

Topic 12: Adaptation and Mitigation

Climate Change Ecology
Geography 404
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Climate Change Ecology 1 Prof. J. Hicke

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Adaptation in wilderness areas

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Climate change: Wilderness's greatest challenge

By Nathan L. Stephenson and Constance L. Miller

<p>1. restraint (do nothing)</p>	<p>3. resistance (buy time)</p> <ul style="list-style-type: none"> • fuel breaks to stop wildfires • controlling insect outbreaks • drip irrigation
<p>2. resilience (buy time)</p> <ul style="list-style-type: none"> • facilitate an ecosystem's or organism's ability to rebound/recovery from a disturbance • remove other stressors (invasive species, human pressure) • thin forests to decrease drought vulnerability 	<p>4. realignment (long-term change)</p> <ul style="list-style-type: none"> • assisted migration • plant with species better adapted to new/future climate following severe disturbance • mixing genotypes from other regions (that may be more resilient/resistant)

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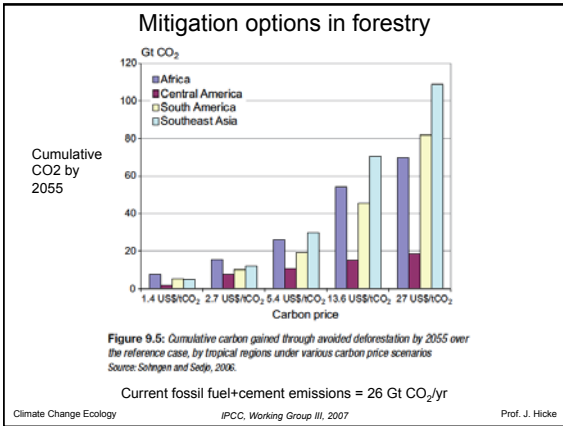


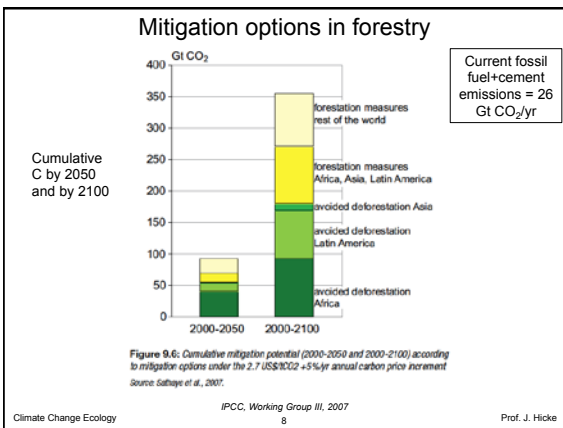
2009 CALIFORNIA CLIMATE ADAPTATION STRATEGY
A Report to the Governor of the State of California
in Response to Executive Order S-13-07-08

California Climate Adaptation Strategy, 2009

www.climatechange.ca.gov/adaptation/strategy/index.html

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Solar Roadways

<http://www.youtube.com/watch?v=Ep4L18zOEYI>
(4 minutes)

<http://tedxtalks.ted.com/video/TEDxSacramento-Scott-Brusaw-The>
(15 minutes)
