SIMPOSIO REGIONAL OPS/OMS

"Agua y Saneamiento en la Agenda 2030: La Ruta para el Desarrollo Sostenible"

Cartagena, Colombia 18-20 Agosto 2016

Cambios climáticos

Daniel F. Buss

Advisor, Global Environmental Changes

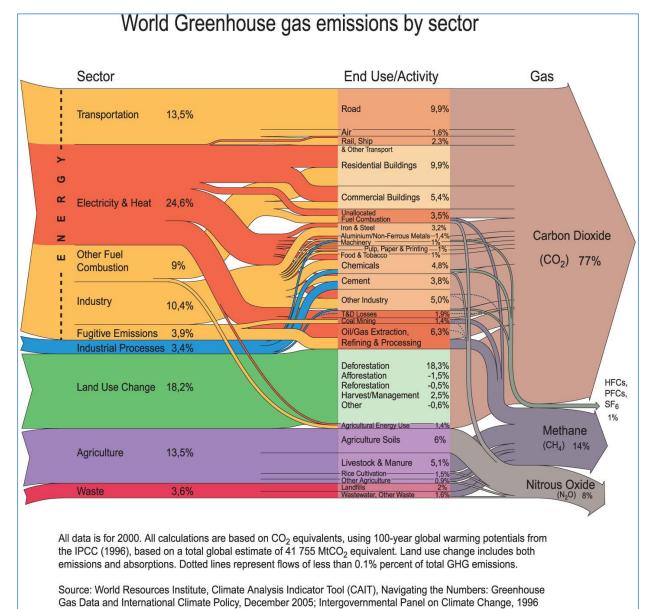




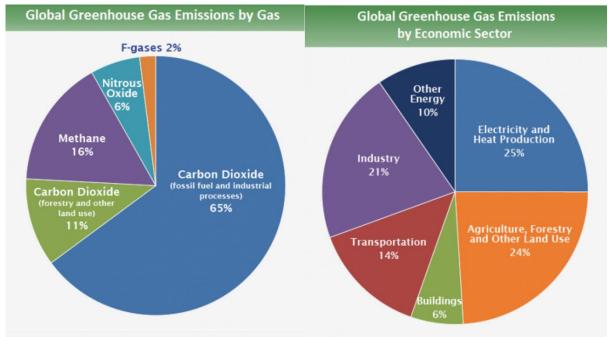
"The causes of the causes" – means of production and consumption







(data for 2000).



Details about the sources included in these estimates can be found in the <u>Contribution of Working Group III to the Fifth</u>

<u>Assessment Report of the Intergovernmental Panel on Climate Change</u>. Exit

Source: IPCC (2014) Exit based on global emissions from 2010.

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Health and climate change



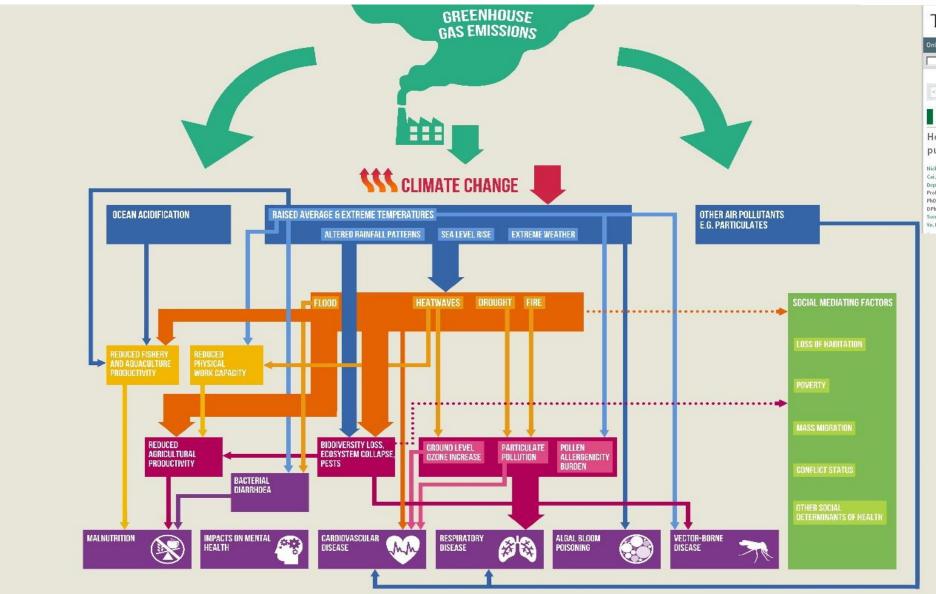






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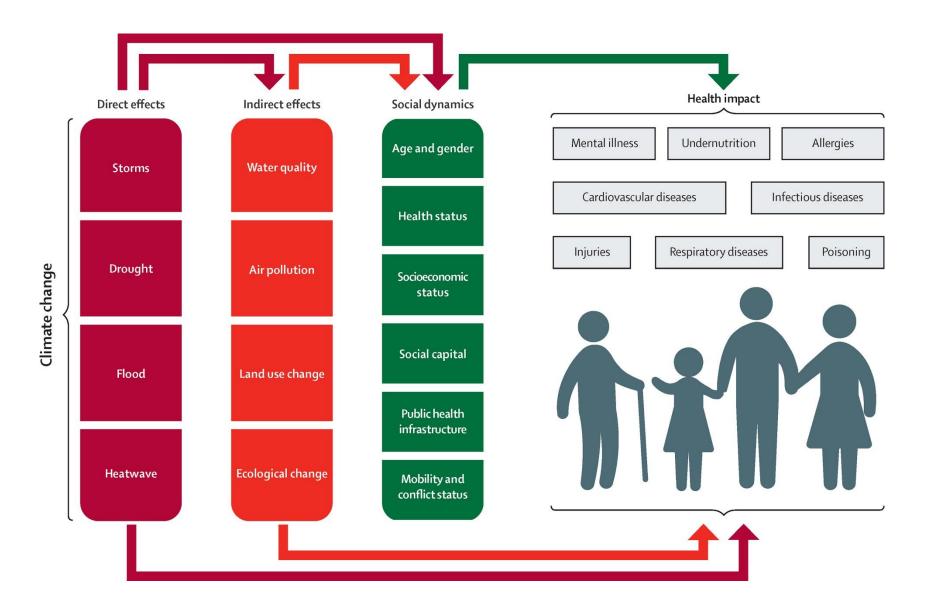




Health and climate change







THE LANCET Online First Current Issue All Issues Special Issues Multimedia - Information for Authors All Content Search | Advanced Search Online First < Previous Article Next Article > Health and climate change: policy responses to protect public health NickWatts, MA 🖼 🔤, Prof W Neil Adger, PhD, Paolo Agnolucci, PhD, Jason Blackstock, PhD, Prof Peter Byass, PhD, Wenjia Cai, PhD, Sarah Chaytor, MA, Tim Colbourn, PhD, Prof Mat Collins, PhD, Adam Cooper, PhD, Prof Peter M Cox, PhD, Joanna Depledge, PhD, Paul Drummond, MSc, Prof Paul Ekins, PhD, Victor Galaz, PhD, Delia Grace, PhD, Prof Hilary Graham, PhD, Prof Michael Grubb, PhD, Prof Andy Haines, FMedSci, Ian Hamilton, PhD, Alasdair Hunter, PhD, Xujia Jiang, PhD, Moxuan Li, PhD, Han Kelman, PhD, Lu Liang, PhD, Melissa Lott, MSEng, Prof Robert Lowe, PhD, Prof Yong Lue, PhD, Prof Georgina Mace. DPhil, Prof Mark Maslin, PhD, Maria Nilsson, PhD, Prof Tadj Oreszczyn, PhD, Steve Pye, MSc, Tara Quinn, PhD, My Svens dotter, MSc, Sergey Venevsky, PhD, Koko Warner, PhD, Prof Bing Xu, PhD, Jun Yang, PhD, Yongyuan Yin, PhD, Chaoqing Yu, PhD, Prof Qiang Zhang, PhD, Prof Peng Gong, PhD1, Prof Hugh Montgomery, MD1, Prof Anthony Costello, FMedSc1

Health and climate change





In the next five years, governments must:

- 1) Invest in climate change and public health research, monitoring and surveillance
- 2) Rapid phase-out of coal-fired plants to protect cardiovascular and respiratory health
- 3) Scale-up financing and implementing climate resilient health systems
- 4) Encourage a transition to cities that support and promote lifestyles which are healthy for the individual and for the planet, including highly energy efficient buildings; providing ease of low-cost active transportation; and increasing access to green spaces. Such measures improve adaptive capacity, whilst also reducing urban pollution, greenhouse gas emissions, and rates of cardiovascular disease, cancer, obesity, diabetes, mental illness and respiratory disease.

"Achieving a decarbonized global economy and securing the public health benefits it offers is no longer primarily a technical or economic question – it is now a political one"



UNFCCC: The "Paris Agreement"





Agreed unanimously by 195 countries

180 signatures* (175 in the opening day)

22 ratifications* (8 from the Region of the Americas: Barbados, Belize, Grenada, Guyana, Peru, St Kitts & Nevis, St Lucia, St Vincent & the Grenadines)

- *Status at 17-Aug-2016
- → Ratifications account in total for 1.08% of the total global greenhouse gas emissions (need at least 55 Parties accounting in total for at least 55% of global emissions to enter into force)

Preamble clearly show health + climate change link

- 1. Tackling the root causes of climate change, by reducing emissions \rightarrow health benefits
- 2. Health is a precondition and an outcome of ALL Sustainable Development Goals

Some important messages to consider:

Health sector: only 3-5% of budget goes to prevention, the rest is dedicated mainly to treatment/response

Outcomes from joint activities with other sectors, especially regarding infrastructure (cities, transportation, energy...)

Focus on interventions that will address multiple health outcomes (+ outcomes in other sectors) and measure them with the SDG indicators

Local level will have a key role (e.g. forum of mayors)

Climate and health – Country profiles





1st Global Conference on Health & Climate, 2014

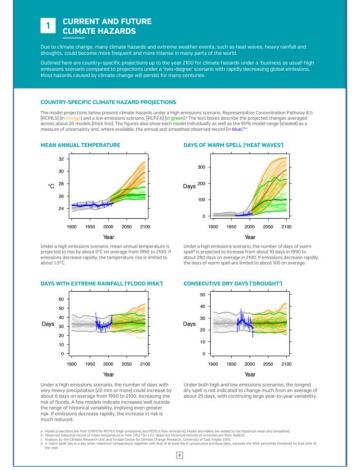
http://www.who.int/globalchange/resources/countries/en/



Second Global Conference Health & Climate

Paris 7-8 July 2016





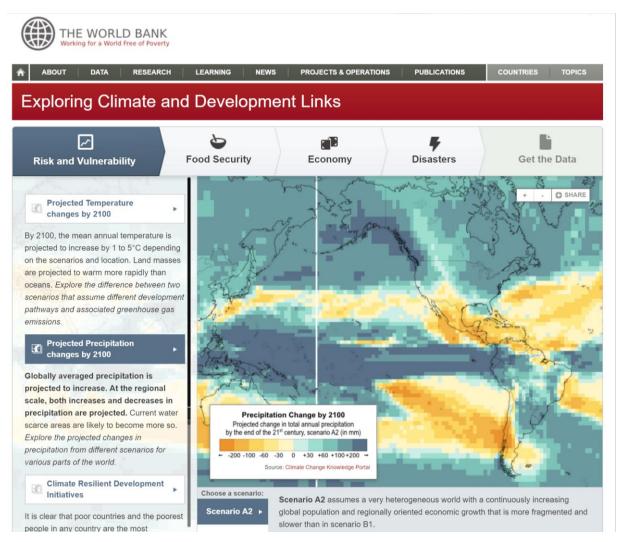


Brazil
Canada
Colombia
Costa Rica
México
Panamá
Peru
United States

Effects of climate change: changes in precipitation pattern







Floods

↑Landslides ↑Some waterborne diseases ↑Displacements



http://sdwebx.worldbank.org/climateportal/

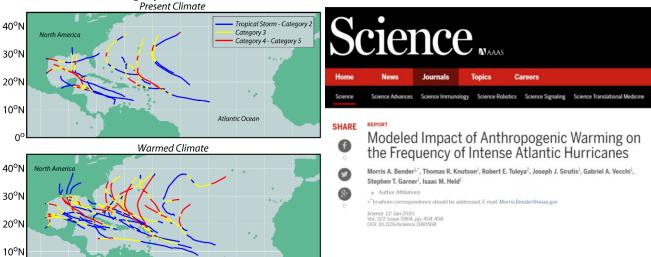
Droughts

- **↓**Food production
- **↓**Water resources
- **↓**Water quality
- **↑**Displacements

Effects of climate change: extreme events

Modeled Category 4 & 5 Hurricane Tracks

60°W



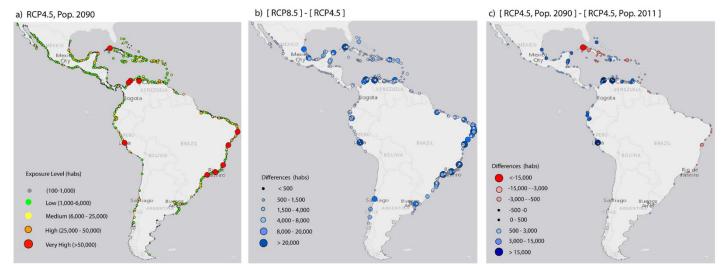






Effects of climate change: sea-level rise

20°W



An estimate of up to 4 million inhabitants to be displaced due to sea-level rise in LAC by 2090 (RCP8.5)

Reguero BG, Losada IJ, Díaz-Simal P, Méndez FJ, Beck MW (2015) Effects of Climate Change on Exposure to Coastal Flooding in Latin America and the Caribbean. PLoS ONE 10(7): e0133409. doi:10.1371/journal.pone.0133409 http://journals.plos.org/plosone/article?id=info:doi/10.1371/journal.pone.0133409

Climate-related disasters: adaptation and mitigation



Nearly 7 in 10 hospitals in Latin America and the Caribbean are located in disaster-prone areas.

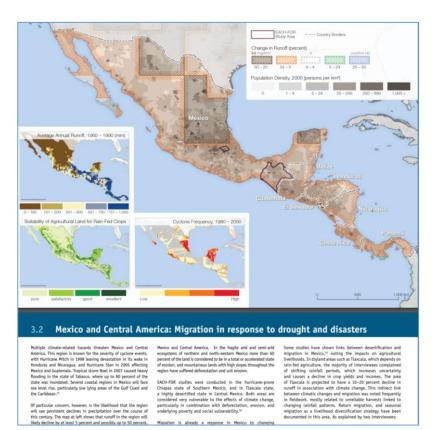
SMART Hospitals are both Safe and Green. PAHO toolkit http://www.paho.org/disasters/index.php

With the changing climate, more disasters are expected in the region









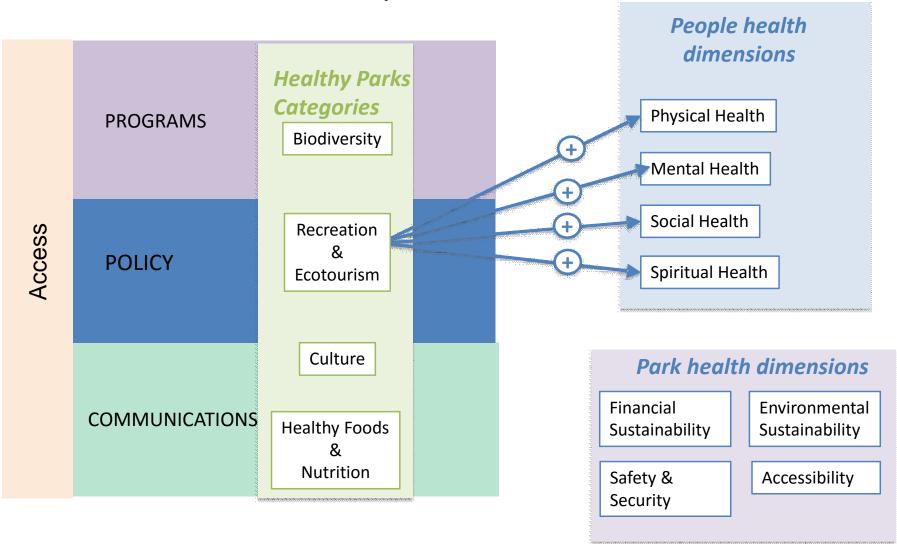
Mapping climate-related displacements in the Americas

Climate change mitigation: green urban spaces





Healthy Parks Tool





Health and climate change: Education



https://mooc.campusvirtualsp.org/course/





Adaptation and mitigation: a long way to go...



Washington, D.C., USA, 26-30 September 2011

Agenda Item 4.3

CD51/6, Rev. 1 (Eng.) 30 September 2011 ORIGINAL: ENGLISH

STRATEGY AND PLAN OF ACTION ON CLIMATE CHANGE

Introduction

- 1. In 2008, the 48th Directing Council of the Pan American Health Organization, convened a Roundtable on Climate Change and its Impacts on Public Health: a Regional Perspective (Document CD48/16) (/) and approved its final report (Document CD48/16, Add. II) (2). The Roundtable participants reviewed the paper titled Protecting Health from the Effects of Climate Change in the Region of the Americas: Moving from Evidence to Action (Document CD48/16 Annex A) (3), which proposed the elements and framework for a Regional Plan of Action to Protect Health from the Effects of Climate Change in the Region of the Americas.
- 2. International experts participated in drafting the Regional Plan at a regional workshop held in Brazil from 9 to 11 April 2008. The document, which considered as input climate change country assessments coordinated by PAHO, was later reviewed by most Member States from North America, Central America, South America, and the Caribbean. The 2008 draft Regional Plan has served as the foundation for PAHO's support of national intaitives on climate change and health and for developing a Strategy on Climate Change and Health for MERCOSUR (Common Market of the South) countries.
- The present document builds on the 2008 draft Regional Plan and is based on experiences at the national, subregional, and regional levels and on the workplan of the World Health Organization (WHO) on climate change and health (Document A62/11) (4).

Background

 The United Nations Framework Convention on Climate Change (UNFCCC) was opened for signature at the Earth Summit in Rio de Janeiro in 1992 and entered into force in Challenges: from 189 national climate change adaptation plans, only 15% explicitly mention health

Opportunities: PAHO can be the first WHO Region to have a plan on Climate Change, incorporating both the SDGs and the Paris Agreement

Health in the Americas 2017: Section devoted to Climate change