

# CORDEX-CAM Domain Report 2020

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Focal Points

1. This year we reduced the number of events due to the COVID-19 pandemia, only a couple of them were organized as online meetings. We supported many requests of CORDEX-CAM data from students and scientists of various countries (Mexico, Guatemala, Italy, Portugal, and the United States)

2. We participated ONLINE in a special session at the Annual Meeting of the Mexican Geophysical Union (RAUGM 2020) on 3 November 2020. We have been organizing this session since 2014:

**SE13: Regional Climate Modelling and CORDEX / Modelación climática regional y CORDEX.** Organized by Tereza Cavazos (CICESE), Gabriela Colorado-Ruiz (CICESE), Rosa B. Luna-Nino (CICESE), and José Abraham Torres-Alavez (ICTP).

3. In November and December we organized an online paper-writing workshop that was supposed to be in Sao Paulo. At the end, we did it online in two parts (November 24-25 & December 8-9, 2020) and it worked pretty well with 45 young students and scientists from different countries. The objectives were to foster the collaboration, capacity building, and the possible submission of several papers on CORDEX-CAM-SAM data next year. There will be a report of this event to CORDEX:

**CORDEX Central America and South America Online Paper-Writing Workshop on Regional Climate Modeling.** Organized by Maria Laura Bettolli and Silvina Solman (Universidad de Buenos Aires), Rosmeri Porfirio da Rocha (University of Sao Paulo), Tereza Cavazos (CICESE, Mexico), and Irene Lake and Lindha Nilsson (CORDEX-IPOC, Sweden).

## Plans for 2021

1. We will have at least the same two events again next year, possibly online.

2. Several articles have been published or are in process for a special issue in *Climate Dynamics* related to physical processes in several domains, including CORDEX-CAM, using RegCM. Next year we will present the list of articles, we expect at least five articles focused on CORDEX-CAM, two of them are already published:

1. Ashfaq M., T. Cavazos, M. Simões Reboita, J. A. Torres-Alavez, E-S. Im, C. Funmilola Olusegun, L. Alves, K. Key, M. O. Adeniyi, M. Tall, M. Bamba Sylla, S. Mehmood, Q. Zafar, S. Das, I. Diallo, E. Coppola, and F. Giorgi. 2020: Robust late twenty-first century shift in the regional monsoons in RegCM-CORDEX simulations. *Climate Dynamics*, 10.1007/s00382-020-05306-2.

2. Luna-Niño, R., T. Cavazos, J. A. Torres-Alavez, F. Giorgi, and E. Coppola, 2020: Interannual variability of the boreal winter subtropical jet stream and teleconnections over the CORDEX-CAM domain during 1980–2010. *Climate Dynamics*. <https://doi.org/10.1007/s00382-020-05509-7>