



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

Joy Pereira, Vice-Chair of Working Group II

Outreach Event on IPCC Activities and Findings
Nay Pyi Taw, Myanmar, 30-31 May 2019

http://bit.ly/ipcc_outreach_myanmar

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INTERGOVERNMENTAL PANEL ON climate change



BACKGROUND SROCC

- **IPCC invited proposals** for Special Reports to be prepared and concluded during AR6 cycle in July 2015
 - 31 proposals were submitted
 - 7 of these focused on aspects of ocean and cryosphere
- **IPCC Panel agreed** (April 2016) to consider a special report on Climate Change and Oceans and Cryosphere to guide adaptation activities and decision-making
- To be developed under **joint scientific leadership of WGI** (Physical Science Basis) **and WGII** (Impacts, Adaptation, and Vulnerability)

OCEAN & CRYOSPHERE IN A GLOBAL CONTEXT

- **The Ocean**

- covers **>70%** of earth's surface
- plays a **key role in climate regulation**, weather system and global carbon cycle
- carries **~50%** of **global primary production**
- supports immense **biodiversity**
- provides important social and economic **goods and services** (tourism, fisheries, transport, etc)



OCEAN & CRYOSPHERE IN A GLOBAL CONTEXT

- **The Cryosphere**

- includes Antarctic and Greenland **ice sheets**, **sea ice**, **snow covers**, **mountain glaciers** and **ground ice**
- is **~2% of the world's water storage**, with **~11%** of the world's land surface and **7%** of ocean surface are covered with multiyear snow and ice
- plays a **key role** in river runoff, sea level rise, ocean-atmosphere exchange, permafrost methane storage, etc.
- holds water **equivalent to ~66 m of sea level rise**



SCOPING

- **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



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

LEAD AUTHOR MEETINGS

2nd LAM
Quito (Ecuador)
Feb 2018



4th LAM
Kazan (Russian Federation)
Mar 2019



3rd LAM
Lanzhou (China)
July 2018

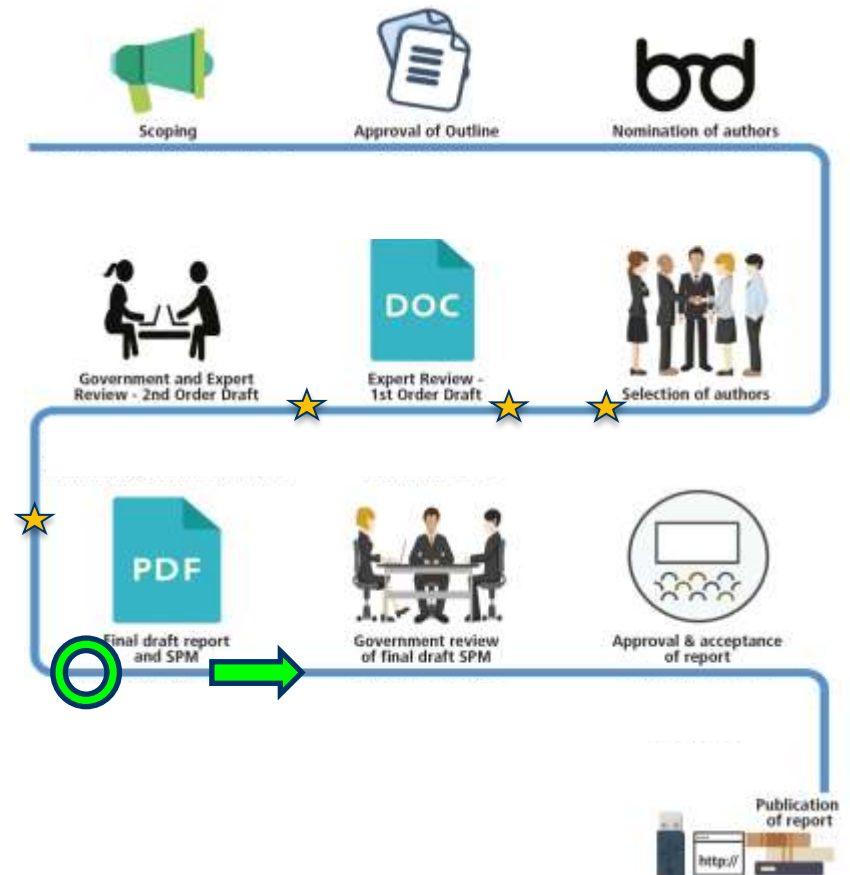


1st LAM
Nadi (Fiji)
Oct 2017



WHERE ARE WE NOW?

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



★ = Lead Author Meetings (LAMs)

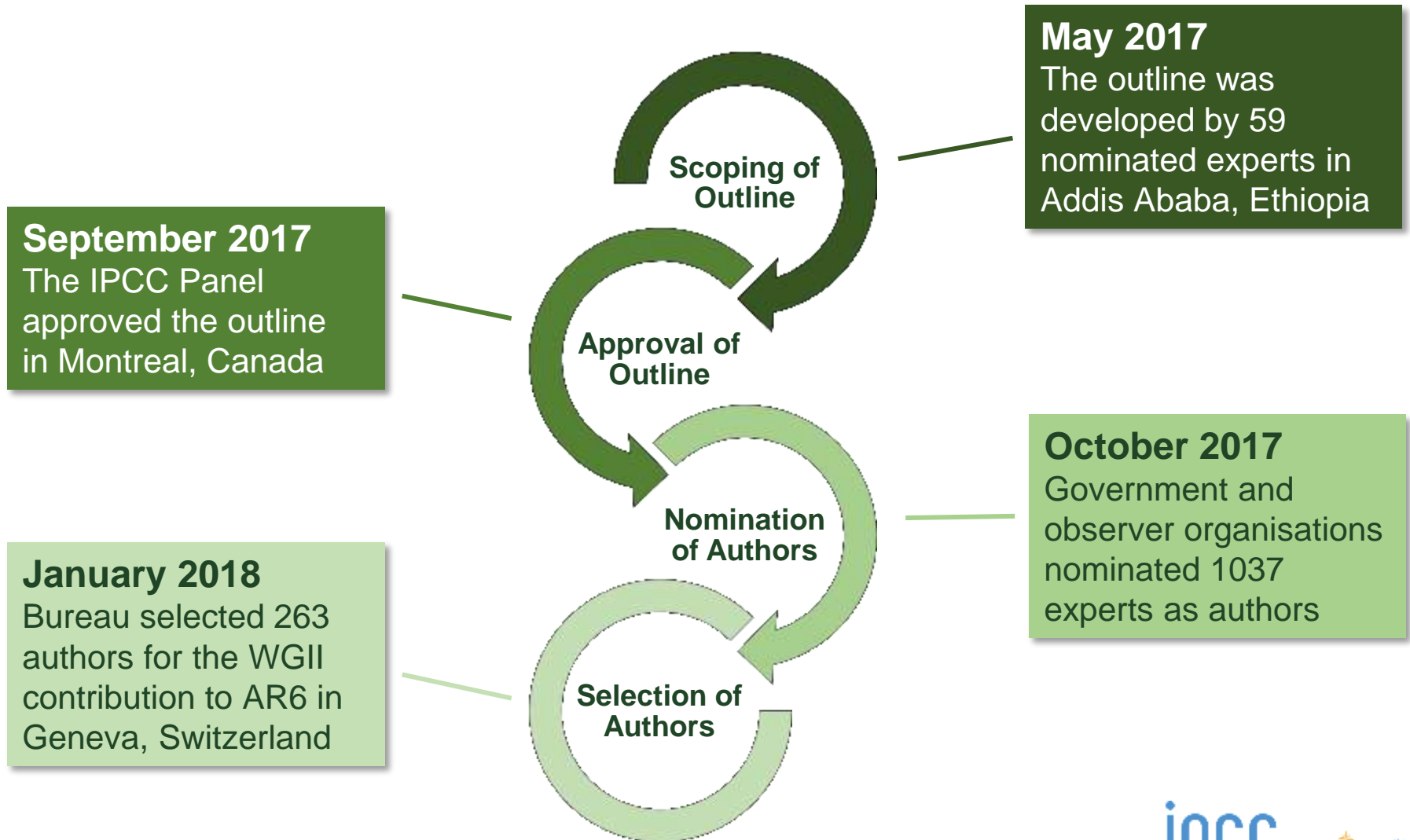
○ = We are here



AR6 Climate Change 2021: Impacts, Adaptation and Vulnerability

The Working Group II contribution to the Sixth Assessment Report

Preparatory Phase of WGII AR6



WGII AR6 Outline

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

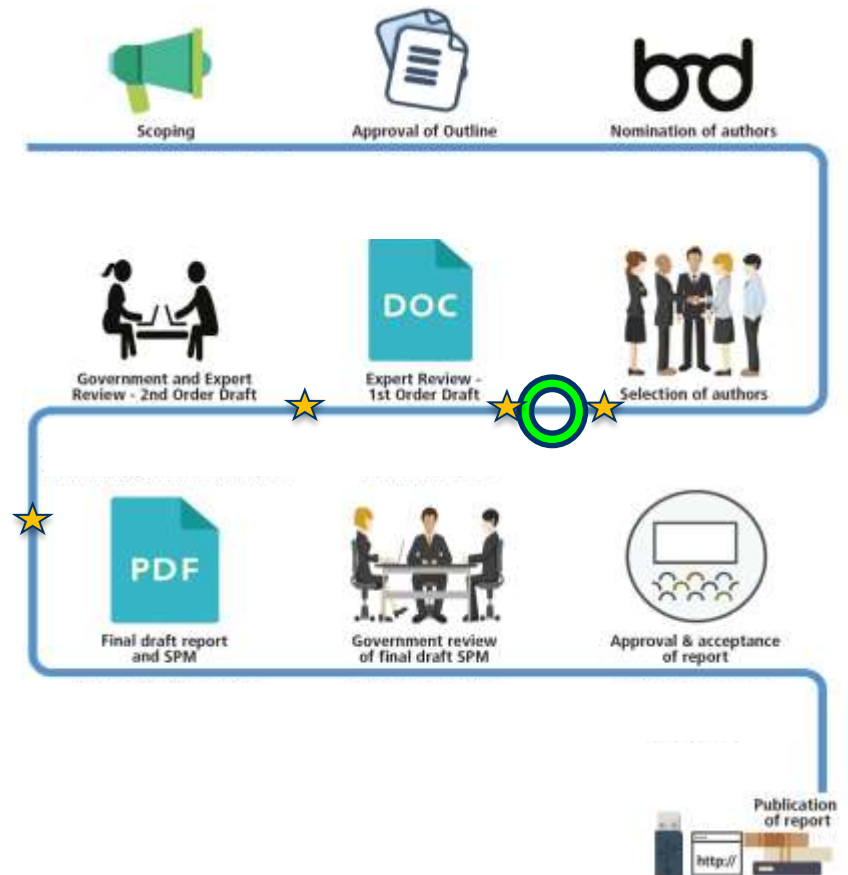
- Biodiversity hotspots (land, coasts and oceans)
 - Cities and settlements by the sea
 - Deserts, semi-arid areas, and desertification
 - Mediterranean region
 - Mountains
 - Polar regions
 - Tropical forests
- Expanded treatment of particular systems or regions
 - Integrative across chapters
 - Allow updates since the Special Reports
 - Follow broad scheme and structure of chapters
 - Same audience as chapters
 - Need to develop high level policy-relevant messages



WHERE ARE WE NOW?

Timeline IPCC WGII AR6

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 – 21 June 2019 Internal Draft Review
JUN	28 June 2019 TSU send compiled review comments to CLAs (date tbc)
JUL	15 – 19 July 2019 Second Lead Author Meeting (Kathmandu, Nepal)
OCT	4 October 2019 First Order Draft submitted to TSU 7 – 18 October 2019 TSU compile First Order Draft
OCT	18 October – 13 December 2019 Expert Review of First Order Draft
DEC	20 December 2019 TSU send compiled review comments to CLAs (date tbc)
JAN	27 January – 1 February 2020 Third Lead Author Meeting (Faro, Portugal)
JUN	1 July 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 – 7 November 2020 Fourth Lead Author Meeting (location tbc)
MAY	1 May 2021 cut-off date for accepted papers 14 May 2021 Final Draft submitted to TSU 17 – 27 May 2021 TSU compile Final Draft
JUN	28 May – 23 July Final Government Distribution of the Final Draft and Government Review of the Summary for Policymakers
OCT	4 – 8 October 2021 12th Session of Working Group II and 55th Session of the IPCC: Approval of the Summary for Policymakers, acceptance of the underlying Report (date tbc)



★ = Lead Author Meetings (LAMs)

○ = We are here

THANK YOU FOR YOUR ATTENTION!

For more information:

Website: <http://ipcc.ch/>

IPCC Secretariat: ipcc-sec@wmo.int

IPCC Press Office: ipcc-media@wmo.int

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