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Kyoto, Japan, 8 - 12 May 2019

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DRAFT REPORT OF THE FORTY-EIGHTH SESSION OF THE IPCC

Incheon, Republic of Korea, 1 – 5 October 2018

(Submitted by the Secretary of the IPCC)

IPCC Secretariat

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DRAFT REPORT OF THE FORTY-EIGHTH SESSION OF THE IPCC

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1. OPENING OF THE SESSION

The Secretary of the IPCC, Mr Abdalah Mokssit, called the 48th Session of the Intergovernmental Panel on Climate Change (IPCC-48) to order on Monday 1 October 2018 at 10 a.m. at the Songdo Convensia, Incheon, Republic of Korea.

In his opening speech, Mr Hoesung Lee, Chair of the IPCC, welcomed participants to his home country and expressed his gratitude to the government of the Republic of Korea and the authorities of the City of Incheon for hosting one of the most important meetings in the IPCC's history. He recalled that as part of the decision adopting the Paris Agreement, governments invited the IPCC to prepare a report assessing the impacts of warming of 1.5 degrees and related emissions pathways and that the IPCC at its 43rd session had decided to prepare the report as part of the work programme for the Sixth Assessment Cycle, in the context of strengthening the global response to the threat of climate change, sustainable development and efforts to eradicate poverty.

He noted the immense ambition and scale of work and thanked all involved; the Co-Chairs of the Working Groups, the Contributing Authors, Authors and Review Editors, and the Technical Support Units, as well as the National Focal Points, for accomplishing this Herculean task. The Special Report has been prepared under the joint scientific leadership of all three IPCC Working Groups and that is why the line-by-line consideration of the Summary for Policymakers will be conducted by the First Joint Session of Working Groups I, II and III.

He noted the constructive and collaborative spirit that had prevailed to produce a strong, robust and clear Summary for Policymakers while upholding the scientific integrity of the IPCC.

He informed that the financial position of the IPCC continues to improve and thanked the governments who had contributed for their generous and continuing support. He expressed his gratitude for the in-kind contributions of the countries that hosted the scoping meeting and the four lead author meetings for the Special Report on Global Warming of 1.5°C, mentioning Switzerland, Brazil, the United Kingdom, Sweden, and Botswana.

He also thanked the WMO and UN Environment, and the UNFCCC for their support and wished everyone a successful and collegial meeting.

He then asked participants' attention for a video message from His Excellency Moon Jae-in, President of the Republic of Korea.

Mr Moon Jae-in, President of the Republic of Korea extended his heartfelt congratulations to participants on the 48th Session of IPCC. He recognized that extreme weather is now normal and threatening us all, moreover, it disproportionately affects developing countries and the underprivileged. He said that this is a pressing issue that we must address for the sake of environmental justice and democracy, which requires global commitment and action. He noted that Korea plans to increase share of renewables to around 20%. He emphasized that Korea will also implement its commitment to the international community, including emissions reductions and energy transition. In addition Korea will strengthen its international cooperation, and in particular its support for developing countries in their response to climate change. He expressed the hope that the meeting will be a resounding success and remembered as a pleasant and rewarding experience for all of the participants.

Ms Elena Manaenkova, Deputy Secretary-General of the World Meteorological Organization (WMO), on behalf of the Secretary General of WMO expressed gratitude to the government of the Republic of Korea for the generous arrangements. She also introduced Mr Pavel Kabat, the new chief scientist of WMO. She reiterated the decision of the previous Executive Committee of WMO with respect to the IPCC and the fact that WMO member states have been encouraged to maintain and increase their financial support to the IPCC as well as participate actively and build capacity for IPCC activities. She noted that the Secretary General of the United Nations, Mr Antonio Guterres, has placed great importance to the work of the IPCC and the need to listen to the world's best scientists. Greater ambition is needed and it is getting urgent. Targets are far from being met, as the world is experiencing record heat temperatures, with 2018 being the warmest on record. She concluded by thanking the Co-Chairs of the three Working Groups, the thousands of experts, and the international research teams that have worked to produce the 1.5 report.

Mr Jian Liu, Acting Director, Chief Scientist, United Nations Environment Programme (UN Environment) thanked the government of the Republic of Korea for the generous hosting of the 48th Session of IPCC and its Joint Working Group Session and paid tribute to its long-standing leadership role in the global efforts to address climate change. He said that the UN Environment Programme has been proud to escort the IPCC on its journey and will continue to do so. He noted other means of programme support, such as the annual Emissions Gap Report and Adaptation Gap Report and the World Adaptation Science Program, a partnership with IPCC, WMO and UNFCCC, with one of the key targets to support the Working Group II assessment on vulnerability, impact and adaptation. He noted that in addition to climate change, there are two other burning issues, pollution and biodiversity loss. Climate warming and air pollution are twins, with multi-faceted interlinkages. Biodiversity is decreasing at an alarming rate with more than 10000 species disappearing each year. But biodiversity could help both mitigate and adapt to climate change.

Mr Youssef Nassef, Director of Adaptation programme, United Nations Framework Convention on Climate Change (UNFCCC) thanked the IPCC and the government of the Republic of Korea. He said that in the era of implementation of the Paris Agreement, there has never been a more urgent need for science to inform climate action and that with the Special Report on Global Warming of 1.5 degrees Celsius, the IPCC has responded to this need. For the UNFCCC process, this is a particularly *special*, Special Report, given its seminal importance to the evolution of ambition in the climate change negotiations. He noted that the report is eagerly awaited and will feed into the Talanoa Dialogue, and its scientific findings will be disseminated through the SBSTA-IPCC Special Event at COP 24 in Katowice.

He said that the collaboration between the IPCC and UNFCCC is of great value and effective. IPCC has consistently worked to fulfill the scientific needs of the UNFCCC and that continued collaboration is of essence.

H.E. Ms Kim Eunkyung, Minister of Environment of the Republic of Korea welcomed participants and thanked the Chair of the IPCC, the dignitaries and the IPCC Secretariat, Korea Meteorological Administration and Incheon Metropolitan City. She said that since its inception in 1988, the IPCC has made a remarkable contribution to the international community by proving climate change is an undeniable fact. There is no doubt, therefore, the Special Report on Global Warming of 1.5 degrees Celsius will be a stepping stone for us to achieve the long-term goal of the Paris Agreement.

She informed that the Korean government recognizes the urgency to address climate change and is faithfully fulfilling the Paris Agreement to set itself onto a sustainable, low-carbon path. The current energy intensive industry structure is being transformed into a highly energy efficient one that emits less carbon. The Emissions Trading Scheme in Korea allows companies to actively engage in climate action and provides economic incentives for businesses to achieve their reduction targets, stimulating technological innovations for emission reduction. The Korean government is keen to take preemptive adaptation measures

to protect vulnerable populations affected by climate change. Korea also remains committed to supporting developing countries in their climate change response. Korea has founded the Global Green Growth Institute and hosts the Green Climate Fund, showing its dedication to the global support for developing countries' sustainable development and climate action. She concluded by expressing the hope that the IPCC and the special report will serve as a strong platform on which the implementation framework could start to be built for the upcoming COP24.

Mr Kim Jong-seok, Administrator of Korea Meteorological Administration in welcoming all to the meeting, noted that this was the second time for Korea to host an IPCC Session after Busan, in 2010. He said that Korea is severely affected by climate change, having recorded the hottest summer since records began in 1973. For the first time in Korean history, the highest temperature in the day exceeded 40 degrees Celsius in some regions. In response to climate change, a close collaboration between government and private sectors is critical, and among others international cooperation is all the more required. He said that as a focal point of the IPCC, the Korea Meteorological Administration has continued to contribute to the IPCC assessment process and as chairing country of the IPCC, will spare no effort to assist in the work.

Mr Park Nam-chun, Mayor of Incheon Metropolitan City wished participants welcome and thanked the dignitaries and participants for making the event a success. He recognized that extreme weather events caused by climate change are already inflicting pain and damage on citizens. He called for disaster preparedness measures to be put in place, as well as fundamental counter-measures to climate change. He emphasized Incheon's strong commitment to being a global hub addressing climate change issues, inviting many international organizations, including the GCF, and supporting their activities.

The Chair of the IPCC introduced the provisional agenda as contained in document [IPCC XLVIII/Doc.1](#). The United Kingdom requested that an update on the current state of the trust fund be provided under agenda item 3, Ad hoc Task Group on Financial Stability, and that a verbal update on the nominations for Task Group on Data Support for Climate Change Assessments (TG Data) be provided under Any Other Business.

With these additions the agenda was adopted.

The 48th Session of IPCC (IPCC-48) was then suspended until Friday 5 October 2018 and the gavel passed on to the Co-Chairs of Working Groups I, II and III for the commencement of the First Joint Session of Working Groups I, II and III.

2. APPROVAL OF THE DRAFT REPORT OF THE 47TH SESSION OF THE IPCC

The draft report of the 47th Session of the IPCC as contained in document [IPCC-XLVIII/Doc.2](#), was presented and approved without changes.

3. AD HOC TASK GROUP ON FINANCIAL STABILITY

The Chair of the IPCC opened the Agenda Item 3, document [IPCC-XLVIII/Doc. 3](#) on the Ad Hoc Task Group on Financial Stability of IPCC (ATG-Finance) and asked the Co-Chairs of the Task Group to introduce the item.

Ms Thelma Krug, IPCC Vice Chair and Co-Chair of the ATG-Finance introduced the item and provided an overview of the tasks the Co-Chairs had undertaken on behalf of the group since the 47th Session of IPCC (IPCC-47). In April 2018 a questionnaire was sent out to IPCC member governments to solicit views on opportunities for and barriers to voluntary contributions. Twelve responses (from seven developed countries, three countries with economies in transitions (EITs) and three developing countries) were received. The

respondents recognized (a) the value of the IPCC, (b) the importance of outreach and communication activities in increasing awareness and political visibility and (c) the policy relevance of IPCC work. The barriers to funding were listed as budgetary constraints on the part of some member governments and constraints to commit to multi-year contributions. Keen interest was expressed by some member governments to support the IPCC through in-kind contributions.

Mr Youba Sokona, IPCC Vice-Chair and Co-Chair of ATG-Finance provided an overview of the current financial situation of the IPCC Trust Fund which showed:

- Opening balance 1st January 5.310.000 CHF
- Total contributions by 25th September 4.431.878 CHF
- Pledges (as at 30th of September, still to come) 5.453.805 CHF
- Approved Budget 7.861.868 CHF
- Total expenditures (as at 19th of September) 4.569.555 CHF
- Projected expenditure (as at 31st of December) 5.700 000 CHF

He also highlighted the list of member governments and organizations that had provided in-kind contributions to the IPCC. He presented two recommendations for the financial stability of the IPCC to the Panel for its consideration and approval; (a) to establish an e-Forum to stimulate more responses from member governments and (b) to commission a study by an external expert on finance to explore in more depth.

Bangladesh, Belgium, Ecuador, Germany, Ghana, Japan, Republic of Korea, Mali, Sweden, Singapore, Sri Lanka, Switzerland and Tanzania took the floor. They thanked the Co-Chairs for their report. Most of the delegations that took the floor supported the recommendation to hire a consultant to do a study on the financial options but felt that it would be necessary to see a Terms of Reference and the costs associated with the proposed consultancy before proceeding. One delegation proposed that instead of hiring a consultant that member governments consider providing staff on secondment to the IPCC Secretariat as is the practice at The Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES). Another delegation suggested that the study should emphasize which funding options are important.

Japan indicated that it had increased its 2018 contribution by 50%. It added that it currently supports, and will continue to support the Technical Support Unit of the Task Force on National Greenhouse Gas Inventories (TFI TSU) through in-kind contributions. It further added that it will host a plenary session in the future. Bangladesh, Ghana and Sri Lanka expressed their intention to make a contribution to the IPCC in the future. The Republic of Korea indicated that it had been contributing to the IPCC Trust Fund since 2006 and has been making annual contributions of CHF 120,000 since 2009 and has committed to make this annual contribution until 2020. It pledged to make an additional contribution of KRW 500 million (approx. CHF 445,000) annually to support the operation of the Sixth Assessment Report (AR6) Synthesis Report Technical Support Unit for five years, starting in 2019. Singapore pledged to make a contribution towards the AR6 over the next four years (2018-2021). It requested that moving forward, the IPCC pay greater attention to the impacts of climate change to the South Eastern region of Asia and those affecting urbanized island states. Tanzania requested to be recognized as a developing country contributing for the first time as a means to motivating others to make a contribution. Belgium confirmed that it will make a contribution in 2018.

Two delegations supported the creation of an electronic forum especially since both of them had not received the letters sent out by the Co-Chairs of the ATG-Finance group.

One delegation requested updates regarding the Co-Chairs' consultations with the Global Environment Facility (GEF) and the Green Climate Fund (GCF).

Another delegation thanked the Secretariat, under the leadership of the Secretary of the IPCC, for the excellent work done in handling the budget. It recognized that the IPCC, in its 30 years of existence, had managed its finances well and went on to reiterate its invitation to member governments to make a contribution using the UN's indicative scale as a guide. This proposal was not supported by one delegation.

Another delegation requested clarification on the financial situation as it was felt that there was still a funding gap to be covered. Mr Abdalah Mokssit, Secretary of the IPCC, responded by explaining that in view of the actual contributions received, pledges, the opening balance and the projected total expenditures, there was no gap and that the financial situation was positive rather than critical.

The Chair thanked the Panel for a very rich and informed discussion and requested the Secretariat to (a) establish the e-Forum for the ATG-Finance group and (b) develop the Terms of Reference for the consultant in addition to the associated costs to be presented at the 49th Session of IPCC (IPCC-49).

4. PROGRESS REPORTS

4.1. International Conference on Climate Change and Cities

Ms Debra Roberts, Working Group II Co-Chair introduced document [IPCC-XLVII/INF. 1, Rev.1](#). She recalled previous IPCC decisions related to the issue of cities which were taken at the 43rd Session of the IPCC (i.e. Decision IPCC/XLIII-6). One of the decisions was to organize an international scientific conference on climate change and cities to stimulate the production of the literature which will be assessed during the preparation of the Special Report on Cities to which will be prepared during the seventh assessment cycle.

The conference which was held in Edmonton, Canada on 5-7 March 2018 was attended by more than 700 participants from 64 countries. It brought together a multidimensional group of representatives from the policy practice and scientific community who reviewed the state of knowledge about cities and climate change science and identified research gaps which were used to construct an international research agenda to stir the development of further literature to underpin the Special Report on Climate Change and Cities. In response to the call which was launched by the Scientific Steering Committee, more than 1000 proposals were received. The selected proposals were organized into seven plenary sessions, fifty-five parallel sessions and seventy-six posters.

The primary outcome of the conference was the global research and action agenda on cities and climate change science, which is presented in Annex A of document [IPCC-XLVII/INF. 1, Rev.1](#). The research agenda is already being used by the policy and practice communities to stimulate engagements with science.

Ms Roberts summarized the recommendations to the IPCC which are presented on Page 7 of [IPCC-XLVII/INF. 1, Rev.1](#). She concluded by conveying the gratitude expressed by all the nine partner organizations to the IPCC for its leading role in bringing all the actors together.

One country observed that although the conference was independent and co-sponsored by the IPCC, it was perceived as an IPCC meeting. They recommended more transparency on the nature of future similar events to ensure that the public understands the role of the IPCC.

The Panel took note of the report.

4.2. Expert Meeting on Assessing Climate Information for Regions

Ms Valérie Masson-Delmotte, Co-Chair of Working Group I introduced document [IPCC-XLVIII/INF. 5](#). The Expert meeting was hosted by the International Center for Theoretical Physics (ICTP) in Trieste, Italy from 16 to 18 May 2018. Ms Masson-Delmotte thanked the ICTP for hosting the meeting, the Scientific Steering Committee, and Members of the Working Group I and Working Group II IPCC Bureau for providing scientific guidance and their Technical Support Units for contributing to the success of the meeting.

The meeting was attended by 115 experts from 43 countries. The participants included 10 IPCC Bureau Members, 5 invited experts from the international research community, and 72, 24 and 4 experts representing the Working Group I (WGI), Working Group II (WGII) and Working Group III (WGIII) AR6 author teams, respectively.

The overall goals of the meeting were to explore the need of regional information for the risk assessment framework, to identify existing knowledge gaps in developing regional information and to provide input into AR6 early in the process, and to provide a platform for the interaction of the Sixth Assessment Report (AR6) authors across all three IPCC Working Groups (WGs) to facilitate cross-WG collaboration.

The major outcome of the Expert Meeting was the scope of the AR6 WGI Regional Atlas. Ms Masson-Delmotte presented the rationale and contents of the scope of the Regional Atlas, the latter which is presented on page 3 of [IPCC-XLVIII/INF. 5](#). As a follow up to the meeting, a group to coordinate WGI and WGII collaboration on hazard and risk led by Ms Carolina Vera, WGI Vice-Chair and comprising of AR6 Coordinating Lead Authors (CLAs) from relevant chapters across the two WGs has been established.

The Panel took note of the report.

4.3. Expert Meeting on Short-Lived Climate Forcers

Mr Kiyoto Tanabe, Co-Chair of the Task Force on National Greenhouse Gas Inventories (TFI) introduced document [IPCC-XLVIII/INF. 4](#). The Expert Meeting on Short-lived Climate Forcers (SLCF), which was jointly organized by WGI and the TFI was hosted by the World Meteorological Organization in Geneva, Switzerland from 28 to 31 May 2018. The aim of the meeting was to discuss issues related to the estimation of emissions and climate effects of SLCF.

The meeting was attended by 80 participants who included scientists from the WGI community and inventory experts from the TFI community, who were selected from nominations solicited from IPCC National Focal Points and IPCC Observer Organizations, IPCC Bureau Members and the Task Force Bureau (TFB). The outcome of the meeting is expected to contribute to the work undertaken in WGI AR6, particularly Chapter 6 and to some extent Chapter 7.

The meeting concluded that high quality SLCF emission inventories and methodologies are necessary to enhance the scientific understanding of their role in climate change as well as to inform national and international climate policies, particularly through the UNFCCC. Internationally agreed and globally applicable methodologies and emission factors for SLCF emission inventories are important and necessary. The meeting recommended that the work of such inventories should commence based on existing methodologies such as those in the European Monitoring and Evaluation Programme/European Environment Agency (EMEP/EEA) Emission Inventory Guidebook for Air Pollutants (EMEP/EEA Guidebook), recognizing that further discussion is needed on the timing, nature, format, and sequencing of such work. The IPCC can play an important role in this work because of the unique position it occupies, and therefore it is considered to be the right organization to fill gaps in existing methodologies and to develop and disseminate an internationally-agreed, globally applicable methodological guidance based on existing methodologies. This could be achieved in close cooperation and

collaboration with other relevant international bodies such as EMEP/EEA, Climate & Clean Air Coalition (CCAC), Arctic Council, the International Civil Aviation Organization (ICAO) and the International Maritime Organization (IMO).

Mr Tanabe summarized the proposed future work of the TFI to commence soon after the adoption of the 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories at the 49th Session of the IPCC in May 2019, which is presented on page 3 of document [IPCC-XLVIII/INF. 4](#).

Mr Tanabe thanked all those who contributed to the success of the meeting, particularly the Governments of Norway and Switzerland for providing funding for the meeting and the World Meteorological Organization for hosting the meeting.

During the ensuing discussion, Chile, Finland, Japan, Mexico, Norway, Sweden and Switzerland made interventions. Delegates supported the recommendations from the Expert Meeting and suggested that the discussion of the proposals and next steps presented by the TFI Co-Chair could commence at the 48th Session of IPCC cognizant of the time limits or the 49th Session of the IPCC at the latest. The TFI was requested to develop a thorough document with a full list of options for the implementation of recommendations from the meeting to be discussed at the 49th Session. It was further suggested that the development of methodologies and emission factors for SLCF emission factors could commence during the current sixth assessment cycle. One delegate cautioned that the TFI could be overworked if additional tasks are assigned to them before the completion of the 2019 Refinement work.

The Panel took note of report.

4.4. Task Force on National Greenhouse Gas Inventories

Mr Eduardo Calvo-Buendia, Co-Chair of the Task Force on National Greenhouse gas Inventories (TFI) introduced document [IPCC-XLVIII/INF. 3](#). He informed the Panel that the TFI is currently addressing comments received on the second-order draft of the 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories. The second-order draft was prepared following the Third Lead Author Meeting which was held in Cairns, Australia from 10 to 13 April 2018. Mr Calvo-Buendia thanked the government of Australia for hosting the Lead Author Meeting. The next meeting would be hosted by the Food and Agriculture Organization (FAO) in Rome, Italy towards the end of October 2018. The final government review of the Final Draft is scheduled for 28 January to 24 March 2019. The 2019 Refinement will be adopted and approved by the IPCC at the 49th Session of the IPCC.

The TFI is working on the development of Tier 2 Worksheets for Agriculture, Forestry and other Land Use (AFOLU) in the IPCC Inventory Software. The TFI is also working with stakeholders to maintain, improve and promote the Emission Factor Database (EFDB). More than 1000 new data from different sources have been added to the EFDB.

The Panel took note of the report.

5. ACCEPTANCE OF THE ACTIONS TAKEN AT THE FIRST JOINT SESSION OF WORKING GROUPS I, II AND III

[IPCC-XLVIII/Doc. 5](#) ; [IPCC-XLVIII/Doc. 6](#)

The IPCC Plenary formally accepted the actions taken at the first Joint Session of Working Groups I, II and III on the IPCC Special Report on Global Warming of 1.5°C. Delegations expressed their appreciation to the Working Group I, II and III Co-Chairs and Authors and to all the others who had made possible this important achievement.

Saudi Arabia noted that as a condition for their acceptance of the Summary for Policymakers (SPM) of the Special Report on Global Warming of 1.5°C, the delegation wished to express its substantial disagreement on the reference to the Nationally Determined Contributions (NDCs) in the Underlying Scientific-Technical Assessment, and SPM Report. The Statement by Saudi Arabia is appended in its entirety in Annex 2 to this report.

Belgium asked whether a final version of the SPM be disseminated. The Secretary recognized that the document is under preparation but that given the time constraints, he asked for delegations' indulgence to accept the document as it has been posted in the paper smart system. He noted that the TSUs are working hard to prepare the final version of this document.

The statement by United States of America is appended as part of Annex 2.

The statement by Egypt is appended as part of Annex 2.

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 introduced document [IPCC-XLVIII/INF. 2, Corr. 2](#). He informed the Panel that the Task Group membership stood at 57 members. Governments which were not listed as members of the Task Group but were interested to join, were requested to express their interest by email to ipcc-alignment@wmo.int. The Task Group drafted a work plan which was presented to the Panel for information and comments. Following consultation with Task Group members, the Co-Chairs suggested to the Panel to give the group the short name "TG-FWLGST" which is an acronym for the long name "Task Group on the organization of the future work of the IPCC in light of the global stocktake". Mr Brun reiterated the invitation to member governments and IPCC Observer Organizations in which they were formally invited through a letter sent by the Secretary of the IPCC to identify possible options for organizing and scheduling future work of the IPCC beginning from the seventh assessment cycle. The Task Group will analyze the submissions and report back to the Panel at the 49th Session of the IPCC, when the group will have its first face-to-face meeting.

The Panel took note of the report.

7. IMPLEMENTATION OF THE IPCC CONFLICT OF INTEREST (COI) POLICY

Ms Thelma Krug, IPCC Vice-Chair, gave a brief verbal report on the activities of the IPCC Conflict of Interest (COI) Committee on behalf of Mr Youba Sokona, Chair of the IPCC Committee. She informed the Panel that the 15th COI Committee meeting was held on 29 August 2018. At that meeting the COI Committee reviewed the annual reports of the three Working Group Bureaux and the Task Force Bureau (TFB) in relation to their consideration of conflict of interest issues in accordance with paragraph 11 of the Implementation Procedures of the IPCC COI Policy. The Working Groups and the TFB reported that no conflict of interest was identified.

The Panel took note of the report with appreciation.

8. IPCC SCHOLARSHIP PROGRAMME

Ms Ko Barrett, IPCC Vice-Chair and Chair of the IPCC Scholarship Programme Science Board introduced document [IPCC-XLVIII/Doc. 4, Rev. 1](#). She reminded the Panel that the Science Board was requested at the 47th Session of the IPCC to use the IPCC Scholarship Fund to supplement the ongoing support for PhD students by also funding travel and honoraria for developing country scientists to function as Chapter Scientists for the AR6 cycle.

Discussions regarding the use of the IPCC Scholarship Fund must be undertaken by the Board of Trustees for the Fund, which had not been in existence for a few years. Prerequisite to implementing the request to fund Chapter Scientists is the establishment of a new Board of Trustees.

Ms Barrett presented the names of four eminent individuals from different regions of the world who were identified by the Science Board and had already accepted to serve as Trustees if their appointment was approved by the IPCC. The nominees who were submitted for appointment are:

1. H.E. Mr Hironori Hamanaka, Special Research Advisor, Institute for Global Environmental Strategies (IGES);
2. Ms Fatima Denton, Director, United Nations University, Institute for Natural Resources in Africa (UNU-INRA), Ghana;
3. Mr Jose Goldemberg, FAPESF Sao Paulo Research Foundation, Brazil; and
4. H.E. Ms Mary Robinson, President of the Mary Robinson Foundation – Climate Justice.

Governments who made interventions during the ensuing discussion included Botswana, Denmark, Eswatini, Ghana, Mali, Tanzania and Zambia. Delegates supported the appointment of the new Board of Trustees. Furthermore, delegates strongly emphasized the need to sustain and enhance the IPCC Scholarship Programme and suggested that the new Board of Trustees in accordance with their Terms of Reference should focus on mobilizing more financial resources for the Scholarship Programme as a matter of priority. One delegate thanked the Chair of the IPCC and Prof. Jean-Pascal van Ypersele, former IPCC Vice-Chair, for the generous donations they made to the IPCC Scholarship Trust Fund. It was requested that a detailed report on the mobilized resources should be presented at the 49th Session of the IPCC. . It was pointed out that with Decision IPCC-XLVII-6 the Panel agreed that having developing country scientists function as Chapter Scientist for the AR6 assessment cycle is a good way to build the capacity of these scientists, engage them in the work of the IPCC, provide for participation in a peer network that can support their professional growth and advance their careers as respected scientists in their field. Furthermore it was noted that in this same decision, the Science Board was requested to consider using the IPCC Scholarship Programme to supplement the ongoing support for PhD students by also funding travel and honoraria for developing country scientists to function as Chapter Scientists for the AR6 cycle. Ms Barret noted that it will be the decision of the Science Board to support post-graduate or post-doctoral scholarships or Chapter Scientists in developing countries. One delegate suggested that the scholarship awards through the partner Prince Albert II of Monaco Foundation and the Cuomo Foundation should be sustained.

Ms Barrett assured the Panel that mobilizing resources for the Scholarship Programme will be one of the major responsibilities to be undertaken by the new Board of Trustees. She noted that owing to the fact that the Board has not existed for about four years, the funds from the IPCC Scholarship Trust Fund have not been used in providing scholarships to developing country students. Instead only funds which are generously provided by the partner organizations were used. The establishment of the Board would enable the IPCC to use the Scholarship Trust Fund to support the tasks which were previously approved by the Panel, primarily funding of PhD students.

Tanzania requested the Chair of the IPCC to approach agencies such as the Global Environment Facility (GEF) and Green Climate Fund (GCF) to solicit additional funds to enhance the Scholarship Programme. Ghana supported by Botswana objected to using the Scholarship Fund to support the participation of Chapter Scientists until a report on resources mobilized by the Board of Trustees is presented to the Panel at the 49th Session of the IPCC.

The Chair of the IPCC reiterated that the Science Board prioritized resource mobilization as the major task to be undertaken by the new Board of Trustees.

After the deliberations, the Panel adopted Decision IPCC-XLVIII-4.

9. ANY OTHER BUSINESS

The Secretary of the IPCC informed the Panel that in response to the invitation which was sent to governments and IPCC Observer Organizations to nominate experts to serve as members of the Task Group on Data Support for Climate Change Assessments (TG-Data), 81 nominations were received. Of these nominations, 17 were from the WMO Region I (Africa), 31 from Region II (Asia), 2 from Region III (South America), 6 from Region IV (North and Central America and the Caribbean), 6 from Region V (South-west Pacific), and 19 from Region VI (Europe). IPCC Bureau Members would receive the complete list of nominations and decide on the best way to proceed with the selection process, which should be concluded at the 56th Session of the IPCC Bureau.

The Panel took note of the report.

10. PLACE AND DATE FOR THE 49TH PLENARY SESSION OF THE IPCC

The Secretary informed the Plenary of the generous offer of the Government of Japan to host the 49th Session of the IPCC. The representative of the Government of Japan said that they are looking forward to welcoming the participants to IPCC-49 in Kyoto in May 2019. The Panel gratefully accepted the offer to hold the next Panel Session in Kyoto, Japan, in 2019.

11. CLOSING OF THE SESSION

Plenary heard closing statements from the representatives of the delegation from the Republic of Korea and Tanzania. The Secretary noted that an extra day was provided to participants from developing countries to take into account the possibility for a lengthier approval session than planned. The Secretary also thanked the government of the Republic of Korea.

The Chair of the IPCC thanked the Government of the Republic of Korea for hosting a successful 48th Session of the IPCC. He thanked government representatives of member countries, Bureau members, the Secretariat and the interpreters for a successful meeting and gavelled the meeting to a close at 17.15 pm on Saturday 6 October 2018.

48TH SESSION OF THE IPCC

1 – 5 October 2018, Incheon, Republic of Korea

Decisions adopted by the Panel**Decision IPCC-XLVIII-1. Adoption of the provisional agenda***Documents: IPCC-XLVIII/Doc.1. and IPCC-XLVIII/Doc.1. Add 1*

The Intergovernmental Panel on Climate Change at its 48th Session adopts the provisional agenda as contained in document IPCC-XLVIII/Doc.1.

Decision IPCC-XLVIII-2. Approval of the draft report of the 47th Session*Document: IPCC-XLVIII/Doc.2*

The Intergovernmental Panel on Climate Change at its 48th Session approves the report of the 47th Session of the IPCC.

Decision IPCC-XLVIII-3. Ad Hoc Task Group on Financial Stability*Document: IPCC-XLVIII/Doc. 3*

The Intergovernmental Panel on Climate Change at its 48th Session:

1. Expresses its gratitude for the work of the Co-Chairs and the members of the Ad Hoc Task Group on Financial Stability of the IPCC.
2. Expresses its gratitude to all member governments who have contributed to the Trust Fund of the IPCC, and notes with appreciation many first time contributors as well as increases in contributions.
3. Requests the IPCC Secretariat to present terms of reference for an external consultant on financial stability of the IPCC and the budgetary implications of such a function at the 49th Session of the IPCC.
4. Requests the IPCC Secretariat to explore possibilities with IPCC member governments for secondments of staff with financial expertise to work on matters pertaining to the financial stability of the IPCC.
5. Requests the Ad Hoc Task Group on Financial Stability to use the electronic forum of the task group more actively.

Decision IPCC-XLVIII-4. IPCC Scholarship Programme

Document: IPCC-XLVIII/Doc. 4, Rev. 1

The Intergovernmental Panel on Climate Change at its 48th Session:

1. Expresses its gratitude to the Science Board of the IPCC Scholarship Programme for identifying esteemed individuals to serve on the Board of Trustees of the IPCC Scholarship Programme.
2. Appoints the following members to serve on the Board of Trustees of the IPCC Scholarship Programme:
 - H.E. Mr Hironori Hamanaka, Special Research Advisor, Institute for Global Environmental Strategies (IGES);
 - Ms Fatima Denton, Director, United Nations University, Institute for Natural Resources in Africa (UNU-INRA), Ghana;
 - Mr Jose Goldemberg, FAPESF Sao Paulo Research Foundation, Brazil;
 - H.E. Ms Mary Robinson, President of the Mary Robinson Foundation – Climate Justice.

Decision IPCC-XLVIII-5. Acceptance of the actions taken at the First Joint Session of Working Groups I, II and III

Documents: IPCC-XLVIII/Doc. 5 and IPCC-XLVIII/Doc. 6

The Intergovernmental Panel on Climate Change at its 48th Session accepts the actions related to the approval of the Summary for Policymakers (SPM) line by line and the acceptance of the underlying scientific-technical assessment taken at the First Joint Session of Working Groups I, II and III in accordance with Section 4.4 of Appendix A to the Principles Governing IPCC Work.

**Statement by the Arab Republic of EGYPT
Closing plenary of the 48th session of the IPCC
Songdo 5th of October 2018**

Mr chair,

Let me at the outset thank you, the vice chairs and the secretariat for the tireless efforts to secure a successful meeting of the IPCC here in Songdo,

Also, Egypt would like to reiterate its appreciation to the lead authors, authors and everyone involved in the preparation of the special report on global warming of 1.5c;

Mr chair,

Egypt would like to put on record that it is in our understanding the pathways reflecting the national mitigation ambition under the Paris Agreement, or as referred to as NDCs, are potential pathways that are subject to the conditionalities, criteria and special circumstances identified in the respective communications, in particular those submitted from developing countries;

I would like to have this captured in the report of the meeting;

I thank you.

Statement by Saudi Arabia

The IPCC at its Forty-Eighth Session
Incheon, Republic of Korea, 1 – 5 October 2018

Saudi Arabia statement during the plenary on use of NDCs in the Underlying Scientific-Technical Assessment, and SPM Report on the special report on the global warming of 1.5°C.

As a condition for our acceptance of the IPCC SMP Report on the special report on the global warming of 1.5°C, my delegation wishes to express our substantial disagreement on the reference to the Nationally Determined Contributions (NDCs) in the Underlying Scientific-Technical Assessment, and SPM Report.

The IPCC is providing a scientific basis for governments at all levels. In accordance to the IPCC principles, IPCC products must be policy-relevant and policy neutral and not policy-prescriptive. NDCs and their guidance are currently being negotiated under the United Nations Framework Convention on Climate Change (UNFCCC). Based on this, the outline of this Special Report and its scoping were discussed during the deliberations of the Panel on these issues and the Panel agreed not to include NDCs in both instances because it would undermine our principles.

Therefore, addressing this matter and other issues that lie outside of the mandate in the underlying report is unprecedented and sends a wrong signal regarding the effective functioning of the IPCC.

Mr. Chairman, the mandate must be respected for this body to succeed and continue to keep its credibility and its members' ownership of these reports.

We therefore believe that any section that addresses these references and thus does not conform with the mandate should not be included, such as references in (list of sections attached), *which are annexed to this statement*.

Saudi Arabia requests that this statement be reflected in the report of this session under this agenda item and be appended as an annex in the report of the IPCC's 48th session.

List of Sections where NDCs referenced in Underlying Scientific-Technical Assessment

TS2: Mitigation pathways compatible with 1.5°C in the context of sustainable development

1.1.3 Sustainable development and a 1.5°C warmer world

1.2.3.3 Impacts at 1.5°C warming associated with different pathways: transience versus stabilization

Cross-Chapter Box 1: Scenarios and Pathways

Executive Summary (Line 28-29,41)

2.1.2 The Use of Scenarios

2.1.3 New scenario information since AR5

2.3.1.3 Policy assumptions in 1.5°C-consistent pathways

2.3.2.2 Pathways keeping warming below 1.5°C or temporarily overshooting it

2.3.3 Emissions evolution in 1.5°C pathways

2.3.5 Implications of near-term action in 1.5°C-consistent pathways

2.5.1 Policy frameworks and enabling conditions

2.5.2.1 Price of carbon emissions

2.5.2.2 Investments

3.3.4.1 Observed and attributed changes

Box 3.1: Sub-Saharan Africa: Changes in Temperature and Precipitation Extremes

4.3.5.7 Climate Services

4.3.7.1 Bioenergy with carbon capture and storage (BECCS)

4.4.1.2 International Governance

4.4.1.4 Interactions and Processes for Multi-Level Governance

Cross-Chapter Box 11: Consistency Between Nationally Determined Contributions and 1.5°C Scenarios

4.4.2.2 Monitoring, Reporting, and Review Institutions

4.4.5.1 The Core Challenge: Cost Efficiency, Coordination of Expectations and Distributive Effects

Box 4.1: Investment Needs and the Financial Challenge of Limiting Warming to 1.5°C

4.4.5.6 Towards Integrated Policy Packages and Innovative Forms of Financial Cooperation

4.5.3 Implementing Adaptation

4.6 Knowledge Gaps and Key Uncertainties

Box 5.2: Challenges and Opportunities of Low-Carbon Pathways in Gulf Cooperative Council (GCC) Countries

5.5.3.2 Development Trajectories, Sharing of Efforts, and Cooperation

5.5.3.3 Country and Community Strategies and Experiences

Cross-Chapter Box 13: Cities and Urban Transformation

Glossary

Statement of the United States of America on the IPCC Special Report on Global Warming of 1.5C at the Forty Eighth Session of the Intergovernmental Panel on Climate Change

October 6, 2018

The United States appreciates the hard work of the scientists and experts who authored the IPCC Special Report on Global Warming of 1.5C under considerable time pressure, and we appreciated our engagement with other members of the Panel to finalize this Special Report, by accepting the report from its authors and approving its Summary for Policy Makers.

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 Policy Makers (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.

With respect to the report as a whole, several sections of the report acknowledge that literature that relates specifically to impacts at 1.5C is more limited than many other aspects of the climate issue, and that much of the literature assessed is quite recent. We observe that there are a number of inherent limitations in the confidence of modeled results of impacts, costs, and related issues at specific future temperature levels, and more so at the particular levels addressed by this report.

We note that parts of the underlying report were substantially revised following the second order draft, including in a number of cases with new literature made available only after the circulation of that draft, and that these revisions were not subject to full government and expert review.

Finally, in light of references to the Paris Agreement in the Summary for Policy Makers, we reiterate that the United States intends to withdraw from the Paris Agreement at the earliest opportunity absent the identification of terms that are better for the American people.

INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

48TH SESSION OF THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE
Incheon, Republic of Korea, 1 – 5 October 2018

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