

PERSPECTIVE ON THE  
IPCC SPECIAL REPORT ON  
1.5° C

BEIRUT, SEPTEMBER 26, 2017

**IPCC SPECIAL REPORT ON THE IMPACTS  
OF GLOBAL WARMING OF 1.5°C ABOVE  
PRE-INDUSTRIAL LEVELS AND RELATED  
GLOBAL GREENHOUSE GAS EMISSION  
PATHWAYS, IN THE CONTEXT OF  
STRENGTHENING THE GLOBAL RESPONSE  
TO THE THREAT OF CLIMATE CHANGE,  
SUSTAINABLE DEVELOPMENT, AND  
EFFORTS TO ERADICATE POVERTY**

# IMPORTANCE

- First IPCC report after Paris Agreement
- Package of 3 reports (1.5 degrees, Desertification and Food Security, Oceans)
- Will provide a scientific take on the pathway to achieve 1.5 degree and the associated impacts
- Primary input to 2018 Facilitative Dialogue, later on Global stock-take

## INDICATIVE OUTLINE

# CHAPTER 1: FRAMING AND CONTEXT

- Understanding 1.5°C; reference levels, probability, transience, overshoot, stabilization
- 1.5°C in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty, with consideration for ethics and equity
- Key concepts central to understanding the report
- Building on AR5: new information, integrative approaches, response options
- Assessment and methodologies across spatial and time scales
- Treatment of uncertainty
- Storyline of the report

## INDICATIVE OUTLINE

# CHAPTER 2: MITIGATION PATHWAYS COMPATIBLE WITH 1.5°C IN THE CONTEXT OF SUSTAINABLE DEVELOPMENT

- **Methods of assessment and assumptions in the literature**
- **Constraints on, and uncertainties in, global greenhouse gas emissions consistent with warming of 1.5°C compared to 2°C, considering short lived and other climate drivers and taking into account uncertainty in climate sensitivity**
- **Characteristics of mitigation and development pathways compatible with 1.5°C compared with 2°C and, where warranted by the literature, comparison with higher levels of warming. This may, include short and long term timeframes, sectorial, regional, demand/supply-side, technological and socio-economic implications**
- **Technological, environmental, institutional and socio-economic opportunities and challenges related to 1.5°C pathways**

## INDICATIVE OUTLINE

# CHAPTER 3: IMPACTS OF 1.5°C GLOBAL WARMING ON NATURAL AND HUMAN SYSTEMS

- **Methods of assessment**
- **Observed and attributable global and regional climate changes and impacts and the adaptation experience**
- **Key global and regional climate changes, vulnerabilities, impacts, and risks at 1.5°C, taking into account adaptation potential and limits to adaptive capacity**
- **Key sectoral vulnerabilities, impacts, and risks at 1.5°C, taking into account adaptation potential, limits to adaptive capacity and socio-economic aspects**
- **Avoided impacts and reduced risks at 1.5°C compared with 2°C and, where warranted by the literature, comparison with higher levels of warming**
- **Timeframe, slow vs. fast onset, irreversibility and tipping points**
- **Implications for impacts, adaptation and vulnerability of different mitigation pathways reaching 1.5°C, including potential overshoot**

## INDICATIVE OUTLINE

# CHAPTER 4: STRENGTHENING AND IMPLEMENTING THE GLOBAL RESPONSE TO THE THREAT OF CLIMATE CHANGE

- Assessing current and emerging adaptation and mitigation options, including **negative emission methodologies, and associated opportunities and challenges**
- **Synergies, trade-offs and integration of adaptation and mitigation options**
- The pace of the development and deployment of adaptation and mitigation options compared to pathways consistent with sustainable development and 1.5°C
- The potential and capacity limitations for development and deployment of adaptation and mitigation responses to accelerate transitions within and across scales and systems (e.g. food production, cities)
- Options for implementing far-reaching and rapid change; implications, challenges (e.g. lock in, spillover effects), enabling environments and across scales
- Case studies for implementation of adaptation and mitigation options at different scales and circumstances, and lessons learned

## INDICATIVE OUTLINE

# CHAPTER 5: SUSTAINABLE DEVELOPMENT, POVERTY ERADICATION, AND REDUCING INEQUALITIES

- **Linkages between achieving SDGs and 1.5°C**
- **Distributional impacts arising from response options**
- **Opportunities, challenges, risks, and trade-offs**
- **Positive and negative impacts of adaptation and mitigation measures including response measures and strategies, economic diversification, livelihoods, food security, cities, ecosystems, technologies**
- **Knowledge and experience from local to global, including case studies and integrated planning as relevant to aforementioned bullets**
- **Climate-resilient development pathways**

# DECISION IPCC/XLIV-4. SIXTH ASSESSMENT REPORT (AR6) PRODUCTS, OUTLINE OF THE SPECIAL REPORT ON 1.5°C

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4. That the bulleted text in Annex 1 to this Decision, that resulted from the scoping process and refined through comments by the Plenary, be considered by authors as indicative, taking into account the scope of the literature assessment referred to in bullet 3 and scientific gaps that will be explicitly identified;

**Assessing the scientific gaps and lack of scientific literature in a number of areas**

# A REPORT USEFUL FOR ALL..

- Governments: Engagement on negotiation of SPM (September 2018)
- Scientific and research community: Participation by scientists and peer-reviewed literature from the Arab region
- Balanced and comprehensive outcome
- Accurate and objective reference of report findings
- treatment of scientific gaps and scientific accountability
- Provides ample space for nationally determined Policy options