Chavez-Jimenez Adriadna et al., J Earth Sci Clim Change 2016, 7:9(Suppl)
http://dx.doi.org/10.4172/2157-7617.C1.027

The impact of climate change in meeting water demands in the Chira-Piura basins, Peru

Chavez-Jimenez Adriadna[1], Gonzalez-Zeas Dunia[2], Buguña Nilton[3] and Martínez Angela[4]
[1]University of Piura, Peru
[2]Independent Consultant, Quito, Ecuador
[3]Secretaria Tecnica del Consejo de Recursos Hídricos de las Cuencas Chira, Peru
[4]Canal Isabel II, Spain

The attention of water demands in the Chira-Piura's basins has been affected as a consequence of water scarcity problems and variability of water resources that characterize to this region. The Poechos reservoir located in the central area of the Chira's basin has increased the water supply in order to meet both basins demands. In the long term, these problems may be intensified under climate change scenarios. In this context, the present study evaluates the impact of climate change in meeting water demands for consumptive uses in the system Chira-Piura. The results show a slight increase of water availability in the Piura's basin and a reduction of water availability in the Chira's basin. Taking into consideration the connection between these basins through the reservoir, the current water scarcity problems in both basins can be intensified under climate change scenarios, in spite of the water resources increase in Piura's basin.

Biography

Chavez-Jimenez Adriadna has obtained her PhD at the Technical University of Madrid, Spain. Currently, she is Professor and Researcher at the University of Piura. Her research interests are focused on water resources management, climate change, water scarcity problems, management demands and adaptation. She has published more than six papers in reputed international journals.

adriadna.chavez@udep.pe

Notes: