

# ENVIRONMENT

GLOBALIZATION  
c. 1900 to the present



## c. 1900-NOW



**THIS IS THE THEMATIC FOCUS. IT'S WHAT YOU SHOULD FOCUS ON FOR THIS SECTION**

**THEMATIC FOCUS**

**Humans and the Environments ENV**

The environment shapes human societies, and as populations grow and change, these populations in turn shape their environments.

**HISTORICAL DEVELOPMENTS**

**KC-6.1.II.A**

As human activity contributed to deforestation, desertification, a decline in air quality, and increased consumption of the world's supply of fresh water, humans competed over these and other resources more intensely than ever before.

**KC-6.1.II.B**

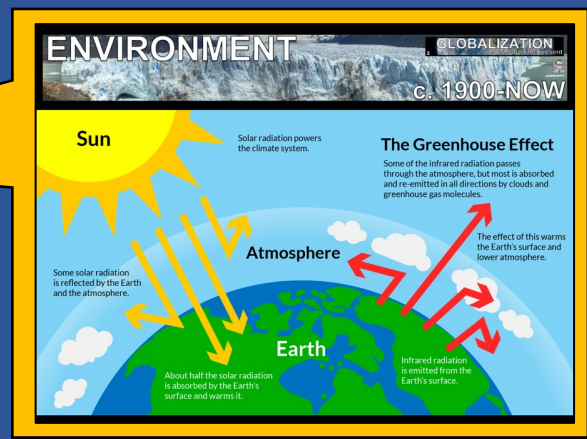
The release of greenhouse gases and pollutants into the atmosphere contributed to debates about the nature and causes of climate change.



**ipcc** United Nations  
 INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE 34,000 STUDIES, 270 SCIENTISTS FROM 67 NATIONS  
**IPCC CLIMATE CHANGE 2022 IMPACTS REPORT**

1. More widespread/severe than expected.
  - Floods rise 20 million refugees per year
  - Since 1961, Crop productivity in Africa shrunk by 1/3
  - 1/2 of all Humans face water insecurity for at least 1 month a year
  - Major species die-offs are increasing
2. Even if we completely decarbonize tomorrow, significant climate impact is locked in until at least 2040.
3. With 2 more degrees increase, 14% of remaining species will go extinct.
4. Climate Change impacts the Developing World at a much higher rate.
5. Many places have reached Hard Limits (no fix/solution will be able to repair).
6. The next few years provide a small window to create a sustainable planet.

THE 7TH REPORT IS DUE IN 2023

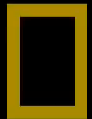


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- LET'S START WITH THE BASICS: CLIMATE VS. WEATHER:

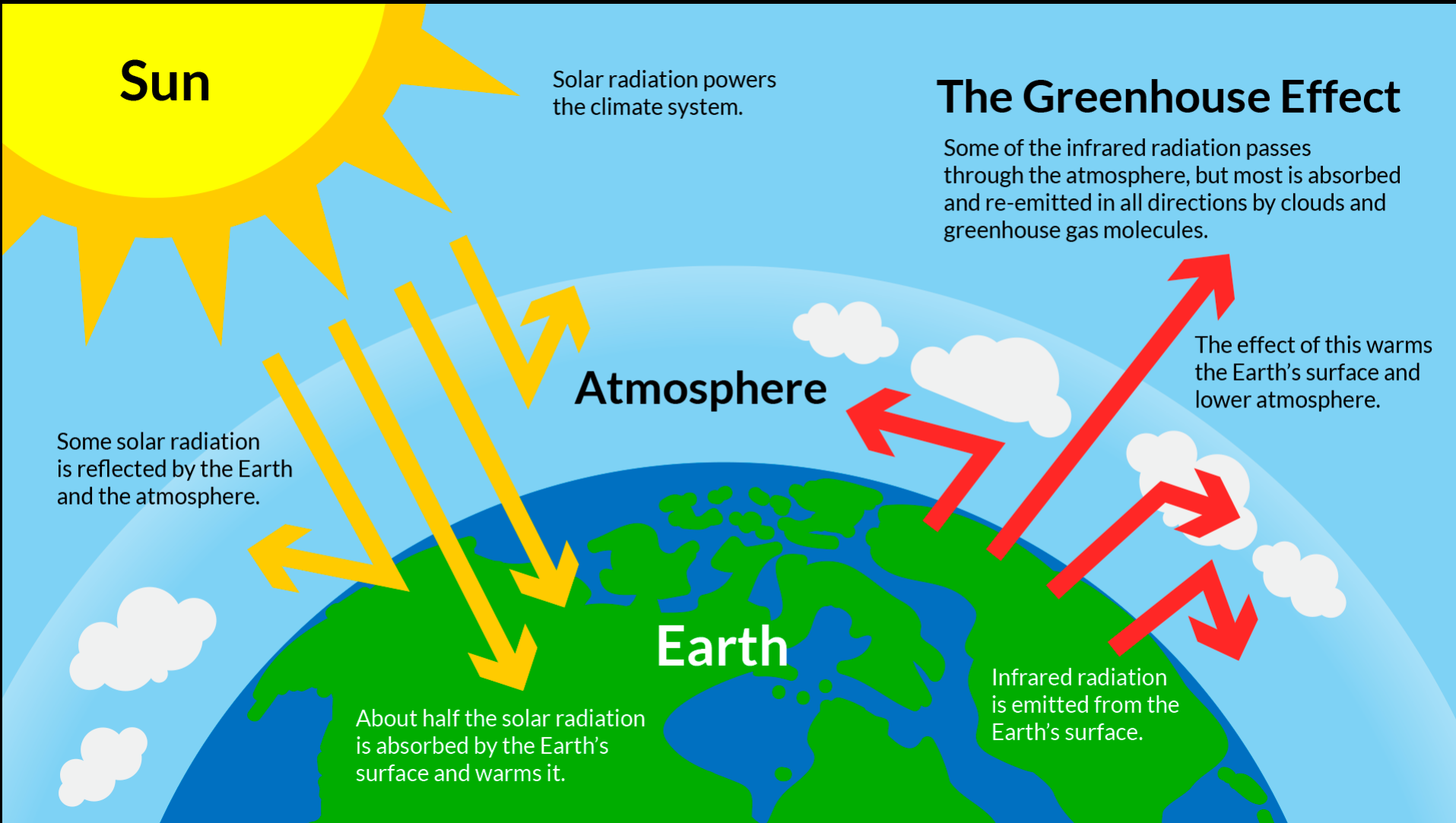


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# IPCC CLIMATE CHANGE 2022 IMPACTS REPORT



**United Nations**

INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE: 34,000 STUDIES, 270 SCIENTISTS FROM 67 NATIONS

## 1. More widespread/severe than expected.

- Floods/fires create 20 million refugees per year
- Since 1961, Crop productivity in Africa shrunk by 1/3
- 1/2 of all Humans face water insecurity for at least 1 month a year
- Massive species die-offs are increasing

## 2. Even if we completely decarbonize tomorrow, significant climate impact is locked in until at least 2040.

## 3. With 2 more degrees increase, 14% of remaining species will go extinct.

## 4. Climate Change impacts the Developing World at a much higher rate

- This will lead to mass migrations to the cities

## 5. Many places have reached Hard Limits (no fix/solution will be able to repair)

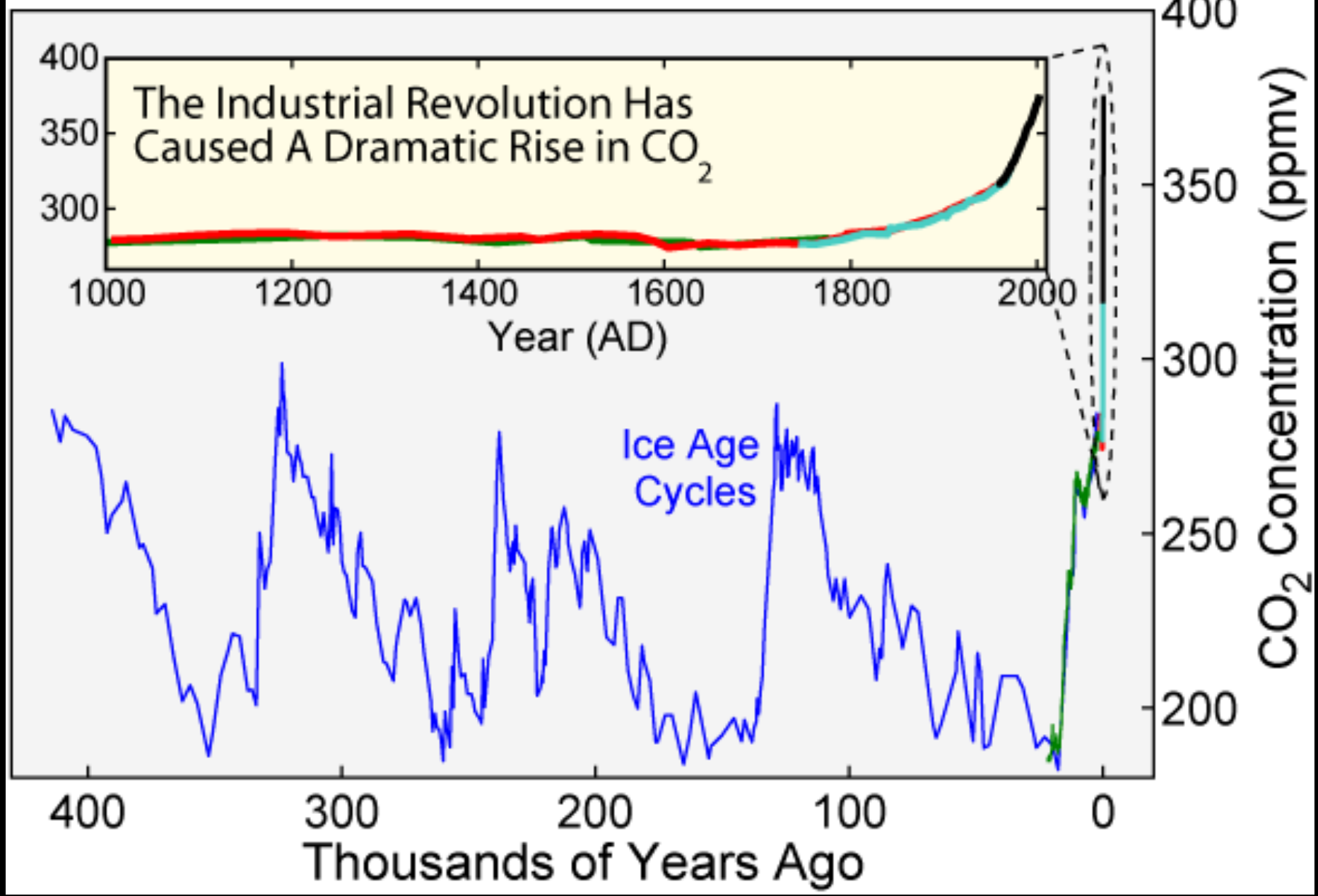
## 6. The next few years provide a small window to create a sustainable planet.



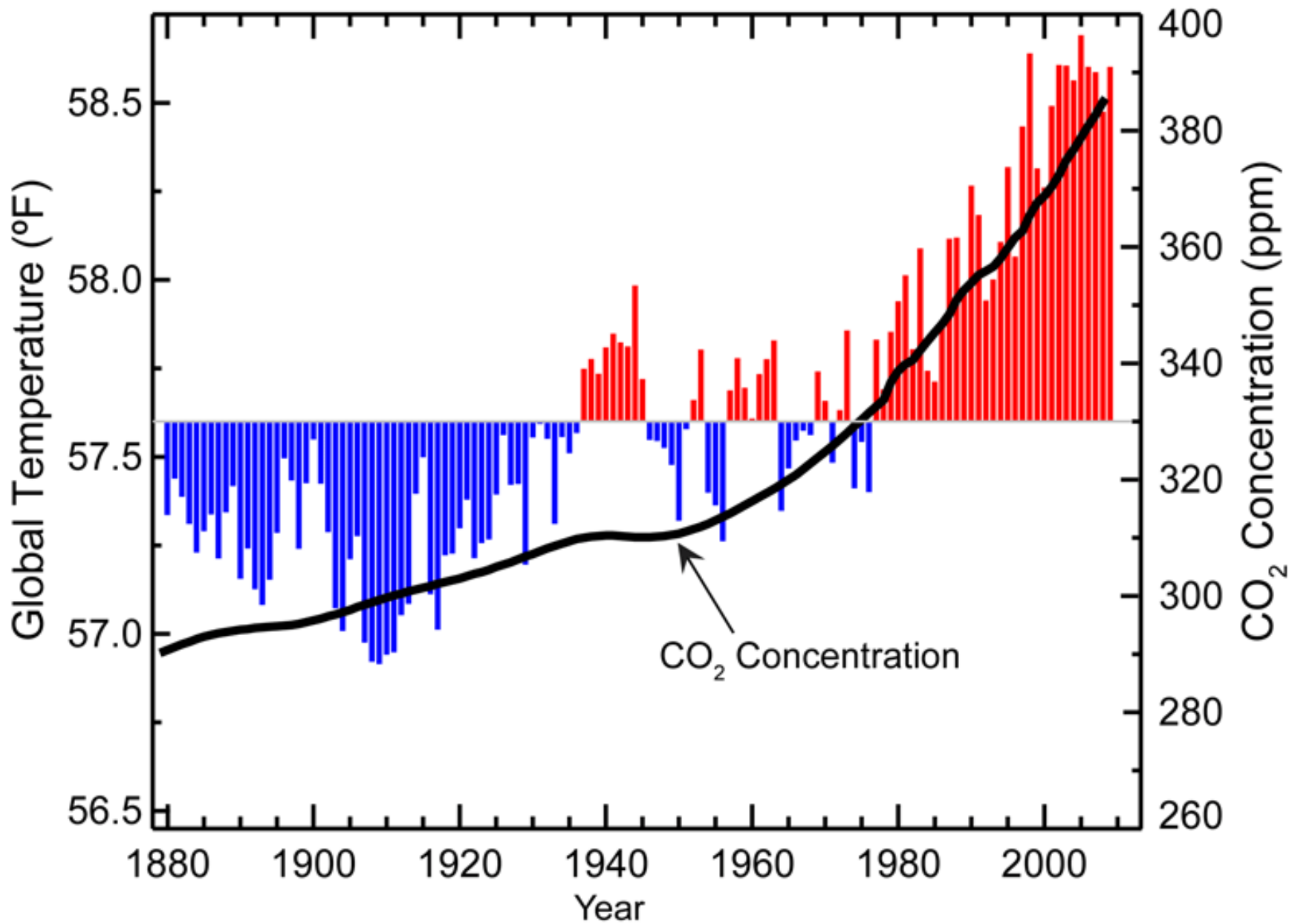
THE 7<sup>TH</sup> REPORT IS DUE IN 2030

**ipcc**  
INTERGOVERNMENTAL PANEL ON  
climate change

# Carbon Dioxide Variations



# Global Temperature and Carbon Dioxide



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 INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE 34,000 STUDIES, 270 SCIENTISTS FROM 67 NATIONS  
**IPCC CLIMATE CHANGE 2022 IMPACTS REPORT**

- 1. More widespread/severe than expected.**  
 - Floods affect 2.6 billion people per year  
 - Since 1961, Crop productivity in Africa shrunk by 1/3  
 - 1/2 of all Humans face water insecurity for at least 1 month a year  
 - Massive species die-offs are increasing
- 2. Even if we completely decarbonize tomorrow, significant climate impact is locked in until at least 2040.**
- 3. With 2 more degrees increase, 14% of remaining species will go extinct.**
- 4. Climate Change impacts the Developing World at a much higher rate.**  
 - The worst off are the poorest 1.3 billion people.
- 5. Many places have reached Hard Limits (no fix/solution will be able to repair)**
- 6. The next few years provide a small window to create a sustainable planet.**

THE 7TH REPORT IS DUE IN 2023

