

Carlos Dobler-Morales

Postdoctoral Researcher Consultant

Woodwell Climate Research Center
Working remotely from Morelia, Mexico
+52 (443) 733-9742

cdobler@woodwellclimate.org
github.com/carlosdobler

Education

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| 2019 | Ph.D. in Geography
Graduate School of Geography, Clark University
Worcester, USA |
| 2012 | Master's Degree in Geography
Environmental Geography Research Center, UNAM
Morelia, Mexico |
| 2010 | Bachelor's Degree in Biology
Faculty of Sciences, UNAM
Mexico City, Mexico |

Professional appointments

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| 2019–2021 | Postdoctoral fellow
Environmental Geography Research Center, UNAM
Morelia, Mexico |
| 2012–2014 | Project coordinator
Agricultural and Food Information Service (SIAP), Secretariat of Agriculture
Mexico City, Mexico |

Publications

Peer-reviewed journal articles:

Dobler-Morales, C., G. Bocco. (2021). "Social and environmental dimensions of drought in Mexico: An integrative review". *International Journal of Disaster Risk Reduction* 55: 102067. <https://doi.org/10.1016/j.ijdr.2021.102067>

Dobler-Morales, C., R. Roy Chowdhury, & B. Schmook. (2019). "Governing intensification: The influence of state institutions on smallholder farming strategies in Calakmul, Mexico". *Journal of Land Use Science* 15: 108-126. <https://doi.org/10.1080/1747423X.2019.1646334>

Bradley, A., I. Rosa, A. Brandão Jr., S. Crema, **C. Dobler-Morales**, S. Moulds, S. Ahmed, T. Carneiro, M. Smith, & R. Ewers. (2017). "An ensemble of spatially explicit land-cover model

projections: prospects and challenges to retrospectively evaluate deforestation policy". *Modeling Earth Systems and Environment* 3: 1215-1228. <https://doi.org/10.1007/s40808-017-0376-y>

Book chapters:

Dobler-Morales, C. (in press). "Between subsidies and parks: The impact of agrarian and conservation policy on smallholder territories of Calakmul, Mexico". In: McKall, M., B. Napoletano, A. Boni, & T. Rico. *Territorializing Space in Latin America: processes and perceptions in territorial appropriation*. Springer.

Dobler-Morales, C. (in press) "Sequía: Métodos para su estudio". In: Urquijo, P., A. Lazos, y K. Lefebvre. *Taller de Historia Ambiental: Aplicaciones y metodologías en la interdisciplina*. UNAM.

Hernández Cerda, M.E. & **C. Dobler-Morales**. (2018). "Clima". In: Almeida, L., J. Carmona, & E. Cantoral. *Historia Natural y Cultural de la Cuenca del Río Magdalena, Ciudad de México, México*. Las Prensas de Ciencias - UNAM, Mexico.

Manuscripts under review:

Dobler-Morales, C., A. Álvarez Larrain, Q. Orozco-Ramírez, G. Bocco. "Grounding maladaptation: Trends of agricultural change and attendant climatic risks in small farms of La Mixteca Alta, Mexico". *Geoforum*.

Dobler-Morales, C., M. Lorenzen, Q. Orozco-Ramírez, G. Bocco. "Beyond a generalized deagrarianization: Livelihood heterogeneity and its determinants in the Mixteca Alta, Mexico". *World Development*.

Manuscripts in preparation:

Dobler-Morales, C., R. Roy Chowdhury, & B. Schmook. "Smallholder differentiation amid climate change: Analyzing divergent vulnerabilities in Calakmul, Mexico". Target journal: *Global Environmental Change*.

Dobler-Morales, C., R. Roy Chowdhury, J. Rogan & B. Schmook. "Testing for forest transitions in tropical Mexico using dense Landsat time-series". Target journal: *Agriculture, Ecosystems & Environment*.

Grade, A.M., R. Roy Chowdhury, **C. Dobler-Morales**, ... M.M. Wheeler. "Cross-scale social drivers of yard vegetative outcomes in the American residential macrosystem". Target Journal: *Ecology*.

Roy Chowdhury, R., D.H. Locke, J.M. Grove, **C. Dobler-Morales**, ... M. Steele. "Homogenization or environmental injustice in urban landscapes? A comparative analysis of land cover across six diverse cities". Target Journal: *Landscape Ecology*.

Awards and fellowships

2019	Postdoctorate fellowship (MXN 840,000) National Autonomous University of Mexico (UNAM)
2017	Student Field Research Award (USD 1,500) The Conference for Latin Americanists Geographers (CLAG)
2017	Geller Research Award (USD 2,500) George Perkins Marsh Institute, Clark University
2014–2017	Fulbright Scholarship (USD 75,000) The Fulbright Program
2014	Libbey Fund Enhancement Award (USD 3,500) Graduate School of Geography, Clark University
2011	Short-term International Internship Award (EUR 1,800) Mexican Science and Technology Council (CONACYT)

Participation in conferences

2021	Grade, A.M., R. Roy Chowdhury, C. Dobler-Morales , ... M.M. Wheeler. "Cross-scale social drivers of yard vegetative outcomes in the American residential macrosystem". <i>Annual meeting of the Ecological Society of America</i> . Virtual presentation. August.
2021	Grade, A.M., R. Roy Chowdhury, C. Dobler-Morales , ... M.M. Wheeler. "Institutional and individual drivers of yard vegetative structure and composition in the American residential macrosystem". <i>Annual meeting of the American Association of Geographers Annual Meeting</i> . Virtual presentation. April.
2020	Dobler-Morales, C. "Dimensiones campesinas del cambio rural en el México moderno". <i>CIGA-UNAM Seminar</i> . Virtual presentation. November.
2020	Dobler-Morales, C. "Mexico: Developing mega-projects in the Mayan Rainforest". <i>Roundtable organized by the Latin-Amerikagruppene i Norge (LAG) and the Norwegian University of Life Sciences (NMBU)</i> . Virtual presentation. September.
2019	Dobler-Morales, C. , R. Roy Chowdhury & B. Schmook. "Between subsidies and parks: Agroecological change amid agrarian and conservation policy in Calakmul, Mexico". <i>Conference on Earth System Governance</i> . Oaxaca, Mexico. November.
2019	Dobler-Morales, C. , R. Roy Chowdhury & B. Schmook. "The influence of modern state institutions on forest transitions: The case of the Southern Yucatán, Mexico". <i>Open Science Meeting of the Global Land Programme</i> . Bern, Switzerland. April.
2019	Dobler-Morales, C. , R. Roy Chowdhury & B. Schmook. "Governing intensification: The influence of state institutions on smallholder farming strategies in Calakmul, Mexico". <i>Annual meeting of the American Association of Geographers</i> . Washington D.C., USA. April.

- 2018 **Dobler-Morales, C.**, R. Roy Chowdhury & B. Schmook. "Emergent interactions among drought, land policy, and smallholder vulnerability in the Southern Yucatan, Mexico". *Annual meeting of the Conference of Latin American Geography (CLAG)*. San José, Costa Rica. May.
- 2018 **Dobler-Morales, C.**, R. Roy Chowdhury & B. Schmook. "Climate change meets the land-sparing vs. sharing debate: A study on droughts and land-use segregation in the Southern Yucatan, Mexico". *Annual meeting of the American Association of Geographers*. New Orleans, USA. April.
- 2015 **Dobler-Morales, C.** "Intensity analysis of land cover change in Mexico". *Annual meeting of the American Association of Geographers*. Chicago, USA. April.
- 2013 **Dobler-Morales, C.** "Remote sensing products in support of crop subsidies in Mexico". *CIMMYT International Workshop: Beyond Diagnostics: Insights and Recommendations from Remote Sensing*. Mexico City, Mexico. December.
- 2012 **Dobler-Morales, C.** "Índice de intensidad de sequía agrícola en México". *INEGI/UNAM Seminar: Información estadística y geográfica para prevenir y mitigar los efectos de la sequía e inundaciones en la población y la economía*. Mexico City, Mexico. November.

Teaching experience

- 2021 Research seminar 3 (graduate level)
One term course (40 hrs.)
CIGA-UNAM, Virtual
- 2020 Basic elements of cartographic design
Intensive short course (5 days, 15 hrs.)
CIGA-UNAM, Virtual
- 2014 Open Source Geographic Informations Systems
Intensive workshop (4 days, 30 hrs.)
SELPER Mexico's chapter and CIGA-UNAM
Morelia, Mexico

Research experience

- 2017–2019 Research Assistant
Project: Ecological Homogenization of Urban America
George Perkins Marsh Institute, Clark University
Worcester, USA
- 2014–2015 Research Assistant
Project: Land cover modeling: Evaluation of ensembles of algorithms
Clark Labs, Clark University
Worcester, USA
- 2012 Research Assistant
Project: Greenhouse Gases Mitigation Scenarios with Solid Biofuels

Bioenergy Lab, UNAM
Morelia, Mexico

2009–2010 Research Assistant
Project: Socio-Environmental Assessment of San Borja River Basin
Mountain Ecosystems Lab, UNAM
Mexico City, Mexico

Additional training

2018 Short course: Introduction to Spatial Agent-Based Modeling
National Socio-Environmental Synthesis Center (SESYNC)
Annapolis, USA

2016 Seminar in College Teaching
Higher Education Consortium of Central Massachusetts (HECCMA)
Worcester, USA

2016 Graduate Student Workshop on Socio-Environmental Synthesis
National Socio-Environmental Synthesis Center (SESYNC)
Annapolis, USA

Field experience

2020 Mixteca Alta, Mexico
Designed and supervised the collection of household surveys by a team of
collaborators (2 weeks)

2017–2018 Southern Yucatan, Mexico
Surveys with smallholders, interviews with key informants, collection of geolocated
land cover training points (11 months)

Professional skills

Programming/Computational:

- Advanced experience with R, moderate with Bash, basic with Python
- Advanced experience with digital project management tools (i.e., git, GitHub)
- Advanced experience with Linux environments
- Moderate experience with cloud computing (Google Cloud Platform) and parallelization
- Basic experience with Google Earth Engine.

Data analysis and collection:

- Advanced experience in multivariate statistics and machine learning modeling and interpretation
- Advanced experience in spatial data science and remote sensing using R and Geographic Information Systems (QGIS, GRASS)
- Advanced experience in the collection and coding of qualitative data.

Other:

- Moderate experience with management of research teams.

Languages:

- Spanish (native) and English (advanced) proficiency