

Knowledge sharing on the latest report (SR15) on

# Climate Change

from the Intergovernmental Panel for Climate Change (IPCC)

By Gregers Reimann

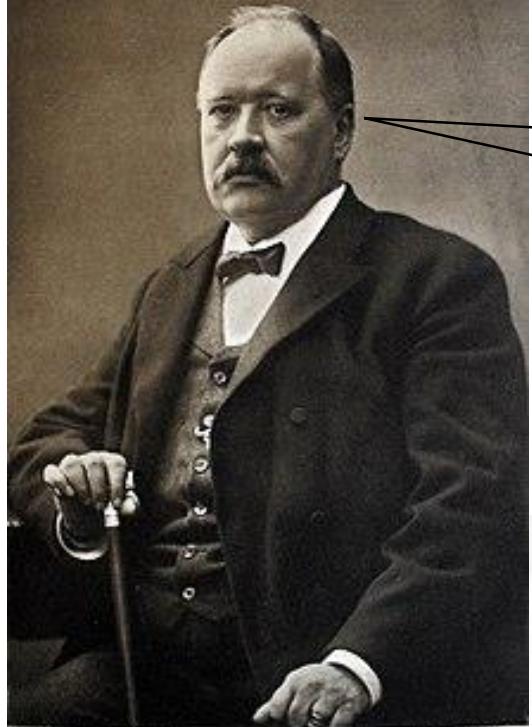
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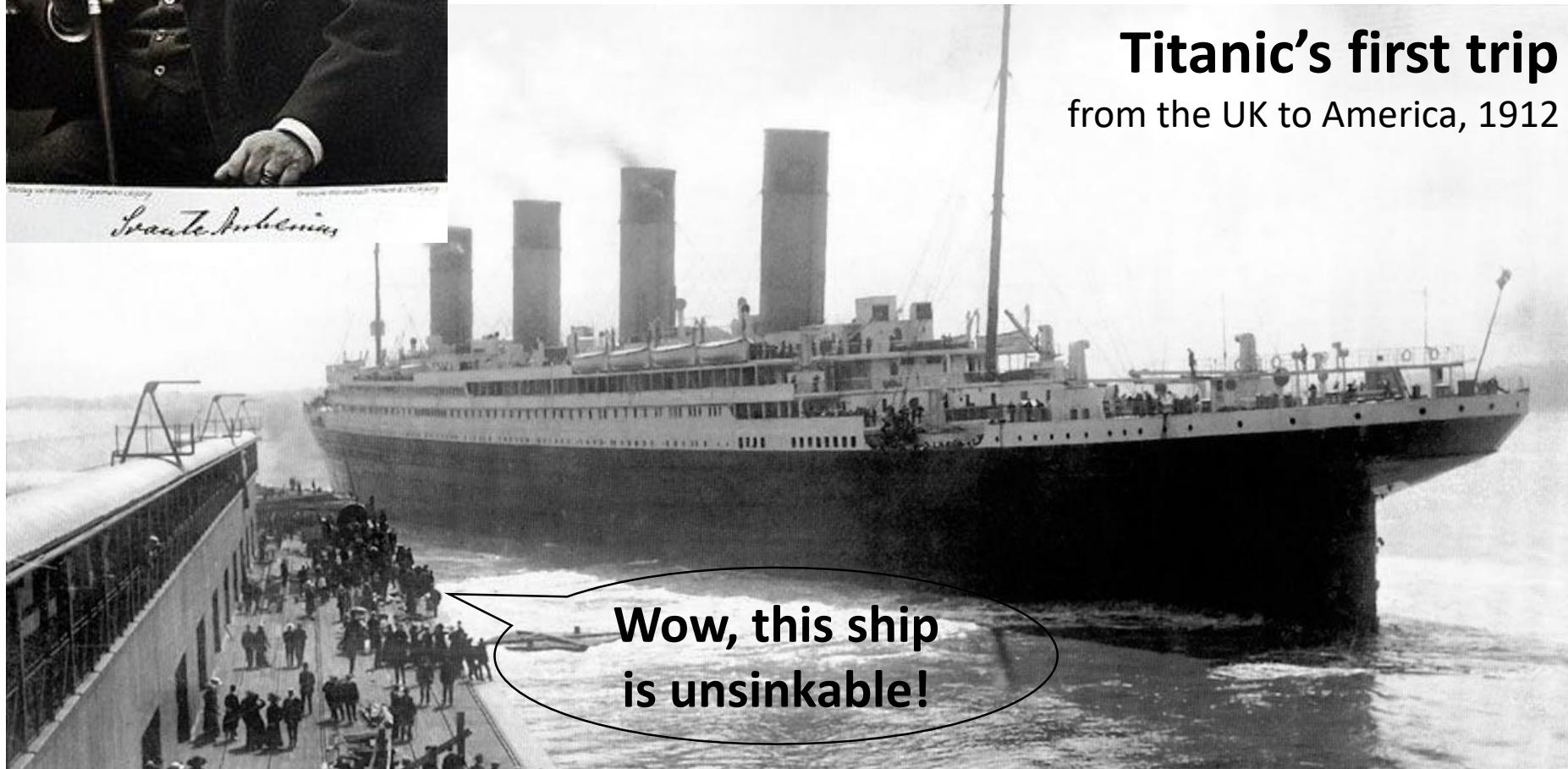
12 October 2018

# Climate Change 1896

The Swedish scientist Svante Arrhenius was the first person to predict that humans burning of fossil fuels would cause global warming



Be careful of  
icebergs!



**Titanic's first trip**  
from the UK to America, 1912

# Climate Change 2018

IPCC Climate Report (SR15)  
released this week in  
summary says:

*"We have 12 years to limit  
climate change catastrophe"*

*"Urgent changes needed to  
cut risk of extreme heat,  
drought, floods and poverty"*



# IPCC KEY MESSAGE:

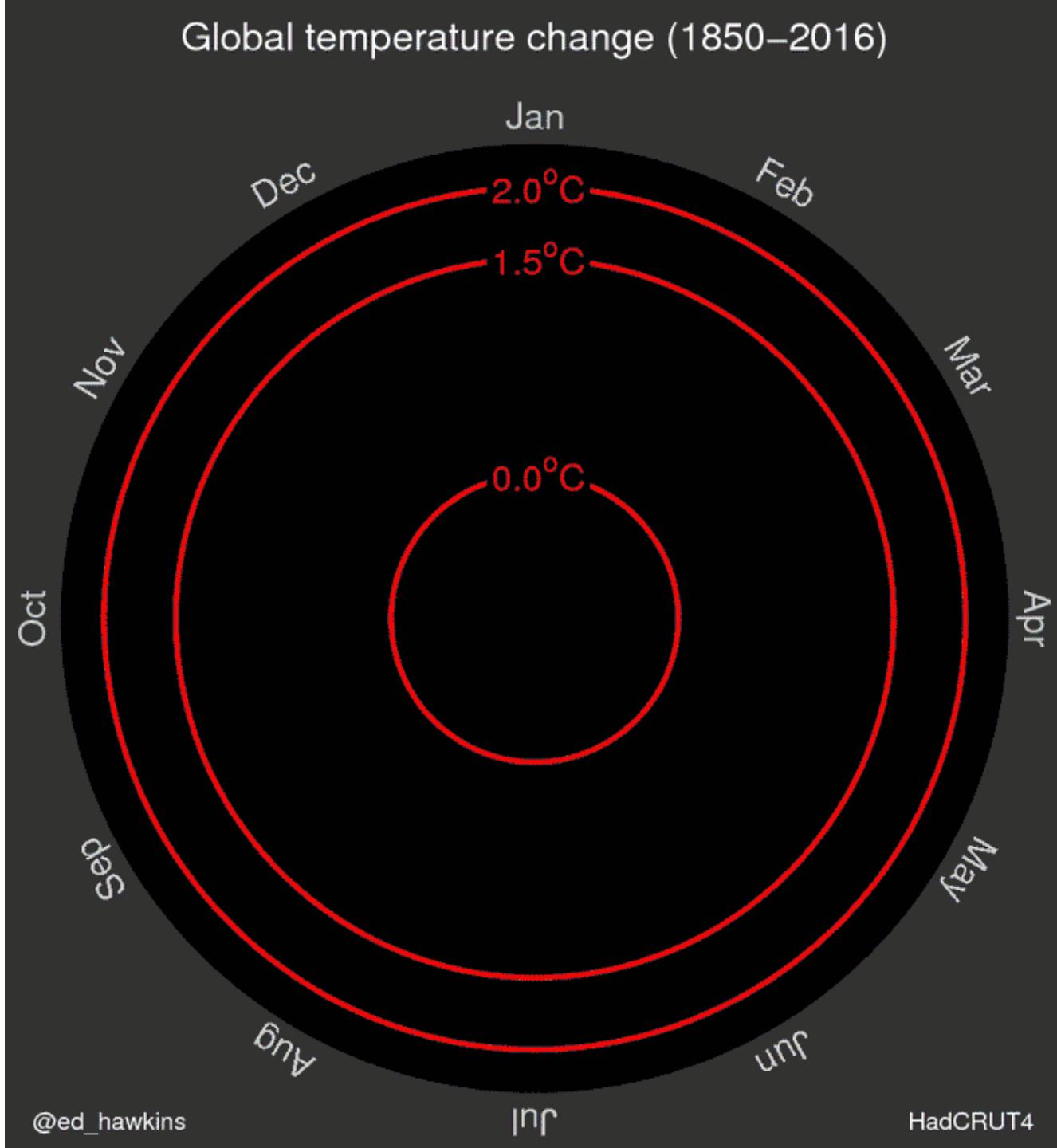
**“Don’t go beyond  
1.5°C global warming”**

Which means the World must achieve:

- 45% carbon emission reductions by 2030
- 100% carbon emission reductions by 2050

Key carbon emission reduction mechanisms include:

- Technological advancement (energy efficiency)
- Land use change (e.g. reforestation)
- Shift to electric transport systems
- Carbon capture technology
- Political will



# 1.5°C vs. 2.0°C

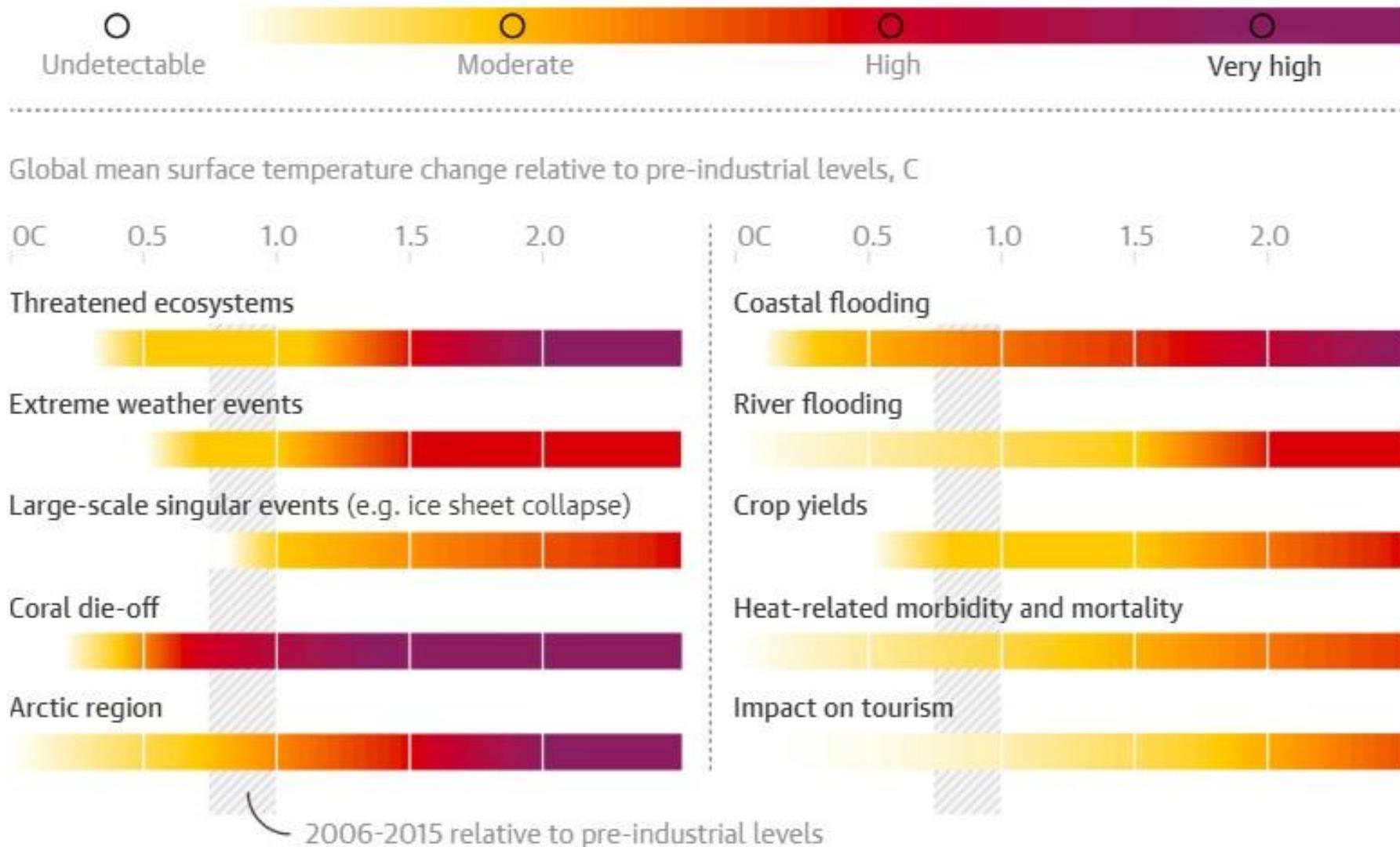
## Consequences of global warming

Earth has already warmed 1°C compared to pre-industrial levels. Currently, Earth has a warming rate of about 0.2°C per decade

Consequence	1.5°C	2°C
Coral reefs	10-30% survive	1% survive
Extreme heat waves	14% of the planet	33% of the planet
Water stressed population		2 times higher
Marine fishery loss of fish		2 times higher
Habitat loss of arctic polar bears, whales, seals and birds		10 times greater loss
Sea level rise by 2100		100 mm more
Sea level rise effect on people by 2100		10 million more people affected

# Rising temperatures, rising risks

## Key to impacts and risks



# What the IPCC SR15 final paper left out!

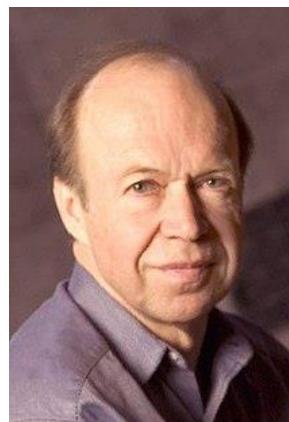
The final report is **“incredibly conservative”** because it did not mention the likely rise in climate-driven refugees and potential war, as well as the danger of tipping points that could push the world on to an irreversible path of extreme warming



**Bob Ward**

Grantham Research Institute on Climate Change

**Dr. James Hansen**  
Director of Climate Science,  
Awareness and Solutions  
Earth Institute



Both the 1.5°C and 2.0°C course will take humanity into **“uncharted and dangerous territory”**

## The next recession

How bad will it be?



Dirty capital: the City of London

The fate of Jamal Khashoggi

Medicare for all

Vegans on the rampage

## US economists win Nobel prize for work on climate and growth

William Nordhaus and Paul Romer honoured over two of most 'basic and pressing' issues



▲ Paul Romer (left) and William Nordhaus 'significantly broadened the scope of economic analysis by constructing models that explain how the market economy interacts with nature and knowledge'. Composite: Getty / AP

*Steve McCoy to elaborate .....*