Pacific Department

Cara is currently on short-term assignment in MNRM, where she is supporting economics work and country operations, including preparation of inputs to the forthcoming *Asian Development Outlook September 2024* and Country Partnership Strategy. She also continues to contribute to and coordinate ADB's economics work and project economic analysis in the Pacific subregion.



Enkh-Amgalan Tseelei (Enkhie)

Senior Climate Change Officer, CCRE, CCSD and ADB Resident Mission Office in Mongolia (MNRM)

Enkhie has joined MNRM since March 2024. Before joining ADB, she led a project on sustainable rangeland management and rural livelihood for 20 years jointly implemented by the Swiss Agency for Development and Cooperation and the Government of Mongolia. This project was developed as a follow up to the first heaviest Dzud in Mongolia of 2000/2001 winter, when Mongolian herders lost almost 30% of their livestock, and many were deprived of their main source of livelihood. The project delivered many good results and built capacities of herders and rural populations with

knowledge and economic opportunities that continue to this day. Enkhie has also led a national rangeland health monitoring system, which is currently operated by State agencies.



Dorothea M. Ramizo (Dotty)

Associate Economics Officer, Office of the Director General, EARD

Dotty is a seasoned economics researcher in international trade, trade policy, and econometric analysis with several publications in peer-reviewed journals. She has completed her MA Economics from the University of the Philippines and obtained her Master of Laws (LL.M.) from Hamburg University, Ghent University, and Erasmus University Rotterdam as an Erasmus Mundus scholar. She is currently working on her PhD Economics dissertation at Curtin University in Perth, Australia.



Sugar M. Gonzales

Senior Climate Change Officer, CCSD

Sugar joined ADB's climate change team in 2013 to support the Bank in implementing its Climate Investment Funds. In 2019, she joined the climate adaptation team where she supports mainstreaming climate change adaptation in ADB operations and implements various technical assistance projects in the region.

Additional resources:

- [Global Non-linear Effect of Temperature on Economic Production](#)