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DRAFT REPORT OF THE FIFTY-SECOND SESSION OF THE IPCC

Paris, France, 24- 28 February 2020

(Submitted by the Secretary of the IPCC)

¹ This corrigendum is being submitted to include the name of the delegate from Iran that is missing in the list of participants (Annex 2).

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DRAFT REPORT OF THE FIFTY-SECOND SESSION OF THE IPCC
Paris, France, 24 – 28 February 2020

1. OPENING OF THE SESSION

The Secretary of the IPCC, Mr Abdalah Mokssit, called the 52nd Session of the IPCC (IPCC-52) to order on Monday 24 February 2020 at the United Nations Educational, Scientific and Cultural Organization (UNESCO), Paris, France, and welcomed participants to the meeting.

Ms Shamila Nair-Bedouelle, Assistant Director-General for Natural Science, UNESCO, introduced the speakers.

Ms Audrey Azoulay, Director-General of UNESCO, listed recent climate developments and said it was no longer possible to ignore the impacts of human activity on the planet. Science, including the IPCC, is informing public opinion, which is increasingly concerned by phenomena such as melting ice sheets, rising sea level and the loss of biodiversity. She welcomed the IPCC to UNESCO and urged governments to develop long-term action informed by education, science and culture. She regretted the dissonance between the repeated messages of science and the failure to change behaviour. She urged governments to use nature as a means of education and draw on the resources of cultural heritage and traditional knowledge. Ms Azoulay noted that UNESCO hosts the International Oceanographic Commission, which contributes significantly to climate science.

Ms Inger Andersen, Executive Director of the United Nations Environment Programme (UNEP), thanked UNESCO for hosting the meeting. She praised the IPCC for laying out the scale of climate change and the options for addressing it and congratulated all those involved in the production of the two special reports and methodology report in 2019. Ms Andersen listed recent climate developments which showed the gap between climate ambition and climate action, indicating the need for strong results at the 26th Conference of the Parties (COP 26) to the United Nations Framework Convention on Climate Change (UNFCCC). She called on all involved with the IPCC to work together to produce a strong Sixth Assessment Report including Synthesis Report and noted the many opportunities in 2020 to reverse the unfavorable trend on the environment.

Ms Andersen said UNEP was preparing a synthesis paper integrating recent assessments including the IPCC Special Reports and hoped that the IPCC would champion this process. She welcomed the cooperation between the IPCC and the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) and its inclusion in the agenda of the 52nd Session. She underlined UNEP's commitment to supporting the IPCC and announced in terms of concrete support the appointment of a new Deputy Secretary, Ms Ermira Fida, an offer to host the 53rd Session at UNEP's headquarters in Nairobi, Kenya, and an increase in UNEP's financial contribution to the Trust Fund.

Mr Petteri Taalas, Secretary-General of the World Meteorological Organization (WMO), reviewed the WMO's financial and in-kind support for the IPCC and described how the WMO was working with the IPCC to strengthen this support in the context of the WMO's own historic reform process. He announced the appointment of a new WMO Director of Science who would henceforth represent the WMO at IPCC meetings. He said the WMO was committed to enhance the quantity and quality of its services to the IPCC community.

Mr Taalas noted that the World Meteorological Organization (WMO) was seeking to engage more experts from developing countries in its work, develop its partnerships with other UN agencies, hold shorter and more effective meetings and share its expertise with the IPCC. He highlighted the United with Science report coordinated in 2019 by the WMO in 2019 based on recent assessments from different organizations.

H.E. Ms Élisabeth Borne, Minister of the Ecological and Inclusive Transition, France, recalled the recent climate-related meetings of the UNFCCC, IPCC and IPBES in Paris, to which the 52nd Session would be added, and underlined that it was appropriate the meeting was being held at UNESCO. The IPCC could continue to count on France's significant financial support. The findings of the three recent Special Reports were no longer projections but already facts. The world needed a systemic revolution to respond to these changes. The world needed to advance further towards carbon neutrality and Ms Borne expressed the hope that UNFCCC COP 26 would see additional commitments this year. She concluded by noting that the world needed a profound transformation based on science.

Mr Florin Vladu, Manager, Adaptation Programme of the United Nations Framework Convention on Climate Change (UNFCCC), recalled that a new phase of work would begin in 2020, as nations submit new or revised climate action plans or Nationally Determined Contributions (NDCs). He recalled the findings of the recent IPCC reports, and noted that climate change is not slowing down, while there is insufficient urgency to implement the far-reaching transformation needed to address it. He welcomed the contribution of the IPCC and other participants to COP 25 but said the meeting had not achieved the results many had wanted.

Mr Vladu said the need for science to inform climate action has never been greater. In this context the Synthesis Report of the Sixth Assessment Report will inform the second periodic review of the long-term global goal under the UNFCCC and the first global stocktake under the Paris Agreement. He urged the IPCC to take a decision on its future work that would allow it to provide a timely and substantive product as an input into the second global stocktake.

Mr Hoesung Lee, Chair of the Intergovernmental Panel on Climate Change (IPCC), paid tribute to the former Chair of the IPCC, Rajendra K. Pachauri, who had passed away earlier in the month, and called for a minute's silence.

In his opening statement, the Chair of the IPCC thanked UNESCO for hosting the session and the Government of France for the strong support of the IPCC, especially for this cycle of the Sixth Assessment. He said the Sixth Assessment Cycle was progressing well, and preparations for the Synthesis Report are well underway. He recalled the unprecedented productivity of the past four years yielding three Special Reports and one Methodology Report, which had met widespread appreciation from all stakeholders. The IPCC has improved developing country participation and gender balance in the preparation of these reports. At the same time the finances of the IPCC have been strengthened, with the number of countries contributing to the Trust Fund and the level of the Trust Fund at the highest in the IPCC's history. He thanked Members for their financial support. The Chair also reviewed ways in which some administrative processes could be improved, including strengthening the accountability of the Secretariat.

H.E. Mr José Cardoso dos Ramos Cassandra, President of the Government of the Autonomous Region of Príncipe Island, Democratic Republic of São Tomé and Príncipe, made a presentation to the Session showing how climate change was affecting the small-island developing state and how it was addressing these challenges.

The opening ceremony concluded with an artistic performance by "Les Arts en Scène", a group of school students.

The Session was adjourned for a UNESCO-IPCC Panel Discussion: "Planet in Peril" and a pre-plenary briefing for delegates.

The meeting resumed in the afternoon of 24 February.

The Chair then introduced the provisional agenda as contained in document [IPCC-LII/Doc.1, Rev.1](#). Several Member countries requested clarification of Agenda Item 15 on “Enhancing support to the IPCC Secretariat” as no document was available. Several Member countries requested that the agenda item be removed, several Member countries asked for the translations of published reports to be included on the agenda.

The Chair noted that Working Group I would raise translations, and specific suggestions to handle them, in its Progress Report (Agenda Item 13.1).

The provisional agenda was adopted with the deletion of Agenda Item 15 from the agenda.

2. APPROVAL OF THE DRAFT REPORT OF THE 51ST SESSION OF THE IPCC

The draft report of the 51st Session of the IPCC as contained in document [IPCC-LII/Doc.3](#), was presented and approved without changes.

3. IPCC TRUST FUND PROGRAMME AND BUDGET

3.1. Budget for the years 2020, 2021, 2022 and 2023

The Chair opened the Agenda Item 3.1, document [IPCC-LII/Doc.2, Rev. 1, Corr. 1](#) on the IPCC Trust Fund Programme and Budget – Budget for the years 2020, 2021, 2022 and 2023. The agenda item was introduced by Ms Judith Ewa, Programme Officer. The Panel was requested by the Chair to urge Member countries to make their 2020 contributions, to discuss and approve the revised 2020 budget and the proposed 2021 budget and to note the indicative budgets for 2022 and 2023. Ms Thelma Krug, IPCC Vice Chair, took the floor on behalf of the other two Vice Chairs, to thank the Government of Chile, through the Filantropia Cortés Solari, for their substantial in-kind support in providing the IPCC with a pavilion during the 25th Conference of the Parties (COP 25) to the United Nations Framework Convention on Climate change (UNFCCC) in Madrid. She also thanked WMO and UNFCCC for their support during COP 25.

The Chair established the Financial Task Team (FiTT) and requested that it report back to the Panel on 28 February 2020. The FiTT is open-ended with a core membership which comprises Germany, Pakistan, Saudi Arabia and United States of America and Co-chaired by Ms Katie Vogt (Canada) and Mr Amjad Abdulla (Maldives).

The FiTT met seven times during the week to deliberate on key issues relating to the IPCC Trust Fund Programme and Budget. A briefing session on *IPCC Financials – Partnership between WMO and IPCC Secretariat* was run by Mr Brian Cover, Chief, WMO Finance. An overview of the Sixth Assessment Report (*AR6*) *Activities and Roadmap* was presented by the Secretary. A presentation on *Enhancing Service Provision to IPCC* was made by Mr Paul Egerton, Director, Cabinet Office of the WMO Secretary General.

Recommendations from the FiTT were submitted to the Panel by Ms Katie Vogt, on behalf of her Co-Chair, Mr Amjad Abdulla.

The Panel approved the budget for 2020 and 2021 and noted the indicative budget for 2022 and 2023 and adopted Decision IPCC-LII-9 on the IPCC Trust Fund Programme and Budget as contained in Annex 1.

3.2. Resource mobilization

The Chair opened the Agenda Item 3.2, document [IPCC-LII/INF. 13](#) on Resource Mobilization. The agenda item was introduced by the Secretary. He thanked all Member countries and organizations that had made a contribution and recognized three first-time donors to the IPCC Trust Fund. UNFCCC and Chile were recognized for their in-kind contribution during COP 25 held in Madrid, Spain in December 2019.

The European Union, Japan, Morocco, Republic of Korea, Trinidad and Tobago and the United Kingdom took the floor. They thanked the Secretary for the presentation and appreciated that the financial situation of Trust Fund had improved.

The United Kingdom indicated that it will make its annual contribution of GBP 115,000 in addition to its in-kind contribution for hosting the Working Group III Technical Support Unit.

The Republic of Korea indicated that it had been making contributions steadily to the IPCC Trust Fund since 2006 and that its contributions had increased to CHF 120,000 annually since 2009. It has also committed to contribute CHF 430,000 annually to fund the Technical Support Unit of the Sixth Assessment Report (AR6) Synthesis Report (SYR) since December 2019. It requested that this in-kind contribution be reflected in the table on in-kind contributions being presented to the next plenary session.

Japan confirmed that it would continue to contribute to the IPCC Trust Fund and also continue to host the Task Force on National Greenhouse Gas Inventories (TFI) Technical Support Unit through an in-kind contribution on the condition that its financial section and the Diet allows. Trinidad and Tobago highlighted that, as a small island developing state, with financial constraints, it was able to make a noteworthy financial contribution in 2019 after having stopped contributing for five years. It felt that this was an exemplary act for other countries to follow and encouraged Member countries to make the effort to make their voluntary contribution to the IPCC Trust Fund. It expressed the hope to be able to make a similar announcement in 2020. The European Union (EU) recognized the crucial role the IPCC plays in informing the world about climate change. It renewed its support to the IPCC to enable the IPCC to continue its excellent work and improve its communication in several languages. It further hoped that other Member countries would continue to support the IPCC. Morocco congratulated the first-time donors that contributed especially from a developing country. It stated that 2019 was the third time it had contributed to the IPCC and envisaged further increasing its contribution in 2020.

The Chair thanked all the Member countries and Organizations that made contributions, increased their contributions, first-time contributors and those that made in-kind contributions.

The Panel took note of the document.

3.3. Audit of the 2018 financial statement

The Chair opened the Agenda Item 3.2, document [IPCC-LII/INF. 1](#) on the Audit of the 2018 financial statement.

The agenda item was introduced by Mr Brian Cover, WMO Chief Finance who reported on the IPCC's 2018 financial statement, which covers funds received, expenditures, and financial status as of 31 December 2018, noting that the WMO's external auditor found the statement in conformity with International Public Sector Accounting Standards.

The Panel took note of the document.

4. TASK GROUP ON DATA SUPPORT FOR CLIMATE CHANGE ASSESSMENTS (TG-DATA)

The Chair invited Mr Sebastián Vicuna, TG-Data Co-Chair to present the document [IPCC-LII/Doc. 8, Rev.1](#). Mr Vicuna informed the Panel about the Task Group's establishment, objectives, first activities, workplan up to 2023, Terms of Reference of TG-Data, list of TG-Data and Ex-Officio members and recommendations to the Panel.

He informed the Panel on a series of meetings held with different stakeholders and reported on key issues discussed including current Data Distribution Centre (DDC) activities, DDC funding and potential new DDC nodes, tools and resources developed by the DDC and Working Group I (WGI) Chapter Coordinating Lead Authors (CLAs) which are required to meet some of the TG-Data objectives, and the strategy to implement FAIR² principles to data, which aims at ensuring transparency and reproducibility of AR6 resources. The Task Group wants to ensure that source material is made available and that intermediate and output data are archived and reproducible.

Mr Vicuna informed the Panel on the offered in-kind contribution from the Spanish Government on the development, maintenance and hosting of the AR6 WGI Atlas for the duration of the AR6 cycle.

He reported on the identified potential partners which could contribute to DDC work and suggested that all data underlying key material which are included in the AR6 Summary for Policy Makers (SPM), Technical Summary (TS) and Synthesis Report, should adhere to FAIR principles and be curated by the DDC or other trusted digital repositories; specific FAIR training workshops could be held during the Working Group Lead Author Meetings (LAMs); the code used to produce figures should be archived and made publicly available; and TG-Data outreach activities be carried out later in the AR6 cycle in the form of expert meetings to provide guidance on the use of data and scenarios in climate research. These activities would leverage material curated by the DDC and improve data accessibility by IPCC authors.

During the ensuing discussions government delegates who made interventions were Belgium, Congo, France, Germany, Ghana, Japan, United Republic of Tanzania, South Africa, Spain, Switzerland, United Kingdom, United States of America. Delegates appreciated the comprehensive report by the TG-Data Co-Chair, the Spanish support of the WGI AR6 Atlas, and endorsed the TG-Data's recommendations and work plan. The proposal to make the code used to produce key figures in IPCC AR6 publicly available as supplementary material was welcomed albeit without the restriction that this code should be peer-reviewed. It was recommended that the Task Group's reports should continue to be presented to the Panel, particularly when decisions on the work of the Task Group should be taken. It was mentioned that the Spanish contribution to the WGI AR6 Atlas aims at supporting an interactive system which would allow exploring particular climate projections under different scenarios and for different levels of global warming. The Spanish support would be available up to 2023. It was suggested that to avoid significant differences between the versions of reports presented to the IPCC Bureau and the Panel, the IPCC Bureau Sessions could be either held a few weeks in advance or on the shoulders of IPCC Sessions. TG-Data Co-Chairs were requested to provide additional information on the current state of DDC resources and the financial requirements for current and expected services to enable governments consider providing the necessary support. One delegate enquired about the criteria used to replace TG-Data members who stepped down.

IPCC Bureau members who made comments were Mr Edwin Aldrian, Vice-Chair of Working Group I, Mr Andreas Fischlin, Vice-Chair of Working Group II, and Mr Gregory Flato, Vice-Chair of Working Group I. There were concerns that the report which was presented to the Panel and the TG-Data workplan were not identical to what was presented to the IPCC

² findable, accessible, interoperable and reusable

Bureau at its 57th Session. According to Article 6.1 of the TG-Data TORs, the Task Group is accountable to the Bureau and reports through the IPCC Bureau to the Panel.

Mr Vicuna clarified that the TG-Data progress report and workplan was updated after their last report to the IPCC Bureau in October 2019 following their first face-to-face meeting which was held on 6 – 8 November 2019, and other consultative meetings which were held by the Task Group.

The Panel approved the TG-Data work plan and recommendations according to Decision IPCC-LII-5.

5. SIXTH ASSESSMENT REPORT SYNTHESIS REPORT OUTLINE

The Chair introduced the agenda item and thanked the Government of Singapore for hosting and providing funding for the Sixth Assessment Report (AR6) Synthesis Report (SYR) Scoping Meeting (Singapore, 21 – 23 October 2019), and the Government of the Republic of Korea for funding the AR6 SYR Technical Support Unit (TSU). He gratefully acknowledged the support by IPCC Vice-Chairs, Working Group Co-Chairs and TSUs, the SYR Scientific Steering Committee (SSC) and the Secretariat in the preparation of the scoping documents which were presented to the Panel.

The Chair presented the Scoping Meeting report which included the process leading to the meeting, the outcome of the meeting, which are contained in documents [IPCC-LII/Doc.10](#) and [IPCC-LII/INF.12](#) and the steps to be followed after the approval of the SYR outline by the Panel. He elaborated on the structure and flow of the themes which Scoping Meeting participants developed and the indicative bullets which formed part of the AR6 SYR Outline. Citing the Section 4.6.1 of [Appendix A to the Principles Governing IPCC Work](#), Chair's perspective was that the AR6 SYR Outline presented to the Panel did not answer specific questions which would make the SYR policy relevant. To address this concern, he presented a matrix which would transform the science elements developed at the SYR Scoping Meeting into key policy-relevant questions.

The Chair suggested to form a Contact Group, Co-chaired by Switzerland and South Africa, to develop about four key questions and fill some cells in the matrix and to reorganize the list of bullets in each cell. Australia and Jamaica were invited to serve as Rapporteurs for the Contact Group.

The Chair reported that the SYR TSU was being established with the help of the Korean Government. The vacancy of the Head of SYR TSU was announced on the IPCC website. Applications were still being accepted at the time of the IPCC-52.

During the ensuing discussion, government delegates which made comments were Australia, Belgium, Brazil, Canada, Chile, Colombia, Ecuador, France, Germany, India, Norway, Philippines, Saudi Arabia, Trinidad and Tobago, United Kingdom, United Republic of Tanzania, United States of America and Zimbabwe. There were concerns about the overall approach of establishing a Contact Group to design questions using the proposed matrix. Some delegates thought that the proposed method would alter the SYR Outline which was developed by the experts who participated in the Scoping Meeting. Other delegates expressed their wish to comment on the individual bullets in the SYR Outline and the section titles as was previously done when the scopes of other IPCC AR6 products were approved by the Panel. It was suggested that the AR6 SYR should provide a synthesis of the three Working Group AR6 and the recently completed Special Reports in the AR6 cycle, and address policy relevant topics such as the Paris Agreement, Sustainable Development Goals (SDGs) and the Sendai Framework on Disaster Risk Reduction. There were queries concerning the selection of participants to the Scoping Meeting. Requests were made for detailed information on how the SYR Outline was developed and to have informal sessions to present certain information for clarification. There were questions regarding the establishment and the operation of the SYR

TSU and the schedule for the preparation of the AR6 SYR in the context of the overall AR6 schedule.

IPCC Bureau Members who made interventions were Ms Valerie Masson-Delmotte, Co-Chair of Working Group I, Mr Sergey Semenov, Vice-Chair of Working Group II and Jim Skea, Co-Chair of Working Group III. A request was made for an examples of policy relevant questions to be provided to dispel possible misunderstandings which were apparent during the discussion. Delegates were reminded about the pre-scoping questionnaire which was sent to governments. The responses received were considered by the Scoping Meeting participants to develop the SYR outline.

The Chair, in his response, mentioned that he took into consideration Rule 4.6.1 of [Appendix A to the Principles Governing IPCC Work](#) although actual approach to implementing this rule might differ from case to case. The motivation for the Panel to design questions was the observation that the participation of government representatives at the SYR Scoping Meeting was very low and only 14 governments responded to the invitation to provide views on the overall structure of the AR6 SYR. The bullet points in the SYR outline were indicative and elaborated in the annotated paragraphs contained in document [IPCC-LII/INF.12](#). He acknowledged the concerns raised by most government delegates regarding the proposal to establish a Contact Group early in the plenary session to formulate questions. He however mentioned that the Contact Group approach with full participation by all delegates was used during the Fifth Assessment Report (AR5).

The Chair presented the tentative schedule for the preparation of the AR6 SYR. He highlighted the tentative timelines for nomination of the Core Writing Team (CWT), and dates for CWT meetings, Government and Expert Review of the First Order Draft (FOD), government and Observer Organizations' consideration of the final draft SYR, and Approval/Adoption Plenary for AR6 SYR. The overall strategic plan for undertaking other AR6 IPCC activities was also presented.

Delegates who made comments on the tentative timelines for the preparation of the AR6 SYR were Brazil, Ecuador, France, Germany, Luxembourg, Morocco, Norway, Saudi Arabia, Switzerland, United Kingdom, United Republic of Tanzania, United States of America and Zimbabwe. There were requests for a cohesive picture of the AR6 schedule taking into consideration that certain timelines in the Working Group activities might have shifted. Concerns were raised that the dates for the review of the SYR FOD coincide with the time when governments would be preparing for an IPCC approval session. It was suggested that the schedule takes into consideration major holidays and religious activities. The need to have AR6 authors with the relevant expertise form part of the AR6 CWT and ensure regional balance and adequate representation of developing countries was emphasized. An offer to host and provide funding for the adoption/approval of the AR6 SYR to be held in Geneva, Switzerland in 2022 was announced by the Government of Switzerland. It was suggested that an expert on science communication could be engaged to ensure that the information provided by the AR6 SYR is simplified.

IPCC Bureau members who submitted comments were Mr Jan Fuglestvedt, Vice-Chair of Working Group I, Mr Sergey Semenov, Vice-Chair of Working Group II, Mr Jim Skea, Co-Chair of Working Group III and Ms Diana Ürge-Vorsatz, Vice-Chair of Working Group III. There was a comment on the process of selecting the CWT which would be agreed by the IPCC Bureau. It was mentioned that in more recent IPCC Assessment Report cycles, the CWT was only selected from experts who had been nominated by governments to serve as authors. There was a suggestion that the pool of potential CWT would be those previously nominated to serve as Lead Authors of the AR6 products including those who were not selected.

When the IPCC Session reconvened after taking into consideration the submissions made by delegates on the AR6 SYR topic, the Chair requested the three IPCC Vice-Chairs to present the SYR Outline in detail and invited delegates to submit their comments which would be recorded and provided to the CWT as guiding information during the preparation of the SYR.

Ms Ko Barrett, IPCC Vice-Chair provided some background which went into the planning of the three-day SYR Scoping Meeting. She mentioned that the Scoping meeting started with scene setting presentations which were followed by perspectives provided by Working Group Co-Chairs from the recently approved Special Reports and what was going on in the preparation of the main AR6. There was no prescribed outline. Instead, the outlines emerged from the conversations during a series of Breakout Groups (BOGs), which progressively grouped topics into themes and identified linkages to develop a narrative. The SSC evaluated the outcomes from the BOGs to provide a framework to advance the work until the final outline was developed. Ms Barrett discussed the narrative of the report highlighting that the SYR would be based on time frames starting with a consideration of the past and current situation, followed by long-term perspectives of climate change and its relevance to development pathways, and then consider near-term actions envisioned for the 2030 – 2050 timeframe. This structure would enable the physical science, adaptation and mitigation to be integrated well within the report.

Delegates who made interventions during the ensuing discussion on the overall framing of the SYR were Brazil, Canada, Ecuador, El Salvador, Estonia, European Union, France, Germany, India, Indonesia, Ireland, Japan, Luxembourg, Mexico, Norway, Poland, Saint Kitts and Nevis, Saint Lucia, Saudi Arabia, Trinidad and Tobago, United Kingdom, United States of America and Venezuela. The structure of the SYR according to timeframes was welcome by a majority of Member countries. There were questions regarding the treatment of themes which would overlap across different timeframes and the page lengths allocated to each section, which were perceived by some as inordinately restrictive and did not need to be the same across different sections. Others mentioned that to keep the SYR within the stipulated page limits, the CWT should be encouraged to concisely synthesize absolute key messages which have emerged across the AR6 Reports rather than repeating some of the contents in the individual reports. The use of cross-sectional boxes was suggested. One delegate suggested a renaming of the titles of the last two sections and rearranging of some bullets. There were suggestions for use of a clear language and communicate the timelines used in the report and preferably link them to the normal policy cycles. For instance, in other sectors of society, medium term refers to a 3 –10 year period whereas in the context of the SYR, this timeline might refer to a few decades in the future.

Ms Thelma Krug, IPCC Vice-Chair presented Section 2: Current Status and Trends and an expanded explanation of the individual bullet points. In a nutshell, the section covers historical and emerging trends, as well as the current status of social and economic development and the changing climate. Delegates who made comments on Section 2 were Antigua and Barbuda, Brazil, Canada, Ecuador, Estonia, France, Ghana, India, Indonesia, Japan, Maldives, Mexico, Norway, Saudi Arabia, South Africa, Spain, Switzerland, Trinidad and Tobago, Turkey, United States of America and Friends World Committee for Consultation (FWCC). Diverse views on the indicative bullets were expressed by Member countries. Some convergent views were: inclusion of current status of implementation measures of mitigation and adaptation and their implications for sustainable development, nature-based solutions, extreme events, carbon budgets, climate impacts, information on loss and damage and related terms, non-CO₂ climate forcers, gender and indigenous knowledge, role of forests and other carbon stocks, information on and benefits of urgent climate action and impacts of insufficient action, human rights and the role of rights-based approaches to create effective climate action; and a clarification of committed climate change in the context of the section.

Mr Youba Sokona, IPCC Vice-Chair presented Section 3: Long term Climate and Development Futures. He mentioned that the section will assess plausible futures projected under a wide range of climate change scenarios to 2100 and beyond; includes long term climate policies and how their implementation impacts on the climate system, climate change impacts and adaptation; and also includes the long-term response to climate change framed in the context of intergenerational justice and equity. He elaborated on each bullet point under the section. Delegates who made comments on Section 3 were Belgium, Brazil, Canada, Chile, Colombia, Ecuador, Estonia, Eswatini, France, Germany, Ghana, India, Jamaica, Japan, Lesotho, Mexico, Nigeria, Norway, Republic of Korea, Saint Lucia, Saudi Arabia, South Africa, Spain, Switzerland, Trinidad and Tobago, Ukraine, United Kingdom, United States of America and Zimbabwe. Delegates expressed diverse views for the improvement of the outline to ensure that issues they deem relevant are included in the AR6 SYR. Some convergent suggestions included: inclusion of regional assessment of risks and vulnerabilities, impact of mitigation on socio-economic pathways, references to residual risks from slow onset and extreme events associated with different warming levels and scenarios, include the concept of maladaptation, risks and benefits, costs of inaction, concept of tipping points, sustainable development and gender-related impacts; clarification of managed systems and co-benefits of mitigation, and technological adjustments; and changing the Section title to include projected futures.

Ms Ko Barrett, IPCC Vice-Chair presented Section 4: Near Term Action in a Changing Climate which will assess climate change and response options over the 2030 and 2050 timeframe in the context of climate change and variability, environmental/ecosystem and socio-economic aspects, linking both current climate options and long term implications. She gave a brief description of each proposed indicative bullet under the section. Several diverse views on Section 3 were expressed by delegates from Argentina, Australia, Belgium, Brazil, Canada, Chile, Colombia, Cuba, Ecuador, El Salvador, Estonia, France, India, Indonesia, Japan, Malawi, Norway, , Saint Kitts and Navies, Saint Lucia, Saudi Arabia, South Africa, Spain, Switzerland, Trinidad and Tobago, United Republic of Tanzania, Ukraine, United Kingdom, United States of America, Venezuela, Zambia, Zimbabwe and Friends World Committee for Consultation (FWCC). Salient suggestions were the inclusion of food security, poverty eradication, balance sheet of mitigation in the post 1990 period, opportunities and benefits for rapid emission reductions, near-term adaptation needs, benefits of early action and implications of delayed action, energy transition, cross-cutting box on biodiversity on land and in the oceans, policy instruments, diverse response options across and within sectors and scales, means of implementation, links to biodiversity, public participation, and enabling conditions including finance and international cooperation; removing managed systems; clarification of just transition, behavioral change, development pathways and path dependence; and making the title self-explanatory and encompassing to the bullet points under the section.

Mr Jan Fuglestad, Vice-Chair of Working Group I, presented Section 1, Introduction, highlighting that the section would set the stage for the SYR and explain the wider context into which the synthesis is prepared. Delegates who commented on Section I were India, Switzerland and Venezuela. There were concerns that the page limit for the Introduction was too restrictive to accommodate what was intended.

Most of the comments solicited on the individual SYR Outline sections in Plenary and through ancillary written submissions were incorporated by the SSC when revising the outline iteratively as well as developing supplementary annotated notes for the SYR CWT. The revised outlines and the supplementary annotated notes for SYR authors were presented to the Panel and deliberated on by delegates who expressed their comments. Ultimately, a Contact Group co-facilitated by Canada and the United Republic of Tanzania was established, initially mandated to finalize Section 2. The Contact Group co-facilitators presented the outcomes of the discussions to the Panel after which Section 2 of the SYR was approved following minor edits in plenary. The mandate of the Contact Group was extended to discuss the other sections of the SYR outline. After the Contact Group's meetings, the co-facilitators

presented its recommendations to the Panel after which the SYR outline was ultimately approved after a few edits.

By Decision IPCC-LII-10, the Panel adopted the Outline of the Sixth Assessment Report Synthesis Report.

6. ORGANIZATION OF THE FUTURE WORK OF THE IPCC IN LIGHT OF THE GLOBAL STOCKTAKE

Mr Eric Brun, Co-Chair of the Task Group on the Organization of the future work of the IPCC in Light of the Global Stocktake (TG-FWLGST), introduced the agenda item. He highlighted that after discussing the issue of potentially aligning the work of the IPCC with the needs of the global stocktake foreseen under the Paris Agreement, the Panel at the 46th Session (Montreal, Canada, 6 – 8 September 2017) decided to establish the TG-FWLGST whose terms of references (TORs) were approved at the 47th Session of the IPCC (Paris, France, 13 – 16 March 2018).

Mr Brun reported that as the work of the TG-FWLGST evolved through a consultative process involving governments and IPCC Observer Organizations, and discussions within the Task Group, two high-level alternatives, and the pros and cons of each alternative and/or its associated options were eventually identified. Towards, the end of its work, the Task Group engaged in targeted consultations with IPCC Bureau Members, Heads of TSUs and the Secretariat. The TG-FWLGST's final report was shared with Task Group members and sent to governments for comments in accordance with the Terms of Reference (TORs).

Ms Maria Amparo Martinez Arroyo and Mr Ole-Kristian Kvissel, Co-Chair and Rapporteur of the TG-FWLGST, respectively, elaborated on the two alternatives, the associated options and their pros and cons. They introduced two alternatives and the corresponding options. The first alternative and the seven associated options, could be selected and implemented at the beginning of the Seventh Assessment Report (AR7) cycle . The second alternative would have a 3 stage process: 1) the work of the AR6 will proceed as scheduled; 2) undertake a review describing and analyzing relevant information from the IPCC and the UNFCCC, Paris Agreement and the Global Stocktake (GST) ; and 3) the output from the review should result in the selection of one or more viable options. The alternatives, options, and pros and cons which were presented as documented in the Task Group's final report (i.e. document [IPCC-LII/Doc. 5](#)).

One salient finding made by the TG-FWLGST was that a vast majority of submissions suggested an accelerated, smooth, coherent and more efficient transition between AR6 and AR7. In particular, it was recommended to have earlier elections for some key positions (e.g. IPCC Chair elect, IPCC Vice-Chairs elect and Co-Chairs elect of WGs/TFI) or for the whole IPCC Bureau (Bureau elect) than what is current practice, without shortening the mandate of the current Bureau which covers the whole sixth assessment cycle. This would positively influence other criteria relevant for streamlining operations and organization of the IPCC during an extended transition period with overlap between outgoing and incoming IPCC Bureau. The pros and cons of having earlier than usual elections were presented.

Mr Brun thanked the Task Group members, governments and IPCC Observer Organizations, IPCC Bureau Members, Heads of TSUs and the Secretariat for their strong engagements in the TG-FWLGST's activities.

From the IPCC Bureau, Mr Sergey Semenov, Vice-Chair of Working Group II, took the floor. He thanked the Co-Chairs and members of the TG-FWLGST for the work undertaken and suggested that it was premature for the IPCC to decide on how to align its work with the GST. Delegates who made comments were Argentina, Australia, Belgium, Canada, Denmark, Ecuador, El Salvador, Estonia, Eswatini, Germany, Ghana, India, Jamaica, Japan, Luxembourg, Netherlands, Norway, Poland, Republic of Congo, Republic of Korea, Russian

Federation, Saint Kitts and Navies, Saint Lucia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, United Kingdom, United States of America and Germanwatch. The work of the TG-FWLGST, particularly the comprehensive analysis of the viable alternatives and options were appreciated by governments who welcomed the Task Group's report. There were delegates who supported the first alternative, particularly the proposition to have the IPCC cycles aligned to the GST and suggested that the IPCC could take a decision on the viable option(s) at IPCC-52. The need for the IPCC to deliver a product which would form input to the second GST for IPCC to remain policy relevant was emphasized. There were delegates who supported alternative 2 and argued that the IPCC could first get lessons from the first GST. They opined that it was premature for the IPCC to take a decision on how to align its work with that of other organizations, including the UNFCCC noting that the GST would not be entirely dependent on IPCC products. The scientific robustness, integrity and relevance of IPCC products, and the independence of the IPCC were issues identified as very important, which could be compromised by aligning the work of the IPCC with the GST. The IPCC Chair or the IPCC Secretariat were requested to liaise with the UNFCCC Secretariat on how best the IPCC could serve the needs of the UNFCCC, particularly GST after which a decision would be taken. There were delegates emphasizing the support of the proposition for an accelerated transition by holding early elections of the IPCC Bureau or of certain key positions to, *inter alia*, enable a timely establishment of TSUs for the AR7. The establishment of a Contact Group or Task Force to look at the feasibility and practical aspects of having early elections was suggested.

Owing to lack of consensus, the Panel did not take a decision on aligning its work to the GST and instead welcomed the report of the TG-FWLGST according to Decision IPCC-LII-8.

7. REPLACEMENT OF A MEMBER OF THE TASK FORCE BUREAU

The Chair, invited the Secretary to present on matters relevant to the replacement of a Member of the Bureau of Task Force on National Greenhouse Gas Inventories (the "Task Force Bureau" or "TFB").

The Secretary presented document [IPCC-LII/Doc. 6](#) and informed that to facilitate the process the Secretariat has also prepared several background documents [IPCC-LII/INF. 8](#), [IPCC-LII/INF. 9](#), [IPCC-LII/INF. 10](#), [IPCC-LII/INF. 11](#) providing information on voting, elections, conflict of interest, nominations and credentials. In particular, The Secretary recalled that at its 42nd Session (Dubrovnik, Croatia, 5-10 October 2015), the Panel elected the TFB members for the Sixth Assessment cycle³ and that the composition of the TFB consists of two Co-Chairs, also members of the IPCC Bureau, and twelve members, two of each are drawn from the following six Regions: Africa – Region I; Asia – Region II; South America – Region III; North America, Central America and the Caribbean – Region IV; South-West Pacific – Region V; Europe – Region VI⁴. The Secretary, recalled also that during its 49th Session (Kyoto, Japan 8 - 12 May 2019)⁵, the Panel was informed that that Mr Sabin Guendehou (Benin), a member of the TFB would step down in June 2019, that the replacement of this member would be undertaken in accordance with Appendix C to the Principles Governing IPCC Work (hereafter referred to as the 'Election Procedures') and that Region I – Africa would be requested to nominate a candidate for the replacement⁶. The Secretary informed that consequently, in May 2019, Member countries from Africa were invited to nominate candidates⁷. He also recalled that nominations of candidates can be made from the floor at the Session of the IPCC where the elections are to be held⁸, so in this case during the 52nd Session, and that all nominations of candidates for the vacant position should include the

³ [Decision IPCC-XLII/4, Forty-Second Session of the IPCC.](#)

⁴ [Annex A and B, Election Procedures.](#)

⁵ [Report of the Forty-Ninth Session of the IPCC, page 10.](#)

⁶ [Rule 12 of the Election Procedures.](#)

⁷ [Rule 21 \(b\), Election Procedures.](#)

⁸ [Rule 21 \(d\), Election Procedures.](#)

curriculum vitae of the person nominated, as well as a disclosure form⁹. The Secretary also informed that in accordance with the Election Procedures, Members of Region I – Africa were encouraged to meet before and/or as early as possible during the 52nd Session, to consider the nominations for the vacant TFB position.¹⁰ If through such meetings or consultations the Region could reach agreement on one single candidate, the replacement could be brought to conclusion to the Panel through a simple election by acclamation. If no consensus on one candidate for the Region has been reached, an election by voting will be organized.

The Chair thanked the Secretary for his presentation and opened the floor for interventions. The United Republic of Tanzania, took the floor and informed that Panel that Region I – Africa has reached agreement on one single candidate for the vacant TFB position and this was Mr Hamid Abakar Souleymane (Chad). The Chair expressed his gratitude to the Region for the reached consensus and invited the Panel to elect by acclamation Mr Souleymane.

The IPCC at its 52nd Session, taking note that Mr Guendehou stepped down as a member of the TFB and that Mr Souleymane is the only candidate nominated by Region I Africa, decided to elect by acclamation Mr Souleymane as a member of the TFB for the Sixth Assessment cycle.¹¹ The Panel joined the IPCC Chair in congratulating Mr Souleymane on his election.

8. IPCC GENDER POLICY AND IMPLEMENTATION PLAN

The Chair opened Agenda Item 8 on IPCC Gender Policy and Implementation Plan and invited Ko Barrett, IPCC Vice-Chair and Chair of the Task Group on Gender (TG Gender) to present the document [IPCC-LII/Doc. 9, Rev. 1](#).

Egypt, Maldives, Mexico, Saudi Arabia, Sweden, United Republic of Tanzania and the United States of America spoke and were supportive of the document.

There were concerns expressed on the clarification of the term ‘gender identities’ in paragraph 2.1.1 of the Gender Policy. Paragraphs 3.1.8, 3.2 and 3.3 were also highlighted with reference to clearer guidance needed in the Gender Policy in terms of the impact of research and work within the IPCC process.

Ko Barrett, IPCC Vice-Chair and Chair of TG Gender addressed all comments and concerns and further stated they should establish a Gender Action Team to deal with any issues arising within the IPCC.

The Chair postponed further discussion for a later date and no further comments were made.

The Panel adopted the IPCC Gender Policy and Implementation Plan as contained in Decision IPCC-LII-X.

9. ADMISSION OF OBSERVER ORGANIZATIONS

The Chair invited the Secretary, to introduce document [IPCC-LII/Doc. 4](#) pertaining to the admission of observers. The Secretary introduced the Legal Counsel of WMO Ms Brigitta Exterkate and the Principal Legal Officer of UNEP Mr Stadler Trengove, to advise on this matter.

The Secretary noted that since the 49th Session of the IPCC (Kyoto, Japan, 8 – 12 May 2019) five applications from organizations for IPCC observer status had been submitted in accordance with the IPCC Policy and Process for Admitting Observer Organizations. After

⁹ [Rule 21 \(c\) and \(d\), Election Procedures](#) and [IPCC Conflict of Interest Policy](#).

¹⁰ [Rule 23 \(c\), Election Procedures](#).

¹¹ [Decision IPCC-LII-3, Fifty-Second Session of the IPCC](#).

screening by the IPCC Secretariat, the IPCC Bureau positively reviewed the applications at its 57th Session (Singapore, 24 - 25 October 2019). The Chair invited the IPCC to consider these requests. Subsequently, the Panel admitted by consensus the following five organizations as IPCC observers: (1) Sasakawa Peace Foundation (SPF), (2) Dalit Welfare Association (Nepal), (3) Royal Meteorological Society (UK), (4) Institute for Environment and Development Sustainability (IEDS), (5) the Regional Environmental Centre for Central Asia (CAREC)¹².

The Secretary also noted that the Holy See submitted a request for admission to the IPCC as a non-member Observer State, which also was reviewed by the IPCC Bureau at its 57th Session. This application requests that the Holy See is granted several procedural rights at Sessions of the IPCC and of any of its Working Groups, as well as a specific seating position. These rights do not grant the ability to vote or to be elected. Ms Exterkate and Mr Trengove clarified that the rights requested by the Holy See are in line with the rights granted to the Holy See by the United Nations General Assembly Resolution A7RES/58/314 of 16 July 2004. The details, including the letter by the Holy See and the relevant above mentioned resolution can be found in document [IPCC-LII/Doc. 4](#). Since the IPCC Policy and Process for Admitting Observer Organizations is dealing with organizations only, admitting the Holy See as a non-member Observer State would require a separate Panel decision. The need to continue and defer these discussions to the 53rd Session of the IPCC, taking into account that there was limited time remaining during the 52nd Session to cover all items and several pertinent issues were not finalized at this point, including the approval of the outline of the AR6 Synthesis Report, which was the main topic of this Session.

10. REPORT OF THE IPCC CONFLICT OF INTEREST COMMITTEE

The Chair of the IPCC Conflict of Interest (COI) Committee, Mr Youba Sokona, gave a verbal report on the activities of the Committee. He informed the Panel that the 18th COI Committee meeting was held on 24 February 2020, 08:30 am to 09:30 am prior to the 52nd Session of the IPCC. At that meeting the COI Committee reviewed the updated information in the COI forms submitted by the IPCC Bureau and Task Force Bureau (TFB) members, which they are required to provide annually in accordance with the IPCC COI Policy. The Chair was pleased to inform the Panel that 100% compliance was reached, all updates were found in order and that no conflict of interest was found. The COI Committee also reviewed the COI form of the nominee for a replacement of a member of the TFB Mr Hamid Abakar Souleymane, which was found in order and no conflict of interest was found.

The Panel took note of the oral report.

11. JOINT ACTIVITIES BETWEEN IPCC AND IPBES

The Chair opened Agenda Item 11 on Joint Activities between IPCC and Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES), document [IPCC-LII/INF. 7](#). The Chair invited Mr Hans-Otto Pörtner, Co-Chair of Working Group II to introduce the topic and IPBES read out a prepared statement.

Angola, Belgium, Brazil, European Union, France, Germany, India, Norway, Mexico, Saint Kitts and Nevis, Sweden, Switzerland, United Kingdom, United States of America, Silva, and Mr Ramon Pichs Madruga, Vice-Chair of Working Group III spoke and were unanimous in their support for the joint collaboration.

Expressions of concern were made to develop consistent joint messaging in products derived from the workshop in London, 12-14 May 2020. In addition, concerns were made in reference to the balance of international participation and means of implementation.

¹² [Decision IPCC-LII- 4, Fifty-Second Session of the IPCC.](#)

Mr Hans-Otto Pörtner, Co-Chair of Working Group II, thanked them for their comments. He further stated that the meeting preparation is still in progress and the report from the workshop will be subject to review and circulated accordingly.

The Chair noted information provided was from IPCC rulebooks and invited the Panel to take note of the presentation by Working Group II Co-Chair, Hans-Otto Pörtner.

The Panel took note of the presentation.

12. REVIEW OF THE PRINCIPLES GOVERNING IPCC WORK

The Chair invited the Secretary, to introduce document [IPCC-LII/Doc. 7](#) providing information regarding the Review of the Principles Governing IPCC Work.

The Secretary recalled that the Principles Governing IPCC Work¹³ (hereafter referred to as the 'Principles') contain information about the IPCC's role, organization, participation, and procedures. The Principles stipulate that they shall be reviewed at least every five years and amended as appropriate. Furthermore, the Panel has established a practice to review parts of the Principles, including its Appendixes¹⁴, whenever needed. In accordance with this, the Principles as well as the Appendixes have been updated several times since their respective adoptions. The latest amendment was to Appendix C in 2015. The next review and possible amendments of the Principles were expected in 2020.

Angola, Argentina, Belgium, Canada, Estonia, Germany, Ghana, India, Ireland, Japan, Luxembourg, Norway, Russian Federation, Saudi Arabia, Sweden, Switzerland, Tanzania, United Kingdom of Great Britain and Northern Ireland, United States of America, Venezuela, Zimbabwe, the European Union, as well as Mr Edwin Aldrian, Vice-Chair of Working Group I and Mr Kyoto Tanabe Co-Chair of the TFI took the floor.

As diverging views were expressed on this matter, the Chair proposed to the Panel to conduct an informal consultation in the margins of the 52nd Session open to all Members with a limited work time of up to two hours with two Co-Chairs, one from a developing and one from a developed country and a rapporteur. Ms Maggie Bailey (Australia) and Mr Maesela Kekana (South Africa) were nominated as Co-Chairs and Mr Andrew Ferrone (Luxembourg) as a Rapporteur. The Panel agreed to this proposal and first informal consultation was scheduled on 27 February 2020 at 05:00 pm.

Following the informal consultation, the Chair invited the two Co-Chairs Ms Bailey and Mr Kekana to provide an oral report to the Panel on the outcomes of the discussion. Ms Bailey and Mr Kekana informed the Panel that the consultation addressed several questions such as the necessity to initiate the process; the timeframe, including whether the process should be started immediately or postponed; how to take this work forward; and what could be the elements to be reviewed and possibly amended. There were delegates acknowledging that there was a need to initiate the review and possible update of the IPCC Principles. It was also acknowledged that the workload during the current cycle was heavier than during previous cycles and opening the discussions on the procedures would be a long and time-consuming process. In this regard, some delegations proposed that this work could be initiated during the next cycle as the process is currently running smoothly. There were delegates suggesting that if the review and possible amendments to the procedures were to be undertaken during this cycle, then these should be conducted in a focused and efficient manner. The Co-Chairs also stressed that many elements were raised including smooth transition between assessment

¹³ [Principles Governing IPCC Work](#).

¹⁴ There are three Appendixes: Procedures for the preparation, review, acceptance, approval, adoption and publication of IPCC reports ([Appendix A](#)); Financial procedures for the IPCC ([Appendix B](#)); and Procedures for the Election of the IPCC Bureau and Any Task Force Bureau ([Appendix C](#)).

cycles, efficient operation of meetings, possibility for more frequent updates of the inventories, timeframe for the Synthesis Report TSU set up, gender policy, code of conduct, functions of the IPCC, and changes relevant to Item 6 of the Agenda for the 52nd Session – Organization of the Future Work of the IPCC in Light of the GST. The Co-Chairs added that some of the topics listed are relevant to a possible review of the Principles and their three Appendixes, while others are not and go beyond the review of the Principles. They further added that some delegations preferred a list of priority topics, while others did not agree to this. Different views were expressed also on whether to issue a call for comments on the areas to be reviewed and potential proposal for changes. The Co-Chairs informed that the general feeling was that there was no need to establish a dedicated Task Group on the topic. Ms Baily and Mr Kekana stated that following the discussions that took place during the informal consultation, they suggested that the Secretariat prepares a summary of the views of Member States and that the Bureau considers the summary prepared by the Secretariat and makes recommendations to the 53rd Session of the IPCC on the way forward.

The Chair expressed his gratitude to the Co-Chairs of the informal consultation on Review of the Principles Ms Bailey and Mr Kekana and the Rapporteur Mr Ferrone for their work and to all Member countries for the collaboration and participation in the discussions. Furthermore, the Chair requested, the Secretariat to prepare a draft decision to be put forward to the Panel for its consideration. As an outcome, the IPCC at its 52nd Session decided¹⁵ to request:

- (a) The Secretariat to prepare a summary of the views of Member States based on the discussions on the Review of the Principles Governing IPCC Work during the Fifty-Second Session and the informal consultation that took place in the margins of the Session.
- (b) The Bureau to consider the summary prepared by the Secretariat at its next sessions to take place prior to the Fifty-Third Session of the IPCC; and
- (c) The Bureau to make recommendations regarding the review of the Principles Governing IPCC Work, as appropriate, for consideration of the Panel at the Fifty-Third Session.

13. PROGRESS REPORTS

13.1. Working Group I contribution to the Sixth Assessment Report

Ms Valerie Masson-Delmotte, Co-Chair of Working Group I presented the progress report contained in document [IPCC-LII/INF. 4, Rev.1](#). She mentioned: the progress made in Working Group I's contribution to the AR6; the development and curation of scripts underlying figures and tables in WGI AR6; cross-WG coordination on scenarios, risks, regional information, storylines and other cross-cutting topics; an internal review process of the WGI AR6 draft by WGI authors and Bureau members involved in cross-WG coordination; ongoing work on WGI AR6 Frequently Asked Questions (FAQs) which were informed by a survey conducted in 2019; the development of a collaborative online Glossary; development of a visual style guide to improve the readability of figures; support for the development of open access community software used to produce AR6 figures as part of WGI's involvement in TG-Data's activities, which also include emphasis on the treatment of digital information and the innovative development of the online atlas platform, and the implementation of the FAIR¹⁶ data principles; training on diversity and inclusion in the IPCC; implementation of a discussion group on sustainability; involvement in the use of an interactive tool to calculate of the carbon footprint of travel to WGI Lead Author Meetings (LAMs), information which is expected to be provided as part of the WGI AR6; and WGI's support on checking the translated versions of the Summaries for Policy Makers of the Special Report on the Ocean and Cryosphere in a Changing Climate and the Special Report on Climate Change and Land.

¹⁵ [Decision IPCC-LII-7, Fifty-Second Session of the IPCC](#).

¹⁶ Findable, accessible, interoperable and reusable

Key milestones in the preparation of WGI AR6 which Ms Masson-Delmotte mentioned included: Expert review from 29 April to 23 June 2019 of the First Order Draft (FOD) of WGI AR6, the interactive Atlas and the scripts underpinning the online atlas. A total of 23 462 review comments were submitted by 750 Expert Reviewers; the WGI LAM3, which was held on August 26-30, 2019 in Toulouse, France; WGI AR6 Second Order Draft (SOD) was delivered by the author teams in January 2020. The SOD and the first draft of the WGI AR6 SPM and Technical Summary would be submitted for expert and government review on 2nd March 2020.

Ms Masson-Delmotte thanked WGI Bureau members and the WGI TSU for their dedication to the work and invited governments and experts to participate in the review of the WGI AR6 SOD.

Belgium, India, Spain and the Association Silva Arbres Forêts et Sociétés (SILVA) made comments during the ensuing discussion. It was noted that at the end of every IPCC report, the Panel only discusses the SPM which is perceived to be a way of endorsing the whole report. It was also mentioned that there is no mechanism to assess the extent to which review comments are addressed by the author teams. A concern was raised that the work done by countries such as the National Communications to the UNFCCC are only considered as grey literature in the IPCC assessment processes. There was a query about the proposal on the translation of IPCC reports which was submitted to the IPCC Secretariat and Executive Committee and whether the IPCC Focal Points who are native speakers of the official UN languages would be invited to review the translations before they are published.

IPCC Bureau Members who made comments were Mr Jim Skea, Co-Chair of Working Group III and Ms Fatima Driouech, Vice-Chair of Working Group I. It was mentioned that authors in the WGIII AR6 have been urged to only retain simple figures in the SPM focussing on key messages, and that whereas preference in the IPCC assessment is normally placed on peer-reviewed publications, grey literature also plays an important role whenever necessary. The IPCC Bureau established an Informal Group on Publications to, *inter alia*, look into the issue of translations of IPCC reports. It was suggested that the procedure for translating reports could be formalized and documented by the IPCC.

The secretary mentioned that the proposal on the translations of IPCC reports was well received and would help improve the translation process.

The Panel took note of the report.

13.2. Working Group II contribution to the Sixth Assessment Report

Ms Debra Roberts, Co-Chair of Working Group II introduced document [IPCC-LII/INF. 5](#). She highlighted activities which Working Group II has been involved in since the 49th Session of the IPCC which included milestones towards the WG II contribution to the AR6, the production and finalization of the Special Report on Ocean and Cryosphere in a Changing Climate, and WGII contribution to the Special Report on Climate Change and Land and the AR6 SYR.

Salient milestones towards WGII AR6 which were highlighted included: WG II Second Lead Author Meeting which was held in Kathmandu, Nepal from 14 to 19 July 2019; WG II Third Lead Author Meeting (LAM3) which was held in Faro, Portugal from 26 January to 1 February 2020; and the completion in October 2019 of the First Order Draft (FOD) of the WGII AR6, with 18 Chapters and 7 Cross-Chapter Papers, 20 Cross-Chapter Boxes and a set of 85 proposed FAQs. The WGII FOD was circulated for expert review from 18 October to 13 December 2019. A total of 16,348 review comments were submitted by 760 Expert Reviewers.

The review comments which were circulated to the chapter teams on 20 December 2019 were considered by the authors during the WGII LAM3. The preparation of the WGII SOD was ongoing. It was expected that the SOD would be available for Expert and Government Review from 7 August to 2 October 2020.

The Panel took note of the report.

13.3. Working Group III contribution to the Sixth Assessment Report

Mr Jim Skea, Co-Chair of Working Group III presented document [IPCC-LII/INF. 6, Rev.1](#) highlighting the status of WG III contribution to the AR6, the approval of the Special Report on Climate Change and Land (SRCCL) at the 50th Session of the IPCC, WGIII's involvement in the SYR Scoping Meeting and the 25th Conference of Parties (COP 25) to the UNFCCC where the SRCCL was presented, stakeholder engagement by WGIII through set of webinar-based workshops engaging authors and representatives from business and environmental NGOs, coordination of cross-WG topics such as scenarios, risk, data management, Glossary and other cross-cutting issues, WG III contribution to the work of the TG-Data, contractual support of the WG III TSU by the United Kingdom Government, and communication and outreach activities.

Salient milestones in the preparation of WGIII AR6 which were mentioned by Mr Skea, Co-Chair of Working Group III were: the internal review of the Zero Order Draft (ZOD) of the WG III report which was carried out from 22 July to 1 September 2019. The 63 invited experts provided 2,104 review comments; and the WG III LAM2, which was held from 29 September to 04 October 2019 in New Delhi, India.

The Panel took note of the report.

13.4. Task Force on National Greenhouse Gas Inventories

Mr Kiyoto Tanabe, Co-Chair of the Task Force on National Greenhouse Gas Inventories (TFI) introduced document [IPCC-LII/INF. 3](#). He mentioned that a copy-edited final version of the 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories was published in November 2019 on the IPCC TFI website, and that the TFI had started preparatory work for an IPCC Methodology Report on Short-lived Climate Forcers (SLCF). The Norwegian Environment Agency provided extra budgetary contribution to support the preparatory work. Mr Tanabe thanked the Government of Norway for their generous support.

Mr Tanabe also reported that a new version of the IPCC Inventory Software was released in January 2020. A letter of agreement between the IPCC Secretariat and the Secretariat of the UNFCCC has been signed about provision of additional financial resources from the UNFCCC Secretariat to the IPCC specifically for the further development of the IPCC Inventory Software. This additional financial resource enables TFI TSU to considerably enhance the functions and usability of the IPCC Inventory Software that will be beneficial particularly to developing country Parties to the UNFCCC, which would not have been possible with the IPCC regular annual budget for maintenance. Mr Tanabe thanked the UNFCCC Secretariat for their support.

The Panel was informed that the TFI continued its work to maintain, improve and promote the Emission Factor Database (EFDB). Following an Expert Meeting on Data for the EFDB and the 17th Meeting of the EFDB Editorial Board, data proposals were considered including those prepared by the TFI TSU, and more than 500 data in total were accepted for inclusion into the EFDB. The replacement of new members of the EFDB Editorial Board was ongoing.

Mr Tanabe concluded by reporting that the TFI held side events at the 50th Session of the Subsidiary Bodies to the UNFCCC in June 2019 and at the COP 25 in December 2019. The TFI continued to collaborate with the UNFCCC Secretariat in order to help inventory compilers for better understand and use of the TFI products.

India and Togo commented on the TFI report. It was remarked that despite the fact that the inventory requirements are bound to rise in future, the IPCC Inventory Software does not include several industrial process which are part of the IPCC Guidelines and lacks facilities to include new emission factors for several sectors and sequestrations in mangroves and other wetlands. The IPCC Inventory Software and other tools used by the UNFCCC for inventories need to be compatible. A request was made to have an IPCC Inventory Software in other UN languages.

Mr Tanabe responded that some of the suggestions made by delegates were already part of the planned improvements of the IPCC Inventory Software and the EFDB, whose implementation would be dependent on the availability of resources. He also informed the Panel that the TFI is always open to suggestions for improvements.

The Panel took note of the report.

13.5. Communication and outreach activities

The Chair invited the Secretariat to present document [IPCC-LII/INF. 2](#) on communications and outreach activities undertaken since the 51st Session of the IPCC and plans for the coming year.

Jonathan Lynn, Head of Communications and Media Relations, highlighted the continuing strong public interest in the work of the IPCC, reflected in the enormous scale of the media coverage of the two special reports, *Climate Change and Land* and *The Ocean and Cryosphere in a Changing Climate*, released in August and September 2019 respectively. This interest had continued at the Third Lead Author Meeting of Working Group II, held the previous month in Faro, Portugal.

Mr Lynn reported on the intensive and ambitious programme mounted at the 25th Conference of the Parties (COP 25) to the UNFCCC in Madrid, Spain, in December 2019, where the IPCC had benefited from a striking pavilion in prime position, thanks to the generosity of the Government of Chile and Filantropía Cortés Solari. The pavilion, shared with the World Meteorological Organization and the MERI Foundation, attracted great interest. Mr Lynn thanked all those who had contributed to the realization of the pavilion and the development of the programme. It was hoped to do something similar at COP 26.

Mr Lynn mentioned the planned series of outreach activities in Africa, for which new communications materials are being prepared under the supervision of the Co-Chairs. He thanked all those who contribute to the IPCC's outreach programme. He informed the Panel that a review of communications was underway to ensure that the IPCC is talking to the right audiences, in the right way using the right platforms. He said work on the IPCC website continued; the latest enhancement was the release of a set of web pages in all UN languages.

Mr Noureddine Yassaa, Vice-Chair of Working Group I, India, Norway, the Association Silva Arbres Forêts et Sociétés (Silva), and the Friends World Committee for Consultation, took the floor. Speakers thanked the Secretariat for the communications and outreach work. They urged increased efforts to ensure that IPCC reports are communicated and understood by non-specialists and the inclusion of relevant local and regional information in outreach events. They looked forward to hearing about plans for the release of the Sixth Assessment Report in 2021 and urged fruitful cooperation between the Secretariat and Technical Support Units.

The importance of organizing the printing of the Special Report on Global Warming of 1.5°C and other special reports without further delay was also underlined.

The Panel took note of the report.

14. MATTERS RELATED TO UNFCCC AND OTHER INTERNATIONAL BODIES

The Chair invited Mr Florin Vladu, Manager, Secretariat of UNFCCC, to present on matters related to UNFCCC and other international bodies.

Mr Florin Vladu referred to a letter sent to the Secretary of the IPCC, dated 11 February 2020, reference YN/IFV/WAT/kw and presented the main points from the letter. Mr Vladu noted matters of relevance to the work of IPCC discussed at the twenty fifth session of the Conference of the Parties (COP 25) held in Madrid, Spain in December 2019.

In its decision 1/CP.25, the COP recognized the role of the IPCC in providing scientific input to inform Parties in strengthening the global response to the threat of climate change, in the context of sustainable development and to eradicate poverty. The COP expressed its gratitude to the IPCC and the scientific community for the IPCC Special Reports on *Climate Change and Land* and *the Ocean and Cryosphere in a Changing Climate* referred to as *special reports* and encouraged parties to use information contained in the special reports in their discussions under all relevant agenda items of the UNFCCC governing and subsidiary bodies.

At the Madrid sessions, the Subsidiary Body for Scientific and Technological Advice (SBSTA) and the IPCC Chairs organized two three-hour long joint SBSTA-IPCC special events to communicate the findings of the IPCC special reports to policymakers and enable parties to better understand the reports.

Mr. Vladu said that the COP will be conducting a [second periodic review](#) of the long-term global goal under the Convention and of overall progress towards achieving it in the first Structured Expert Dialogue (SED) taking place at COP 26. It will rely heavily on available assessment reports of the IPCC with the participation of IPCC experts. IPCC products and experts are expected to play an important role as the provider of the best available science for Global Stocktake too and the preparatory work and the launch of the first Global Stocktake will be commencing soon.

The Panel took note of the letter from the UNFCCC Secretariat.

15. ENHANCING SUPPORT TO THE IPCC SECRETARIAT

The agenda item was discussed in the FiTT, under Agenda Item 3.1 on IPCC Trust Fund Programme and Budget.

16. ANY OTHER BUSINESS

The Chair opened the floor for suggestions.

Ms Valérie Masson-Delmotte, Co-Chair of Working Group I and Ms Diana Ürge-Vorsatz, Vice-Chair of Working Group III took the floor. Suggestions were made on travel and conduct of virtual Bureau session in light of the currently evolving COVID-19 situation.

The Secretary explained that the Secretariat will look into the possibility of conducting virtual meetings.

The Panel took note of this information.

17. PLACE AND DATE OF THE 53RD SESSION OF THE IPCC

The Secretary informed the Plenary that the 53rd Session of the IPCC would be held in October 2020 in Nairobi, Kenya.

18. CLOSING OF THE SESSION

The Chair thanked UNESCO for hosting a successful 52nd Session of the IPCC. He thanked government representatives of member countries, Bureau members, representatives of Observer Organizations, Working Group Technical Support Units, the legal officers of the WMO and UNEP, the Secretariat and WMO conference team, as well as the interpreters for a successful meeting and gave the meeting to a close at 19.30 p.m. on Friday 28 September 2020.

52nd SESSION OF THE IPCC
Paris, France, 24 – 28 February 2020

Decisions adopted by the Panel

Decision IPCC-LII-1. Adoption of the Provisional Agenda

Documents: IPCC-LII/Doc.1, Rev. 1 and IPCC-LII/Doc.1. Rev. 1, Add.1

The Intergovernmental Panel on Climate Change at its 52nd Session adopts the provisional agenda as contained in document IPCC-LII/Doc.1, Rev.1 with the deletion of Agenda Item 15 from the agenda. The Panel agreed that clarifications on this agenda item should be provided at the Financial Task Team meeting where it should be discussed.

Decision IPCC-LII-2. Approval of the draft report of the 51st Session of the IPCC

Document: IPCC-LII/Doc.3

The Intergovernmental Panel on Climate Change at its 52nd Session approves the report of the 51st Session of the IPCC.

Decision IPCC-LII-3. Replacement of a Member of the Task Force Bureau

Document: IPCC-LII/Doc.6

The Intergovernmental Panel on Climate Change at its 52nd Session, taking note that Mr Sabin Guendehou (Benin) stepped down as a member of the Bureau of the Task Force on

National Greenhouse Gas Inventories and that Mr Hamid Abakar Souleymane (Chad) is the only candidate nominated by Region I Africa, decides to elect by acclamation Mr Hamid Abakar Souleymane as a member of the Task Force Bureau for the Sixth Assessment cycle.

Decision IPCC-LII- 4. Admission of Observer Organizations

Document: IPCC-LII/Doc. 4

The Intergovernmental Panel on Climate Change at its 52nd Session decides to grant the following organizations IPCC observer status, in accordance with the IPCC Policy and Process for Admitting Observer Organizations:

- (1) Sasakawa Peace Foundation (SPF)
- (2) Dalit Welfare Association (Nepal)
- (3) Royal Meteorological Society (UK)
- (4) Institute for Environment and Development Sustainability (IEDS)
- (5) the Regional Environmental Centre for Central Asia (CAREC).

Decision IPCC-LII-5. Task Group on Data Support for Climate Change Assessments (TG-Data)

Document: IPCC-LII/Doc.8, Rev. 1

The Intergovernmental Panel on Climate Change at its 52nd Session:

1. Approves the TG-Data workplan for the period 2019-2023 as attached in Annex 1.
2. Takes note of the recommendations presented by the Task Group on Data Support for Climate Change Assessments as attached in Annex 2.

Activities	Sub-activities	Start date	End date	Deliverables
Administrative	Refining the draft work plan	2019-12	2020-01	Finished workplan
	Preparation of the TG-Data document for IPCC-52	2019-12	2020-01	Updated report on activities
Author support	Draft author guidelines on source data curation (to streamline DDC work)	2019-11	2020-02	Source data curation instructions
	Draft FAIR guidelines for WGI	2019-11	2020-02	WGI FAIR guidelines
	Update FAIR guidelines for WGII	2020-02	2020-05	Updated FAIR guidelines
	Update FAIR guidelines for WGIII	2020-05	2020-07	Updated FAIR guidelines, reviewed by TG-Data, endorsed by bureau and published
	Organize training workshops at LAM3 (WGIII) and LAM4 (WGII) for authors and chapter scientists on DDC services and FAIR guidelines	2020-04	2020-11	Training workshops
	Harmonize practices and standards used across WGs and chapters	2019-11	2020-12	Consolidated FAIR guidelines
DDC Oversight	Discuss DDC annual report and provide recommendations	Every year		Recommendations to DDC
	Collaborate on finalizing revised DDC MOU	2019-10	2020-04	DDC MoU
DDC Support	In collaboration with WG TSU identify datasets to be curated and relay to DDCs	2020-01	Tuned to WG cycle	Live queue of datasets to be archived by DDC
	Liaise between IPCC TSUs and DDC to assist authors in curation of their data and metadata	2020-01	Tuned to WG cycle	Improved efficiency in data curation
	Revise and make suggestions on TGICA legacy web pages	2020-02	2020-05	Updated web pages
	Move the TG-Data web site to the new IPCC visual	2021-01	2021-12	Updated web site
	Keep TG-Data and DDC web pages up to date	2020-01	End of cycle	Updated web sites
	Identify potential sources of funding for DDC work, in kind contributions and potential new DDC nodes and prepare proposals to mobilize resources	2020-01	2020-12	Proposals for new DDCs and in-kind contributions
Seek external support from institutions with experience in data curation (e.g. GCIS)	2020-01	2020-12	Participation of external institutions to TG-Data activities	
Outreach	Prepare proposals for establishment of partnerships with external organization for outreach activities	2021-01	2022-01	MoU with external organizations

Activities	Sub-activities	Start date	End date	Deliverables
	Prepare proposals for expert meetings on the use of data and scenarios in climate research	2021-06	2021-12	Expert meeting proposal (e.g. Atlas)
	Finish and publish TGICA material	2020-01	2021-01	TGICA drafts completed and published
	Identifying and producing guidance documents and factsheets	2021-04	2022-12	Guidance documents and factsheets
	Seek feedback from potential consumers of IPCC curated material (e.g. WMO)	2022-01	2023-01	Minutes
TG Data Activities	Strengthening WGII and WGIII engagement	2020-01	2023-01	Minutes
	F2F	Every year		Report
	TelCon	2-3 per year		Minutes
	Reflections of TG Data during AR6 cycle and recommendations for AR7 cycle (including new digital formats)	2022-01	2023-01	Minutes

TG-Data recommendations

1. Curation of datasets

For all AR6 Working Groups, expectations are that the data underlying all key material (figures, tables and key results) from the AR6 Summary for Policy Makers (SPM), the Technical Summaries (TS) and the Synthesis Report (SR) follow FAIR practices as outlined in FAIR guidelines and are curated by DDCs or other trusted digital repositories. This implies that authors or TSU staff submit data files and a description of the methods used to generate those data and figures. This provenance³ information should be sufficiently complete to allow for reproducibility by external reviewers and eventually the application of the IPCC's Error Protocol.

The reproducibility of IPCC results also requires that source datasets are curated. The traceability and reuse of the IPCC results / data thus depends on the long-term archiving by DDCs and other trusted digital repositories that provide sustainable data preservation and data services.

WGs are very supportive of the work done by TG-Data and all three TSUs are investing time and resources putting in place the infrastructure to make IPCC data FAIR. . It is important to be mindful of the high workload already expected of authors and of the heterogeneous chapter contexts they evolve in. For example, while some chapters use a common framework to produce all their figures, other chapters rely on individual authors and contributing authors, each one using independent programming environments. It is likely that the implementation of these best practices will require dedicated support from TSUs.

WGI has started preparing to implement these objectives, providing guidance for chapters to develop community software, including provenance information, defining key information on visuals for archival. The development of the Interactive Atlas fulfills the implementation of FAIR data principles. We recommend that specific training workshops be held during (or at beginning or end of) WG LAM meetings. These workshops are not needed for WGI meetings considering the work already underway by WGI TSU and authors in this regard and the timeline for their SPM and TS production. These workshops are very much recommended to be included in the planning of WGIII LAM3 and WGII LAM4 meetings.

2. Public code access

It is desirable that code used to produce figures from the SPM, TS and SR be archived, and eventually made publicly available and citable. However, if AR6 code is made public, bugs will inevitably be found. In a typical software development environment, bugs reports simply trigger a review process, corrections and a bug-fix release. In the IPCC context, there is a concern that bad faith actors could identify bugs and disclose them at inopportune moments or blow them out of proportion in order to inflict reputational damage. This risk of bugs creeping into the code can be mitigated by a review process, but not removed entirely. In any case, TG-Data would recommend against publicly releasing code that has not been reviewed by other authors within each chapter.

3. DDC resourcing

The implementation of the FAIR guidelines rely heavily on DDC resources, and there is a need for more countries and organizations to play a role in the technical support to IPCC activities. TG-Data is already discussing potential partnerships and will continue to do so during this cycle to strengthen the data curation and dissemination capability of DDCs. Countries and institutions interested in contributing to the curation, dissemination and reusability of IPCC products are invited to contact TG-Data Co-Chairs.

In terms of DDC support and long-term stability of DDC activities we recommend to initiate a process to update DDC webpages and moving old TGICA web page into the main new IPCC web site.

4. Outreach

We recommend that outreach activities be carried out later in the AR6 cycle, including expert meetings and guidance documentation on the use of data and scenarios in climate research. These activities will be able to leverage material curated by DDCs and improve access to the data assessed by IPCC authors.

Decision IPCC-LII-6. IPCC Gender Policy and IPCC Gender Policy and Implementation Plan

Document: IPCC-LII/Doc. 9, Rev.1

The Intergovernmental Panel on Climate Change at its 52nd Session adopts the IPCC Gender Policy and Implementation Plan as contained in Annex 1 to this decision.

IPCC GENDER POLICY AND IMPLEMENTATION PLAN

1. INTRODUCTION

The IPCC, at its 47th Session, established a task group to develop a framework of goals and actions to improve gender balance and address gender-related issues within the IPCC. This Task Group, called the Task Group on Gender, presented its report at the 49th Session of the IPCC.

At its 49th Session, the Panel decided to establish a second Task Group, called the Task Group on Gender Policy and Gender Implementation Plan (TG-Gender). This Task Group was assigned with developing a draft Gender Policy and Implementation Plan to improve gender balance and address gender-related issues within the IPCC, for consideration by the Panel at its 52nd Session (decision IPCC-XLIX-5). This document represents the outcome of the work of TG-Gender, as mandated by the Panel.

1.1. Relevant IPCC Documents

As previously mentioned, the first IPCC Task Group on Gender prepared the Report on gender balance and gender related issues within the IPCC. This report was informed by a literature review, a survey of member countries and observer organizations, and a survey of IPCC authors and participants. This report documents those results and provides recommendations related to: national IPCC Focal Points; governance and management of the IPCC; and the production of reports. One recommendation was that a Gender Policy and Implementation Plan be developed, which was accepted by the Panel at its 49th Session (Decision IPCC-XLIX-5), and led to the creation of the second Gender Task Group and this document was generated.

1.2. The Mandate, Decision IPCC-XLIX-5:

The decision of the panel which establishes the mandate of the Task Group on Gender Policy and Gender Implementation Plan follows:

The Intergovernmental Panel on Climate Change at its 49th Session decides to:

- *Welcome the report of the IPCC Task Group on Gender and Gender-related issues within the IPCC and note the recommendations of the group as consideration for future work.*
- *Express its gratitude for the work of the members, the co-chairs and the rapporteur of the IPCC Task Group on Gender as well as for the support of the IPCC secretariat.*
- *Establish a Task Group on Gender Policy and Gender Implementation Plan (TG-Gender) with the aim of developing a draft Gender Policy and a Gender Implementation plan to improve gender balance and address gender-related issues within the IPCC, for consideration by the Panel at its 52nd Session.*
- *Adopt the terms of reference of the Task Group on Gender Policy and Gender Implementation Plan as contained in Annex 1 to this document.*

Annex 1

- *The Task Group is open to IPCC members, Bureau members and Technical Support Unit staff and will be chaired by Ko Barrett, IPCC Vice-Chair.*
- *The work of the Task Group is supported by the Secretariat.*
- *The Task Group can call upon external experts, as appropriate.*

- *The purpose of the Task Group is to develop a draft IPCC Gender Policy and Gender Implementation Plan considering the Report of the IPCC Task Group on Gender and Gender-related issues. The implementation plan will identify specific actions, tasks, roles and responsibilities, as well as modalities for monitoring, reporting progress on the execution, review, and possible future updates of the implementation plan, including budgetary implications.*
- *The Task Group's mode of working will be through various electronic means and face to face meetings during IPCC plenaries. Teleconferencing arrangements will be provided from the IPCC Secretariat.*
- *The Task Group will present the draft Gender Policy and Gender Implementation Plan for consideration by the 52nd Session of the IPCC.*

1.3. Vision and purpose

The value of IPCC assessments comes from the voluntary participation of the world's best experts, the open and transparent assessment process, and the interface between the international scientific community and policymakers. To continue to produce leading scientific assessments, the IPCC harnesses the best minds, but also utilize the problem-solving power of diverse perspectives. The IPCC is dedicated to pursuing a future state where gender is mainstreamed into its processes in an inclusive and respectful manner and where there is gender balance in participation and where all have equal opportunity irrespective of gender. In so doing, the IPCC will raise awareness of the benefits of gender equality. While the focus of this policy is on gender, it is important to recognise that gender often intersects with other factors that influence participation including race, ethnicity, language, disability, age, diversity of expertise, or nationality. This Policy and Implementation Plan establishes goals and implementation actions that lead the IPCC towards achieving this vision.

1.4. Conformity with national gender policy

The IPCC Gender Policy and Implementation Plan is applicable for all IPCC participants and it sets gender-related objectives for the IPCC's overall governance and execution. IPCC recognizes the sovereignty of individual member countries. Therefore, this Policy and Implementation Plan does not intend to supersede national legislation, policies, or structures. It sets standards and expectations for the work of the IPCC.

1.5. Mapping the Landscape

This Policy and Implementation Plan was informed by other relevant gender policies and guidance documents, such as those from the United Nations. These resources, and others identified as relevant by the first IPCC Task Group on Gender, are included below. Other resources within the UN system, as well as national policies and initiatives, research studies, and more, provide relevant knowledge. Gender policies and plans are context specific, and the IPCC Gender Policy is tailored to the unique mandate, modes of work, and governance structure of this organization. Additional resources listed below are provided solely for the information of IPCC members:

- [WMO Gender Equality](#) Information
- United Nations Environment Programme [Gender Equality](#) Information
- [UNFCCC Gender and Climate Change Information](#) and [Gender Action Plan](#)
- [UN Women Sustainable Development Goal 5](#)
- [UN Women](#)

2. IPCC GENDER POLICY

2.1. Goal 1: Enhancing Gender Equality¹⁷ in IPCC processes

- 2.1.1. Promote equal opportunities for all, regardless of gender, within the governance and execution of the IPCC's activities.
- 2.1.2. Pursue gender equality among leadership positions in the IPCC: Bureau (including Executive Committee, Vice Chairs, Co-Chairs), author teams, and other IPCC bodies.
- 2.1.3. Pursue gender equality and inclusion during IPCC meetings, including, inter alia, during Plenary meetings, Bureau meetings, Lead Author meetings, scoping meetings, and expert meetings.
- 2.1.4. Encourage gender equality among National Focal points and national delegations to IPCC meetings, as appropriate.

2.2. Goal 2: A Gender-inclusive Environment

- 2.2.1. Provide a gender-inclusive organizational environment that promotes gender equality, facilitates active and equal engagement of all individuals, and supports the success of IPCC participants and products.
- 2.2.2. Strive to facilitate participation of people with child or elderly care responsibilities.

2.3. Goal 3: Training and Guidance

- 2.3.1. Raise awareness about gender-related issues and gender equality within the IPCC.
- 2.3.2. Enhance skills to respond to gender-related issues within the IPCC.
- 2.3.3. Consider gender-related issues in all outreach activities.

¹⁷ Gender equality is defined as gender balance and equal opportunity regardless of gender.

3. IPCC GENDER IMPLEMENTATION PLAN

3.1. Establish the Gender Action Team (GAT)

- 3.1.1. The GAT is comprised of elected members of the Executive Committee, a representative from the IPCC Secretariat, and two additional members with appropriate expertise appointed by UNEP and WMO.
- 3.1.2. The GAT will elect its Chair and Vice-Chair at its first meeting.
- 3.1.3. The GAT can call upon external experts, as needed.
- 3.1.4. The members of the GAT act as designated contact points for the Gender Policy and Implementation Plan.
- 3.1.5. The GAT operates by consensus.
- 3.1.6. The GAT operates as a practical working arrangement and is responsible for the Gender Implementation Plan. It will oversee and monitor the implementation of the actions outlined in the Gender Implementation Plan and will propose potential future refinements of the Gender Policy and the Implementation Plan to the Panel as needed and at least at the beginning of each assessment cycle.
- 3.1.7. GAT meetings will be held primarily through teleconferencing and/or in combination with existing IPCC meetings. Teleconferencing arrangements will be provided from the IPCC Secretariat
- 3.1.8. The GAT serves as the point of contact for gender-related issues and will develop and implement a protocol and process for addressing informal and formal complaints made in the context of the IPCC Gender Policy and Implementation Plan.
- 3.1.9. The GAT is accountable to the Panel through the ExCom and the Bureau. It will provide reports to the Bureau and Panel.
- 3.1.10. The GAT will be supported by the IPCC Secretariat, with involvement of the Working Group Technical Support Units as appropriate.

3.2. Enhancing Gender Equality in IPCC Processes

- 3.2.1. Regularly monitor activities and report to Plenary on gender equality in IPCC's processes.
- 3.2.2. Take into account gender balance and gender-related aspects in the Panel's decisions, when relevant.
- 3.2.3. Recommend and invite IPCC member countries to nominate more women for key IPCC positions.
- 3.2.4. Strive for gender-balanced compositions of meeting chairpersons and panels.

3.3. A Gender-inclusive Environment

- 3.3.1. Take into account a gender perspective in the Panel's decisions, when relevant and as appropriate.
- 3.3.2. Consider the ability to provide a gender- friendly and inclusive environment when selecting meeting venues.
- 3.3.3. Provide information to IPCC meeting participants who are unable to attend meetings due to family considerations, and facilitate their remote participation as appropriate.

3.4. Training and Guidance

- 3.4.1. Organise training, guidance, or internal workshops for IPCC staff, leadership, and to wider groups, as appropriate, on gender balance and gender-related issues, including, inter alia, consideration of intersectionality of gender issues with other diversity goals, addressing implicit biases, and implementing inclusive practices.
- 3.4.2. Set up an informal process to share best practices on gender issues among Focal Points, including through a web forum.
- 3.4.3. Organise regular opportunities for gender diversity training for meeting chairs and facilitators.
- 3.4.4. Cooperate with other organizations as relevant to enhance gender equality within the IPCC.

4. MONITORING PROGRESS AND REPORTING ON ACHIEVEMENTS

- 4.1. Data relevant to the achievement of the Implementation Plan and Gender Policy goals will be collected. This could include data on gender balance in IPCC bodies, author teams, national nominations, and overall participation in IPCC activities, as appropriate. The GAT will evaluate this data.
- 4.2. Participant's experiences at IPCC meetings, including at the end of each assessment cycle and during the overall assessment process, will be surveyed.

5. RESOURCE IMPLICATIONS

- 5.1. Support for activities to implement the Gender Implementation Plan is contingent on the availability of funds.
- 5.2. The GAT is invited to assess and consider funding needs and present these to the Panel as appropriate. Where appropriate, the GAT will endeavor to engage partner organizations.

Decision IPCC-LII-7. Review of the Principles Governing IPCC Work

Document: IPCC-LII/Doc.7

The Intergovernmental Panel on Climate Change at its Fifty-Second Session, decides to request:

- (a) The Secretariat to prepare a summary of the views of Member States based on the discussions on the Review of the Principles Governing IPCC Work during the Fifty-Second Session and the informal consultation that took place in the margins of the Session.
- (b) The Bureau to consider the summary prepared by the Secretariat at its next sessions to take place prior to the Fifty-Third Session of the IPCC; and
- (c) The Bureau to make recommendations regarding the review of the Principles Governing IPCC Work, as appropriate, for consideration of the Panel at the Fifty-Third Session.

Decision IPCC-LII-8. Organization of the Future Work of the IPCC in Light of the Global Stocktake

Document: IPCC-LII/Doc. 5

The Intergovernmental Panel on Climate Change at its Fifty-second Session, decides:

That the mandate of the TG-FWLGST is fully completed, and the Panel would like to thank the co-chairs, rapporteur and the members of the TG-FWLGST for their excellent work.

Further the Intergovernmental Panel on Climate Change notes:

That the final report from the TG-FWLGST, as contained in document [IPCC-LII/Doc. 5](#), presents the viable options and their pros and cons, reflecting contributions from Panel members.

Decision IPCC-LII-9. IPCC Trust Fund Programme and Budget for the years 2020, 2021, 2022 and 2023

Document: IPCC-LII/Doc. 2, Rev.1, Corr.1

Based on the recommendations of the Financial Task Team (FiTT), the 52nd Session of the Intergovernmental Panel on Climate Change:

1. Appreciates the support that the Secretariat of the IPCC provides to the IPCC process;
2. Approves the revised budget for 2020, as contained in Annex 1;
3. Approves the proposed budget for 2021, as contained in Annex 2;
4. Notes the forecast budget for 2022, as contained in Annex 3;
5. Notes the indicative budget for 2023, as contained in Annex 4;
6. Welcomes with gratitude all contributions and pledges from members, especially from developing countries, UN bodies and intergovernmental organizations and encourages all members of the IPCC to maintain or increase their financial support, also through multi-year pledges, so as to ensure the financial stability of the IPCC;
7. Encourages members to make first-time contributions to the IPCC Trust Fund in order to broaden the donor base;
8. Expresses its gratitude to members that support the Technical Support Units (TSUs) and a number of IPCC activities, including data centres, meetings and outreach activities;
9. Encourages members to transfer funds as soon as practical, while noting that contributions from IPCC members are due on 1 January of each calendar year, noting that when transferring funds to WMO, members should indicate that the contribution is “for the IPCC Trust Fund” to ensure proper identification of the recipient;

10. Expresses its gratitude to the World Meteorological Organization (WMO) and the United Nations Environment Programme (UNEP) for financing one Secretariat position each, and to WMO for hosting the Secretariat and for its continuing support for the IPCC;
11. Expresses its gratitude to the United Nations Framework Convention on Climate Change (UNFCCC) for its contribution to the IPCC Trust Fund;
12. Decides to continue preparing the budget of the IPCC Trust Fund using the standard costs, bearing in mind that expenditures may be lower than the budget;
13. Requests that the Secretariat presents, in addition to statements according to IPSAS, the statement of financial position and financial performance on a modified cash basis which categorizes expenditures per activity as well as by natural account;
14. Requests the Secretariat to provide the panel with interim statements of expenditure covering the first six months of the year, as well as the projection of expenditure for the rest of the year;
15. Requests the Secretariat to maintain a funding reserve to cover long-term employee benefits;
16. Requests the Secretariat to provide detailed information in the budget document presented to the Panel;
17. Requests the TG-Data Co-chairs to seek guidance from the Secretariat in mobilizing resources, including in-kind contributions, for their activities and for the Data Distribution Centre (DDC), and to provide the Secretariat with cost estimates for the activities outlined in their workplan;
18. Invites member countries and observer organizations to consider supporting the activities of the DDC;
19. Requests the Secretariat in consultation with the Technical Support Units and ExCom to prepare Terms of Reference for the position of Programme Officer (P4) relating to IT and logistics and an IT Associate Support Officer (P1) for the consideration by the Bureau at its next meeting;
20. Subject to the acceptance of the Terms of Reference by the Bureau, approves:
 - i. the upgrade of the IT Officer position in the IPCC Secretariat to the position of Programme Officer (IT and logistics) at the level P4 from P3 based on the Terms of Reference;
 - ii. the establishment of an IT Associate Support Officer position at P1 level based on the Terms of Reference;
 - iii. the allocation of CHF 31,000 per annum to cover the additional costs of the upgrade from P3 to P4 position in the 2020/2021/2022 budgets;
 - iv. the allocation of CHF 94,000 per annum in the 2020/2021/2022 budgets to fund the P1 position.
21. Requests the Secretariat to prepare a report to Bureau-58 on staffing, roles and requirements as well as options to enhance the efficiency of support for travel, procurement and continuity within and between cycles, including considerations of support from the World Meteorological Organization to the IPCC, and any relevant implications;

- 22.** Requests the Bureau at its next session to prepare proposals for consideration of the Panel at IPCC-53 in the areas mentioned in paragraph 21, in light of the Secretariat's analysis;
- 23.** Invites the Gender Action Team to assess and consider future funding needs for the work foreseen in the Gender Policy and Implementation Plan and to work with the Secretariat to include an appropriate budget line for consideration in forthcoming budget deliberations.

REVISED 2020 BUDGET APPROVED BY IPCC-LII

Activity	Purpose	DC/EIT support	Other Expenditure	Sub-total
Governing bodies				
IPCC-52 5 days	Programme and budget	480,000 120 journeys	100,000	580,000
IPCC-53 4 days	Programme and budget	480,000 120 journeys	100,000	580,000
Bureau 4 days	2 sessions	288,000 72 journeys	120,000	408,000
TFB	1 session	36,000 9 journeys	6,120	42,120
UNFCCC and other UN meetings		80,000 20 journeys	0	80,000
SUB-TOTAL				1,690,120
Lead Authors, scoping, expert meetings and workshops				
WG I AR6 LA 4	CLA/LA meeting	440,000 110 journeys	74,800	514,800
WG I AR6 SPM Drafting Meeting	CLA, drafting authors, Co-Chairs	120,000 30 journeys	0	120,000
WG II AR6 LA 3 and LA 4	CLA/LA meeting	920,000 230 journeys	78,200	998,200
WG III AR6 LA 3	CLA/LA meeting (LA 4 moved to 2021)	460,000 115 journeys	78,200	538,200
Expert meeting - Science of Communicating Science	1 meeting	80,000 20 journeys	13,600	93,600
SYR AR6	CWT-1 (CWT-2 moved to 2021)	60,000 15 journeys	10,200	70,200
TG-Data	1 meeting	48,000 12 journeys	8,160	56,160
EFDB Editorial Board	1 meeting	96,000 24 journeys	16,320	112,320
EFDB Data meeting	1 meeting	40,000 10 journeys	6,800	46,800
EFDB and Software Users Feedback (Japan)	1 meeting	88,000 22 journeys	0	88,000
TFI Expert Meeting on Short-lived Climate Forcers	2 meetings	320,000 80 journeys	54,400	374,400
TFI Expert meeting	1 meeting (contingency)	100,000 25 journeys	17,000	117,000
SUB-TOTAL				3,129,680
Other Expenditures				
2006 GL software	maintenance/development			18,000
EFDB maintenance	update/management			7,000
Publications/Translations	IPCC publications			600,000
Communication I	AR6 material/travel/events			590,000
Communication II	AR6 outreach events*			153,960
Distribution	IPCC publications			100,000
IT Infrastructure	web hosting/cloudflare/upgrades			50,628
External Audit	fee			20,000
Advisory Services	Conflict of Interest			15,000
Co-Chairs	support			200,000
SUB-TOTAL				1,754,588
Secretariat				
Secretariat	staff costs/misc expenses			2,037,500
Resource Mobilization	travel costs (Phase II: 2020-2022)			15,800
SUB-TOTAL				2,053,300
TOTAL				8,627,688

All activities subject to Panel approval in IPCC-52

* Regional/local events

Revised/new activity

PROPOSED 2021 BUDGET APPROVED BY IPCC-LII

Activity	Purpose	DC/EIT support	Other Expenditure	Sub-total
Governing bodies				
IPCC-54 5 days	Programme and budget Acceptance AR6 WG I	480,000 120 journeys	350,000	830,000
IPCC-55 5 days	Acceptance AR6 WG III	480,000 120 journeys	350,000	830,000
IPCC-56 5 days	Programme and budget Acceptance AR6 WG II	480,000 120 journeys	350,000	830,000
Bureau 4 days	2 sessions	288,000 72 journeys	120,000	408,000
TFB	1 session	36,000 9 journeys	6,120	42,120
UNFCCC and other UN meetings		80,000 20 journeys	0	80,000
SUB-TOTAL				3,020,120
Lead Authors, scoping, expert meetings and workshops				
WG II AR6 SPM Drafting Meeting I	CLA, drafting authors, Co-Chairs	140,000 35 journeys	23,800	163,800
WG II AR6 SPM Drafting Meeting II	CLA, drafting authors, Co-Chairs (back-to-back P-56)	140,000 35 journeys	0	140,000
WG III AR6 LA 4	CLA/LA meeting (moved from 2020)	460,000 115 journeys	78,200	538,200
WG III AR6 SPM Drafting Meeting I	CLA, drafting authors, Co-Chairs	120,000 30 journeys	20,400	140,400
WG III AR6 SPM Drafting Meeting II	CLA, drafting authors, Co-Chairs	120,000 30 journeys	20,400	140,400
SYR AR6	CWT-2 meeting (moved from 2020)	60,000 15 journeys	10,200	70,200
SYR AR6	CWT-3 meeting	60,000 15 journeys	10,200	70,200
SYR AR6	CWT-4 & CWT-4 bis meetings (moved to 2021)	30 journeys	0	0
TG-Data	1 meeting	48,000 12 journeys	8,160	56,160
EFDB Editorial Board	1 meeting	96,000 24 journeys	16,320	112,320
EFDB Data meeting	1 meeting	40,000 10 journeys	6,800	46,800
EFDB and Software Users Feedback (Japan)	1 meeting	88,000 22 journeys	0	88,000
TFI Expert Meeting on Short-lived Climate Forcers	2 meetings	320,000 80 journeys	54,400	374,400
TFI Expert meeting	1 meeting (contingency)	100,000 25 journeys	17,000	117,000
SUB-TOTAL				2,057,880
Other Expenditures				
2006 GL software	maintenance/development			6,000
EFDB maintenance	update/management			7,000
Publications/Translations	IPCC publications (WG I/II/III)			600,000
Communication I	AR6 material/travel/events			672,040
Communication II	AR6 outreach events*			153,960
Distribution	IPCC publications			100,000
IT Infrastructure	web hosting/cloudflare/upgrades			40,628
External Audit	fee			20,000
Advisory Services	Conflict of Interest			15,000
Co-Chairs	support			200,000
SUB-TOTAL				1,814,628
Secretariat				
Secretariat	staff costs/misc expenses			2,037,500
Resource Mobilization	travel costs (Phase II: 2020-2022)			15,800
SUB-TOTAL				2,053,300
TOTAL				8,945,928

All activities subject to Panel approval in IPCC-52

* Regional/local events

Revised/new activity

FORECAST 2022 BUDGET NOTED BY IPCC-LII

Activity	Purpose	DC/EIT support	Other Expenditure	Sub-total
Governing bodies				
IPCC-57 5 days	Acceptance SYR AR6 Programme and budget	480,000 120 journeys	350,000	830,000
IPCC-58 4 days	Programme and budget	480,000 120 journeys	280,000	760,000
Bureau 4 days	2 sessions	288,000 72 journeys	120,000	408,000
TFB	1 session	36,000 9 journeys	6,120	42,120
UNFCCC and other UN meetings		80,000 20 journeys	0	80,000
SUB-TOTAL				2,120,120
Lead Authors, scoping, expert meetings and workshops				
SYR AR6	CWT-4 meeting (moved from 2021)	60,000 15 journeys	10,200	70,200
TG-Data	1 meeting	48,000 12 journeys	8,160	56,160
EFDB Editorial Board	1 meeting	96,000 24 journeys	16,320	112,320
EFDB Data meeting	2 meetings	80,000 20 journeys	13,600	93,600
EFDB and Software Users Feedback (Japan)	1 meeting	44,000 11 journeys	0	44,000
TFI Scoping Meeting on Short-lived Climate Forcers	1 meeting	160,000 40 journeys	27,200	187,200
TFI Expert meeting	1 meeting (contingency)	100,000 25 journeys	17,000	117,000
SUB-TOTAL				680,480
Other Expenditures				
2006 GL software	maintenance/development			6,000
EFDB maintenance	update/management			7,000
Publications/Translations	IPCC publications (SYR)			200,000
Communication	AR6 material/travel/events			672,040
Distribution	IPCC publications			100,000
IT Infrastructure	web hosting/cloudflare/upgrades			13,128
External Audit	fee			20,000
Advisory Services	Conflict of Interest			15,000
Co-Chairs	support			200,000
SUB-TOTAL				1,233,168
Secretariat				
Secretariat	staff costs/misc expenses			2,037,500
Resource Mobilization	travel costs (Phase II: 2020-2022)			15,800
SUB-TOTAL				2,053,300
TOTAL				6,087,068

All activities subject to Panel approval in IPCC-54

Revised/new activity

INDICATIVE 2023 BUDGET NOTED BY IPCC-LII

Activity	Purpose	DC/EIT support	Other Expenditure	Sub-total
Governing bodies				
IPCC-59 4 days	Programme and budget	480,000 120 journeys	280,000	760,000
IPCC-60 4 days	Programme and budget	480,000 120 journeys	280,000	760,000
Bureau 4 days	2 sessions	288,000 72 journeys	120,000	408,000
Executive Committee 4 days	2 sessions and consultations	0	0	0
TFB	1 session	36,000 9 journeys	6,120	42,120
UNFCCC and other UN meetings		80,000 20 journeys	0	80,000
SUB-TOTAL				2,050,120
Lead Authors, scoping, expert meetings and workshops				
TG-Data	1 meeting	48,000 12 journeys	8,160	56,160
EFDB Editorial Board	1 meeting	96,000 24 journeys	16,320	112,320
EFDB Data meeting	2 meetings	80,000 20 journeys	13,600	93,600
EFDB and Software Users Feedback (Japan)	1 meeting	44,000 11 journeys	0	44,000
TFI Expert meeting	1 meeting (contingency)	100,000 25 journeys	17,000	117,000
SUB-TOTAL				423,080
Other Expenditures				
2006 GL software	maintenance/development			6,000
EFDB maintenance	update/management			7,000
Publications/Translations	IPCC publications (SYR)			200,000
Communication	AR6 material/travel/events			260,500
Distribution	IPCC publications			100,000
IT Infrastructure	web hosting/cloudflare/upgrades			13,128
External Audit	fee			20,000
Advisory Services	Conflict of Interest			15,000
Co-Chairs	support			200,000
SUB-TOTAL				821,628
Secretariat				
Secretariat	staff costs/misc expenses			2,037,500
Resource Mobilization	travel costs (Phase II: 2020-2022)			15,800
SUB-TOTAL				2,053,300
TOTAL				5,348,128

All activities subject to Panel approval in IPCC-58

Revised/new activity

Decision IPCC-LII-10. Sixth Assessment Report Synthesis Report Outline

Document: IPCC-LII/Doc.10

The Intergovernmental Panel on Climate Change at its 52nd Session decides:

(1) to agree to the outline of Sixth Assessment Report Synthesis Report as contained in Annex 1 to this document.

(2) that the bulleted text in Annex I to this Decision, that resulted from the scoping process and refined through comments by the Plenary, be considered by the authors as indicative.

The notes contained in CRP. 2 will be forwarded to the authors for their additional consideration of the outline.

(3) to take note that the provisional timetable for the production of the Sixth Assessment Report Synthesis Report, is as follows:

- Selection of Authors 2 March – 03 May 2020
- Bureau Meeting 4 -5 May 2020 (TBC)
- CWT 1 7 -13 December 2020
- CWT 2 8 -14 March 2021
- Gov and Expert Review 12 July – 5 September 2021
- CWT 3 29 Nov – 5 December 2021
- FGD Period 14 Feb – 17 April 2022
- CWT 4 and Approval 16 - 22 May 2022

(4) take note that the budget for the production of the Sixth Assessment Report Synthesis Report is as contained in Decision IPCC-LII-9 on the IPCC Trust Fund Programme and Budget.

Content

The following structure for the AR6 SYR is proposed. It contains agreed topic headings and a list of bullets. This outline contains indicative bullets to help guide the authors in their consideration of information they will synthesize from the underlying reports in the sixth assessment cycle. The order of bullets does not carry any significance.

Proposed outline of the Sixth Assessment Report Synthesis Report

Title: AR6 Synthesis Report: Climate Change 2022

List of Contents

- Front matter (2 pages)
- Summary for Policy Makers (~10 pages)
- Section 1: Introduction (~1/2 page)
- Section 2: Current Status and Trends (~10 pages)
- Section 3: Long term Climate and Development Futures (~10 pages)
- Section 4: Near Term Responses in a Changing Climate (~10 pages)

Section 1: Introduction (~1/2 page)

- Context
- Setting the stage for the report
- Definition of time frames

Section 2: Current Status and Trends (~10 pages)

- Socio-economic development, climate change, and climate action across regions.
- Current and historic CO₂ emissions by sources, removals and sinks, from both an annual and cumulative perspective, non-CO₂ forcings, including short-lived climate forcings.
- Socio-economic and technological drivers that increase or decrease emissions.
- Regional/global changes in the climate system and their causes.
- Unavoidable climate change due to past emissions and from inertia in geophysical and socio-economic systems.
- Current impacts on human and natural systems; vulnerability, sectoral and regional impacts and risks, including residual risk.
- Current status of adaptation and mitigation efforts, finance, capacity building and technology, and implications for sustainable development.

Section 3: Long term Climate and Development Futures (~10 pages)

- Scenarios and projections, regional and global climate change, rate of change, and dependency on forcing characteristics.
- Global and regional impacts, costs and benefits, and risks for natural and human systems, dependence on warming levels, and implications for socio-economic development.
- Adaptation: options, opportunities, limits and residual risks, implications for socio-economic development and dependence on warming levels.
- Mitigation pathways, global balance between anthropogenic greenhouse gas emissions, removals and sinks, total and remaining carbon budgets and the link to past cumulative emissions, equity and implications for socio-economic development.

- Adaptation, mitigation and sustainable development, and interactions, including direct and indirect costs, benefits, co-benefits, risks, economics, and equity.
- Deep uncertainty, tipping points, irreversibility, compound events, high-impact events, and implications for society.
- Overshoot pathways, CDR, SRM and their implications.
- Near-term and long-term interactions.

Section 4: Near Term Responses in a Changing Climate (~10 pages)

- Near-term climate change and variability, vulnerability, exposure, impacts, costs and risks for natural and human systems.
- Near-term socio-economic trajectories consistent with limiting warming to different levels and development pathways consistent with sustainable development and enhancing adaptation,
- Potential for benefits and costs of and barriers to early action, implications of delayed action, including lock-in, residual risks, spill over and irreversible changes in a changing climate.
- Diverse response options across and within sectors and geographic scales, benefits, co-benefits/synergies and direct and indirect costs, and trade-offs (adaptation, risk management, mitigation).
- Strengthening and initiating just system transitions, including for adaptation and mitigation, in the context of sustainable development, poverty eradication, food security and equity.
- Supportive conditions and means, including finance and investment, capacity, institutional arrangements, international cooperation, technological innovation and technology transfer, and behavioural aspects across a range of actors.

INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

**52nd SESSION OF THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE
Paris, France, 24 to 28 February 2020**

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