A photograph of the Angkor Wat temple in Cambodia at sunset. The temple's silhouette is reflected in a body of water in the foreground. The sky is a mix of orange, yellow, and blue.

# Fifth to Sixth Assessment Cycle: IPCC WG III Perspective

P. R. Shukla and Jim Skea, Co-Chairs IPCC WGIII

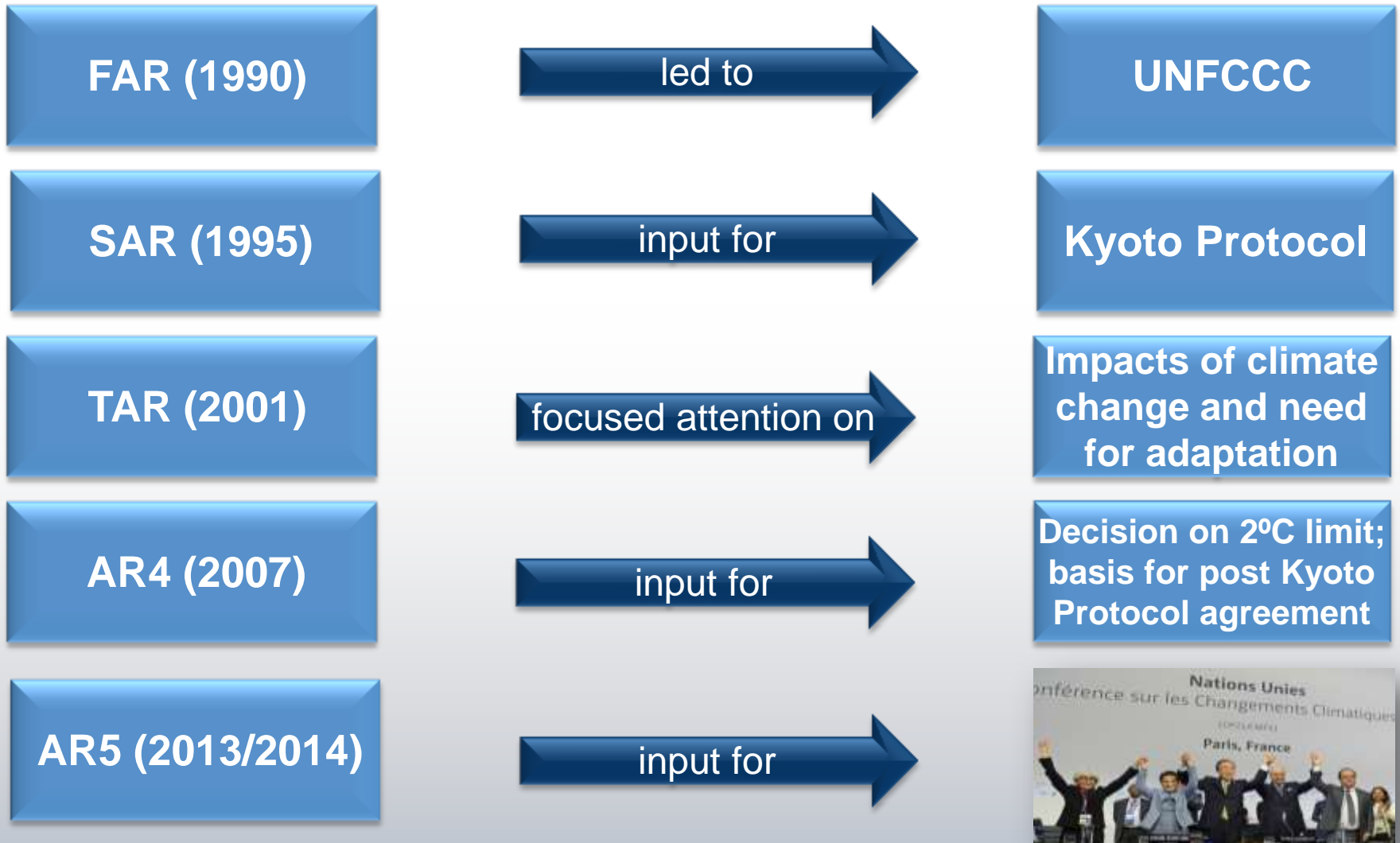
Cambodia, 28 May 2019

[http://bit.ly/ipcc\\_outreach\\_cambodia](http://bit.ly/ipcc_outreach_cambodia)

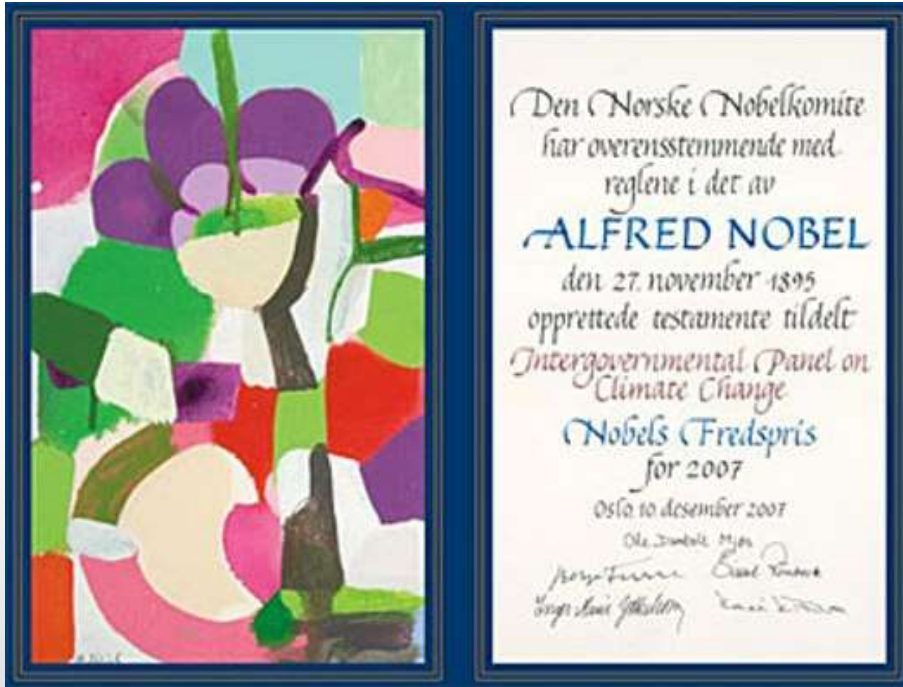
**ipcc**  
INTERGOVERNMENTAL PANEL ON climate change



# ...IPCC has made an impact



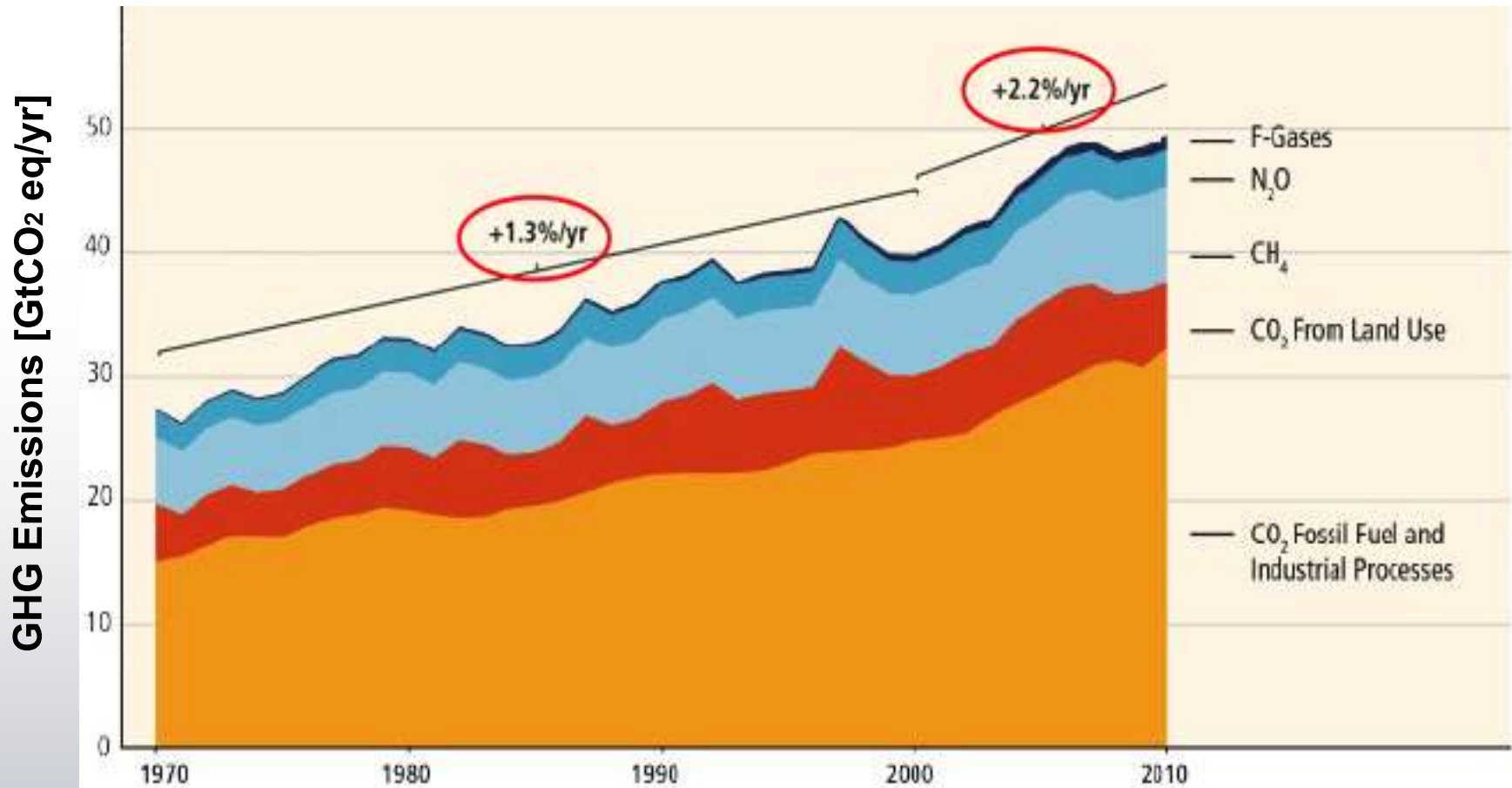
# Achievements: 2007 Nobel Peace Prize



The Intergovernmental Panel on Climate Change  
and Albert Arnold (Al) Gore Jr. were awarded  
the **Nobel Peace Prize**

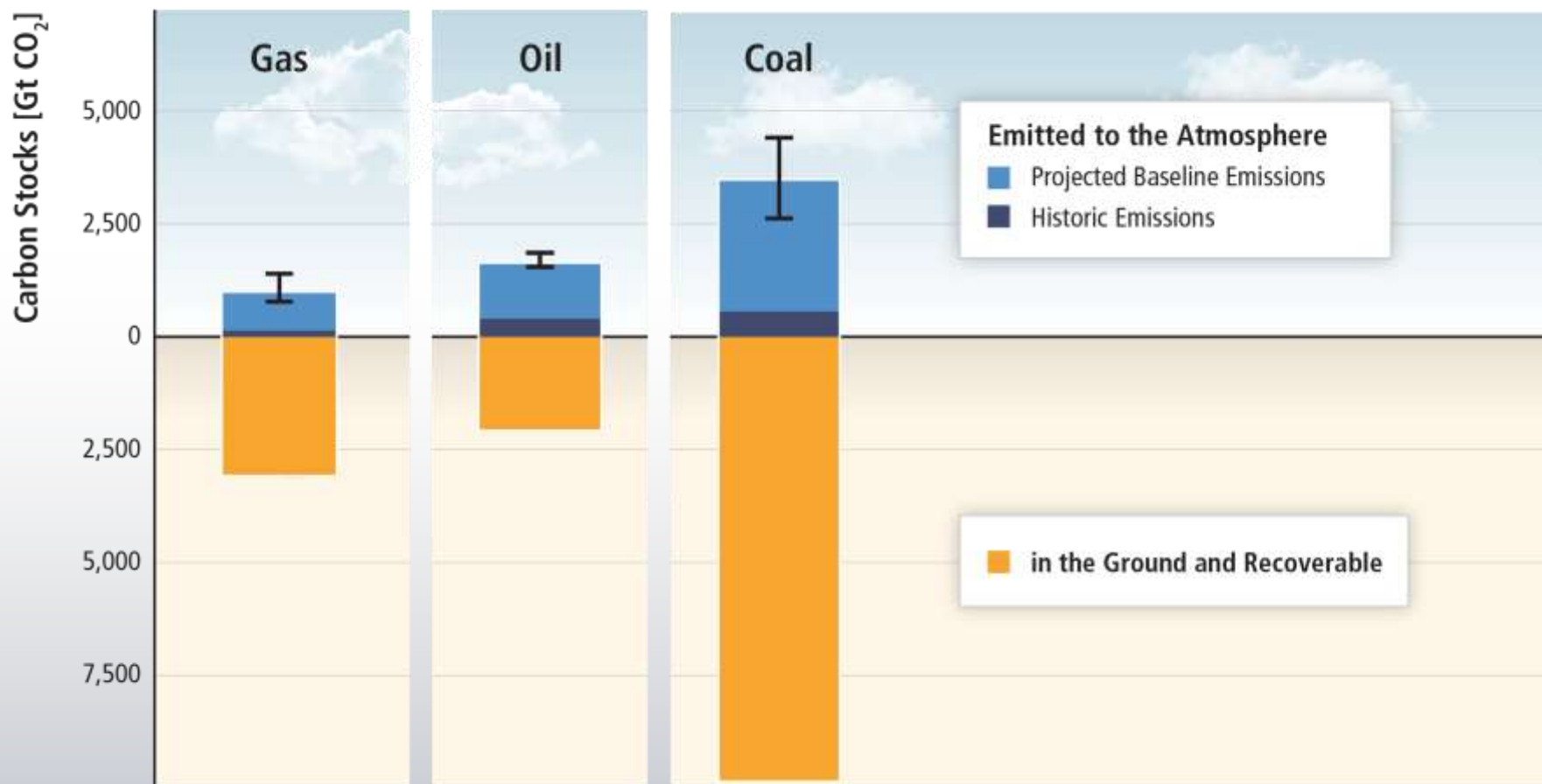
"for their efforts to build up and disseminate greater  
knowledge about man-made climate change, and to lay  
the foundations for the measures that are needed to  
counteract such change".

# GHG emissions growth between 2000 and 2010 has been larger than in the previous three decades. (IPCC AR5)



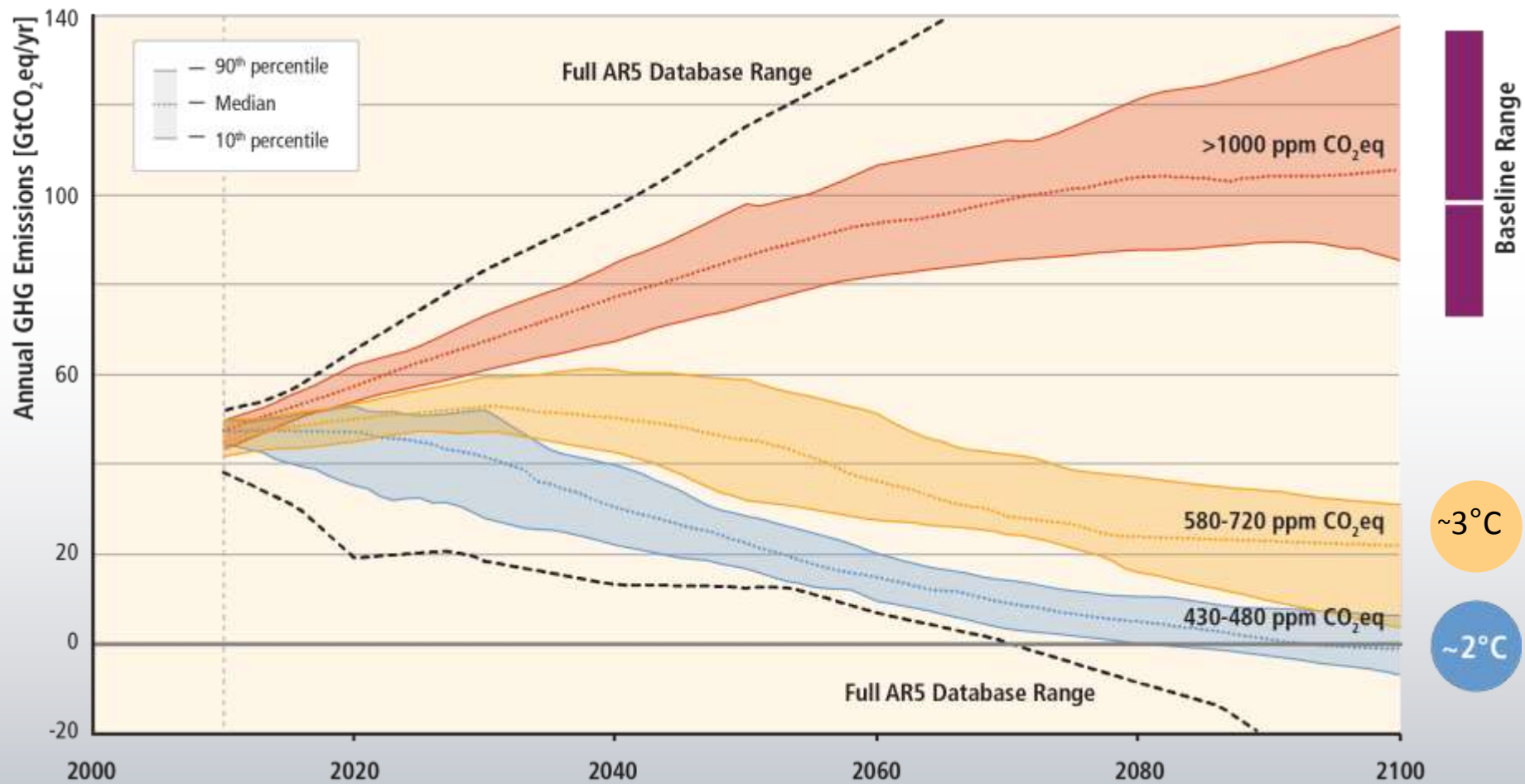
AR5 WGIII SPM

# There is far more carbon in the ground than emitted in any baseline scenario.



Based on SRREN Figure 1.7

# Stabilization of atmospheric concentrations requires moving away from the baseline – regardless of the mitigation goal.



Based on Figure 6.7

AR5 WGIII SPM



# Mitigation Measures (IPCC AR5)



## More efficient use of energy



## Greater use of low-carbon and no-carbon energy

- Many of these technologies exist today



## Improved carbon sinks

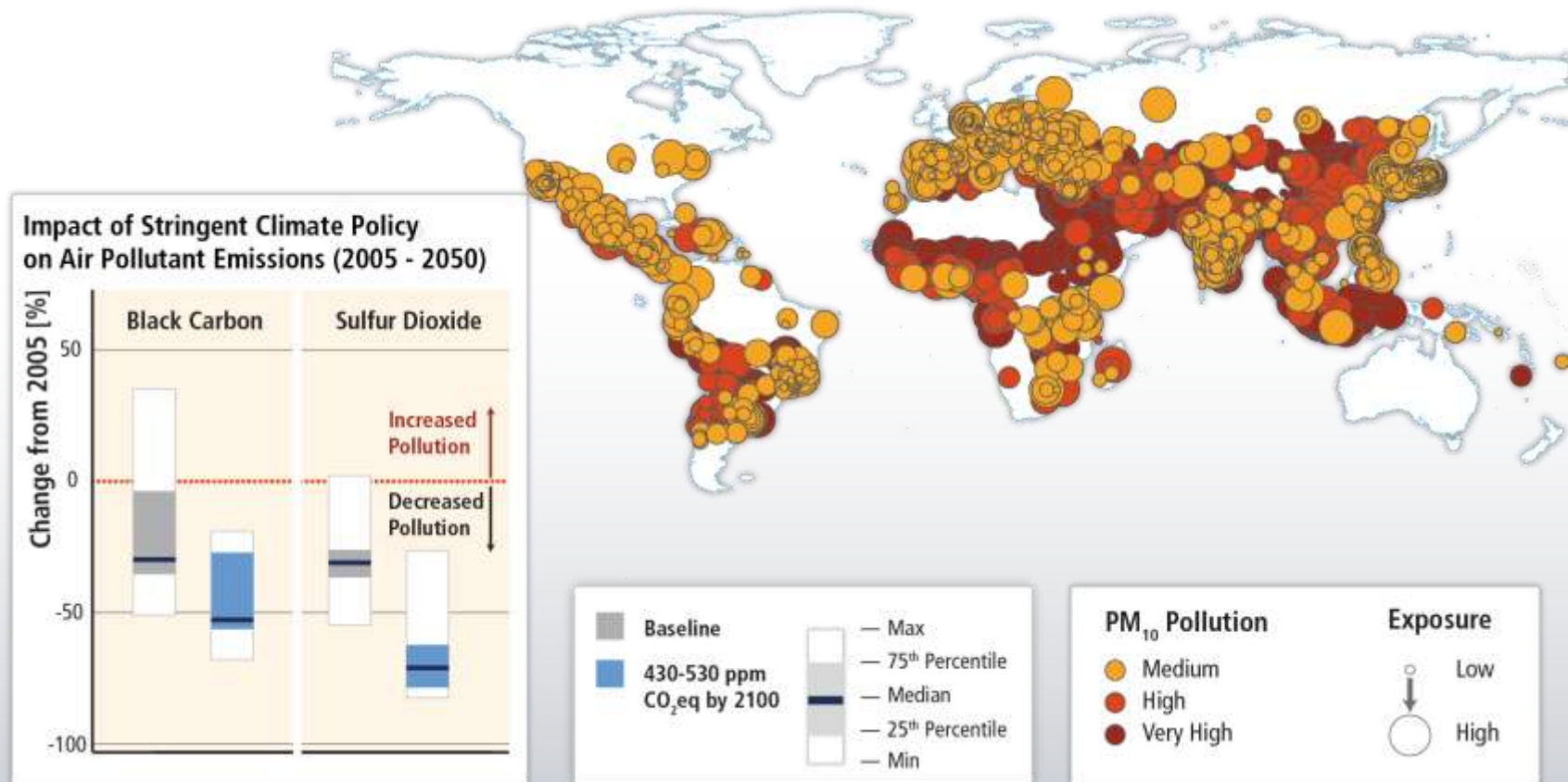
- Reduced deforestation and improved forest management and planting of new forests
- Bio-energy with carbon capture and storage



## Lifestyle and behavioural changes

AR5 WGIII SPM

# Climate change mitigation can bring co-benefits – health, energy security and other societal goals.



Based on Figures SPM.6 and 12.23



# IPCC WGIII AR5: Conclusions

GHG emissions growth has accelerated despite reduction efforts.

Climate change mitigation **is possible for 2 °C target** and early action will make it easier

Ambitious mitigation involves transformation of the energy system.

Climate change mitigation can bring co-benefits

# Climate Change and Sustainable Development Goals (SDGs)





# Main Products during the AR6 cycle

## 1) The Special Reports

Special Report on Global Warming of  
1.5°C (SR15)

Approved  
October 2018



PARIS2015  
UN CLIMATE CHANGE CONFERENCE  
COP21·CMP11



Special Report on Ocean and  
Cryosphere (SROCC)



Approval  
September 2019

Special Report on Climate  
Change and Land (SRCCL)



Approval  
August 2019

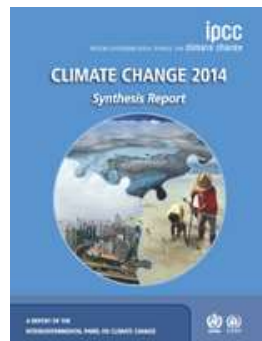
# Main Products during the AR6 cycle



A screenshot of a methodology report table, likely from the IPCC Working Group II report. The table has multiple columns and rows, with a color-coded header row (yellow, green, blue, red). The text is small and difficult to read, but it appears to be a detailed table of contents or a list of methodologies.

**2) A methodology report (inventories)**

**3) Three Working Group reports**



**4) A Synthesis Report**

# THANK YOU FOR YOUR ATTENTION!

## For more information:

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