



Environment

Saturday 11 May 2013 19.03 EDT

Climate change 'will make hundreds of millions homeless'

Carbon dioxide levels indicate rise in temperatures that could lead agriculture to fail on entire continents



Original estimates

Based on

previous

estimates

Jacobson (1988): 10 million

Myers and Kent (1995): 150 million by 2050

Myers (2002): 200 million by 2050

Friends of the Earth (2007): 200 million by 2050

> Christian Aid (2007): 300 million by 2050

> > Stern (2007): 150 -200 million by 2050

Global Humanitarian Forum (2009) 78 million displaced by 2030



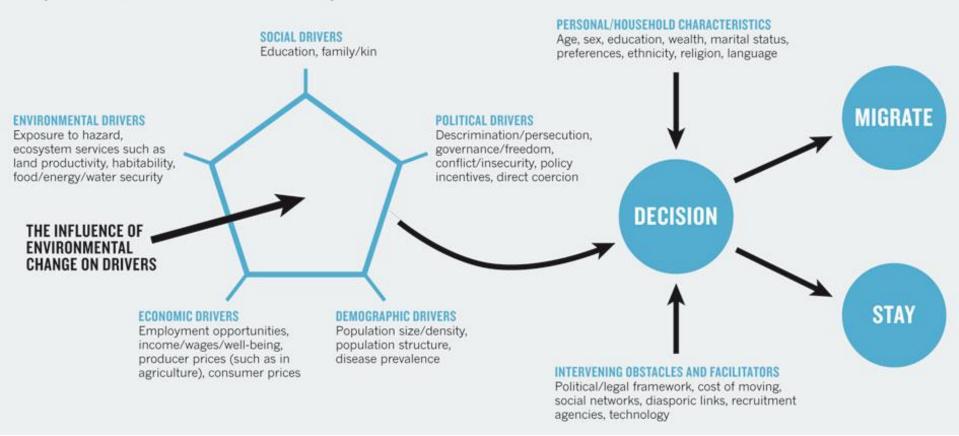






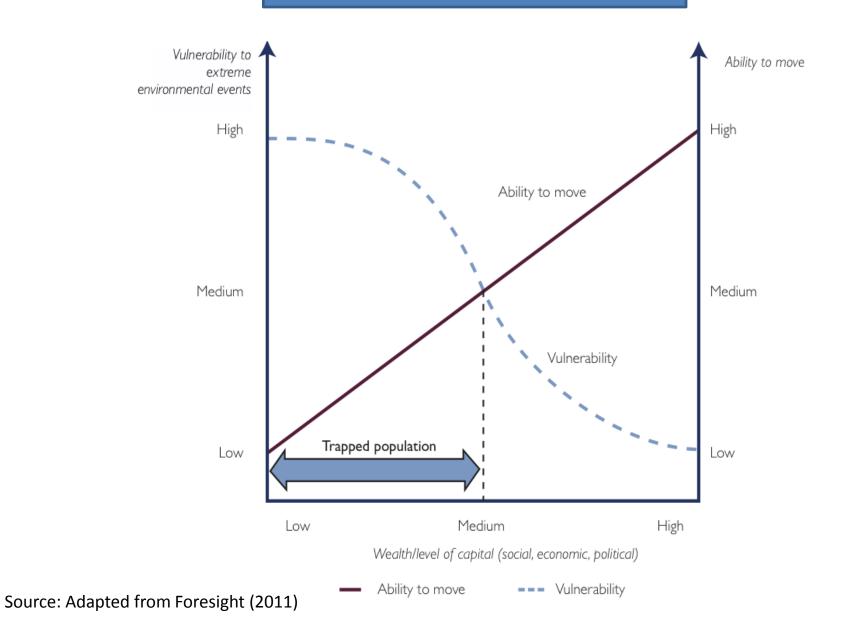
THE DRIVERS OF MIGRATION

Many factors influence whether a person or family will migrate. Their effects are closely intertwined, so it makes little sense to consider any of them in isolation.



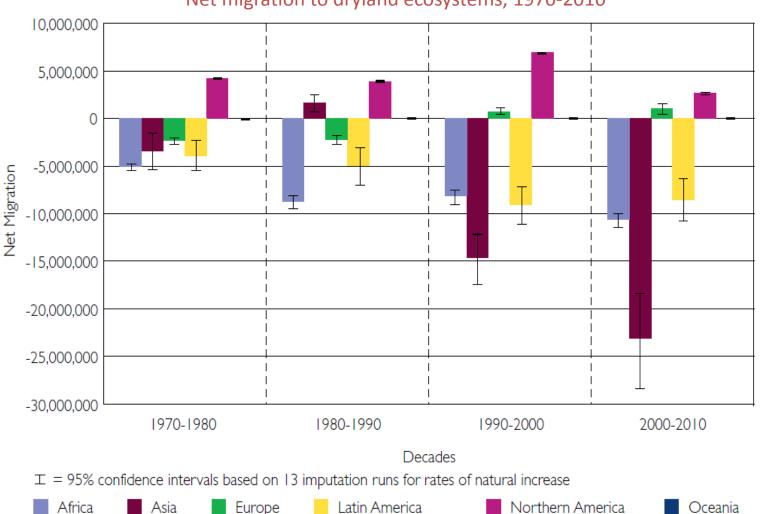
Source: Black et al. (2011) Nature

Understanding 'trapped' populations



Regional Outlooks of Migration

Net migration to dryland ecosystems, 1970-2010



and the Caribbean

Northern America

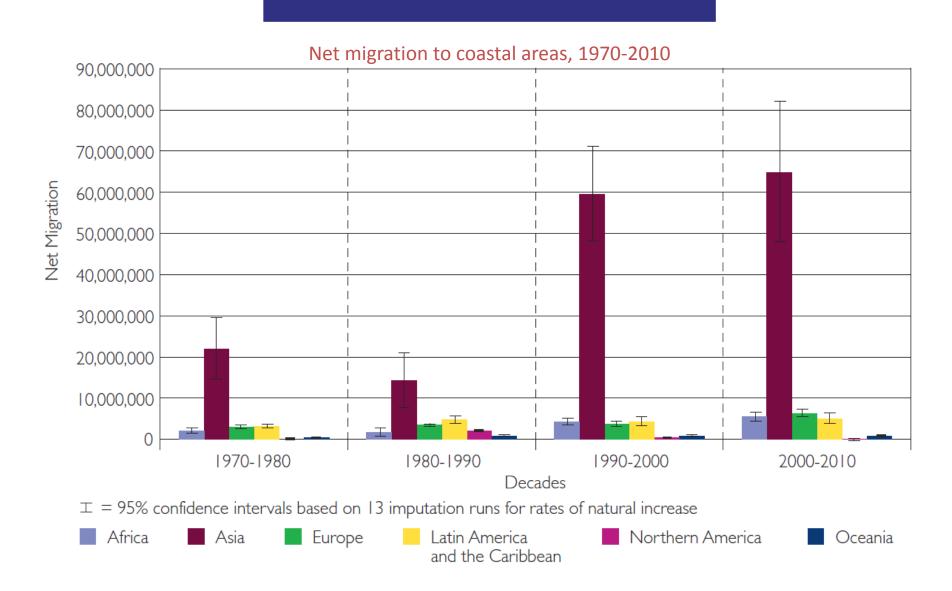
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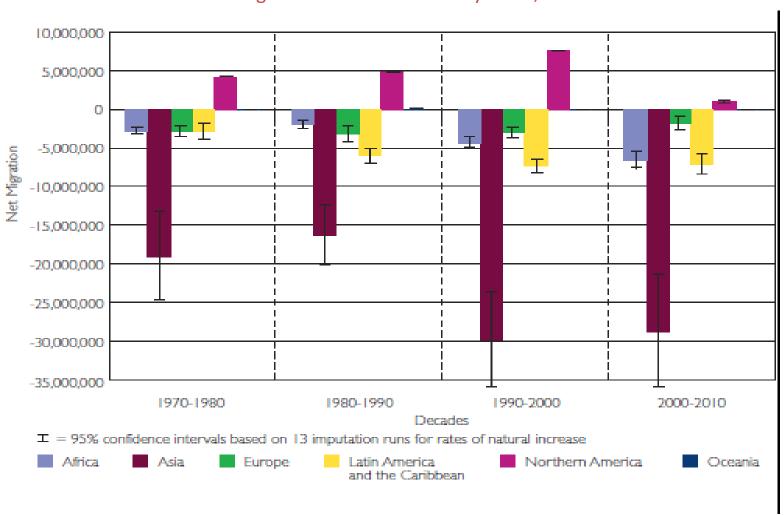
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Regional Outlooks of Migration



Regional Outlooks of Migration

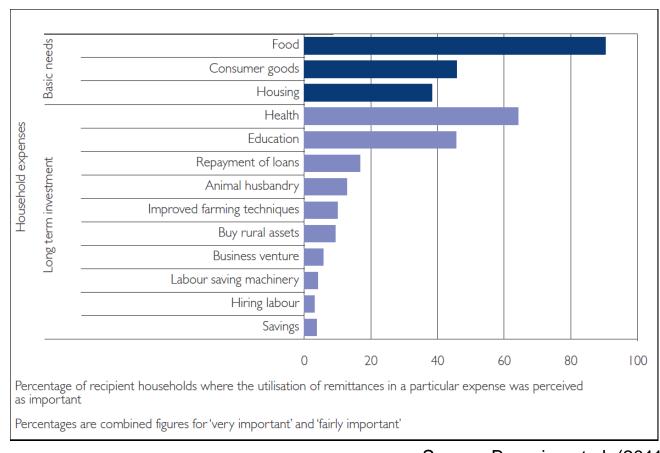
Net migration to mountain ecosystems, 1970-2010



Migration as Adaptation

Perceived importance of remittance utilization for different household expenses across case studies in mountain regions in China, India, Nepal and Pakistan

- Livelihoods: comprise social, financial & other forms of capital.
- Migration / remittances can build this capital
- A sustainable livelihood is better able to cope with & recover from stress and shocks



Source: Banerjee et al. (2011)

Hurricane Katrina (2005):

- •Wealthier able to anticipate and escape
- Poorest trapped in Superdome during crisis
- •Higher subsequent long-term displacement of poor
- •New in-migration associated with recovery





Internal migration and environmental change in India

Delhi



Mumbai



This is a roughly final amount that can be used for your personal population of education sincered in use not be exactly for being distributed. If you need an edicate Forest land or Asiate Museum amount of this help present into several basegor, not in a several recognition or the land can be proposed off. In Dopyright Bruse Jones Design Inc. 2018

India

Bangalore

Chennai



Kolkota



Are there protection gaps? How can they be filled?



- Protocol on 'environmental migrants' unlikely to be effective and would miss key 'at risk' populations
- Importance of building on existing institutions and legal agreements
- Promoting regional solutions

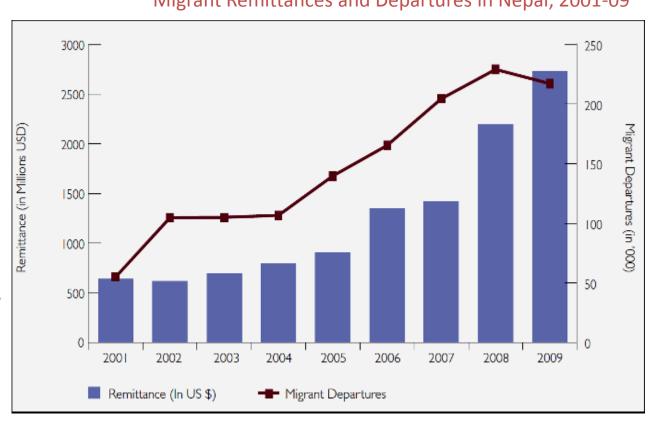
Case study: New Zealand:

- Pacific Access Scheme
- 75 migrants per year from Tuvalu / Kiribati
- 250 per year from Tonga
- Not linked to the environment
- Seasonal migration encouraged

The Importance of Remittances

Migrant Remittances and Departures in Nepal, 2001-09

- 2009: international remittances = US\$307bn, compared to US\$120 ODA
- Africa: remittances quadrupled to US\$40bn between 1990-2010
- Remittances account for 28% of Tonga's GDP, 22% of Samoa's



Source: World Bank (2011), Ratha (2011)

Source: World Bank (2009a)

Migrating Towards Environmental Risks

• South Central Asia

- 4.1 million in 2000
- 17 million in 2030 (high)
- 59 million in 2060 (high)

Sub-Saharan Africa

- 0.7 million in 2000
- 5 million in 2030 (high)
- 25 million in 2060 (high)

People living in urban coastal flood zones in 2060



Explanatory note: Scenario B is lowest and Scenario C is highest, therefore representing the full range from these scenarios.

Climate change and migration: some realities

- Climate change is happening, with potentially severe consequences
- Migration is occurring even without climate change
- People are moving towards as well as away from areas of risk
- People are differentially able to move that means that some people are almost certainly trapped in the face of climate risk, not displaced
- There are a range of possible and actual mobility outcomes – some of which are unexpected
- Migration can be part of the process of adaptation to climate change, not simply a (negative) reaction
- Public policy can respond to these issues

