

**Lista de Artículos científicos de la Unidad de Acción Climática desde 2008 hasta 2023**  
**Bajar archivo completo (Pdf)**

1. Chan, S., Bauer, S., Betsill, M. M., Biermann, F., Boran, I., Bridgewater, P., Bulkeley, H., Bustamante, M. M. C., Deprez, A., Dodds, F., Hoffmann, M., Hornidge, A.-K., Hughes, A., Imbach, P., Ivanova, M., Köberle, A., Kok, M. T. J., Lwasa, S., Morrison, T., ... Pettorelli, N. 2023. The global biodiversity framework needs a robust action agenda. *Nature Ecology & Evolution*, 7(2), 172–173. <https://doi.org/10.1038/s41559-022-01953-2>
2. Espinal-Giron, Aurorita, Laura Benegas Negri, Christian Brenes, Christian Birkel, and Cornelis Prins. 2023. "Assessing Potential Effects of Nature-Based Solutions (NBS) on Water Ecosystem Service in the Interurban Micro-Watershed Río Torres, Costa Rica" Forests 14, no. 5: 937. <https://doi.org/10.3390/f14050937>
3. Cordero, A. L., Acosta, L. G., Pineda, J. A., & Torres, D. 2023. Estructura, composición y contenido de carbono de manglares en los Humedales Nísporo y San Buenaventura-Colorado, Golfo de Nicoya, Costa Rica.  
[https://Www.Researchgate.Net/Publication/368242680\\_Estructura\\_composicion\\_y\\_contenido\\_de\\_carbono\\_de\\_manglares\\_en\\_los\\_Humedales\\_Nispero\\_y\\_San\\_Buenaventura-Colorado\\_Golfo\\_de\\_Nicoya\\_Costa\\_Rica.](https://Www.Researchgate.Net/Publication/368242680_Estructura_composicion_y_contenido_de_carbono_de_manglares_en_los_Humedales_Nispero_y_San_Buenaventura-Colorado_Golfo_de_Nicoya_Costa_Rica.)
4. Mendez, M., Calvo-Valverde, L.-A., Imbach, P., Maathuis, B., Hein-Grigg, D., Hidalgo-Madriz, J.-A., & Alvarado-Gamboa, L.-F. 2022. Hydrological Response of Tropical Catchments to Climate Change as Modeled by the GR2M Model: A Case Study in Costa Rica. *Sustainability*, 14(24), Article 24. <https://doi.org/10.3390/su142416938>
5. Sierra, A.M.; Quijano, N.E.; Herrera, C.; Villalobos, R.; Delgado, D. Gutiérrez, M. Documentación de procesos de restauración ecológica asistida: islas de cultivo y plantaciones de melina en Guanacaste, Costa Rica. CIENCIA ergo-sum, vol. 29, núm. 2, julio-octubre 2022. E161. <https://cienciaergosum.uaemex.mx/article/view/15312/13712>
6. Born, L., Prager, S., Ramirez-Villegas, J., & Imbach, P. 2021. A global meta-analysis of climate services and decision-making in agriculture. *Climate Services*, 22, 100231. <https://doi.org/10.1016/j.cliser.2021.100231>
7. Valverde, J.C., Arias, D., Castillo, M., Torres, D. 2021. Relación de la variabilidad climática con el crecimiento diamétrico de ocho especies arbóreas de bosque seco en Costa Rica. *Ecosistemas* 30(1): 2092. <https://doi.org/10.7818/ECOS.2092>
8. Müller A, Bouroncle C, Gaytán A, Girón E, Granados A, Mora V, Portillo F, van Etten J. 2020. Good data are not enough: Understanding limited information use for climate risk and food security management in Guatemala. *Climate Risk Management* 30:100248. doi: 10.1016/j.crm.2020.100248
9. Bouroncle C, Imbach AC, Zamora A, Urueña O, Boni, A. 2020. Building local strategies for the adaptation to climate change of farming livelihoods: Review of a participatory approach applied in Mesoamerica. Lachapelle P, Gutierrez-Montes I, Flora CB (eds.) *Community Capacity and Resilience in Latin America*. Routledge. pp. 33-52.
10. Vernooy R, Bouroncle C, Sandoval Roque V, García JM. 2020. Sustainable Territories Adapted to the Climate: Insights from a New University Course Designed and Delivered in Guatemala. *Sustainability* 12(12), 4978. doi:10.3390/su12124978
11. Paulo, J.; Villalobos, R. 2020. Quassia amara L. diameter and total height under different light conditions: implications for the management of agroecosystems. *Agroforest Syst* (2020) 94:761–778. <https://doi.org/10.1007/s10457-019-00446-9>

12. Bouroncle C, Müller A, Giraldo D, Rios D, Imbach P, Giron E, Portillo F, Boni A, van Etten J, Ramirez-Villegas J. 2019. A systematic approach to assess climate information products applied to agriculture and food security in Guatemala and Colombia. Climate Services 16: 100137. doi: 10.1016/j.cliser.2019.100137
13. Vezy, R., le Maire, G., Christina, M., Georgiou, S., Imbach, P., Hidalgo, H. G., ... Roupsard, O. 2020. DynACof: A process-based model to study growth, yield and ecosystem services of coffee agroforestry systems. Environmental Modelling & Software, 124, 104609. <https://doi.org/https://doi.org/10.1016/j.envsoft.2019.104609>
14. Solis, J., Villanueva, C., Detlefsen, G., Brenes, C., & Vilchez., S. 2019. Tree Cover on Cattle Farms in the Southeast Region of Guatemala, American Journal of Agriculture and Forestry. Volume 7, Issue 2, pp. 66-77. <https://doi.org/10.11648/j.ajaf.20190702.14>.
15. Turrén-Cruz, T., Benegas, L., Gutiérrez-Montes, I., & Brenes, C. 2019. Evaluación de la vulnerabilidad ante eventos climáticos extremos, en La Paz, Baja California Sur; México. CIENCIA Ergo-Sum, 26(1). <https://doi.org/10.30878/ces.v26n1a6>
16. Imbach, P., Chou, S. C., Lyra, A., Rodrigues, D., Rodriguez, D., Latinovic, D., ... Georgiou, S. 2018. Future climate change scenarios in Central America at high spatial resolution. PLOS ONE, 13(4), e0193570. Retrieved from <https://doi.org/10.1371/journal.pone.0193570>
17. Sloan, S.; Zamora, J.C.; Labatte, G.; Asner, G.; Imbach, P. 2018. The opportunity costs and geography of forest conservation for national emissions reductions. Global Environmental Change 53, 39-51. <https://doi.org/10.1016/j.gloenvcha.2018.09.002>
18. Guevara-Murua, A., Williams, C. A., Hendy, E. J., & Imbach, P. 2018. 300~years of hydrological records and societal responses to droughts and floods on the Pacific coast of Central America. Climate of the Past, 14(2), 175–191. <https://doi.org/10.5194/cp-14-175-2018>
19. Byron, P., Walter, L., Jorge, F., Sven, G., Diego, T., & Christian, B. 2018. Identification of threats, management strategies and conservation of ecosystem services in sub-basin "La Suiza" Chiapas Mexico. Revista Bosques Latitud Cero 2018, Volumen 8 (1) pp. 109-123. <file:///C:/Users/HP/Downloads/Revista%20Bosques%20Latitud%20Cero%20V8-N1.pdf>
20. Bouroncle C, Imbach P, Rodríguez-Sánchez B, Medellín C, Martínez-Valle A, Läderach P. 2017. Mapping climate change adaptive capacity and vulnerability of smallholder agricultural livelihoods in Central America: ranking and descriptive approaches to support adaptation strategies. Climatic Change 141: 29-45. doi: 10.1007/s10584-016-1792-0
21. Imbach P, Beardsley M, Bouroncle C, Medellín C, Läderach P, Hidalgo H, Alfaro E, Van Etten J, Allan R, Hemming D, Stone R. 2017. Climate change, ecosystems, and smallholder agriculture in Central America: an introduction to the special issue. Climatic Change 141:1-12. doi:10.1007/s10584-017-1920-5
22. Hannah L, Donatti C, Harvey C, Alfaro E, Rodriguez D, Bouroncle C, Castellanos E, Diaz F, Fung E, Hidalgo H, Imbach P, Läderach P, Landrum J, Solano A. 2017. Regional modeling of climate change impacts on smallholder agriculture and ecosystems in Central America. Climatic Change 141: 29-45. doi:10.1007/s10584-016-1867-y
23. Imbach, P.; Fung, E.; Hannah, L.; Navarro-Racines, C.; Roubik, T.; Ricketts, T.; Harvey, C.; Donatti, C.; Laderach, Locatelli, B.; Roehrdanz, P. Coupling pollination services and coffee suitability under climate change. PNAS 114(39) 10438-10442. (24th most featured climate paper by media in 2017, Altmetrics score: 1022)

24. Vallet A, Locatelli B, Levrel H, Brenes Pérez C, Imbach P, Estrada Carmona N, et al. 2016. Dynamics of Ecosystem Services during Forest Transitions in Reventazón, Costa Rica. *PLoS ONE* 11(7): e0158615. <https://doi.org/10.1371/journal.pone.0158615>
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29. Keatinge, J. D. H., Imbach, P., Ledesma, D. R., Hughes, J. d'A., Keatinge, F. J. D., Nienhuis, J., Hanson, P., W Ebert, A. and Kumar, S. 2016. Assessing air temperature trends in Mesoamerica and their implications for the future of horticulture, *Eur. J. Hortic. Sci.*, 81(2), 63–77, doi:10.17660/eJHS.2016/81.2.1.
30. Louman, B., Montes, I. G.-, Le Coq, J.-F., Wulffhorst, J. D., Yglesias, M., & Brenes, C. 2016. Combinando el Enfoque de Medios de Vida con la Indagación Apreciativa para Analizar la Dinámica de la Cobertura Arbórea en Fincas Privadas: el Caso de Costa Rica. *CIENCIA Ergo Sum* 23(1), 58–66.
31. Louman, B., Montes, I. G.-, Le Coq, J.-F., Brenes, C., Wulffhorts, J. D., Casanoves, F., MarielYglesias, & Rios, S. 2016. Avances en la comprensión de la transición forestal en fincas costarricenses. *Revista Iberoamericana de Economía y Ecología*. <https://www.researchgate.net/publication/297484784> Combinando el Enfoque de Medios de Vida con la Indagacion Apreciativa para Analizar la Dinamica de la Cobertura Arborea en Fincas Privadas el Caso de Costa Rica
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33. Corrales L, Bouroncle C, Zamora, JC. 2015. An overview of forest biomes and ecoregions of Central America. In Chiabai A. (ed.) *Climate change impacts on tropical Forests in Central America: An ecosystem service perspective*. Abingdon: Routledge Press. pp. 15-38.
34. Louman B, Campos-Arce JJ, Mercado L, Imbach P, Bouroncle C, Finegan B, Martínez C, Mendoza C, Villalobos R, Medellín C, Villanueva C, Mendoza T, Aguilar A Padilla D. 2015. Climate Smart Territories (CST): An integrated approach to food security, ecosystem services, and climate change in rural areas. In Minang PA, van Noordwijk M, Freeman OE, Mbow C, de Leeuw J, Cacacutan D. (eds.) *Climate-Smart Landscapes: Multifunctionality in practice*. Nairobi: World Agroforestry Centre. pp. 75-86. <https://repositorio.catie.ac.cr/handle/11554/8308>

35. Avelino, J., M. Cristancho, S. Georgiou, P. Imbach, L. Aguilar, G. Bornemann, P. Läderach, F. Anzueto, A. J. Hruska, and C. Morales. 2015. The coffee rust crises in Colombia and Central America (2008-2013): impacts, plausible causes and proposed solutions. *Food Security* 2015; 7(2):303-321.
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39. Locatelli B.; Imbach P., Wunder S. 2014. Synergies and trade-offs between ecosystem services in Costa Rica. *Environmental Conservation*
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41. Imbach P., Locatelli B., Molina L., Leadley, P., Ciais P. 2013. Climate change and plant dispersal along corridors in fragmented landscapes of Mesoamerica. *Ecology and Evolution* 3:2917-2932
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