

CLIMAX: Climate Services Through Knowledge Co-Production: A Euro-South American Initiative for Strengthening Societal Adaptation Response to Extreme Events

Call: Climate Predictability and Inter-Regional Linkages

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Project objectives are: 1) to better understand the combined role of remote and local drivers on South America climate variability from sub-seasonal to decadal timescales, and its impact on the occurrence and intensity of extreme events. Special focus will be placed on an improved understanding of the effects of land use changes from the Amazon to the subtropics and their impact on extreme precipitation events; 2) to assess the predictability levels associated with regional climate pattern from sub-seasonal to decadal time scales; 3) to develop innovative regional prediction tools not only of climate variability but also of climate impact on both agriculture and hydrology in SSA on subseasonal and seasonal time scales; 4) to analyze climate knowledge co-production in order to revise how climate data are used by various stakeholders in their socio-cultural contexts; and 5) to analyze communication conditions of interdisciplinary and trans-disciplinary process of knowledge co-production that determines the usefulness of climate information in the process. Innovative technologies will be codeveloped to produce products and tools by the project for the SSA-RCC, agriculture and hydropower sectors.