



**From Lima to Paris:
Can we get a climate agreement?
NGO – CSD Meeting December 2014**

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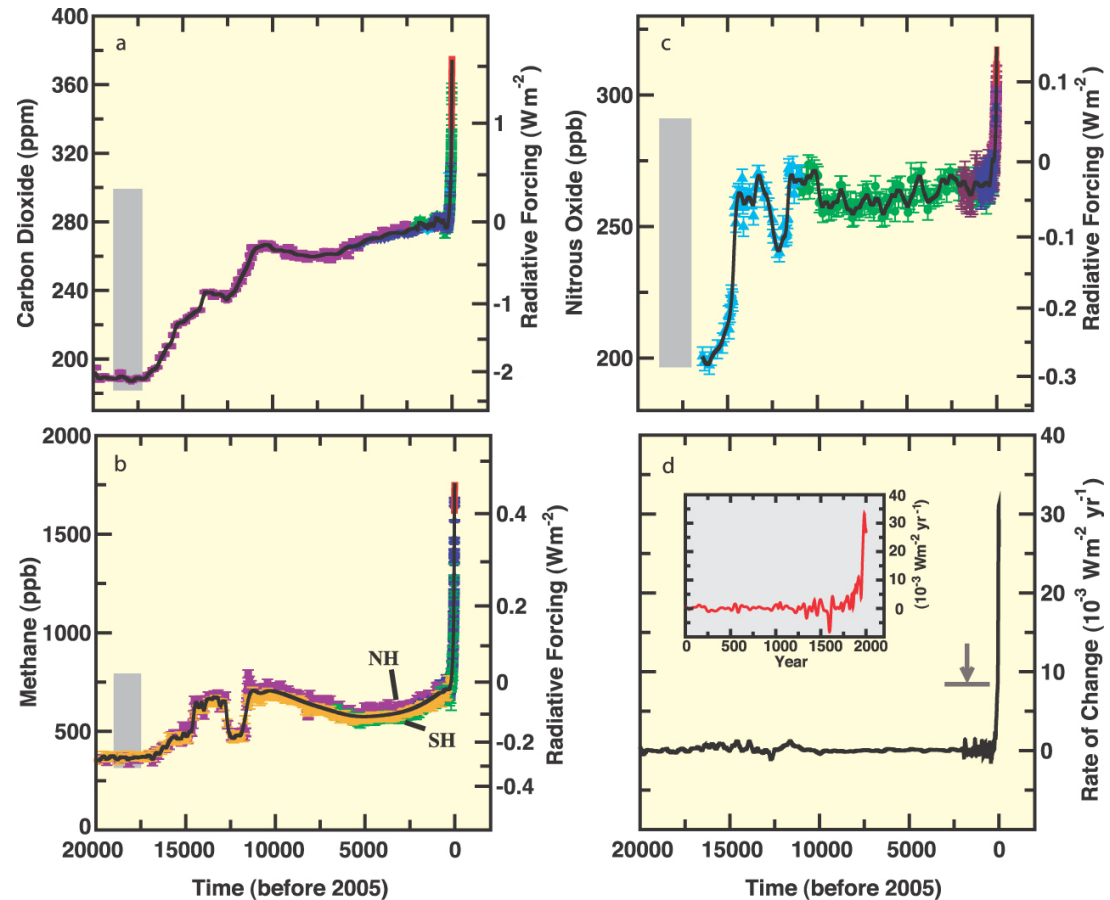
Climate Science Rapid Response Team Matchmaker

Climate Initiative Chair, UU-UNO

Science: Recent Global Warming due to Humans - Greenhouse Gases CO2...

20,000 years
of data;
CO2 spike
is recent,
continuing.

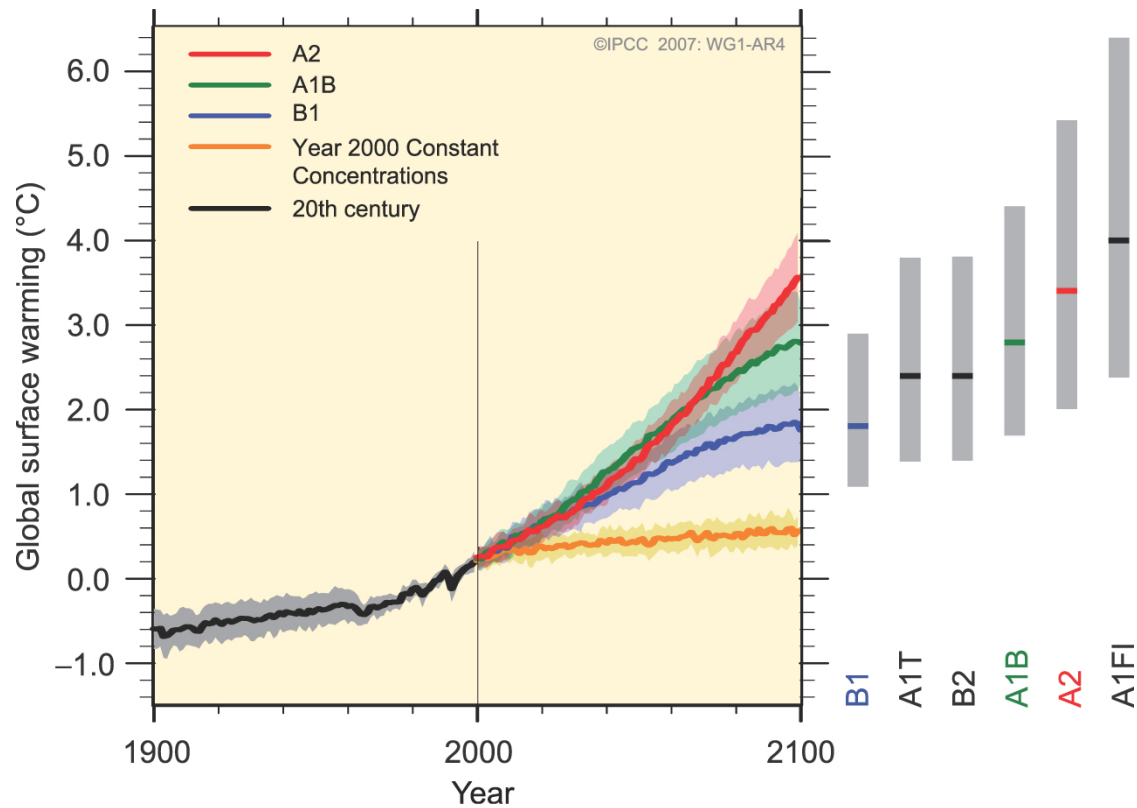
IPCC 2007
Science Vol I



Models - Warming Forecasts depend on Human Behavior (Scenarios)

IPCC 2007
Science Vol I

Now appear
conservative





Climate Impacts (Review)

- We humans are causing global warming
- We are seeing bad impacts **NOW**
- Impacts will get **FAR WORSE** if we do not act
- **No place to hide**
- **Disasters worse due to Climate Change:**
Increased conflict (wars/national insecurity),
water shortages, crop failures, intense fires,
droughts, flooding, species extermination,
disease increase, extreme weather, sea level rise,
heat waves, precipitation changed, AND
economic/finance disruption (breakdown?) ...



Climate Action: We CAN mitigate Climate Change / Global Warming:

- Recognize/acknowledge problem extent
- Practice Climate Risk Management
 - Long term solution vs. short term expediency
 - Change (fossil fuel to renewables ...)
 - Face obstacles: Disinformation campaign; Political obstruction, Economic issues, Psychological...
- Action: All levels from local to global needed
 - No “silver bullet” solution exists
 - Individuals, NGOs, business, cities, governments
 - *International* climate agreement: this talk =>

Lima Climate Change Conference



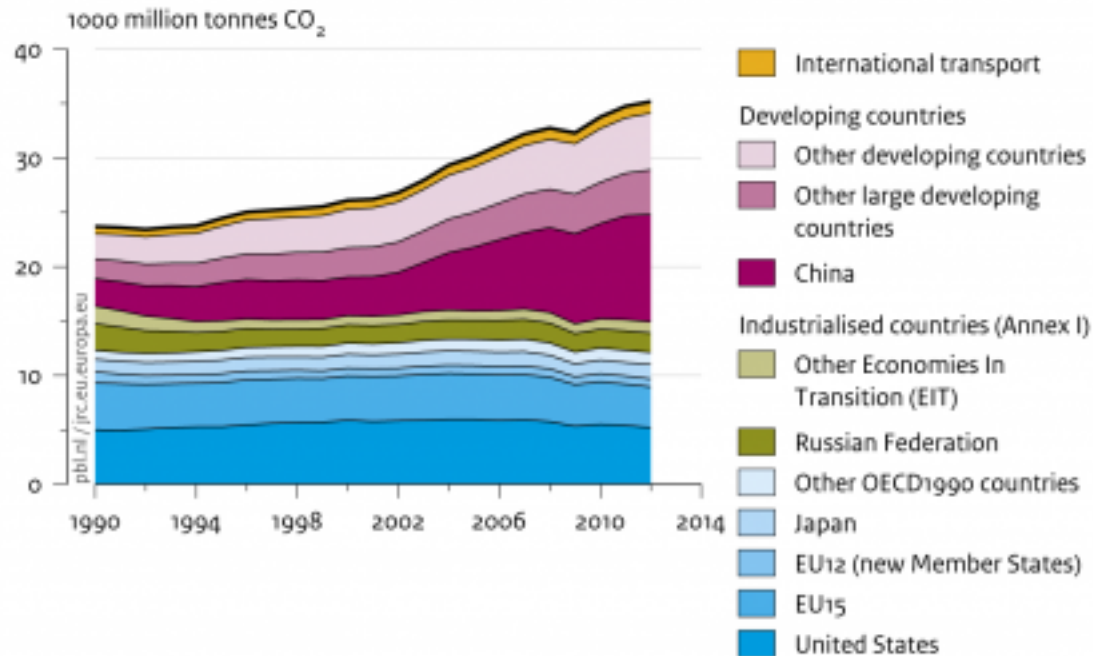
Road to a climate agreement

- ... Copenhagen ... Lima... Paris ...
- Goal: “FAB” climate agreement
 - “FAB” = Fair Ambitious Binding
 - Copenhagen Accord (2009) + Steady slow progress: Cancun, Durban, Doha, Warsaw
 - Just concluded: Lima Conference (Dec, 2014)
 - Commitment - finalize accord in Paris (2015)
- Then implement the agreement...
- That’s the plan (agreed to in Durban)
- What are the details? What are the problems?

Cumulative CO₂ problem

- EMISSIONS: US, EU 57%, China 7% in 2000 (developing nations cumulative CO₂ = over 50% of total by 2020)

Global CO₂ emissions per region from fossil-fuel use and cement production



Source: EDGAR 4.2FT2010 (JRC/PBL, 2012); BP, 2013; NBS China, 2013; USGS, 2013; WSA, 2013; NOAA, 2012

www.pbl.nl

Negotiation Issues

- **CARBON BUDGET: ESSENTIAL PROBLEM**
 - Can't burn all carbon and have livable world
- **Cumulative vs. Current CO₂**
 - Economic growth - developing countries.
 - “Energy parity” vs. CO₂ emissions.
- **Legal status (agreement vs. binding treaty)**
- **Who pays for what? When?**
 - Technology Assistance
 - Support for Adaptation
 - Reparations: Loss + Damage (Warsaw)



What were the Lima outcomes?

- Document “*Lima Call for Climate Action*”
- Progress toward difficult Paris accord
- Contentious process, last minute as usual
- What is in the Lima agreement?
 - Keeps goal global warming below 2⁰C (1.5⁰C)
 - Net-zero global GHG emissions by 2050
- These are good



Other issues

- INDCs (Intended Nationally Determined Contributions): March 2015 goal
- MRV (Measurement, Reporting, Verification): China
- CBDR (Common but Differentiated Responsibility): India



What didn't happen at Lima?

- Not enough climate risk management international action consistent with increasingly serious climate impacts
- No strong steps for emissions cuts
 - No target “Price On Carbon”
- No commitments (nationally determined)
- Legal status unspecified (binding treaty?)
- How to get to \$100B/year assistance goal

Green Investment (Green bonds)

Green Investment Potential
in Latin America

DOWNLOAD INFOGRAPHIC



Details on UU-UNO Climate Portal

climate.uu-uno.org

Lima Climate Conference Dec 2014 (COP 20)



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COP 20. Lima.

"The cornerstone for commitment to the future of our climate."

- [Lima Call for Climate Action](#) - Document resulting from the conference
- [Agenda](#)
- [Green Investment](#)
- [2013 Highlights Video](#)



Bottom Line

Climate: big problem, we can solve it

- Humans now causing global warming
- Climate impacts bad, could become worse
- Powerful opponents exist to climate action
- We CAN prevent worst climate impacts
- Intl. climate agreement must play a role
- We must be optimistic (no alternative)

• **You can help**

Thank You

