

CGD Seminar Series

Adapting agriculture to climate change

Nathan Mueller

Colorado State University

Date: Tuesday 20 October 2020

Time: 11am – 12pm

For Zoom information, please contact

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For live stream information, visit the

CGD Seminar Webpage

ABSTRACT

Climate change threatens agricultural livelihoods and food security around the world. Yet impacts are determined not only by changes in climate, but also the ways in which agricultural systems respond and adapt. This presentation will propose that we can separate agricultural adaptation into three different modes: in situ adaption (i.e. changes in on-farm management), adaptive migration, and changes in infrastructure and support systems. I will explore these modes by providing evidence for historical adaptation and by prioritizing future adaptation needs. Case studies will examine in situ adaptation in US maize and dairy systems, global patterns of adaptive migration for major staple crops, and global water management needs due to changes in snowmelt

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