

FIFTY-FIRST SESSION OF THE IPCC
Principality of Monaco, 20 – 23 September 2019

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DRAFT REPORT OF THE FIFTIETH SESSION OF THE IPCC

Geneva, Switzerland, 2 to 6 August 2019

(Submitted by the Secretary of the IPCC)

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DRAFT REPORT OF THE FIFTIETH SESSION OF THE IPCC
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1. OPENING OF THE SESSION

Hoesung Lee, Chair of the Intergovernmental Panel on Climate Change (IPCC), called the 50th Session of the IPCC (IPCC-50) to order on Friday 2 August 2019 at the World Meteorological Organization (WMO), Geneva, Switzerland.

The Secretary of the IPCC, Mr Abdalah Mokssit welcomed participants to the meeting.

In his opening statement, the Chair of the IPCC thanked the World Meteorological Organization for their support and hospitality, and also thanked the United Nations Environment Programme, welcomed the closer cooperation with the United Nations Framework Convention on Climate Change and thanked the Government of Switzerland for their support. He paid tribute to the hard work of the authors, technical support units and Bureau members in delivering the report in a timely manner.

He noted that the meeting was mainly devoted to the consideration of the Special Report on Climate Change and Land, and highlighted the fact that this was the first IPCC report to be prepared jointly by all three Working Groups with the cooperation of the Task Force on National Greenhouse Gas Inventories. This reflected the integrated approach to assessing climate change that is characteristic of the Sixth Assessment cycle and by addressing all three UN Rio conventions – climate, biodiversity and desertification – demonstrates the broad policy relevance of the IPCC's work.

Climate Change and Land is the second of three special reports the IPCC is preparing in this cycle and they are all complementary to each other, he said. This report focuses on land as a source of emissions but also looks at the adaptation and mitigation options that land use offers.

Mr Lee concluded by expressing the hope that the report would serve as a bridge between scientific knowledge and those who can play a role in implementing solutions, both policymakers and other stakeholders.

Elena Manaenkova, Deputy Secretary-General, World Meteorological Organization, welcomed participants and noted this was the first IPCC plenary to be hosted in WMO building. WMO had made innovations to accommodate the larger number of people associated with a full session. She also thanks Switzerland for their support to the meeting as well as generally to WMO and IPCC.

Ms Manaenkova recalled that the report, the third of eight to be produced in the current IPCC cycle, was appearing in an intense year for the IPCC.

Climate Change and Land was important for the work of the WMO. She informed delegates that WMO's governing body, the World Meteorological Congress, had met one month earlier and approved a new 2030 Strategy calling for actionable, accessible and authoritative information and services on the changing state of the entire earth system. Understanding the earth system and its complex interactions with other parts of climate system was fundamental to WMO's strategy.

One element of the 2030 Strategy was to advance policy-relevant science, and explicitly to enhance the body of scientific knowledge assessed by the IPCC and other scientific bodies.

This included a specific resolution to support the IPCC and climate policy through a coordinating mechanism to look horizontally across the various WMO reports as a coherent package. A second related resolution aims to stimulate better coordination of work relevant to the IPCC through the World Climate Research Programme, she said.

Jian Liu, Chief Scientist and Director of the Science Division of the UN Environment Programme, introduced a video message by Ms Inger Andersen, the new Executive Director, UN Environment.

In the video message, Ms Andersen noted that a focus on the interconnectedness of land and climate was critical to understand whether land would have a positive or negative impact on climate change and thus to help ensure everyone has access to a healthy, nutritious diet. She said UNEP is working in areas such as ecosystem-based adaptation and land restoration, where nature is key to climate-smart, biodiversity-positive and resilient land use.

She concluded by saying that UNEP looked forward to helping governments translate the findings of the report into policy.

Florin Vladu, representative of the Secretariat of the United Nations Framework Convention on Climate Change (UNFCCC), said the Special Report on Climate Change and Land would provide policymakers and practitioners with a better understanding of land-climate interactions.

IPCC reports have shown that deep transformative change is needed to address climate change in areas including energy, land, urbanization, industry and behaviour.

Mr Vladu looked forward to the UN Secretary-General's Climate Summit in September which would be about accelerating change and increasing ambition in mitigation, adaptation and finance. The summit in turn would feed into the climate negotiations at the 25th Conference of the Parties (COP25) of the UNFCCC in Santiago, Chile, at the end of the year.

He thanked the IPCC for its participation in the recent meetings of the UNFCCC subsidiary bodies, including the Subsidiary Body for Scientific and Technological Advice, the Research Dialogue and the Special Event to present the 2019 Refinement. SBSTA had considered the Special Report on Global Warming of 1.5°C and expressed appreciation and gratitude to the IPCC and scientific community for responding the invitation of COP21 to prepare the report.

Mr Vladu outlined the forthcoming priorities for the UNFCCC and looked forward to the participation of the IPCC in COP25, which would include Special Events on Climate Change and Land and the Special Report on the Ocean and Cryosphere in a Changing Climate, as well as the annual SBSTA-IPCC joint meeting of principals.

Marc Chardonens, Director, Swiss Federal Office for the Environment, welcomed delegates on behalf of the Swiss Government. He highlighted the importance of soil for food and biodiversity. Increasing and intensifying use of land and water by humanity has in some cases led to losses of biodiversity and ecosystem services, and current land use is not sustainable.

He noted that land serves as a sink for human-induced carbon emissions while unsustainable land use leads to significant greenhouse gas emissions. Scenarios assessed by the IPCC consistent with limiting warming to 1.5°C would involve forestation, bioenergy production and carbon sequestration. Implementing these measures would have a significant impact on the use of farm land and forests. Such measures would require appropriate governance, he said.

Mr Chardonens described how climate scenarios indicated drier summers for Switzerland and drying soils, which were leading Switzerland to take measures to protect its soils.

Mr Chardonnes highlighted the importance of underlining that science is not negotiable. IPCC assessments are the indisputable source for climate-related scientific knowledge, he said. Thus the IPCC is an outstanding resource for defining global climate policy and its work is irreplaceable. He said that some people were attempting to discredit IPCC reports and were opposed to their acceptance by the UNFCCC. He said this was a dangerous game, because facts cannot be contradicted or ignored.

He concluded by recalling that the IPCC had inspired other bodies, notably the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES), and called for greater cooperation between the IPCC and IPBES.

The Chair of the IPCC then introduced the provisional agenda as contained in document [IPCC-L/Doc.1](#) and [IPCC-L/Doc.1, Add.1](#). Several Member countries made statements on the Footnote of the Methodology Report, 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories” and requests on the collaboration between the IPCC and the Intergovernmental Panel on Biodiversity and Ecosystem Services (IPBES), to be discussed under AOB. There was also a request from UK to add a separate agenda item for the Sixth Assessment Report Synthesis Report. The provisional agenda was then adopted with the addition of Agenda Item 5 – Sixth Assessment Report Synthesis Report.

2. APPROVAL OF THE DRAFT REPORT OF THE 49TH SESSION OF THE IPCC

Documents : [IPCC-L/Doc.2, Rev.1](#)

With respect to the section in the draft report dealing with the Adoption and Acceptance of the “2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories”, some countries suggested that the two footnotes which were added to the underlying Methodology Report should be clarified and mention by name the countries with the differing views. The countries supporting the footnotes did not agree. Some countries highlighted that the two footnotes that were added to the underlying Methodology Report did not follow established IPCC practice and precedence and suggested that they should be clarified.

After informal consultations proposals were made to arrive at a more balanced text in the draft report of the 49th Session of the IPCC reflecting the different positions of the countries concerned. The text was issued in document IPCC-L/Doc.2, Rev.1. Subsequently the revised draft report was presented to the Panel and approved without changes.

France requested to have its statement, submitted after approval, to be included in the report of the 50th Session of the IPCC. The statement is contained in Annex 2 to this report.

3. ACCEPTANCE OF THE ACTIONS TAKEN AT THE SECOND JOINT SESSION OF WORKING GROUPS I, II AND III IN COOPERATION WITH THE TASK FORCE ON NATIONAL GREENHOUSE GAS INVENTORIES

Documents: [IPCC-L/Doc.3](#), [IPCC-L/Doc.4](#)

The Chair of the IPCC invited the Panel to accept the actions of the 2nd Joint Session of Working Groups I, II, and III, in cooperation with the Task Force on National Greenhouse Gas Inventories (TFI). The Panel accepted the Summary for Policymakers (SPM) of the Special Report on Climate Change and Land (SRCCL) and noted the changes to the underlying scientific-technical assessment to ensure consistency between the underlying report and the approved Summary for Policymakers. The Chair voiced his gratitude to the Working Groups and the TFI Co-Chairs, the Authors, the Governments and others who had contributed to the

successful conclusion of the report. Delegations took the floor to express their appreciation for this important achievement.

The statement of the Russian Federation on the use of burning embers diagrams in the SPM of the SRCCL is appended as Annex 3 to this report.

The statement of the USA is appended as Annex 4 to this report.

4. PROGRESS REPORT OF THE TASK GROUP ON THE ORGANIZATION OF THE FUTURE WORK OF THE IPCC IN LIGHT OF THE GLOBAL STOCKTAKE (ORAL)

Mr Eric Brun, Co-Chair of the Task Group on the Organization of future work of the IPCC in light of the Global Stocktake (TG-FWLGST) presented the oral progress report. He reminded the Panel that according to the Task Group's Terms of Reference, they should present progress reports at Panel Sessions and comply with IPCC procedures, and ensure transparency and inclusiveness. Also, the Task Group should deliver the outcomes of its work and the final report in due time for the first IPCC Session in 2020, presumably the 52nd Session.

Mr Brun informed the Panel that following the discussions during the three meetings of the Task Group which were held at the 49th Session of the IPCC, some of the earlier options were refined and a new alternative was identified. Consequently, there are two alternatives which will likely be presented to the Panel for a decision at the 52nd Session of the IPCC. The first alternative contains the further development of the options and has seven options. Some of the options have direct implications for the timing of elections of the next IPCC Bureau. The second alternative entails launching a review in 2020 which could provide more information for both the IPCC and UNFCCC GST before a decision is taken. The group developed a somewhat elaborate criteria to use when considering the pros and cons associated with each of the viable options identified as part of the first alternative. In July 2019, Governments and IPCC Observer Organizations were invited to provide comments and suggestions on the pros and cons of both alternatives and their options. The criteria for identifying the pros and cons and some guidance information were provided. In response to questions received from one member government, additional guidance was provided in a clarification note which was sent to all governments and IPCC Observer Organizations. He encouraged governments and IPCC Observer Organizations to provide their responses by the deadline of 31 August 2019, using a spreadsheet which is downloadable through the link provided in Annex 2 to the invitation, highlighting that their inputs would be very critical in informing the final report which would be presented to the Panel at the 52nd Session of the IPCC. Delegates who had questions regarding the invitation to submit suggestions were advised to consult the Task Group Co-chairs and Rapporteur during the 50th Session of the IPCC.

Mr Brun announced a meeting for all Task Group members which was held during the course of the 50th Session of the IPCC. The Task Group meeting would discuss details contained in the July invitation to governments and IPCC Observer Organizations, and the alternatives and options. All delegates were invited to participate in the Task Group face-to-face meeting.

The Panel took note of the TG-FWLGST progress report.

5. SIXTH ASSESSMENT REPORT SYNTHESIS REPORT

In introducing the item, the Chair of the IPCC reflected on the philosophy of the Sixth Assessment Report (AR6) Synthesis Report (SYR) noting that the world has experienced unprecedented globalization during the past three decades. It is, however, to be expected

that the AR6 SYR in 2022 will be released in a changed global setting and that the SYR should be able to address the change in circumstances.

The Deputy Secretary of the IPCC, Ms Kerstin Stendahl then provided an update on the preparations for the AR6 SYR Scoping meeting to be held in Singapore on 21-23 October 2019 at the Resorts World Convention Centre. She said that the preparations for the scoping meeting are progressing well. A scientific steering committee of the Synthesis report scoping meeting was established during the 56th Session of the Bureau in Geneva in March 2019. The members of the Scientific Steering Committee are the IPCC vice-chairs, the co-chairs of the working groups and the TFI as well as two vice chairs per working group.

The Scientific Steering Committee has held four meetings to date. The IPCC Secretariat, with the Deputy Secretary as the coordinator, is facilitating the process until such time that the Technical Support Unit of the SYR has been established.

The Secretariat sent the invitation to nominate experts for the scoping meeting on 30 April 2019 with a reminder sent out on 10 May 2019. By the deadline of 2 June a total of 546 nominations 259 from developing and EIT (47.4%) and 175 women (32%). The Chair has been consulting with the Working Group Co-Chairs in order to make sure that the criteria for selection as outlines in the Principles governing IPCC work Appendix are met and the selection will be finalized soon after which the Secretariat will send out the invitation letters to the selected participants. The Chair will report to the Panel on the SYR Scoping meeting selection process including a description of how the selection criteria for participation and any other considerations have been applied, and including a list of participants, at its 52nd session. The Scientific Steering Committee for the Scoping meeting will discuss the programme for the scoping meeting in further detail at its next meeting in Monaco on 19 September 2019. The Chair will also be seeking input and contributions from SSC members on the vision paper. She extended thanks to all those governments and observer organizations as well as IPCC authors that have responded to the surveys on scope and content of the AR6 SYR. The responses provide crucial input for further work.

In the ensuing discussions delegates from the United Kingdom, Norway, Germany, the United States, Saudi Arabia, and France took the floor noting the importance of the SYR, the value of cross-working group collaboration and integration as well as requesting more detailed information on timelines and organization and placing full trust and confidence in the Chair to lead this important process.

6. ANY OTHER BUSINESS

6.1. Collaboration between the IPCC and IPBES

The Deputy Secretary of the IPCC provided an update on the collaboration between the Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES) and IPCC. She explained that the IPBES Plenary at its seventh session approved the preparation of a technical paper on biodiversity and climate change, based on the material referenced or contained in the assessment reports of IPBES and, on an exceptional basis, the assessment reports of IPCC. The technical paper should be completed in time for the fifteenth session of the Conference of the Parties to the Convention on Biological Diversity and the twenty-sixth session of the United Nations Framework Convention on Climate Change.

She noted that the IPBES Plenary, being aware of the current workload of the IPCC had requested the Secretary of IPBES to explore with the Secretariat of IPCC possible joint activities on biodiversity and climate change, including the possibility of jointly preparing the

technical paper mentioned above and further options for potential joint activities and deliverables related to biodiversity and ecosystem services and climate change, and to report back to the Plenary at its eighth session.

She recalled that some governments had raised this issue during the 49th Session of the IPCC and the Secretariat as well as Working Group II Co-Chair then highlighted past and ongoing joint activities.

She concluded by noting that while there is much interest and scope to increase collaboration between IPBES and IPCC, in line with governments' IPBES decision, the timeline of the work makes it extremely challenging for the IPCC.

In the ensuing discussions the following delegations spoke: Switzerland, Norway, Germany, the United States and Saudi Arabia spoke. Also Hans-Otto Pörtner, WGII Co-chair as well as Climate Action Network took the floor. While many underscored the importance of collaboration between the IPCC and IPBES at the organizational level, one country also noted that coordination at the national level should form the basis. Two governments stated that they would be able to provide funding for activities should the IPCC decide to take part in this collaboration. Several countries supported the organization of a joint expert workshop in place of a technical paper.

The Chair concluded by referring the matter for further preparation by the IPCC Secretariat in consultation with the IPBES Secretariat and for discussion at the next IPCC Bureau session in Singapore.

The Panel took note of the information.

6.2. Footnote of the Methodology Report, 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories”

Following the request of a number of countries to further discuss the topic of footnotes under this agenda item, such as mentioning countries by name and seeking in general more clarity and specification for reflecting differing views on matters of a scientific, technical or socio-economic nature during approval Sessions, Sophie Schlingemann, Legal Officer of the IPCC Secretariat, informed the Panel that in accordance with the Principles Governing IPCC Work, the IPCC is expected to start the review of its principles and procedures at the 52nd Session of the IPCC in 2020. It would therefore be possible to consider reviewing Principle 10 (b) during the 52nd Session of the IPCC.

The Panel took note of this approach.

3. PLACE AND DATE OF THE 51ST SESSION OF THE IPCC

The Secretary informed the Plenary that the 51st Session of the IPCC would be held in the Principality of Monaco, from 20 to 23 September 2019.

4. CLOSING OF THE SESSION

The Chair of the IPCC thanked the Government of Switzerland as well as the World Meteorological Organization for hosting a successful 50th Session of the IPCC. He thanked government representatives of member countries, Bureau members, representatives of Observer Organizations, Authors, Working Group Technical Support Units, the Secretariat and the interpreters for a successful meeting and gavelled the meeting to a close at 3.06 p.m. on Wednesday 7 August 2019.

50TH SESSION OF THE IPCC
Geneva, Switzerland, 2 to 6 August 2019

Decisions adopted by the Panel

Decision IPCC-L-1. Adoption of the provisional agenda

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

The Intergovernmental Panel on Climate Change at its 50th Session adopts the provisional agenda with the addition of Agenda Item 5 on the Sixth Assessment Report Synthesis Report as contained in document IPCC-L/Doc.1,Rev. 1.

Decision IPCC-L-2. Approval of the draft report of the 49th Session

Document: IPCC-L/Doc.2, Rev.1

The Intergovernmental Panel on Climate Change at its 50th Session approves the report of the 49th Session of the IPCC.

Decision IPCC-L-3. Acceptance of the actions taken at the Second Joint Session of Working Groups I, II and III in cooperation with the Task Force on National Greenhouse Gas Inventories

Documents: IPCC-L/Doc. 3 and IPCC-L/Doc. 4

The Intergovernmental Panel on Climate Change at its 50th Session accepts the actions taken at the Second Joint Session of Working Groups I, II and III in cooperation with the Task Force on National Greenhouse Gas Inventories, related to the approval of the Summary for Policymakers of the IPCC Special Report on Climate Change and Land - *An IPCC Special Report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems* - and the acceptance of the underlying scientific-technical assessment in accordance with Section 4.4 of Appendix A to the Principles Governing IPCC Work.

Statement of France

La France tient tout d'abord à remercier chaleureusement le gouvernement de la Suisse et l'Organisation Météorologique Mondiale pour l'accueil de cette 50^e session Plénière du GIEC dans de si bonnes conditions.

Lors de la 49^e plénière du GIEC à Kyoto, le Raffinement 2019 du guide méthodologique du GIEC sur les inventaires nationaux a été accepté et adopté.

Cependant, la France souhaite soulever un point de procédure.

Le Principe 10 des procédures de travail du GIEC avait été appliqué avec l'ajout de deux notes de bas de page : ce sont les notes 5 (p.48) et 8 (p.64) du Chapitre 4 du Volume 2 de la version avancée. Mais le contenu exact de ces deux notes n'avait pas été présenté à l'écran lors de la session.

Nous voulons exprimer notre profond désaccord avec le contenu de ces 2 notes, qui n'a pas été agréé tel quel par les Etats.

First of all, France would like to warmly thank the Government of Switzerland and the World Meteorological Organization for hosting this 50th Plenary Session of the IPCC in such good conditions.

At the 49th IPCC Plenary in Kyoto, the 2019 Refinement to the IPCC Guidelines on National Greenhouse Gas Inventories was accepted and adopted.

However, France wishes to raise a procedural point.

Principle 10 of the Principles Governing IPCC work had been applied with the addition of two footnotes: these are footnote 5 (p. 48) and 8 (p. 64) of Chapter 4 of Volume 2 of the advanced version. But the exact content of these two notes had not been presented on the screen during the session.

We wish to express our profound disagreement with the content of these 2 notes, which has not been approved by the governments.

Statement of the Russian Federation on the use of burning embers diagrams in the SPM SRCCL

The use of burning embers diagrams (BEs) in the SPM SRCCL is problematic. This technique is intended mainly for the outreach, and still is not part of the approved IPCC scientific tools, like, say, the uncertainty treatment methods. There is no official IPCC guidance document describing step-by-step procedure for the construction of burning embers diagrams from data containing in scientific publications. Those diagrams presented in the SPM SRCCL draft are impressive, but many questions remains unanswered with regard to the interpretation, for example:

- What do they reflect – probability of hazardous event, an impact emerging in the case of occurrence, both metrics?
- How is data aggregation accomplished (in space, in time, over groups of affected systems or sectors)?
- How is the transfer from certain temperature tipping points to continuous image made (or it is just painting)?
- Why displayed risks depend on temperature only? There are many other important climate parameters. May be some climate change scenarios are implied?

These points still are not clear. The presentation made by WGII Vice-chair Mark Howden on the margins of this session was very useful, but not fully clarified the above points. Thus, the process of construction of the burning embers is not yet traceable, not repeatable. A reader cannot produce the same diagrams even having all underlying data. That is not in line with one of the major IPCC principle, namely, TRANSPARENCY.

The Russian Federation would prefer:

- to refrain from the use of BEs in the SPM SRCCL;
- to use them in the main text and Technical summary as appropriate;
- to initiate urgently the development of the IPCC guidance paper on BEs methodologies (we know that informally this work is already launched by WG2) to be applied in the main AR6.

The first two suggestions have been proposed in the comments of the Russian Federation on the FGD SPM SRCCL.

In the spirit of cooperation, the Russian Federation does not put forward the above suggestions as a pre-condition for our support of the report. However, the Russian delegation officially requests the IPCC Secretariat to include this statement in the P-50 session report.

Statement of the United States of America on the IPCC Special Report on Climate Change and Land at the Fiftieth Session of the IPCC

With respect to acceptance of the Special Report, as provided in the IPCC's procedures, the contents of the authored chapters have not been subject to line-by-line discussion and agreement, and remain the responsibility of the authors. In this context, the United States notes that acceptance of this report by the Panel does not imply endorsement by the United States of the specific findings or underlying contents of the report.

With respect to approval of the Summary for Policymakers (SPM), we underscore that, as provided in IPCC procedures, approval signifies that the SPM is consistent with the factual material contained in the full report.

Given that the underlying contents of the report are not subject to agreement by members of the Panel, approval of the SPM similarly should not be understood as U.S. endorsement of all of the findings and key messages included in the SPM.

The United States expresses its deep appreciation to the authors for preparing this Special Report.

INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

**50^H SESSION OF THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE
Geneva, Switzerland, 2 to 6 August 2019**

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