



IPCC Special Report on the Ocean and Cryosphere in a Changing Climate (SROCC)

COP24 - December 2018, Katowice, Poland

Dr. Debra Roberts, IPCC WGII Co-Chair

ipcc

INTERGOVERNMENTAL PANEL ON climate change



BACKGROUND SROCC

- **IPCC invited proposals** (July 2015) for Special Reports to be prepared and concluded during AR6 cycle
 - 7 proposals related ocean and cryosphere
- **IPCC Panel agreed** (43rd Session, April 2016) to consider a Special Report on Climate Change and the Ocean and Cryosphere
- **Joint scientific leadership by WGI** (Physical Science Basis) **and WGII** (Impacts, Adaptation and Vulnerability)

SCOPING SROCC

- **Outline developed** at Scoping Meeting in Monaco (December 2016)
- **62 experts** were invited to discuss all aspects of the scope, outline, and contents of the report
- **Outline agreed** and adopted by IPCC Panel in April 2017



SROCC

- Provide a **focussed cross-cutting assessment** of:
 - The role of ocean and cryosphere in the climate system - observed and projected changes in oceans and cryosphere
 - Risks, vulnerability, impacts and implications of climate-related ocean and cryosphere change for eco- and human systems
 - Resilience pathways and adaptation options
- Present **new and updated information for decision-makers** to inform the design and implementation of appropriate policies and actions.

SROCC OUTLINE

1. Framing and Context of the Report
 2. High Mountain Areas
 3. Polar Regions
 4. Sea level rise and implications for low lying islands, coasts and communities
 5. Changing ocean, marine ecosystems, and dependent communities
 6. Extremes, abrupt changes and managing risks
- + Cross-chapter box: Low lying islands and coasts



SROCC TIMELINE

2017

- OCT 2 – 6 Oct**
First Lead Author Meeting

- DEC 1 December**
Internal Draft submitted to TSU
- 4 – 8 December**
TSU compile Internal Draft
- 11 December – 19 January 2018**
Internal Review

- JAN 26 January**
TSU send compiled review comments to CLAs

- FEB 12–16 Feb**
Second Lead Author Meeting

- APR 20 April**
First Order Draft submitted to TSU
- 23 – 30 April**
TSU compile First Order Draft

- MAY 4 May – 29 June**
Expert Review of First Order Draft

- JUL 6 July**
TSU send compiled review comments to CLAs
- 23 – 28 July**
Third Lead Author Meeting

- OCT 15 October**
cut-off date for submitted papers
- 19 October**
Second Order Draft submitted to TSU
- 22 October – 12 November**

- NOV 16 November – 11 January 2019**
Expert and Government Review of Second Order Draft

2018

2019

- JAN 18 January**
TSU send compiled review comments to CLAs

- MAR 4 – 9 March**
Fourth Lead Author Meeting

- MAY 15 May**
cut-off date for accepted papers
- 31 May**
Final Draft submitted to TSU

- JUN 3 – 10 June**
TSU compile Final Draft
- 14 June – 9 August 2019**
final government review

- SEP 16–20 September 2019**
51st Session of the IPCC: Approval of the Summary for Policymakers, accepting the underlying Report

REGISTRATIONS ARE OPEN TO PARTICIPATE IN EXPERT AND GOVERNMENT REVIEW

IPCC Special Report
The Ocean and Cryosphere in a Changing Climate
Expert and Government review:
16 November 2018 - 11 January 2019

Registration:
<http://bit.ly/SROCC-SOD-review>

ipcc
INTERGOVERNMENTAL PANEL ON climate change





ipcc

INTERGOVERNMENTAL PANEL ON climate change

The WGII (Impacts, Adaptation and Vulnerability) Contribution to the IPCC Sixth Assessment Cycle (AR6)

Co-Chairs' overarching goals

- storyline from **climate to natural systems to human societies**, their response options, the associated feedback potential
- framework that incorporates **risk reduction through adaptation and mitigation**
- wider use of **social sciences** (incl. anthropology and psychology) **for adaptation** (lifestyle choices: decision making, behaviour, consumption, technologies, societal inertia and transformation)
- **address tradeoffs and synergies** between climate change adaptation and mitigation **link to policy goals** (e.g., SDGs, poverty reduction, biodiversity)
- Focus on **solutions**

Chapter 1: Point of departure and key concepts

SECTION 1: RISKS, ADAPTATION AND SUSTAINABILITY FOR SYSTEMS IMPACTED BY CLIMATE CHANGE

Chapter 2: Terrestrial and freshwater ecosystems and their services

Chapter 3: Ocean and coastal ecosystems and their services

Chapter 4: Water

Chapter 5: Food, fibre, and other ecosystem products

Chapter 6: Cities, settlements and key infrastructure

Chapter 7: Health, wellbeing and the changing structure of communities

Chapter 8: Poverty, livelihoods and sustainable development

SECTION 2: REGIONS

Chapter 9: Africa

Chapter 10: Asia

Chapter 11: Australasia

Chapter 12: Central and South America

Chapter 13: Europe

Chapter 14: North America

Chapter 15: Small Islands

SECTION 3: SUSTAINABLE DEVELOPMENT PATHWAYS: INTEGRATING ADAPTATION AND MITIGATION

Chapter 16: Key risks across sectors and regions

Chapter 17: Decision-making options for managing risk

Chapter 18: Climate resilient development pathways

CROSS CHAPTER PAPERS

Biodiversity hotspots (land, coasts and oceans)

Cities and settlements by the sea

Deserts, semi-arid areas, and desertification

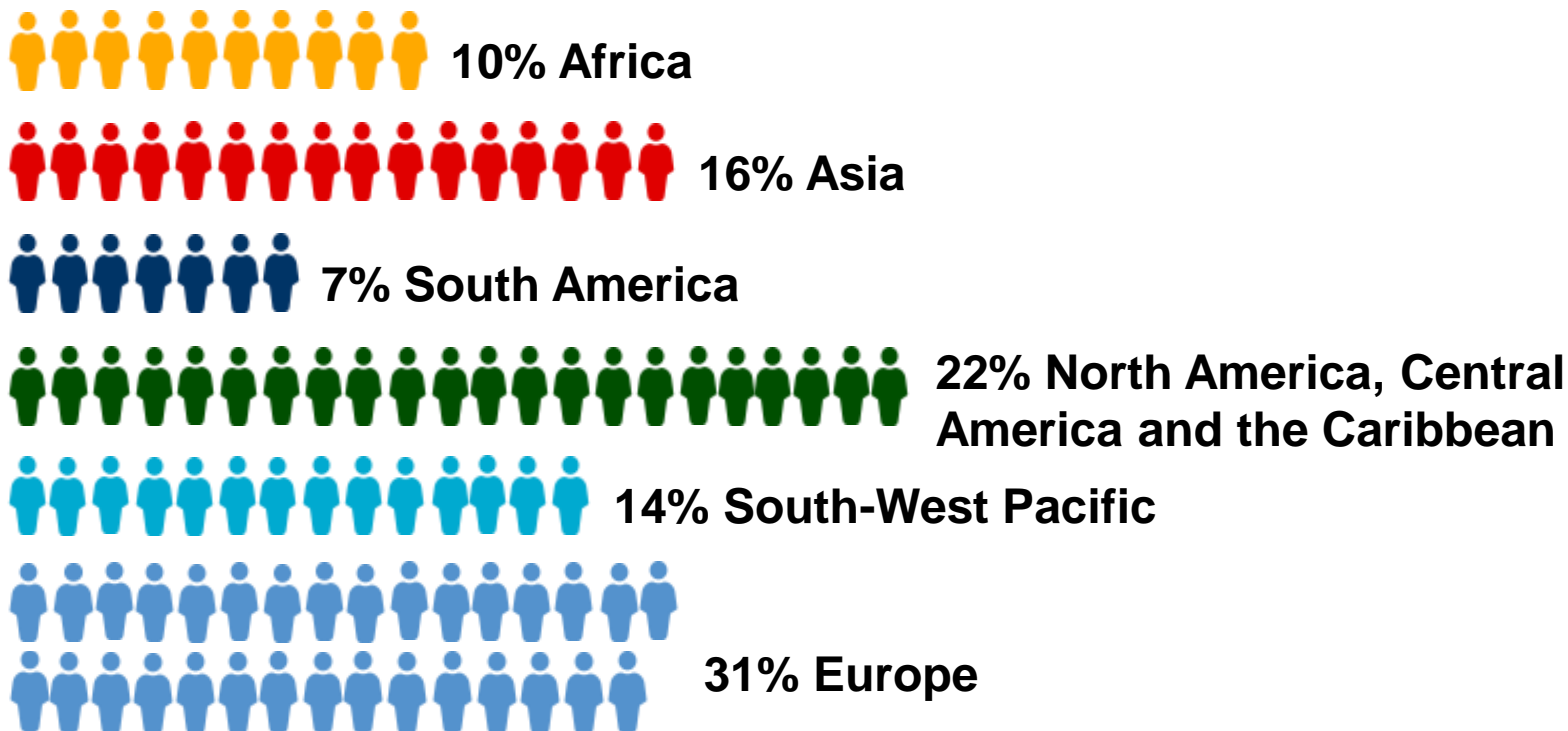
Mediterranean region

Mountains

Polar regions

Tropical forests

Authors by region (citizenship)



IPCC WGII Timeline

2019

- JAN 21 – 25 Jan 2019**
First Lead Author Meeting (Durban, South Africa)

- APR 26 April 2019**
Internal Draft submitted to TSU
- 29 April – 9 May 2019**
TSU compile Internal Draft
- MAY 10 May – 14 June 2019**
Internal Draft Review

- JUN 21 June 2019**
TSU send compiled review comments to CLAs (date tbc)

- JUL 15 – 19 July 2019**
Second Lead Author Meeting (Kathmandu, Nepal)

- OCT 7 October 2019**
First Order Draft submitted to TSU
- 8 – 18 October 2019**
TSU compile First Order Draft
- OCT 21 October – 16 December 2019**
Expert Review of First Order Draft
- DEC 20 December 2019**
TSU send compiled review comments to CLAs (date tbc)

2020

- JAN 27 – 31 January 2020**
Third Lead Author Meeting (Faro, Portugal)

- JUN 26 June 2020**
cut-off date for submitted papers
- JUL 10 July 2020**
Second Order Draft submitted to TSU
- 13 July – 6 August 2020**
TSU compile Second Order Draft
- AUG 7 August – 2 October 2020**
Expert and Government Review of Second Order Draft
- OCT 9 October 2020**
TSU send compiled review comments to CLAs (date tbc)

- NOV 2 – 6 November 2020**
Fourth Lead Author Meeting (Cuba, location tbc)

2021

- MAY 14 May 2021**
cut-off date for accepted papers
- 28 May 2021**
Final Government Draft submitted to TSU
- 31 May – 10 June 2021**
TSU compile Final Government Draft
- JUN 11 June – 6 August 2021**
Final Government Draft Review

- OCT 4 – 8 October 2021**
55th Session of the IPCC: Approval of the Summary for Policymakers, accepting the underlying Report (date tbc)