

Climate Risks and Inequality

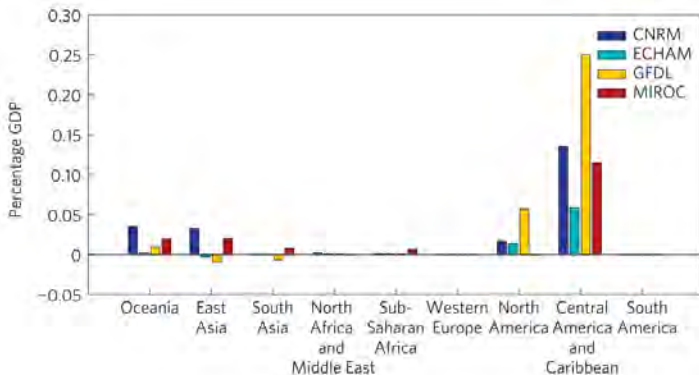
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Cross-National Evidence

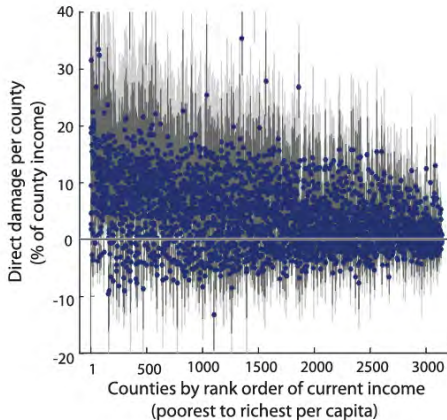
Climate Change Impacts on Tropical Cyclone Damage



(Mendelsohn et al., 2012)

U.S. Evidence

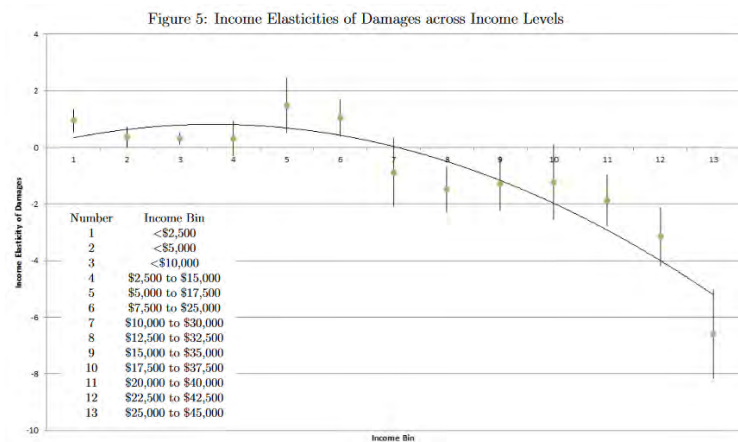
Climate Change Impacts in the United States



(Hsiang et al., 2017)

Mechanism: Adaptation Gap

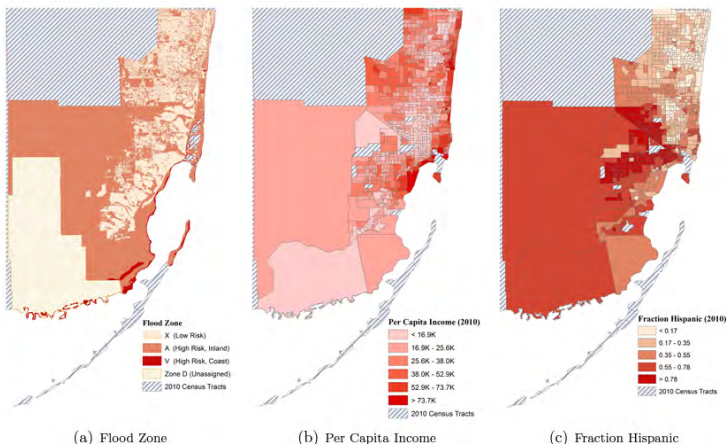
Income Elasticity of Tropical Cyclone Damages



(Bakkensen and Mendelsohn, 2016)

Mechanism: Sorting and Migration

Flood Risk and Neighborhood Demographics



(Bakkensen and Ma, 2020)



Mechanism: Sorting and Migration

Neighborhood Change After Flood Insurance Price Reform

Percent Changes in Race/Income Distribution by Zone

| <i>All</i> | Zone X | Zone A | Zone V |
|-------------|--------|--------|--------|
| White/Asian | 11.55 | -11.74 | -54.36 |
| Black | 2.24 | -2.32 | -2.01 |
| Hispanic | 13.86 | -14.27 | -29.86 |

| <i>All</i> | Zone X | Zone A | Zone V |
|------------|--------|--------|--------|
| Q1 | 4.70 | -4.87 | -4.03 |
| Q2 | 4.89 | -5.06 | -4.90 |
| Q3 | 4.84 | -4.98 | -10.11 |
| Q4 | 5.52 | -5.64 | -19.45 |
| Q5 | 7.71 | -7.77 | -47.75 |

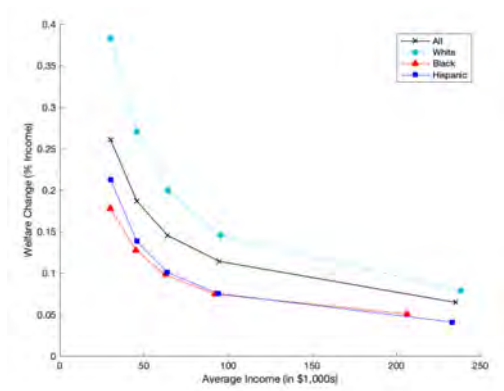
Note. Table aggregates the changes in predicted shares after all NFIP price supports are removed.

(Bakkensen and Ma, 2020)



Mechanism: Information Value

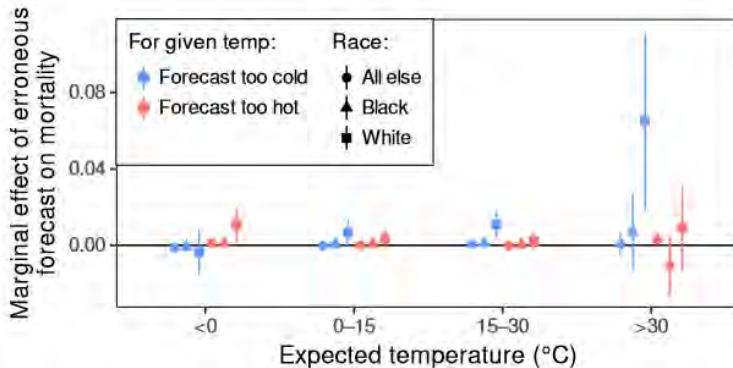
Value of Improved Flood Risk Information by Race



(Bakkensen and Ma, 2020)

Mechanism: Information Value

Weather Forecast Error and Mortality by Race



(Shrader, Bakkensen, and Lemoine, WP)

References

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- ▶ Hsiang, S., Kopp, R., Jina, A., Rising, J., Delgado, M., Mohan, S., ... Houser, T. (2017). Estimating economic damage from climate change in the United States. *Science*, 356(6345), 1362-1369.
- ▶ Mendelsohn, R., Emanuel, K., Chonabayashi, S., Bakkensen, L. (2012). The impact of climate change on global tropical cyclone damage. *Nature climate change*, 2(3), 205-209.
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