

C





INCREASING CLIMATE CHANGE NEWS COVERAGE

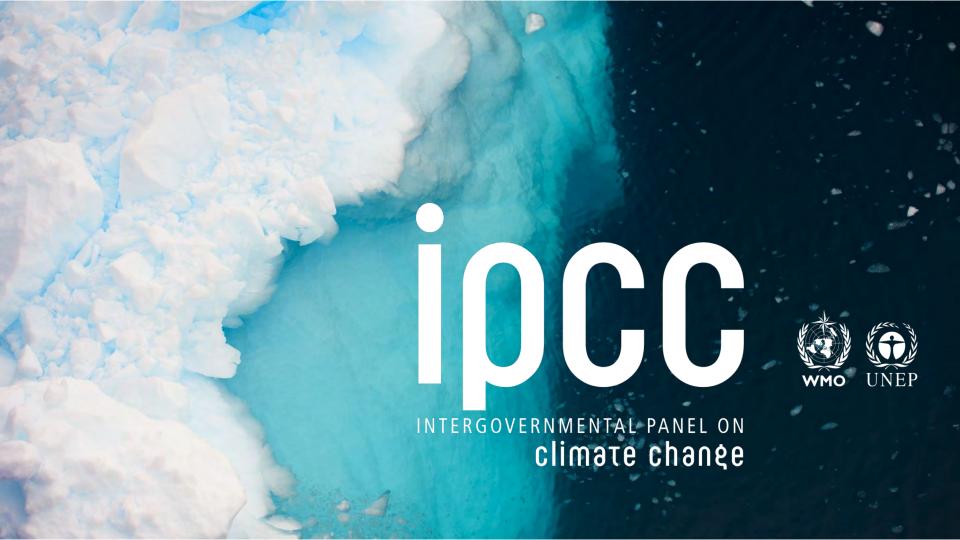












"The scientific evidence is unequivotal: climate change is a threat to human well-being and the health of the planet. Any further delay in concerted global action will miss the brief, rapidly closing window to secure a liveable future."

IPCC















- Waterborne, foodborne, and vectorborne disease
- Heat-related morbidity and mortality
- Air pollution and health
- Malnutrition
- Mental health

INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE



www.ChangingClimate.ca Climate Change Upstream Determinants of Exposure and Vulnerability Health System Capacity and Adaptation Demographic change Environmental pollution and stress - Inequities Other sectors. Ministries + Economic growth Land use change Structural racism and colonization agencies and of Health Urbanization civil society Leadership and goverance Health workforce **Vulnerability Factors** Health information Service delivery · Health and nutritional status · Social infrastructure systems · Climate informed health · Age · Social cohesion and capital · Health and climate research Gender · Political commitment programmes · Integrated risk monitoring and · Access to quality, culturally-relevant health care · Mobility and conflict status Management of environmental determinants of health early warning Socioeconomic status Collaboration & communication Emergency preparedness · Vulnerability, capacity, and adaptation assessment & management Adaptation and GHG Sustainable technologies Climate-related Exposure Pathways Mitigation and infrastructure Externe Water Food Vector Ecological Heat Air weather quality & distribution & culture security stress quality Climate and health financina events quantitity & safety & ecology niche Climate Sensitive Health Outcomes Injuries · Heat- Exacerbations · Campylobacteria Undernutrition Enchaphalitis Threats to **Health Important Sectors** Fatalities related of asthma and Cryptospiridiosis Salmonella Hantavirus livelihoods Mental illness other Algal blooms & other · Lyme disease Cultural health and death respiratory Leptospirosis foodborne · West Nile impacts Mental diseases - Vibrio diseases virus · Loss of impacts **CCHA 2022** health Allergies Effects from identity Cardiovascular pathogens Displacement impacts and other Mental health diseases chemicals impacts Adverse birth outcomes Mental health impacts

Climate Change impacts on Health

- Waterborne disease
- Foodborne disease
- Heat-related morbidity and mortality
- Air pollution and health

[Tomek Baginski]

INTERGOVERNMENTAL PANEL ON Climate change





Vectorborne Diseases

Changing environmental conditions
Earlier seasonal activity
Range expansion of vectors
Increased risk of transmission

ipco





Malnutrition

Changes in crop yields: Caloric intake

Changes in diversity of foods: Nutrition

Future changes in nutrient content of food: Nutrition







Climate change has already had severe and widespread mental kealth impacts





Sixth Assessment Report

WORKING GROUP II

Impacts, Adaptation and Vulnerability

Available to read now

#IPCC

#ClimateReport







Adverse mental health outcomes can emerge, even if someone has kan not personally or directly experienced climate change impacts





#1









Adaptation Examples

Within the health sector:

- Heat plans
- Early warning systems
- Mental health services in emergency response

Outside of the health sector:

- Improved food security
- Safe drinking water
- Green spaces











BUT,

How does the IPCC come to these conclusions?

#2















Approved by 195 countries and underpins climate change negotiations

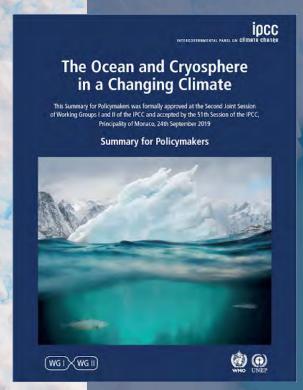
ipcc





- Author selection
- 4 lead author meetings
- Iterative draft process (x 3)
- Summary for Policymakers (SPM) prepared
- SPM is reviewed line by line in IPCC plenary
- Approved SPM = approved underlying chapters





IPCC Special Report on The Ocean and Cryosphere in a **Changing Climate**

#SROCC

SROCC Report by the numbers















The world's ocean and cryosphere have been 'taking the heat' from climate change for decades.

"Consequences for nature and humanity are sweeping and severe."





CLIMATE CHANGE IMPACTS ON HEALTH IN THE ARCTIC

Food Security



Nutrition







FOOD SECURITY IMPACTS

"Food and water security have been negatively impacted by changes in snow cover, lake and river ice, and permafrost in many Arctic regions (*high confidence*). These changes have disrupted access to, and food availability within, herding, hunting, fishing, and gathering areas, harming the livelihoods and cultural identity of Arctic residents including Indigenous populations (*high confidence*)."





FOOD SECURITY

"The ice is no longer predictable, it is not stable, people don't trust it"

"...accidental death through changes in ice conditions and weather conditions"

"people are jeopardizing their lives going out on unstable elements"



NUTRITION

"Increases in the risks for seafood security (*medium confidence*) associated with decreases in seafood availability are projected to elevate the risk to nutritional health in some communities highly dependent on seafood (*medium confidence*), such as those in the Arctic, West Africa, and Small Island Developing States."





EXAMPLE: BC First Nations



- Seafood: protein, EPA, DHA, vitamins, minerals
- Climate change projections:
 - 21% decrease in nutrient intake by 2050 (RCP 2.6)
 - 32% decrease in nutrient intake by 2050 (RCP 8.5)
- Substitution of seafood with nontraditional foods (e.g. chicken, canned tuna) did not replace the nutrients lost

CLIMATE CHANGE IMPACTS ON HEALTH IN THE ARCTIC

Food Security



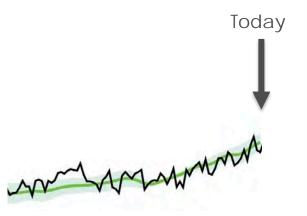
Nutrition







OUR FUTURE: ACTIONS TODAY MATTER



Continue with business as usual:

- Health impacts will increase
- Increased adaptation will not be enough

Drastically reduce emissions:

- Health impacts will continue to increase
- Increased adaptation will help

AND,

How does this feed into decision-making arenas?

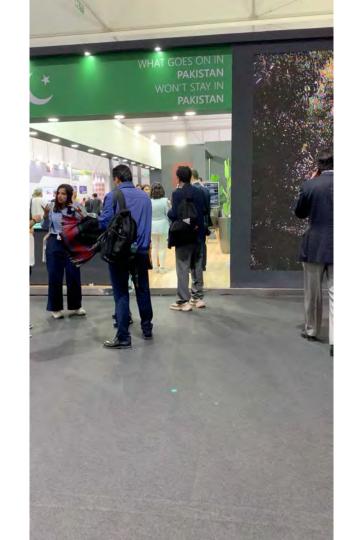
#3





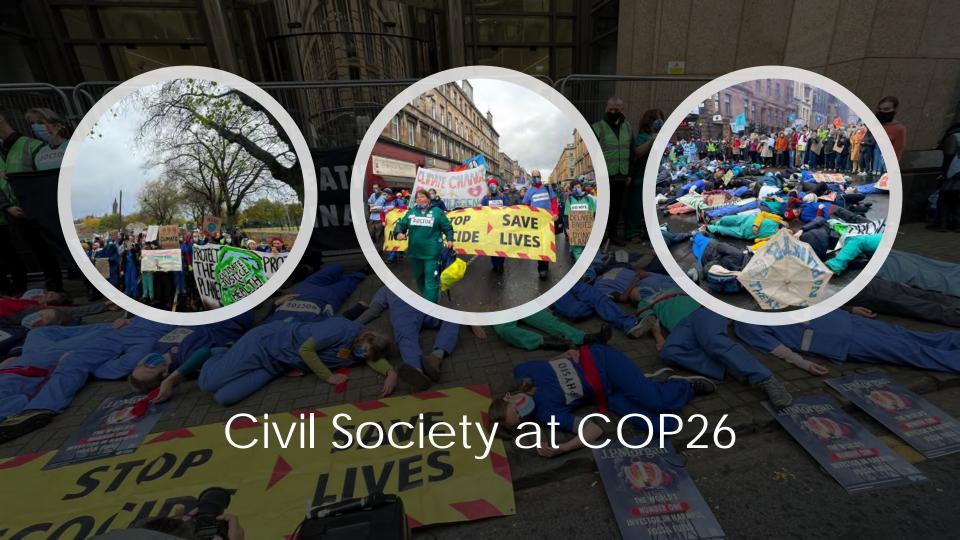














COP27

SHARM EL-SHEIKH EGYPT 2022



Focus efforts on people who will listen

Majority of people are concerned about climate change

Small but vocal minority are dismissive of climate change (9% of Americans)

Focus efforts on the majority of people who might listen, rather than changing the minds of the small minority of people who dismiss climate change

Photo by Markus Spiske on Unspl

Engaging with people about climate change

- Talk about common interests (e.g. camping, cooking, gardening).
 How climate change affects these things?
- 2. Discuss actions people are taking to address climate change (e.g. composting, reducing food waste, active transportation).
- 3. Acknowledge the power of "social contagion" for positive change.
- 4. Don't shame people. Focus on making connections and empathizing with others
- 5. Talk about climate change tell stories about your experiences, feelings, and solutions.
- 6. Practice hope.