

# IPCC AR6 : Outline of WG II

## *Some thoughts on Asia Regional Chapter*

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# Statistics: WG II

## Impacts, Adaptation and Vulnerability

- 3 sections
  - 18 chapters [ Total of 970 + pages]
  - 5 Annexes
- 
- 2 Co-Chairs
  - 2 Vice Chairs
  - 263 CLA, LA, RE

# Chapter 1: Point of departure and key concepts

## [30 pages]

- **Changing policy context** (including UNFCCC, Paris Agreement and Global Stocktake, SDGs, etc.); AR5 and SR findings and critical messages, goals of this report
- The significance of sectoral and regional climate risks to natural and human systems and their interactions in the context of culture, values, ethics, identity, behaviour, historical experience, and knowledge systems (e.g., **indigenous and local**)
- The climate risk framework used in this report encompassing hazard, exposure, and vulnerabilities, including their **spatial distribution, cascading impacts, disaster risk reduction, and risk uncertainties**
- The significance of adaptation, in addressing climate change risks, including **diverse adaptation responses**, technologies including **nature and ecosystem-based adaptation**, outcomes, common principles, **resilience**, and **issues of scale**
- Detection and attribution of climate impacts and methods **to evaluate adaptation responses**

# Chapter 1: Point of departure and key concepts [30 pages] Contd.

- Understanding **dynamic climate risks** from scenarios that reflect multiple interacting drivers
- Scientific, technical and socioeconomic aspects of **current and future residual impacts of climate change**, including residual damage, irreversible loss, and economic and **non-economic losses** caused by **slow onset and extreme events**
- **Limits** to adaptation, and enabling conditions for effective adaptation including **governance, institutions, and economic aspects**
- Climate change responses and their interactions with sustainable development, including **adaptation with mitigation co-benefits and trade-offs**
- Opportunities for enhancing **climate resilient development pathways**

# Section 1: Risks, adaptation and sustainability for systems impacted by climate change

(7 chapters, 410 pages)

- **Chapter 2:** Terrestrial and freshwater ecosystems and their services [60 pages]
- **Chapter 3:** Ocean and coastal ecosystems and their services [60 pages]
- **Chapter 4:** Water [60 pages]
- **Chapter 5:** Food, fibre, and other ecosystem products [60 pages]
- **Chapter 6:** Cities, settlements and key infrastructure [60 pages]
- **Chapter 7:** Health, wellbeing and the changing structure of communities [50 pages]
- **Chapter 8:** Poverty, livelihoods and sustainable development [60 pages]

## Section 2: Regions

(7 chapters + Cross chapter papers  
370 (290 + 80) pages)

- **Chapter 9:** Africa [50 pages]
- **Chapter 10:** Asia [50 pages]
- **Chapter 11:** Australasia [30 pages]
- **Chapter 12:** Central and South America [50 pages]
- **Chapter 13:** Europe [40 pages]
- **Chapter 14:** North America [40 pages]
- **Chapter 15:** Small Islands [30 pages]

## Section 2: Regions (Contd.)

CROSS-CHAPTER PAPERS (with material for TS/SPM as appropriate) : 80 pages

- Biodiversity hotspots (land, coasts and oceans) [10 pages]
- Cities and settlements by the sea [10 pages]
- Deserts, semi-arid areas, and desertification [10 pages]
- Mediterranean region [10 pages]
- Mountains [15 pages]
- Polar regions [15 pages]
- Tropical forests [10 pages]

**Section 3:** Sustainable development pathways:  
integrating adaptation and mitigation  
(3 chapters, 120 pages)

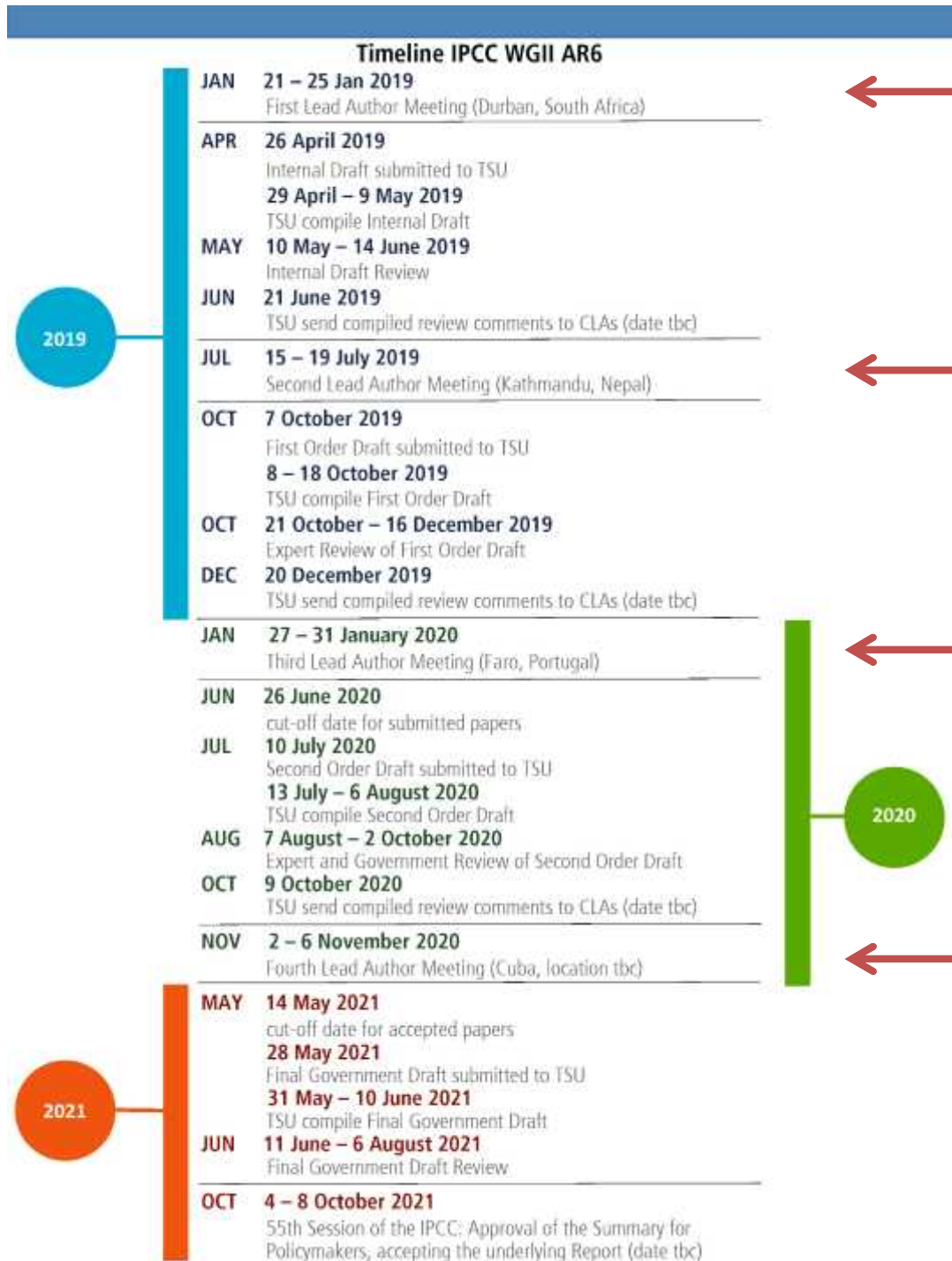
- **Chapter 16:** Key risks across sectors and regions [40 pages]
- **Chapter 17:** Decision-making options for managing risk [40 pages]
- **Chapter 18:** Climate resilient development pathways\* [40 pages]



# Annexes

- **ANNEX I: Regional Atlas**
- **ANNEX II: Glossary**
- **ANNEX III: List of Acronyms**
- **ANNEX IV: List of Contributors**
- **ANNEX V: List of Reviewers**
- **INDEX**

## Timeline IPCC WGII AR6



# Chapter 10: Asia [50 pages]

## Chapter 10: Asia

	Last Name	First Name	Role	Gender	Country	Citizenship	Current Affiliation
1	CHFONG	Tae Sung	CLA	M	Republic of Korea	Republic of Korea	Ministry of Interior and Safety, National Disaster Management Institute
2	LUO	Yong	CLA	M	China	China	Department of Earth System Science, Tsinghua University
3	SHAW	Rajib	CLA	M	Japan	Japan	KEIO UNIVERSITY, Graduate School of Media and Governance
4	ABDUL HALIM	Sharina	LA	F	Malaysia	Malaysia	Institute for Environment and Development, University Kebangsaan Malaysia
5	CHATURVEDI	Sanjay	LA	M	India	India	South Asian University
6	HASHIZUME	Masahiro	LA	M	Japan	Japan	Institute of Tropical Medicine, Nagasaki University
7	INSAROV	Gregory E.	LA	M	Russia	Russia	Institute of Geography of the Russian Academy of Sciences
8	ISHIKAWA	Yoichi	LA	M	Japan	Japan	Japan Agency for Marine-Earth Science and Technology
9	JAFARI	Mostafa	LA	M	Iran	Iran	Executive Director of Macro National Strategic Plan of Climate Change Research ARFHO/ and Head of IPS for IPCCs
10	KITOH	Akio	LA	M	Japan	Japan	Japan Meteorological Business Support Center
11	PULIHIN	Juan	LA	M	Philippines	Philippines	NATIONAL PANEL OF TECHNICAL EXPERTS- CLIMATE CHANGE COMMISSION
12	SINGH	Chandni	LA	F	India	India	Indian Institute for Human Settlements
13	VASANT	Kripa	LA	F	India	India	INDIAN COUNCIL OF AGRICULTURAL RESEARCH
14	ZHANG	Zhibin	LA	M	China	China	Institute of Zoology, Chinese Academy of Sciences
15	MYEONG	Soojeong	RE	F	Republic of Korea	Republic of Korea	Korea Environment Institute
16	PEREIRA	Joy Jacqueline	RE	F	Malaysia	Malaysia	Institute for Environment and Development

# Common elements across all regional chapters

- Information on selected regional and [sub-regional climate characteristics and zones](#)
- Summary Table and/or figures with [WGI and WGI information](#), combined with risk assessment (e.g., SREX SPM.1)
- Detection and attribution of [observed impacts](#) in natural and human systems on diverse time scales
- Region specific information on [exposure and vulnerability](#)
- Current sectoral climate risks, including specific regional and sub-regional considerations related to [land, coasts and regional oceans Cultural and psychological dimensions](#) (values, attitudes, ethical aspects, identity, behaviours, and different types of knowledge systems)
- [Observed impacts and projected risks](#) including identifying [key risks and residual risks](#) as well as [development pathways](#) depending on rate and level of climate change, including extremes and sea level rise
- [Diverse adaptation options](#) including opportunities, enablers, limits, barriers, adaptive capacity, and finances
- [Governance and economic aspects](#) including legal, institutional, financing, price responses, and trade
- Cross sectoral, [intra-regional, and inter-regional](#) issues including consideration of temporal scale
- Interaction of risks and responses to climate change with [sustainable development pathways](#)
- Implications of availability and heterogeneity of [data](#), including the use of 'grey literature'
- Lessons from [case studies](#)

# AR5 Regional Chapter on Asia (44 pages)

- Executive summary (2)
- Introduction
- Major conclusion from AR4 (1)
- Observed and projected climate change (2)
- Observed and projected impacts, vulnerability and adaptation (16)
  - Freshwater; Terrestrial and inland water; Coastal and low lying; Food production and food security; Human settlements, industry and infra; Human health, security, livelihoods and poverty; Valuation of impacts and adaptation
- Adaptation and managing risk (2)
- Adaptation and mitigation interactions (1)
- Intra and inter regional issues (1)
  - Trans boundary pollution; Trade and economy; Migration and population displacement.
- Research and data gaps (1)
- Case studies (2)
- References (13)

# Chapter 24, Asia: AR5

## Coverage - 51 countries/regions



# Chapter 10: Some personal thoughts

- Link to regional process of [SDG, Sendai Framework](#): science technology and policy interface
- Recent major reports on [1.5 Deg, Land and Ocean](#) and its implications to the region
  
- Extreme events and [new normal](#)
- [Climate Fragility Risk](#) (compounded risk)
- [Slow onset](#) disasters
- [Urban rural](#) linkages
- Food Energy Water ([FEW](#)) – [Health](#) Nexus
- [Adaptation Law](#) / Disaster Management Law
- [Adaptation Communication](#)
- Private sector and [adaptation industry](#) (?)
- Innovation and [new and emerging technology](#)