

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

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ENGLISH ONLY

**DRAFT REPORT OF THE FIFTIETH SESSION OF THE IPCC**

**Geneva, Switzerland, 2 to 6 August 2019**

(Submitted by the Secretary of the IPCC)

**IPCC Secretariat**

c/o WMO • 7bis, Avenue de la Paix • C.P. 2300 • 1211 Geneva 2 • Switzerland  
telephone : +41 (0) 22 730 8208 / 54 / 84 • fax : +41 (0) 22 730 8025 / 13 • email : IPCC-Sec@wmo.int • [www.ipcc.ch](http://www.ipcc.ch)



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**1. OPENING OF THE SESSION**

Mr Hoesung Lee, Chair of the Intergovernmental Panel on Climate Change (IPCC), called the 50<sup>th</sup> 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.

Ms 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.

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

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.

Mr 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 25<sup>th</sup> 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.

Mr 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 Chardonens 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 IPBES, to be discussed under AOB. There was also a request 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 49<sup>th</sup> 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 50<sup>th</sup> 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 2<sup>nd</sup> Joint Session of Working Groups I, II, and III, in cooperation with the Task Force on National Greenhouse Gas Inventories (TFI), whereby the summary for Policymakers (SPM) of the Special Report on Climate Change and Land (SRCCL) was approved and the underlying scientific-technical assessment was accepted. The Panel also noted the changes to the underlying scientific-

technical assessment to ensure consistency with the approved Summary for policymakers. The Panel accepted the Summary for Policymakers (SPM) of the Special Report on Climate Change and Land (SRCCL). 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 52<sup>nd</sup> Session.

Mr Brun informed the Panel that following the discussions during the three meetings of the Task Group which were held at the 49<sup>th</sup> 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 52<sup>nd</sup> 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 52<sup>nd</sup> 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 50<sup>th</sup> Session of the IPCC.

Mr Brun announced a meeting for all Task Group members which was held during the course of the 50<sup>th</sup> 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 56<sup>th</sup> 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 52<sup>nd</sup> 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 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 49<sup>th</sup> 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, they also noted that the issue required consideration by governments in Plenary. One country also noted that coordination at the national level should form the basis for any action taken. 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 of a background note including mandates and putting forth different options for further action to be discussed 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 52<sup>nd</sup> Session of the IPCC in 2020. It would therefore be possible to consider reviewing Principle 10 (b) during the 52<sup>nd</sup> Session of the IPCC.

The Panel agreed to this approach.

## **7. PLACE AND DATE OF THE 51<sup>ST</sup> SESSION OF THE IPCC**

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

## **8. 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 50<sup>th</sup> 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 gave the meeting to a close at 3.06 p.m. on Wednesday 7 August 2019.



**50<sup>TH</sup> 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 50<sup>th</sup> 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 49<sup>th</sup> Session**

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

The Intergovernmental Panel on Climate Change at its 50<sup>th</sup> Session approves the report of the 49<sup>th</sup> 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 50<sup>th</sup> 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<sup>e</sup> session Plénière du GIEC dans de si bonnes conditions.

Lors de la 49<sup>e</sup> 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.

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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<sup>H</sup> SESSION OF THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE  
Geneva, Switzerland, 2 to 6 August 2019**

**LIST OF PARTICIPANTS**

## CHAIR OF THE IPCC

Hoesung LEE  
Chairman of the IPCC  
Korea University  
c/o Korea Meteorological Administration, 16-gil-61  
Yeouidaebangro, Dongjak-gu  
Seoul  
Republic of Korea  
Tel:+82 2 835 1363  
E-mail:leehoesung@gmail.com

## BUREAU MEMBERS

Noureddine YASSAA  
WGI Vice-chair  
Centre de Développement des Energies  
Renouvelables  
Route de l'Observatoire, B.P. 62, Bouzareah,  
Algiers16340  
Algeria  
Tel: +21321901561  
E-mail: n.yassaa@cder.dz

Vera CAROLINA  
WGI Vice-chair  
CIMA/University of Buenos Aires-CONICET  
Cima, pabellon 2, 2do piso, Ciudad Universitaria  
Buenos Aires  
Argentina  
Tel: +5491147872693  
E-mail: carolina@cima.fcen.uba.ar

Mark HOWDEN  
WGII Vice-chair  
Australian National University  
Acton  
Canberra ACT 2601  
Australia  
Tel:+61 2 6125 7266  
E-mail: Mark.Howden@anu.edu.au

Thelma KRUG  
IPCC Vice-chair  
Instituto Nacional de Pesquisas Espaciais (INPE)  
Coordenação de Observação da Terra (DSR/OBT)  
Avenida dos Astronautas 1758  
Sao Jose dos Campos, SP  
Brazil  
Tel:+551 232086442  
E-mail:thelma.krug@inpe.br

Gregory FLATO  
WGI Vice-chair  
Canadian Centre for Climate Modelling and  
Analysis  
Environment and Climate Change Canada  
Victoria  
Canada  
Tel:+ 1-250-363-8233  
E-mail:greg.flato@canada.ca

Panmao ZHAI  
WGI Co-chair  
China Meteorological Administration  
46 Zhongguancun Nandajie, 100081  
Beijing  
China  
Tel:+86 10 68409421  
E-mail: pmzhai@cma.gov.cn

Ramon PICHES MADRUGA  
WGIII Vice-chair  
CIEM - Calle 22 No. 309 entre 3ra y 5ta Ave  
Miramar  
Habana 13  
Cuba  
Tel:+537 2042507  
E-mail: rpichs@ciem.cu

Diriba DADI  
WGIII Vice-chair  
USGS/Famine Early Warning Systems Network  
P.O. Box 17403 Addis Ababa Ethiopia  
Addis Ababa  
Ethiopia  
Tel:+116619966  
E-mail:dkorecha@yahoo.com

Valerie MASSON DELMOTTE  
WGI Co-chair  
LSCE  
Route de l'Orme des merisiers  
Gif sur Yvette  
France  
Tel:+33 6 79 08 21 22  
E-mail:valerie.masson@lsce.ipsl.fr

Hans-o. POERTNER  
WGII Co-chair  
Alfred-Wegener-Institut  
Am Handelshafen 12  
Bremerhaven  
Germany  
Tel:+4947148311307  
E-mail: hans.poertner@awi.de

Diana URGE-VORSATZ  
WGIII Vice-chair  
Central European University  
Nador utca 9  
Budapest  
Hungary  
Tel:+36306839134  
E-mail:vorsatzd@ceu.edu

Priyadarshi SHUKLA  
WGIII Co-chair  
Ahmedabad University  
Room # 328 GICT Building  
Ahmedabad  
India  
Tel:+91 7600332333  
E-mail: shuklapr@ahduni.edu.in

Edvin ALDRIAN  
WGI Vice-chair  
Agency for Assessment and Application of  
Technology  
Jl. MH Thamrin No 8  
Jakarta  
Indonesia  
Tel:+6281311217146  
E-mail: e\_aldrian@yahoo.com

Kiyoto TANABE  
TFI Co-chair  
C/o Institute for Global Environmental Strategies  
(IGES)  
2108-11 Kamiyamaguchi  
Hayama, 240-0115  
Japan  
Tel:+81 46 855 3752  
E-mail: tanabe@iges.or.jp

Joy PEREIRA  
WGII Vice-chair  
Universiti Kebangsaan Malaysia  
SEADPRI-UKM, Institute for Environment and  
Development  
Bangi  
Malaysia  
Tel:+60389214852  
E-mail: pereirajoy@yahoo.com

Amjad ABDULLA  
WGIII Vice-chair  
Ministry of Environment and Energy  
Ameenee Magu  
Male  
Maldives  
Tel:+9607775543  
E-mail: abdulla.amjad@gmail.com

Fatima DRIOUECH  
WGI Vice-chair  
University Mohamed VI Polytechnic  
Lot 660 – Hay Moulay Rachid,  
43150 Ben Guerir, Morocco  
Tel:+212522654872  
E-mail: driouechfatima@yahoo.fr

Andy REISINGER  
WGIII Vice-chair  
New Zealand Agricultural Greenhouse Gas  
Research Centre  
PO Box 5290  
Wellington  
New Zealand  
Tel:+64 4 472 3292  
E-mail: Andy.Reisinger@nzagrc.org.nz

Jan FUGLESTVEDT  
WGI Vice-chair  
CICERO  
Pb. 1129 Blindern, 0318 Oslo  
Oslo  
Norway  
Tel:+4791578850  
E-mail: j.s.fuglestvedt@cicero.oslo.no

Eduardo CALVO  
TFI Co-chair  
Arteaga 549  
San Borja  
Lima  
Peru  
Tel:+511 3462299  
E-mail: e13calvo@gmail.com

Sergei SEMENOV  
WGII Vice-chair  
Yu.A. Izrael Institute of Global Climate and  
Ecology  
Glebovskaya Street, 20B  
Moscow  
Russian Federation  
Tel:+7 499 169 1103  
E-mail: SergeySemenov1@yandex.ru

Taha ZATARI  
WGII Vice-chair  
Designated National Authority for CDM  
P.O.Box 94293  
Riyadh  
Saudi Arabia  
Tel:+966112819719  
E-mail: tahazat@yahoo.com

Debra ROBERTS  
WGII Co-chair  
eThekweni Municipality  
Environmental Planning and Climate  
Protection, 166 KE Masinga (Old Fort) Road  
Durban  
Durban  
South Africa  
Tel:+27 31 311 7527  
E-mail: Debra.Roberts@durban.gov.za

Nagmeldin GOUTBI ELHASSAN MAHMOUD  
WGIII Vice-chair  
Higher Council for Environment and Natural  
Resources (HCENR)  
HCENR, Gama Street, P. O. Box 10488  
Khartoum  
Sudan  
Tel:+249912252578  
E-mail:goutbi@yahoo.com

Youba SOKONA  
IPCC Vice-chair  
South Centre  
Chemin du Champ d'Anier 17 - 1211 Genève 19  
Geneva  
Switzerland  
Tel:+41 227918046  
E-mail:ysokona@gmail.com

Andreas FISCHLIN  
WGII Vice-chair  
ETH Zurich  
Systems Ecology - Institute of Biogeochemical  
Dynamics and Pollution Control CHN E 24,  
Universitaetstrasse 16  
Zurich  
Switzerland  
Tel:+41 44 633 6090  
E-mail:andreas.fischlin@env.ethz.ch

James SKEA  
WGIII Co-chair  
Imperial College  
14 Princes Gardens, London SW7 1NA  
London  
UK  
Tel:+44 7714 330 734  
E-mail:j.skea@ipcc-wg3.ac.uk

Carlos MENDEZ  
WGII Vice-chair  
IVIC  
Carretera Panamericana km 11, Estado Miranda,  
Venezuela  
Caracas  
Venezuela  
Tel:+ 582125041246  
E-mail:carlos.menvall@gmail.com

## **MEMBER COUNTRIES**

### **AFGHANISTAN**

Rohullah AMIN  
National Environmental Protection Agency  
District 6h, Darulaman Road, Sanaturiam Street,  
Kabul  
Afghanistan  
Tel: +93744748301  
E-mail:rohullah\_amin512@hotmail.com

### **ALGERIA**

Riad Azziz HIRCHE  
University of Science and Technology Houari  
Boumediene  
BP 32 El-Alia, Bab-Ezzouar  
Algiers  
Algeria  
Tel:+550110161  
E-mail:stomaryah@gmail.com

### **ANGOLA**

Luis CONSTANTINO  
Ministry of Environment  
Rua dos Enganos, N<sup>o</sup>5 Torre Zimbo 4<sup>o</sup> Andar  
Kinaxixi  
Luanda  
Angola  
Tel:+244 222010755  
E-mail:luisdomingosconstantino@gmail.com

### **ANTIGUA AND BARBUDA**

Orvin PAIGE  
Antigua and Barbuda Meteorological Services  
V.C. Bird International Airport  
St. John &#039;s  
Antigua and Barbuda  
Tel:+ 1268-562-4389  
E-mail:odepaige@yahoo.com

### **AUSTRALIA**

John JENDE  
Department of the Environment and Energy  
GPO Box 787  
Canberra  
Australia  
Tel: +61261597430  
E-mail: John.Jende@environment.gov.au

### **AUSTRIA**

Peter REPCZUK  
BMNT  
Stubenbastei 5  
Vienna  
Austria  
Tel: +4369910786095  
E-mail: p.repczuk@gmx.at

Manfred OGRIS  
Fed. Ministry for Agriculture, Forestry,  
Environment and Water  
Stubenbastei 5  
A-1010 Wien  
Austria  
Tel:+431 71100611741  
E-mail: manfredogris@gmx.at



## **AZERBAIJAN**

Jeyhun HASANOV  
Ministry of Ecology and Natural Resources of  
Republic of Azerbaijan  
H.Aliyev ave 10  
Baku  
Azerbaijan  
Tel: (+99412)5662794  
E-mail: jeyhun360@gmail.com

## **BELGIUM**

Bruna GAINO  
Plateforme Wallone de GIEC/UCL  
Place Louis Pasteur 3, (bte L4.03.08)  
1348 Louvain-la-Neuve  
Belgium  
Tel: +32 (0)10 47 32 86  
E-mail: Bruna.Gaino@uclouvain.be

Martine VANDERSTRAETEN  
BELSPO - Belgian federal Science Policy Office  
Louizalaan 231 - Avenue Louise 1050  
1050 Brussels  
Belgium  
Tel: +32 (0) 2 238 36 10  
E-mail: vdst@belspo.be

Jean- Pascal VAN YPERSELE  
Université catholique de Louvain (UCL) - Georges  
Lemaître Centre for Earth and Climate Research  
(TECLIM)  
Place Louis Pasteur 3, (bte L4.03.08)  
1348 Louvain-la-Neuve  
Belgium  
Tel: +32 (0) 10 47 32 96  
E-mail: vanyp@climate.be

Philippe MARBAIX  
Plateforme Wallone de GIEC/UCL  
Place Louis Pasteur 3, (bte L4.03.08)  
1348 Louvain-la-Neuve  
Belgium  
Tel: +32 (0) 10 47 32 99  
E-mail: Philippe.Marbaix@uclouvain.be

## **BELIZE**

Shanea YOUNG  
National Meteorological Service of Belize  
PO Box 717, Belize District  
Belize  
Tel: +501-225-2054  
E-mail: syoung@hydromet.gov.bz

## **BENIN**

Kokou Marcellin NAKPON  
METEO BENIN  
BP379 COTONOU  
Cotonou  
Benin  
Tel: +229 94174151  
E-mail: marcellin.nakpon@gmail.com

## **BHUTAN**

Singay DORJI  
National Center for Hydrology and Meteorology,  
Thimphu Bhutan  
Weather and Climate Services Division, National  
Center for Hydrology and Meteorology, Thimphu,  
Post Box 207, Thimphu Bhutan  
Thimphu  
Bhutan  
Tel: +975 2 324999  
E-mail: sdorji@nchm.gov.bt

Quentin LEJEUNE  
Climate Analytics (CA),  
Climate Analytics gGmbH  
Ritterstraße 3 10969 Berlin, Germany  
Germany/Bhutan  
Tel: +49 (0)30 259229520  
E-mail: quentin.lejeune@climateanalytics.org

## **BOLIVIA**

Carlos Ivan ZAMBRANA FLORES  
Plurinational Authority of Mother Earth  
Calle Juan de Vargas 2012A, Miraflores  
La Paz  
Bolivia  
Tel: +591(2)2184025  
E-mail: ivan.zambrana@madretierra.gob.bo

Natalia PACHECO  
Permanent Mission of the Plurinational State of  
Bolivia to the United Nations  
Av. De Secheron 15, 1202  
Geneva  
Switzerland/Bolivia  
Tel: +41229080717  
E-mail: natalia.pacheco@mission-bolivia.ch

## **BOSNIA AND HERZEGOVINA**

Goran TRBIC  
University of Banja Luka Faculty of Science  
Mladena Stojanovica 2  
Banja Luka  
Bosnia and Herzegovina  
Tel: +38751324561  
E-mail: trbicg@pmfbl.org

## **BOTSWANA**

Johannes SEEMA  
Department of Forestry and Range Resources  
P/Bag 00424  
Gaborone  
Botswana  
Tel:+2673985100  
E-mail:mrjayseema@gmail.com

## **BRAZIL**

Adriano BONOTTO  
Ministry  
Esplanada dos Ministerios-Itamaraty  
Brasilia  
Brazil  
Tel:+55 61 2030 9793  
E-mail:adriano.bonotto@itamaraty.gov.br

Eleneide SOTTA  
Ministry of Agriculture, Livestock and Food Supply  
Esplanada dos Ministérios Bloco D, Ministério da  
Agricultura Pecuária e Abastecimento, - Brasilia -  
DF - CEP 70.043-90  
Brasilia  
Brazil  
Tel:+ (61)3218-3644  
E-mail:eleneide.sotta@agricultura.gov.br

Kátia MARZALL  
Ministry of Agriculture, Livestock and Food Supply  
Esplanada dos Ministérios Bloco D, Ministério da  
Agricultura Pecuária e Abastecimento, - Brasília -  
DF - CEP 70.043-90  
Brasilia  
Brazil  
Tel:55 (61)3218-2828  
E-mail:katia.marzall@agricultura.gov.br

Marcio ROJAS DA CRUZ  
Ministry of Science, Technology, Innovation and  
Communication  
Esplanada dos Ministérios, Bloco E  
Brasilia  
Brazil  
Tel:+55 61 2033-8037  
E-mail:mrojas@mctic.gov.br

Paulo BRAGA  
Ministry of Foreign Affairs  
Esplanada dos Ministerios Bloco H Anexo III 3  
andar  
Brasilia  
Brazil  
Tel:+55 61 20306072  
E-mail:paulo.braga@itamaraty.gov.br

## **BURKINA FASO**

Ulrich Jacques DIASSO  
Agence Nationale de la Meteorologie  
'01 BP 576  
Ouagadougou  
Burkina Faso  
Tel:+22676177600  
E-mail:udiasso@gmail.com

## **CABO VERDE**

Francisco DA VEIGA CORREIA  
National Institute of Meteorology  
BP. 467 INMG - Praia Cape Verde  
Praia  
Cabo Verde  
Tel:+238 2617891  
E-mail:franciscocorreia073@gmail.com

## **CAMBODIA**

Sum THY  
Climate Change Department, General Secretariat  
of National Council for Sustainable Development  
Department of Climate Change, Techno Heritage  
Building, plot No.503, Blvd (St. 3), Khan  
Chamkamorn Phnom Penh, Cambodia  
Phnom Penh  
Cambodia  
Tel:+16906909  
E-mail:cceap@online.com.kh

## **CAMEROON**

Temothee KAGONBE  
MINEPDED, BP. 320 Yaoundé, Cameroun.  
B.P 2981, Mimboman, Yaoundé.  
Yaounde  
Cameroon  
Tel:+237 699875590  
E-mail:kagonbet@yahoo.fr

## **CANADA**

Laird SHUTT  
Environment and Climate Change Canada  
335 River Road, 3rd Floor, Office 353, Ontario,  
K1V 1C7  
Ottawa  
Canada  
Tel:+1 613-949-8306  
E-mail:laird.shutt@canada.ca

Karin SIMONSON  
Natural Resources Canada  
580 Booth St.  
Ottawa  
Canada  
Tel:+ 1-343-292-8468  
E-mail:karin.simonson@canada.ca

Elizabeth BUSH  
Environment and Climate Change Canada  
4905 Dufferin St, 3rd Floor, Office 3S205, Ontario,  
M3H 5T4  
Toronto  
Canada  
Tel:+1 416-739-4332  
E-mail:elizabeth.bush@canada.ca

Katie VOGT  
Environment and Climate Change Canada  
351 Boulevard Saint-Joseph  
Gatineau  
Canada  
Tel:+ 819-938-5847  
E-mail:katie.vogt@canada.ca

#### **CENTRAL AFRICAN REPUBLIC**

Athanase Hyacinthe Anaclet YAMBELE  
Direction of Meteorology  
B.p 941 MET SERVICE Minister of Civil Aviation  
Bangui  
Central African Republic  
Tel: +23675047802  
E-mail:athyambele@yahoo.fr

#### **CHAD**

Hamid ABAKAR SOULEYMANE  
Ministry of Civil Aviation and of the National  
Meteorology  
National Meteorology Agency  
NDjamena  
Chad  
Tel:+23562000047  
E-mail:chogara11@yahoo.fr

#### **CHILE**

Maritza JADRIJEVIC  
Climate Change Office, Environmental Ministry  
San Martin 73, 8° piso  
Santiago  
Chile  
Tel:+56 2 25735688  
E-mail: mjadrijevic@mma.gob.cl

Leonardo MUÑOZ  
Ministry of Science, Technology, Knowledge and  
Innovation  
Palacio La Moneda s/n. Piso 2. Ala Sur-Poniente  
Santiago  
Chile  
Tel:+ (56 2) 2694 5423  
E-mail:leonardo.munoz@gmail.com

#### **CHINA**

Yusong WANG  
Ministry of Ecology and Environment  
No. 115, Xizhimen Nanxiaojie, Xicheng District  
Beijing  
China  
Tel:+86 10 66103238  
E-mail: wang.yusong@mee.gov.cn

Ningning ZHANG  
Delegate  
Chinese Academy of Sciences  
52, Sanlihe Road  
Beijing  
China  
Tel:+86 10 68597580  
E-mail: nnzhang@cashq.ac.cn

Ying REN  
China Meteorological Administration  
46 Zhongguancun Nandajie, 100081, Beijing  
Beijing  
China  
Tel:+86 10 68406732  
E-mail: renying@cma.gov.cn

Changke WANG  
China Meteorological Administration  
No.46, Zhongguancun Nandajie, Haidian District  
Beijing  
China  
Tel:+86 10 68404146  
E-mail: wangck@cma.gov.cn

Lei HUANG  
China Meteorological Administration  
46 Zhongguancun Nandajie  
Beijing,100081  
China  
Tel:+86 10 68409594  
E-mail: huanglei@cma.gov.cn

Fan ZHANG  
Institute of Tibetan Plateau Research, Chinese  
Academy of Sciences  
16-3 Lincui Road, Chaoyang District  
Beijing  
China  
Tel:+86 10 84097030  
E-mail: zhangfan@itpcas.ac.cn

Qingchen CHAO  
China Meteorological Administration  
No. 46, Zhongguancun Nandajie  
Beijing  
China  
Tel:+86 10 68406681  
E-mail: chaoqc@cma.gov.cn

Yubin YU  
China Meteorological Administration  
46 Zhongguancun Nandajie  
Beijing  
China  
Tel: +861068406528  
E-mail: yuyb@cma.gov.cn

Rucong YU  
China Meteorological Administration  
46 Zhongguancun Nandajie  
Beijing  
China  
Tel:+86 10 62172957  
E-mail: yrc@cma.gov.cn

Xiaodan NA  
Department of International cooperation, China  
Meteorological Administration  
46 Zhongguancun Nandajie  
Beijing, 100081  
China  
Tel:+86 10 68406662  
E-mail: naxd@cma.gov.cn

Bo WU  
Institute of Desertification Studies, Chinese  
Academy of Forestry  
No.10, Huaishuju Road, Haidian District  
Beijing  
China  
Tel:+86 10 62824078  
E-mail: wubo@caf.ac.cn

## **COLOMBIA**

Gonzalez Hernandez YOLANDA  
Institute of Hydrology, Meteorology and  
Environmental Studies (IDEAM)  
Calle 25D No. 96B-70  
Bogota D.C.  
Colombia  
Tel:+57 (1) 3527160 ext 1121  
E-mail: ygonzalez@ideam.gov.co

Natalia PULIDO SIERRA  
Colombian Embassy in Geneva  
Chemin du Champ d'Anier 17 - 19  
Geneva  
Switzerland/Colombia  
Tel:(+41) 22 7984718  
E-mail: natalia.pulido@cancilleria.gov.co

## **COMOROS**

Said DJAMAL-DINE  
Direction General de l'Environnement et des  
Forets  
EX-CEFADER  
MDE  
Comoros  
Tel:(+269)3318984  
E-mail:djasaid001@gmail.com

## **CONGO**

Gervais Ludovic ITSOUA MADZOUS  
Ministère du Tourisme et de l'Environnement  
Direction Générale du Développement Durable,  
11e Etage Tour Nabemba  
Brazzaville  
Congo  
Tel: +242055317411  
E-mail:imadzous2@gmail.com

Sandra Murielle MADZOU MABIKA  
Projet Changements Climatiques  
DGDD, 22e Etage Tour Nabemba  
Brazzaville  
Congo  
Tel:'+242069317411  
E-mail:sandra.mmadzou@gmail.com

## **COSTA RICA**

Luis Fernando ALVARADO  
National Meteorological Institute  
9 Avenue 17 Street San Jose  
San Jose  
Costa Rica  
Tel:+ 506 22225616  
E-mail: lalvarado@imn.ac.cr

## **COTE D'IVOIRE**

Kouakou Bernard DJE  
Meteorology Office  
15 BP 990  
Abidjan  
Cote d'Ivoire  
Tel:+225 05817721  
E-mail:dkouakou\_b@yahoo.fr

## **CROATIA**

Kreso PANDZIC  
Meteorological and Hydrological Service  
Gric 3  
Zagreb  
Croatia  
Tel:+385 1 45 65 684  
E-mail :pandzic@cirus.dhz.hr

## **CUBA**

Celso PAZOS ALBERDI  
Institute of Meteorology of Cuba  
Loma de Casablanca  
La Habana  
Cuba  
Tel:+ (537) 86 86 408  
E-mail: celso.pazos@insmet.cu

## **CZECH REPUBLIC**

Radim TOLASZ  
Czech Hydrometeorological Institute  
Na Saabatce 17  
Praha 4 - Komorany  
Czech Republic  
Tel:+420 596 900 277  
E-mail:radim.tolasz@chmi.cz

## **DENMARK**

Tilde Vejen JESPERSEN  
Danish Meteorological Institute  
Lyngbyvej 100  
Copenhagen  
Denmark  
Tel:+45 20522639  
E-mail:tje@dmi.dk

Tina CHRISTENSEN  
Danish Meteorological Institute  
Lyngbyvej 100  
Copenhagen  
Denmark  
Tel:+45 3915 7496  
E-mail:tic@dmi.dk

## **DJIBOUTI**

Dini Abdallah OMAR  
Ministère de l'Urbanisme de l'Environnement et du  
Tourisme  
Commune de boualos  
Djibouti  
Djibouti  
Tel:+ 253 21 35 00 06  
E-mail:dini.omar12@gmail.com

## **DOMINICAN REPUBLIC**

Pedro GARCIA BRITO  
Ministry of Environment and Natural Resources  
Ave. Cayetano Germosen, Esq. Ave. Gregorio  
Luperon, El Pedregal  
Santo Domingo  
Dominican Republic  
Tel:+809 567 4300 - 6250  
E-mail: cambio.climatico@ambiente.gob.do

## **EGYPT**

Sherif IBRAHIM  
Egyptian Environmental Affairs Agency  
30 Misr Helwan Elzeraee Road, Maadi  
Cairo  
Egypt  
Tel:+2 02 2524 6162  
E-mail:ipcc\_eg.cccu@yahoo.com

## **EL SALVADOR**

Antonio CANAS CALDERON  
Ministry of Environment and Natural Resources  
Calle y Colonia Las Mercedes, Km 5.5 carretera a  
Santa Tecla, Edificio MARN  
San Salvador  
El Salvador  
Tel:+ 50321329418  
E-mail: acanas@marn.gob.sv

## **ESTONIA**

Annela ANGER-KRAAVI  
The Ministry of Environment of Estonia  
Narva mnt 7a  
Tallinn 15172  
Estonia  
E-mail: annela.anger-kraavi@envir.ee

Taimar ALA  
Environment Agency  
Mustamatee 33  
Tallinn  
Estonia  
Tel:+3725276074  
E-mail: taimar.ala@envir.ee

## **ETHIOPIA**

Fetene TESHOME  
National Meteorological Agency  
Addis Ababa  
Ethiopia  
Tel:+116615540  
E-mail:fetenekoket@yahoo.com

## **FINLAND**

Tuomo KALLIOKOSKI  
University of Helsinki  
P.O. 27  
FI-00079 Helsinki  
Finland  
Tel:+356294158118  
E-mail:tuomo.kalliokoski@helsinki.fi

Kaarle KUPIAINEN  
Ministry of the Environment  
Aleksanterinkatu 7, FI-00023 Government, P.O.Box  
35 Government  
Helsinki  
Finland  
Tel:+358 295 250 232  
E-mail:kaarle.kupiainen@ym.fi

Anna REPO  
Natural Resources Institute Finland LUKE  
Latokartanonkaari 9  
FI-00079 Helsinki  
Finland  
Tel:+358295322219  
E-mail:anna.repo@luke.fi

Elias HURMEKOSKI  
Ministry of Agriculture and Forestry  
PO Box 30  
FI-00023 - Helsinki  
Finland  
Tel:+358 295162092  
E-mail:elias.hurmekoski@mmm.fi

#### **FRANCE**

Thomas LIEBAULT  
MEAE  
37 quai d'Orsay  
75007  
France  
Tel:+33 1 43 17 53 53  
E-mail:thomas.liebault@diplomatie.gouv.fr

Valérie DERMAUX  
MAA  
3 rue Barbet de Jouy  
75349 PARIS 07 SP  
France  
Tel:+33 1 49 55 59 89  
E-mail:valerie.dermaux@agriculture.gouv.fr

Auréliе GOURDON  
MTES  
Ministère de la Transition écologique et solidaire  
92055 La Défense CEDEX  
France  
Tel:+33 1 40 81 20 83  
E-mail:aurelie.gourdon@developpement-  
durable.gouv.fr

Pierre RIBSTEIN  
MESRI  
1, rue Descartes  
75231 Paris Cedex 05  
France  
Tel:+33 1 55 55 82 63  
E-mail:pierre.ribstein@recherche.gouv.fr

Eric BRUN  
MTES  
DGEC/SCEE/ONERC  
92055 La Défense  
France  
Tel:+33 1 40 81 92 94  
E-mail:eric.brun-barriere@developpement-  
durable.gouv.fr

Hélène Van ROSSUM  
MEAE  
37, quai d'Orsay 75007  
Paris  
France  
Tel:+33 1 44 49 80 76  
E-mail:helene.van-rossum@diplomatie.gouv.fr

Florian CLAEYS  
MAA  
3 Rue Barbet de Jouy - 75349 PARIS 07 SP  
Paris  
France  
Tel:+33 1 49 55 51 35  
E-mail:florian.claeys@agriculture.gouv.fr

#### **GABON**

Jean Pierre BOUSSOUGOU  
National Climate Council  
Immeuble les arcades, centre ville  
Libreville  
Gabon  
Tel:+24101727277  
E-mail:randystevy@yahoo.fr

#### **GAMBIA**

Lamin Mai TOURAY  
Department of Water Resources  
7, Marina Parade  
Banjul  
Gambia  
Tel:(220) 4227631  
E-mail:touraylm@yahoo.co.uk

#### **GEORGIA**

Ramaz CHITANAVA  
Hydrometeorological department of Georgia  
150, David Agmashenebeli Ave  
Tbilisi  
Georgia  
Tel:+995 32 243 95 50  
E-mail:chitanavaramaz@gmail.com

## **GERMANY**

Christian MUELLER  
Federal Ministry for the Environment, Nature  
Conservation, Building and Nuclear Safety  
Köthener Straße 2-3  
Berlin  
Germany  
Tel:+49 - 30 - 18 305 4695  
E-mail: Christian.Mueller.extern@bmu.bund.de

Guido HALBIG  
German Meteorological Service (DWD)  
Wallneyer Str. 10  
Essen  
Germany  
Tel:+49 69 8062 6861  
E-mail: guido.halbig@dwd.de

Eric FEE  
Federal Environment Agency  
Wärlitzer Platz 1  
Dessau-Rosslau  
Germany  
Tel:+49 340 2103 3216  
E-mail: eric.fee@uba.de

Gerrit HANSEN  
German Aerospace Center, Project Management  
Agency, German IPCC Coordination Office  
Heinrich-Konen-Str.1, 53227  
Bonn  
Germany  
Tel:+49 30 67055 9658  
E-mail: gerrit.hansen@dlr.de

Christiane TEXTOR  
German Aerospace Center, Project Management  
Agency, German IPCC Coordination Office  
Heinrich-Konen-Str.1, 53227  
Bonn  
Germany  
Tel:+49 228 3121 1554  
E-mail: christiane.textor@dlr.de

## **GUINEA BISSAU**

Joao LONA TCHEDNA  
Delegate  
Institut National de la Météorologie  
Avenida do Brasil, Cx.P. 75 1038 Cedex - Bissau  
Guinea Bissau  
Tel: 00245 95542 20 07  
E-mail: J\_Lona@yahoo.fr

## **GUYANA**

Paulette BYNOE  
University of Guyana  
Turkeyen Campus, Greater Georgetown, Guyana  
Georgetown  
Guyana  
Tel: +5922162635  
E-mail:paulette.bynoe@uog.edu.gy

## **HUNGARY**

Bernadett BENKO  
Ministry for Innovation and Technology  
H-1011 Budapest, Főútkert utca 44-50.  
Budapest  
Hungary  
E-mail:bernadett.benko@itm.gov.hu

## **INDIA**

Jaivardhan RAMANLAL BHATT  
Ministry of Environment, Forest and Climate  
Change  
3rd Floor Jal Block, Indira Paryavaran  
Bhavan, Ministry of Environment, Forest and  
Climate Change, New Delhi 110003  
India  
Tel:+911124695293  
E-mail: jrbhatt@nic.in

Ajay RAGHAVA  
Ministry of Environment, Forest and Climate  
Change  
Pandit Deen Dayal Antyodaya Bhawan  
CGO Complex  
New Delhi  
India  
Tel:+91 11 24362735  
E-mail: ajay.raghava@nic.in

Nijavalli Hanumantha Rao RAVINDRANATH  
Indian Institute of Science  
CV Raman Rd, Bengaluru, Karnataka 560012  
Bengaluru  
India  
Tel:+91-80-2293 3016  
E-mail:nh.ravi@gmail.com

Thiagarajan JAYARAMAN  
TATA Institute Of Social Sciences  
DEONAR  
MUMBAI  
India  
Tel:+ 25524931  
E-mail:tjayaraman@gmail.com

## **INDONESIA**

Budiharto BUDIHARTO  
Ministry of Environment and Forestry Indonesia  
Manggala Wanabakti Building, Jalan Gatot  
Subroto, Jakarta  
Indonesia  
Tel:+622157903073  
E-mail:budiharto.geo86@gmail.com

Irawan ASAAD  
Ministry of Environment and Forestry Indonesia  
Manggala Wanabakti Building, Block 4, 6th Floor,  
Jalan Gatot Subroto  
Jakarta  
Indonesia  
Tel:+622157903073  
E-mail:irawan.asaad@gmail.com

Real Sukmana Faesal UMAR  
Delegate  
Ministry of Environment and Forestry Indonesia  
Manggala Wanabakti Building, Block 7, 12th Floor,  
Jalan Gatot Subroto  
Indonesia  
Tel: '+62215746724  
E-mail:realsukmana@gmail.com

Awidya SANTIKAJAYA  
Permanent Mission of the Republic Indonesia to  
the United Nations, WTO and other International  
Organizations in Geneva  
16 Rue de Saint-Jean  
1203 Geneve  
Switzerland  
Tel: +41223383350  
E-mail:awidya.santikajaya@mission-indonesia.org

## **IRAN**

Sadegh ZEYAEYAN  
Islamic Republic of Iran Meteorological  
Organization (IRIMO)  
Meraj. Blvd., Azadi Sq., MehrAbad Airport  
Tehran  
Iran  
Tel: 00982166070038  
E-mail:s.ziayan@yahoo.com

## **IRELAND**

Sabrina DEKKER  
Dublin City University  
Dublin  
Ireland  
E-mail: sabrina.dekker@dcu.ie

Philip BLACKWELL  
Department of Agriculture Food and the Marine  
Agriculture House, Kildare Street  
Dublin  
Ireland  
Tel:+353860242870  
E-mail: philip.blackwell@agriculture.gov.ie

Frank MCGOVERN  
Richview, Clonskeagh Road  
Dublin 14  
Ireland  
Tel: '+35312680100  
E-mail: f.mcGovern@epa.ie

## **ITALY**

Lucia PERUGINI  
Fondazione Centro Euro-Mediterraneo sui  
Cambiamenti Climatici  
Viale Trieste 127  
Viterbo  
Italy  
Tel:+39 0761 309587  
E-mail: lucia.perugini@cmcc.it

## **JAMAICA**

Jacqueline SPENCE  
Meteorological Service  
65 3/4 Half Way Tree Road  
Kingston 10  
Jamaica  
Tel:+1 876 929 3702  
E-mail :j.spence@metSERVICE.gov.jm

## **JAPAN**

Tetsuya DEGUCHI  
Research Institute of Innovative Technology for the  
Earth (RITE)  
9-2 Kizugawadai, Kizugawa-shi,  
Kyoto, 619-0292  
Japan  
Tel:+81 774 75 2302  
E-mail:deguchi@rite.or.jp

Kiichi SHIRAKAWA  
Japan Weather Association (JWA)  
Sunshine 60 Bldg. 55F, 3-1-1 Higashi-Ikebukuro,  
Toshima-ku, Tokyo 170-6055  
Japan  
Tel:+81 3 5958 8152  
E-mail:shirakawa@jwa.or.jp



Kyoko FURUTA  
Ministry of Agriculture, Forestry and Fisheries  
(MAFF)  
1-2-1 Kasumigaseki, Chiyoda-ku,  
Tokyo 100-8952  
Japan  
Tel:+81 3 6744 2016  
E-mail:kyoko\_furuta840@maff.go.jp

Michio KAWAMIYA  
Japan Agency for Marine-earth Science and  
Technology (JAMSTEC)  
3173-25, Showamachi, Kanazawa ward,  
Yokohama 236-0001  
Japan  
Tel:+81 45 778 5613  
E-mail:kawamiya@jamstec.go.jp

Makino YAMANOSHITA  
Institute for Global Environmental Strategies  
(IGES)  
2108-11 Kamiyamaguchi,  
Hayama, Kanagawa 240-0015  
Japan  
Tel:+81 46 855 3832  
E-mail:yamanoshita@iges.or.jp

Akihiro HIROSE  
Ministry of Economy, Trade and Industry (METI)  
1-3-1 Kasumigaseki, Chiyoda-ku,  
Tokyo, 100-8901  
Japan  
Tel:+81 3 3501 1757  
E-mail:hirose-akihiro@meti.go.jp

Yumi KOBAYASHI  
Research Institute of Innovative Technology for the  
Earth (RITE)  
9-2 Kizugawadai, Kizugawa-shi  
Kyoto 619-0292  
Japan  
Tel:+81 774 75 2302  
E-mail:kobayashi@rite.or.jp

Yutaro SHOGAKI  
Mitsubishi UFJ Research and Consulting Co., Ltd.  
5-11-2, Toranomom, Minato-ku,  
Tokyo 105-8501  
Japan  
Tel:+81 3 6733 1023  
E-mail:y.shogaki@murc.jp

Hiroko NAKAMURA  
Global Environmental Forum  
8th Floor, Kuramae Intelligent Bldg., 3-17-3  
Kuramae, Taito-ku,  
Tokyo 111-0051  
Japan  
Tel:+81 3 5825 9735  
E-mail:hiroco0517@gmail.com

Noriko HASE  
Ministry of the Environment (MOE)  
1-2-2, Kasumigaseki, Chiyoda-ku,  
Tokyo 100-8975  
Japan  
Tel:+81 3 5521 8247  
E-mail:NORIKO\_HASE@env.go.jp

Keiko YOSHIKAWA  
Ministry of the Environment (MOE)  
1-2-2, Kasumigaseki, Chiyoda-ku,  
Tokyo 100-8975  
Japan  
Tel:+81 3 5521 8247  
E-mail:KEIKO\_YOSHIKAWA@env.go.jp

Osamu ISHIUCHI  
Forestry Agency, Ministry of Agriculture, Forestry  
and Fisheries (MAFF)  
1-2-1 Kasumigaseki, Chiyoda-ku,  
Tokyo 100-8950  
Japan  
Tel:+81 3 3502 8240  
E-mail:osamu\_ishiuchi130@maff.go.jp

## **KENYA**

Patricia A. NYING'URO  
Kenya Meteorological Department  
BOX 30259-00100  
NAIROBI  
Kenya  
Tel:+254203867880  
E-mail:pnyinguro@gmail.com

## **KYRGYZSTAN**

Baglan SALYKMAMBETOVA  
State Agency on Environment Protection and  
Forestry  
142 Gorkii str.  
Bishkek  
Kyrgyzstan  
Tel:+996 312 54 60 67  
E-mail: Min-eco@elcat.kg

## **LAO PEOPLE'S DEMOCRATIC REPUBLIC**

Immala INTHABOUALY  
Ministry of Natural Resources and Environment  
Nahaidiew Rd, Ban Sisavath, Vientiane, Lao PDR  
Vientiane Capital  
Lao People's Democratic Republic  
Tel:+85621 265017  
E-mail:inthaboualy@gmail.com

## **LIBERIA**

Arthur GAR-GLAHN  
Delegate  
Liberia Meteorological Service  
Ministry of Transport  
Monrovia  
Liberia  
Tel:+231 886 565 245  
E-mail:agarglahn98@gmail.com

## **LUXEMBOURG**

Andrew FERRONE  
Administration of agricultural technical services  
BP. 1904  
L-1019 Luxembourg  
Luxembourg  
Tel:+352 45 71 72-322  
E-mail: Andrew.Ferrone@asta.etat.lu

## **MADAGASCAR**

Nirivololona RAHOLIJAO  
Meteo Madagascar  
P.O.B 1254  
101-Antananarivo  
Madagascar  
Tel:+261 34 32 817 29  
E-mail:niriraholijao@gmail.com

## **MALAYSIA**

Jaya Singam A RAJOO  
Ministry of Energy, Science, Technology,  
Environment & Climate Change  
Level 5, Block C7, Complex C, 62662  
Putrajaya  
Malaysia  
Tel:603-8885 8690  
E-mail: jayasingam@mestec.gov.my

## **MALDIVES**

Mareer Mohamed HUSNY  
Ministry of Environment and Energy  
Ameenee Magu  
Male  
Maldives  
Tel:+960 7924244  
E-mail: mareer.husny@environment.gov.mv

Ali SHAREEF  
Ministry of Environment  
Ameenee Magu  
Male  
Maldives  
Tel:+9607965626  
E-mail: ali.shareef@environment.gov.mv

## **MEXICO**

María Amparo MARTÍNEZ ARROYO  
National Institute of Ecology and Climate Change  
Anillo Periferico 4209, Jardines en la Montaña,  
14210 Ciudad de Mexico  
Mexico City  
Mexico  
Tel:+52 5554246418  
E-mail: direccion.general@inecc.gob.mx

## **MICRONESIA, FEDERATED STATES OF**

Murukesan VAZHAVELI KRISHNAPILLAI  
College of Micronesia - FSM  
Yap Campus  
Colonia, Yap  
Micronesia, Federated States of  
Tel:+691 3505752  
E-mail:vazhaveli@hotmail.com

## **MONACO**

Benjamin CELLARIO  
Monaco Government  
Place de la Visitation - BP 522  
Monaco  
Monaco  
Tel:+33787413169  
E-mail: bcellario@gouv.mc

## **MONGOLIA**

Sarantuya GANJUUR  
Information and Research Institute of  
Meteorology, Hydrology and Environment  
Chingeltei duureg, Juulchnii gud. 5 NAMEM  
Building  
Ulaanbaatar  
Mongolia  
Tel:+976 11264953  
E-mail:sar\_od@yahoo.com

## **MONTENEGRO**

Pavle DJURASKOVIC  
Institute of hydrometeorology and seismology  
IV Proleterske 19  
Podgorica  
Montenegro  
Tel:+382 20 655 183  
E-mail: pavle.djuraskovic@meteo.co.me

## **MOROCCO**

Omar CHAFKI  
Direction de la Météorologie Nationale  
Boulevard Tayeb Naciri, Hay Hassani- B.P. 8106  
Casa-Oasis; Casablanca  
Casablanca  
Morocco  
Tel:+212522913805  
E-mail:omar\_chafki@yahoo.fr

## **MYANMAR**

Hla TUN  
Department of Meteorology and Hydrology  
Office No. (5), Ministry of Transport and  
Communications  
Naypyitaw  
Myanmar  
Tel:+95673411528  
E-mail:hlatunmr@gmail.com

## **NETHERLANDS**

Bartholomeus STRENGERS  
PBL  
Postbus 303, 3720 ah  
Bilthoven  
Netherlands  
Tel:+31 650614657  
E-mail:bart.strengers@pbl.nl

Rob VAN DORLAND  
KNMI  
Utrechtseweg 297, 3731GA De Bilt  
De Bilt  
Netherlands  
Tel:+31302206775  
E-mail:rob.van.dorland@knmi.nl

Hayo HAANSTRA  
Ministry of Economic Affairs  
Bezuidenhoutseweg 73  
Den Haag  
Netherlands  
Tel:+31703784905  
E-mail:h.j.haanstra@minlnv.nl

## **NEW ZEALAND**

Craig ELVIDGE  
Ministry for Primary Industries  
PO Box 1340  
Rotorua 3010  
New Zealand  
Tel:+61 7 927 5704  
E-mail:Craig.Elvidge@mpi.govt.nz

Helen PLUME  
Ministry for the Environment  
23 Kate Sheppard Place  
Wellington 6143  
New Zealand  
Tel:+64 4 439 7627  
E-mail:helen.plume@mfe.govt.nz

## **NICARAGUA**

Javier GUTIERREZ  
MARENA  
Km 12.5 carretera Norte, frente a Zona Franca  
Managua  
Nicaragua  
Tel:+505 22632870  
E-mail:xaviergut@gmail.com

## **NIGERIA**

Chukwuemeka OKEBUGWU  
Department of Climate Change, Federal Ministry of  
Environment  
Plot 444, Aguiyi Ironsi Street, Green Building  
Maitama Abuja, Nigeria  
Abuja  
Nigeria  
Tel:+234 8064426144  
E-mail:chuksokebugwu@yahoo.com

## **NORWAY**

Aurora STENMARK  
Norwegian Environment Agency  
Grensesvingen 7  
Oslo  
Norway  
Tel:+4740072142  
E-mail:Aurora.Stenmark@miljodir.no

Vigdis VESTRENG  
Norwegian Environment Agency  
Grensesvingen 7  
Oslo  
Norway  
Tel:+4790899054  
E-mail:vigdis.vestreng@miljodir.no

Henrik GADE  
Norwegian Environment Agency  
Grensesvingen 7  
Oslo  
Norway  
Tel:+4741502072  
E-mail:henrik.gade@miljodir.no

Øyvind CHRISTOPHERSEN  
Norwegian Environment Agency  
Grensesvingen 7  
Oslo  
Norway  
Tel:+4797075014  
E-mail:chr@miljodir.no

Ingrid Kleppenes VERNE  
Norwegian Environment Agency  
Grensesvingen 7  
Oslo  
Norway  
Tel:+4794814196  
E-mail:ingrid.kleppenes.verne@miljodir.no

#### **PAKISTAN**

Hussain MUHAMMAD  
Permanent Mission of Pakistan to UN  
56 rue de Moillebeau  
Geneva  
Pakistan  
Tel:+4122 7491930  
E-mail:hussain\_mky74@yahoo.com

#### **PERU**

Carlos GARCÍA  
Foreign Affairs Ministry  
Permanent Mission in Geneva  
Switzerland/Peru  
Tel:+ 41227917720  
E-mail:cgarcia@onuperu.org

#### **POLAND**

Jakub GIBEK  
Ministry of the Environment  
Wawelska St. 52/54  
Warszawa  
Poland  
Tel:+48223692708  
E-mail:jakub.gibek@mos.gov.pl

#### **QATAR**

Ahmed Faleh AL-REMITHI  
Ministry of Municipality and Environment  
Doha  
Qatar  
Tel:+97455500182  
E-mail:afremithi@mme.gov.qa

Mohmoud AL-MARWANI  
Ministry of Municipality & Environment  
P.O Box 7634  
Doha  
Qatar  
Tel:+974 44263776  
E-mail:mamarwani@mme.gov.qa

#### **REPUBLIC OF KOREA**

Myungchul SEO  
National institute of Crop Sciences  
181 Hyeoksin-ro, Iseo-myeon, Wanju-gun  
Jeollabuk-do  
Republic of Korea  
Tel:+82-63-238-5281  
E-mail:mcseo@korea.kr

Jieun PARK  
Korea meteorological Administration  
61 yeouidaebang-ro 16-gil, Dongjak-gu  
Seoul  
Republic of Korea  
Tel:+82-2-2181-0403  
E-mail:jieuni@korea.kr

Yeonchul YOO  
Ministry of Foreign Affairs  
60 Sajik-ro 8-gil, Jonggo-gu, Seoul 03172  
Seoul  
Republic of Korea  
Tel:+82-2-2100-7780  
E-mail:ycyoo87@gmail.com

Raehyun KIM  
National Institute of Forest Science  
57 Hoegiri, Dongdaemun-gu  
Seoul  
Republic of Korea  
Tel:+82-2-961-2871  
E-mail:rhkim@korea.kr

Jaehee JUNG  
Ministry of Foreign Affairs  
60 Sajik-ro 8-gil, Jongno-gu  
Seoul  
Republic of Korea  
Tel:+82-2-2100-7749  
E-mail:jhjung17@mofa.go.kr

Wan Gyu SANG  
National Institute of Crop Sciences  
33 Teulmot 4-gil Deokjin-gu  
Jeonju  
Republic of Korea  
Tel:+82-63-238-5285  
E-mail:wg\_sang@korea.kr

EunJeong LEE  
Korea Meteorological Administration  
61 Yeouodaebang-ro 16-gil, Dongjak-gu  
Seoul  
Republic of Korea  
Tel: +82-2-2181-0392  
E-mail: [ejlee70@korea.kr](mailto:ejlee70@korea.kr)

Junhee LEE  
Korea Meteorological Administration  
61 Yeouodaebang-ro 16-gil, Dongjak-gu  
Seoul  
Republic of Korea  
Tel: +82-2-2181-0401  
E-mail: joon6210@korea.kr

#### **RUSSIAN FEDERATION**

Anna GLADILSHCHIKOVA  
Yu.A. Izrael Institute of Global Climate and  
Ecology  
Glebovskaya Street, 20B  
Moscow  
Russian Federation  
Tel:+7 499 748 3914  
E-mail:anna.igce@gmail.com

Tatiana DMITRIEVA  
Federal Service for Hydrometeorology and  
Environmental Monitoring  
Novovagan'kovsky Street, 12  
Moscow  
Russian Federation  
Tel:+7 499 795 2088  
E-mail:dmtanya@mail.ru

#### **SAINT KITTS AND NEVIS**

Cheryl JEFFERS  
Department of Environment  
Cnr Central and New Street  
Basseterre  
Saint Kitts and Nevis  
Tel:+18694668535  
E-mail:jeffers31@gmail.com

Claire FYSON  
Climate Analytics  
Ritterstr. 3, 10969  
Berlin  
Germany/St. Kitts and Nevis  
Tel: '+4915237321109  
E-mail:claire.fyson@climateanalytics.org

#### **SAO TOME AND PRINCIPE**

João Vicente DOMINGOS VAZ LIMA  
National Institute Of Meteorology  
BP 30 Sao Tome  
Sao Tome  
Sao Tome and Principe  
Tel:+239 2224840  
E-mail:jvicente57@hotmail.com

#### **SAUDI ARABIA**

Ayman SHASLY  
Ministry of Petroleum and Mineral Resources  
P.O.Box 05347  
Dhahran  
Saudi Arabia  
Tel:+96638733255  
E-mail:ayman.shasly@gmail.com

Omar ALMULHEM  
Ministry of Energy, Industry and Mineral  
Resources  
P.O.Box 6369  
Dhahran  
Saudi Arabia  
Tel:+966557376777  
E-mail:Omer.almulhem@meim.gov.sa

Abdullah TAWLAH  
Ministry of Petroleum and Mineral Resources  
P.O.Box 6369  
Dhahran  
Saudi Arabia  
Tel: '+96638800481  
E-mail:abdullah.tawlah@gmail.com

Albara TAWFIQ  
Ministry of Energy, Industry and Mineral  
Resources  
P.O. Box. 6360, Code 31311  
Dhahran  
Saudi Arabia  
Tel:+966504996010  
E-mail:albara\_tawfiq@hotmail.com

Bushra ALHINAI  
Ministry of Energy, Industry and Mineral  
Resources  
P.O.Box 247  
Riyadh  
Saudi Arabia  
Tel: '+966555351304  
E-mail:bushra.hinai@meim.gov.sa

Rawan ALFEHAID  
Ministry of Energy, Industry and Mineral  
Resources  
P.O.Box 247  
RIYADH  
Saudi Arabia  
Tel:+966553799660  
E-mail:alfehaidr@gmail.com

## **SEYCHELLES**

Will AGRICOLE  
Delegate  
Ministry of Environment, Energy and Climate  
Change  
Botanical Garden  
Victoria, Mahe  
Seychelles  
Tel:+2484670500  
E-mail:w.agricole@meteo.gov.sc

## **SLOVAKIA**

Lenka MALATINSKA  
Ministry of Environment of the Slovak Republic  
Nam. L. Stura 1, 812 35  
Bratislava  
Slovakia  
Tel:+421 2 5956 2589  
E-mail:lenka.malatinska@enviro.gov.sk

## **SOUTH AFRICA**

Maesela John KEKANA  
Department of Environmental Affairs  
Private Bax X447  
Pretoria  
South Africa  
Tel:+27123999180  
E-mail:mjkekana@environment.gov.za

Itchell GUINEY  
Department of Environmental Affairs  
Private Bag X 447  
Pretoria 0002  
South Africa  
Tel:+27123999180  
E-mail:IGuiney@environment.gov.za

## **SPAIN**

Pino Maeso ALFONSO  
Ministry of Ecological Transition  
Calle Alcalá 92  
Madrid  
Spain  
Tel:+34914361498  
E-mail:apinomae@miteco.es

Martinez Castro IVAN  
Ministry of Ecological Transition  
C/ Alcalá 92  
Madrid  
Spain  
Tel: +34914361525  
E-mail:imartinez@miteco.es

## **SRI LANKA**

Iukpitiye M.s.p JAYAWARDENA  
Department of Meteorology  
383, Bauddhaloka Mawatha  
Colombo 07  
Sri Lanka  
Tel:+94112676259  
E-mail:shirojaya2000@yahoo.com

## **SUDAN**

Noureldin ABDALLA  
Higher Council for Environment and Natural  
Resources  
HCENR \_ Gamaa street  
Khartoum  
Sudan  
Tel:+249 183 774279  
E-mail:noureldinabdalla2@gmail.com

## **SWAZILAND**

Jabulani HLATSHWAYO  
Eswatini Meteorological Service  
P. O. Box 2652  
Mbabane  
Swaziland  
Tel:+ 26824046274  
E-mail:jhlatshwayo@gmail.com

## **SWEDEN**

Christian AZAR  
Chalmers University of Technology  
SE-412 96 Gothenburg  
Gothenburg  
Sweden  
Tel:+46 31 772 31 32  
E-mail:christian.azar@chalmers.se

Markku RUMMUKAINEN  
SMHI, Swedish meteorological and Hydrological  
Institute  
Folkborgsv. 17  
Norrköping  
Sweden  
Tel: +46114958605  
E-mail:markku.rummukainen@smhi.se

Lena LINDSTROEM  
SMHI, Swedish Meteorological and Hydrological  
Institute  
Folkborgsv. 17  
Norrköping  
Sweden  
Tel:+46 (0)11-4958365  
E-mail:lena.lindstrom@smhi.se

## **SWITZERLAND**

José ROMERO  
Federal Office for the Environment (FOEN)  
Papiermühlestrasse 172  
Berne  
Switzerland  
Tel:+41584626862  
E-mail:Jose.romero@bafu.admin.ch

## **SYRIAN ARAB REPUBLIC**

Sonia AFESA  
Ministry of Local Administration and Environment  
Syrian Arab Republic  
Damascus  
Syrian Arab Republic  
Tel:+963112151572  
E-mail:soniaafesa@yahoo.com

## **TAJIKISTAN**

Nasimjon RAJABOV  
Agency for Hydrometeorology, Committee for  
Environmental Protection  
47 Shevchenko Street  
Dushanbe  
Tajikistan  
Tel:+992372276181  
E-mail:nasim.rajabov@gmail.com

## **THAILAND**

Yuthasart ANULUXTIPUN  
Land Development Department  
2003/61 Phahonyothin Rd. Lard Yao, Chatuchak  
Bangkok  
Thailand  
Tel:+662 579 5546  
E-mail:ayuthasart@gmail.com

## **TOGO**

Kokou SABI  
Université de Lomé  
BP: 1515 FDS-UL  
Lomé  
Togo  
Tel:+228 22 36 39 01  
E-mail:sabikokou@yahoo.fr

## **TRINIDAD AND TOBAGO**

Kenneth KERR  
P.O. Box 2141  
National Mail Center  
Piarco  
Trinidad and Tobago  
Tel:+868 669 4392  
E-mail:k\_kerr45@hotmail.com

## **TURKEY**

Ali Umran KOMUSCU  
Turkish State Meteorological Service  
Kütükçü Alibey Caddesi No:4 06120 Kalaba,  
Keçiören  
Ankara  
Turkey  
Tel:+903122032738  
E-mail:aukromuscu@mgm.gov.tr

Mehmet Latif GULTEKIN  
Ministry of Agriculture and Forestry  
General Directorate of Meteorology Meteoroloji  
Genel Müdürlüğü 2.  
Bölge Müdürlüğü  
İzmir  
Turkey  
Tel:+90232 285 28 50  
E-mail:lgultekin@mgm.gov.tr

Buket AKAY  
Ministry of Environment and Urbanization,  
Eskisehir Devlet Yolu (Dumlupinar Bulvari) 9. km.  
No: 278 Cankaya  
Ankara  
Turkey  
Tel:+903125863164  
E-mail:buket.akay@csb.gov.tr

Cuma UYKUN  
General Directorate of Forestry  
Bestepe Mah Sogutozu cad no 8/1 yenimahalle  
Ankara  
Turkey  
Tel:+903122481784  
E-mail:cumauykun@ogm.gov.tr

## **UGANDA**

James MAGEZI-AKIIKI  
Uganda National Meteorological Authority  
P.O. Box 7025  
Kampala  
Uganda  
Tel:+256 414 259455  
E-mail:mageziakiikibj@yahoo.co.uk

## **UNITED KINGDOM**

Pierre BRENDER  
Department for Business, Energy and Industrial  
Strategy  
1 Victoria Street  
London  
UK  
Tel:+44 2072155753  
E-mail:pierre.brender@beis.gov.uk

Stephen FORDEN  
UK Department of Business, Energy and Industrial  
Strategy  
1 Victoria Street  
London  
UK  
Tel:+44 300 068 2923  
E-mail:stephen.forden@beis.gov.uk

Anna MIKIS  
Department for Environment, Food and Rural  
Affairs  
Seacole Building, 2 Marsham Street, London,  
SW1P 4DF  
London  
UK  
Tel:+44 20 856 54949  
E-mail:anna.mikis@defra.gov.uk

Jolene COOK  
Department for Business, Energy and Industrial  
Strategy  
1 Victoria Street  
London  
UK  
Tel:+44 (0)300 068 5589  
E-mail:jolene.cook@beis.gov.uk

Rhian REES-OWEN  
UK Department of Business, Energy and Industrial  
Strategy  
1 Victoria Street  
London  
UK  
Tel:+44 207 215 1513  
E-mail:rhian.rees-owen@beis.gov.uk

#### **UKRAINE**

Svitlana KRAKOVSKA  
Delegate  
'03028  
Prospekt Nauki, 37  
Kyiv  
Ukraine  
Tel: '+380445258630  
E-mail:Krasvit@ua.fm

#### **UNITED REPUBLIC OF TANZANIA**

Ladislaus CHANGA  
Tanzania Meteorological Agency  
P.O. Box 3056  
Dar es Salaam  
United Republic of Tanzania  
Tel:+255 759349966  
E-mail:ladislaus.changa@meteo.go.tz

#### **UNITED STATES OF AMERICA**

Trigg TALLEY  
U.S. Department of State, OES/EGC  
2201 C St NW, Suite 2480  
Washington  
USA  
Tel:+1 202 647 3984  
E-mail:talleyt@state.gov

Dan KANDY  
Department of State  
2201 C St NW  
Washington DC  
USA  
Tel:+1 (202) 647 4283  
E-mail:KandyDD@state.gov

Alice ALPERT  
US Department of State  
2201 C St NW, Suite 2480  
Washington  
USA  
E-mail:alperta@state.gov

Farhan AKHTAR  
U.S. Department of State  
2201 C St NW, Suite 2480  
Washington  
USA  
E-mail:AkhtarFH@state.gov

Benjamin POULTER  
NASA  
NASA/GSFC  
Greenbeltn MD  
USA  
Tel:+1 301 614 6659  
E-mail:benjamin.poulter@nasa.gov

Eric HAXTHAUSEN  
USAID  
1300 Pennsylvania Ave NW  
Washington DC  
USA  
Tel:+1 (202) 216-3263  
E-mail:ehaxthausen@usaid.gov

Emily WEEKS  
USAID  
1300 Pennsylvania Ave NW  
Washington DC  
USA  
Tel:+1-202-0000000  
E-mail:eweeks@usaid.gov



Noel GURWICK  
USAID  
E3/GCC Room 3.08.121B, 1300 Pennsylvania Ave  
NW  
Washington DC  
United States of America  
Tel:+1 202-712-0574  
E-mail:ngurwick@usaid.gov

#### **URUGUAY**

Felipe GARCÍA OLASO  
Oficina de Programacia y Política Agropecuaria  
del Ministerio de Ganadería, Agricultura y Pesca  
Constituyente 1476  
Montevideo  
Uruguay  
Tel:+ 59824102790  
E-mail:Fgarcia@mgap.gub.uy

#### **UZBEKISTAN**

Raisa TARYANNIKOVA  
The Centre of Hydrometeorological Service of the  
Republic of Uzbekistan  
72, 1st Bodomzor Yuli str., Yunusobod distr.  
Tashkent  
Uzbekistan  
Tel:+998712373511  
E-mail:uzhymet@meteo.uz

#### **VENEZUELA**

Maria Teresa DOS RAMOS SANCHEZ  
Ministerio del Poder Popular para Relaciones  
Exteriores  
Torre MRE, Carmelitas, Caracas  
Caracas  
Venezuela  
Tel:+584125630678  
E-mail:mariaat.dosramos@yahoo.es

Genoveva CAMPOS  
Missionn Permanente de la Republica Bolivariana  
de Venezuela ante la Oficina de las Naciones  
Unidas y demÅjs Organismos Internacionales con  
sede en Ginebra  
18 Chemin Francois Lehmann, 1218  
Grand Saconnex  
Switzerland/Venezuela  
Tel:+41795558425  
E-mail:camposg@onuginebra.gob.ve

#### **YEMEN**

Abdulqader ALKHARRAZ  
Ministry of Water and Environment  
Aden , khormaksar , 22 villa  
Aden  
Yemen  
Tel:+967777479801  
E-mail:k-ecc@hotmail.com

#### **ZIMBABWE**

Elisha Nyikadzino MOYO  
Climate Change Management Department  
Ministry of Lands, Agriculture, Water, Climate and  
Rural Resettlement 11th Floor, Kaguvi Building,  
Corner 4th Street/Central Avenue,  
Harare  
Zimbabwe  
Tel:+2634701681  
E-mail:enmoyo@gmail.com

#### **OBSERVER ORGANIZATIONS**

##### **Climate Action Network International (CAN - I)**

Margaret Ann PUTT  
37 Rocky Bay Rd, Deep Bay, TAS, Australia 7112  
Deep Bay  
Australia  
Tel:+ 61 (418) 127 580  
E-mail:peg.putt@gmail.com

Stephan SINGER  
Rue Albert Delatour 30  
Brussels  
Belgium  
Tel:+32496550709  
E-mail:ssinger@climatenetwork.org

Katherine KRAMER  
35-41 Lower Marsh  
London  
UK  
Tel:+20 7620 4444  
E-mail:kkramer@christian-aid.org

Emma HUTCHINSON  
322 8th Ave, Suite 601, New York, NY 10001  
New York  
USA  
Tel:+1 303-903-0597  
E-mail:ehutchinson@climatenexus.org

Lauren Elise WOLAHAN  
322 8th Ave, Suite 601, New York, NY 10001  
New York  
USA  
Tel:+1 978-621-0619  
E-mail:lwolahan@climatenexus.org

## **COLLEGE OF THE ATLANTIC (UK)**

Doreen STABINSKY  
105 Eden St  
Mount Desert  
United States of America  
Tel:+ 12075188330  
E-mail:doreenstabinsky@gmail.com

## **EUROPEAN CLIMATE FOUNDATION**

Katharine MANSELL  
40 Bermondsey Streety  
London  
UK  
Tel:+44 7814 455639  
E-mail:katharine.mansell@gscnetwork.org

## **EUROPEAN UNION**

Simon KAY  
BU24 04/006  
Brussels  
Belgium  
Tel:+32 229-60763  
E-mail:Simon.KAY@ec.europa.eu

Zoltan RAKONCZAY  
Rue du Champ de Mars 21  
Brussels  
Belgium  
Tel:+32 229-57522  
E-mail:Zoltan.RAKONCZAY@ec.europa.eu

Onelica ANDRADE  
Rue du Champ de Mars 21  
Brussels  
Belgium  
Tel:+32 2 295 56 01  
E-mail:onelica.andrade@ec.europa.eu

Ramos FABIEN  
BU-24 03/023  
Brussels  
Belgium  
Tel:+3222967861  
E-mail:Fabien.RAMOS@ec.europa.eu

Miles PERRY  
Avenue de Beaulieu 24  
Brussels  
Belgium  
Tel: +3222964483  
E-mail:miles.perry@ec.europa.eu

Giacomo GRASSI  
Via Fermi 2749  
Ispra (VA), 21027  
Italy  
Tel:+39 0332 785147  
E-mail:giacomo.grassi@ec.europa.eu

## **GCOS**

Simon EGGLESTON  
Avenue de la Paix, 7 Bis  
Geneva  
Switzerland  
Tel:+41227308272  
E-mail:seggleston@wmo.int

## **GREENPEACE INTERNATIONAL**

Aaron GRAY-BLOCK  
Ottho Heldringstraat 5 1066 AZ  
Amsterdam  
Netherlands  
Tel:+61 437 845 150  
E-mail:aaron.gray-block@greenpeace.org

Reyes TIRADO  
Innovation Centre, Phase 2  
Exeter  
Spain  
Tel:+34685322093  
E-mail:reyes.tirado@greenpeace.org

Christoph THIES  
Besuchereingang ¼ber die Elbarkaden,  
HongkongstraÙe 10, 20457  
Hamburg  
Germany  
Tel:+49 1718831107  
E-mail:christoph.thies@greenpeace.org

Mathias SCHLEGEL  
Rue de Chantepoulet 13  
Geneve  
Switzerland  
Tel:+41797946123  
E-mail:mathias.schlegel@greenpeace.org

## **HEINRICH BOELL FOUNDATION**

Dil Raj KHANAL  
Duwakot, Bhaktapur Rd  
Kathmandu 44601  
Nepal  
Tel:+ 977-1- 6616408  
E-mail:dilcommon@gmail.com

## **RUTGERS UNIVERSITY (USA)**

Serpil GURAN  
1200 Florence Columbus Road  
Bordentown  
USA  
E-mail:sg795@njaes.rutgers.edu

**THIRD WORLD NETWORK (TWN)**

Yvonne Marie MILLER BERLIE  
2nd Floor, 36 Rue de Lausanne  
Geneva 1201  
Switzerland  
Tel: + 41 22 9083550  
E-mail:ymiller@twngeneva.ch

Indrajit BOSE  
J-17, 2nd Floor, Lajpat Nagar Part 3  
New Delhi 110024  
India  
Tel:+ 91 11 4052 1773  
E-mail:boseindrajit@gmail.com

**WWF INTERNATIONAL**

Mandy Jean WOODS  
Reinhardtstrasse 18,  
Berlin  
Germany  
Tel:+4915118854162  
E-mail:mwoods@wwfint.org

Stephen CORNELIUS  
The Living Planet Centre  
Woking, GU21 4LL  
UK  
Tel:+44 (0)1483412390  
E-mail:scornelius@wwf.org.uk

Pablo PACHECO  
1250 24th St NW, Washington, DC 20037  
Washington DC  
USA  
Tel:-7018215  
E-mail:pablo.pacheco@wwf.org

Scott EDWARDS  
Rue Mauverney 28, 1196  
Gland, Switzerland  
UK  
Tel:+44 7887 954116  
E-mail:sedwards@wwfint.org

Pavel KABAT  
World Meteorological Organization (WMO)  
7 bis avenue de la Paix  
Geneva  
Switzerland  
Tel:+41227308100  
E-mail:pkabat@wmo.int

**UNITED NATIONS ENVIRONMENT  
PROGRAMME (UNEP)**

Jian LIU  
P.O. Box 30552  
Nairobi  
Kenya  
Tel:+254 20 7623251  
E-mail:jian.liu@un.org

**UNITED NATIONS FOUNDATION**

Hunter CUTTING  
3150 - 18th Street, Suite 544, Mailbox 309  
San Francisco  
United States of America  
Tel: + 1-415-420-7498  
E-mail:huntercutting@gmail.com

Dean MONICA  
1750 Pennsylvania Avenue NW Suite 300  
Washington DC  
USA  
Tel: '+12028879040  
E-mail:mdean@unfoundation.org

**UNITED NATIONS FRAMEWORK CONVENTION  
ON CLIMATE CHANGE (UNFCCC)**

Iulian Florin VLADU  
Plaz der Vereinten Nationen 1, 53113  
Bonn  
Germany  
Tel:+49 (228)815-1422  
E-mail:fvladu@unfccc.int

Koko WARNER  
UN Campus, Platz der Vereinte Nationen,  
Bonn 53113,  
Germany  
Tel:+49 1578 7020 353  
E-mail:kwarnar@unfccc.int

## REPORT AUTHORS

Dalila NEDJRAOUI  
University of Science and Technology Houari  
Boumediene  
BP 32 El-Alia Bab-Ezzouar  
Algiers  
**Algeria**  
Tel:+213 771 21 61 65  
E-mail:dnedjraoui@yahoo.com

Jason EVANS  
University of New South Wales  
Anzac Pde  
Sydney, NSW 2052  
**Australia**  
Tel:+61 2 9385 7066  
E-mail:jason.evans@unsw.edu.au

Humberto BARBOSA  
Federal University of Alagoas (UFAL)  
Campus A. C. Simões, BR 104 Norte, Maceió<sup>3</sup>,  
Alagoas  
**Brazil**  
Tel:+55 82 9 9999 3043  
E-mail:barbosa33@gmail.com

Denis SONWA  
CIFOR  
2008 , Messa  
Yaounde  
**Cameroon**  
Tel:-8622811  
E-mail:d.sonwa@cgiar.org

Werner KURZ  
Canadian Forest Service, Natural Resources  
Canada  
506 West Burnside Road  
Victoria V8Z 1M5  
**Canada**  
Tel:+12502166787  
E-mail:werner.kurz@canada.ca

Margot HURLBERT  
University of Regina  
2 Research Drive, 3737 Wascana Parkway,  
Regina, SK - S4S 4T7, Canada  
Regina  
**Canada**  
Tel:+3065854232  
E-mail:margot.hurlbert@uregina.ca

Jianguo WU  
Chinese Research Academy of Environmental  
Sciences  
No.8 Da Yang Fang,Bei Yuan,Anwai,Chaoyang  
District,Beijing, China  
Beijing  
**China**  
Tel:+86 10 8491 5152  
E-mail:wujg@craes.org.cn

Yuping BAI  
Chinese Academy of Sciences  
No 11A, Datun Road, Anwai, Beijing, 100101  
China  
Beijing  
**China**  
Tel:+86 1531 1484 247  
E-mail:baiyp.15b@igsrr.ac.cn

Xiyan XU  
Chinese Academy of Sciences  
PO Box 9804, #40 Huayanli, Beijing, 100029  
China  
Beijing  
**China**  
Tel:+86 185 1386 3176  
E-mail:xiyan.xu@tea.ac.cn

Gensuo JIA  
Institute of Atmospheric Physics, Chinese  
Academy of Sciences  
40 Huayanli, Beijing 100029, China  
Beijing  
**China**  
Tel:86 10 8299 5314  
E-mail:jiong@tea.ac.cn

Louis VERCHOT  
International Center for Tropical Agriculture (CIAT)  
Dept Suelos, KM 17 Recta Cali-Palmira, Apartado  
AÃ©reo 6713  
Cali 763537  
**Colombia**  
Tel:+57 311 720 3065  
E-mail:l.verchot@cgiar.org

Jean-francois SOUSSANA  
INRA  
147 rue de l'Université  
Paris 75007  
**France**  
Tel:+33 6 81 17 63 10  
E-mail:jean-francois.soussana@inra.fr

Nathalie DE NOBLET-DUCOUDRE  
Laboratoire des Sciences du Climat et de  
l'Environnement (LSCE)  
Unité Mixte CEA, CNRS, UVSQ, Université de  
Paris-Saclay; Orme des Merisiers, bÃ¢t. 712  
Gif-sur-Yvette Cédex, 91191  
**France**  
Tel:+33 6 79 04 74 66  
E-mail:nathalie.de-noblet@lsce.ipsl.fr

Alex POPP  
Potsdam Institute for Climate Impact Research  
P.O. Box 60 12 03  
Potsdam 14412  
Germany  
Tel:+49-(0)331-288  
E-mail:popp@pik-potsdam.de

Baldur JANZ  
Karlsruhe Institute of Technology  
Room 284, Institute of Meteorology and Climate  
Research, KIT  
Karlsruhe  
**Germany**  
Tel:+49 15158757154  
E-mail:baldur.janz@kit.edu

Almut ARNETH  
Karlsruhe Institute of Technology  
KIT, IMK-IFU, Kreuzeckbahnstr. 19, Garmisch-  
Partenkirchen, 82467  
Bavaria  
**Germany**  
Tel:+49 8821 183131  
E-mail:almut.arneth@kit.edu

Zinta ZOMMERS  
United Nations International Strategy for Disaster  
Risk Reduction (UNDRR)  
7 Old Signal Hill Road,  
Bonn  
**Germany**  
Tel:+491756646936  
E-mail:zommers@un.org

Alisher MIRZABAEV  
University of Bonn  
Walter-Flex-Str. 3, Bonn, North Rhine-Westphalia  
53125, Germany  
Bonn  
**Germany**  
Tel:+49 157 3868 0182  
E-mail:almir@uni-bonn.de

Prajal PRADHAN  
Potsdam Institute for Climate Impact Research  
(PIK)  
P.O. Box 60 12 03  
Potsdam 14412  
**Germany**  
Tel:+49 331 288 2046  
E-mail:pradhan@pik-potsdam.de

Fatima DENTON  
United Nations University  
UNU Institute for Natural Resources in Africa,  
International House, Annie Jiage Road, University  
of Ghana, Legon Campus  
Accra  
**Ghana**  
Tel:+251 115445427  
E-mail:denton@unu.edu

Jagdish KRISHNASWAMY  
Ashoka Trust for Research in Ecology and the  
Environment (ATREE)  
ATREE, SRIRAMAPURA, JAKKUR POST  
BANGALORE 560064, INDIA  
Bangalore  
**India**  
Tel:+9980 96 1616  
E-mail:jagdish@atree.org

Chuck Chuan NG  
Quest International University Perak (QIUP)  
121 Jalan Bidara 3/6, Taman Bidara, Selayang  
Batu Caves, 68100 Selangor Darul Ehsan,  
**Malaysia**  
Tel:+601 6462 6466  
E-mail:chuckz89@gmail.com

Soojeong MYEONG  
Korea Environment Institute  
# 1027 Korea Environment Institute, Sejong  
National Research Complex Building B, Sicheong-  
daero 370  
Sejong 30147  
**Republic of Korea**  
Tel:+82 1083 150 350  
E-mail:sjmyeong@gmail.com

Thobekile ZIKHALI  
Human Sciences Research Council  
HSRC Bldg, 134 Pretorius St, Arcadia,  
Pretoria, 0083  
**South Africa**  
Tel:+12 3022727  
E-mail:tzikhali@hsrc.ac.za

Lennart OLSSON  
Lund University  
LUCSUS, Box 170, Lund 22100, Sweden  
Lund  
**Sweden**  
Tel:46 46 2220 1511  
E-mail:lennart.olsson@lucsus.lu.se

Mariama WILLIAMS KAMARA  
South Centre  
Chemin du Champ d'Anier 17-19 POB 228  
Geneva  
**Switzerland**  
Tel:+41 22 7918050  
E-mail:williams@southcentre.int

Edouard DAVIN  
EHT Zurich  
Universitaetstrasse 16  
Zurich 8092  
**Switzerland**  
Tel:+41 44 632 80 77  
E-mail:edouard.davin@env.ethz.ch

Aziz ELBEHRI  
Food and Agriculture Organization of the United Nations (FAO)  
39 Phra Atit Road  
Bangkok 10200  
**Thailand**  
Tel:+66 2 697 4273  
E-mail:Aziz.elbehri@fao.org

Pete SMITH  
University of Aberdeen  
IBES, 23 St Machar Drive, Aberdeen AB24 3UU  
Aberdeen  
**UK**  
Tel:+44 1224 272702  
E-mail:pete.smith@abdn.ac.uk

Joanna Isobel HOUSE  
University of Bristol  
University Road,  
Bristol BS8 1SS  
**UK**  
Tel:+44 7986 860 335  
E-mail:jo.house@bristol.ac.uk

Mark ROUNSEVELL  
University of Edinburgh  
Institute of Geography, Drummond Street  
Edinburgh EH8 9XP  
**UK**  
Tel:+44 (0) 131 651 4468  
E-mail:mark.rounsevell@kit.edu

Tim BENTON  
University of Leeds,  
Woodhouse Lane,  
Leeds  
**UK**  
Tel:+44 79761 56262  
E-mail:t.g.benton@leeds.ac.uk

Cheikh MBOW  
START International  
1440 G Street NW, Report Authors  
Washington DC, 20005  
**USA**  
Tel:+1 202 644 1101  
E-mail:cheikhmbow04@gmail.com

Erik CONTRERAS  
Columbia University  
Center for Climate Systems Research, 2880  
Broadway, New York, NY 10025  
New York  
**USA**  
Tel:+19179626608  
E-mail:eam2215@columbia.edu

Elena SHEVLIKOVA  
National Oceanic and Atmospheric Administration  
201 Forrestal Road, Princeton, NJ 8540, USA  
Princeton  
**USA**  
Tel:'001 609 452 6585  
E-mail:elena.shevliakova@noaa.gov

Cynthia ROSENZWEIG  
NASA GISS  
2880 Broadway, New York, NY 10025, USA  
New York  
**USA**  
Tel:212 678 5562  
E-mail:crr2@columbia.edu

Katherine CALVIN  
Pacific Northwest National Laboratory  
5825 University Research Court, Suite 3500,  
College Park, Maryland 20740, USA  
Maryland  
**USA**  
Tel:+1 301 314 6744  
E-mail:katherine.calvin@pnnl.gov

Pamela MCELWEE  
Rutgers University  
55 Dudley Road,  
New Brunswick, NJ 08901-8520,  
**USA**  
Tel:+14802520999  
E-mail:pdmcelwee@gmail.com

## **TECHNICAL SUPPORT UNITS AND TASK GROUP**

Anna PIRANI  
IPCC WGI Head of TSU  
Str. Costiera, 11  
Trieste  
Italy

Tel:+39 040 224 0111  
E-mail:anna.pirani@universite-paris-saclay.fr

Baiquan ZHOU  
WGI TSU  
Chinese Academy of Meteorological Sciences,  
No.46 Zhongguancun Nandajie, 100081  
Beijing  
China  
E-mail:zhoubq@cma.gov.cn

Mengtian HUANG  
WGI TSU  
Chinese Academy of Meteorological Sciences,  
No.46 Zhongguancun Nandajie, 100081  
Beijing  
China  
E-mail:mengtianhuang@pku.edu.cn

Melissa GOMIS  
WGI TSU  
route de l'orme des Merisiers  
St Aubin  
France  
Tel:+ 33 000000  
E-mail:melissa.gomis@universite-paris-saclay.fr

Lena GURRIARAN  
WGI TSU  
Technoparque de Saint Aubin  
Gif sur Yvette, Paris  
France  
Tel:+'33665786113  
E-mail:lana.gurriaran@ens.fr

Sarah CONNORS  
WGI TSU  
Route de l'orme des Merisiers  
Saint Aubin  
France  
Tel:'0033679087723  
E-mail:sarah.connors@universite-paris-saclay.fr

Melinda TIGNOR  
IPCC WGII Head of TSU  
Markstrasse 3  
Bremen  
Germany  
Tel:+49 471 4831 2442  
E-mail:melinda.tignor@ipcc-wg2.awi.de

Bardhyl RAMA  
IPCC WGII Head of TSU (Operations)  
Markstrasse 3  
28195 Bremen  
Germany  
Tel:+49 471 4831 2438  
E-mail:bardhyl.rama@ipcc-wg2.awi.de

Maike NICOLAI  
WGII TSU  
Marktstrasse 3  
Bremen  
Germany  
Tel:+'4947148312445  
E-mail:maike.nicolai@ipcc-wg2.awi.de

Elvira POLOCZANSKA  
WGII TSU  
Alfred-Wegener-Institut  
Markstrasse 3, 28195 Bremen  
Bremen  
Germany  
Tel:+49 471 4831 2443  
E-mail:elvira.poloczanska@ipcc-wg2.awi.de

Jan PETZOLD  
WGII TSU  
Markstrasse 3  
28195 Bremen  
Germany  
Tel:+49 417 4831 2446  
E-mail:jan.petzold@ipcc-wg2.awi.de

Raphael SLADE  
IPCC WGIII Head of TSU  
Imperial College London  
IPCC WG III Technical Support Unit C/o Centre for  
Environmental Policy Imperial College London 13  
Princes Gardens London SW7 1NA UNITED  
KINGDOM  
London  
UK  
Tel:+44 (0)20 7594 7306  
E-mail:r.slade@ipcc-wg3.ac.uk

Purvi VYAS  
WGIII TSU  
Ahmedabad University  
Room # 328 GICT Building  
Ahmedabad  
India  
Tel:+91 9974377011  
E-mail:purvi.vyas@ahduni.edu.in

Minal PATHAK  
WGIII TSU  
Global Centre for Environment and Energy,  
Ahmedabad University  
Navrangpura  
Ahmedabad  
India  
Tel:+91 79 61911326  
E-mail:m.pathak@ipcc-wg3.ac.uk

Eamon HAUGHEY  
WGIII TSU  
Trinity College Dublin  
Botany Department  
Dublin 2  
Ireland  
Tel:+353 (0)18963740  
E-mail:EHAUGHEY@tcd.ie

Joana PORTUGAL PEREIRA  
WGIII TSU  
Imperial College, 14 Princes Gardens, London  
SW7  
London  
UK  
Tel:+44 20 759 46838  
E-mail:j.portugal@ipcc-wg3.ac.uk

Renee VAN DIEMEN  
WGIII TSU  
Imperial College London  
IPCC WG III Technical Support Unit C/o Centre for  
Environmental Policy Imperial College London 13  
Princes Gardens London SW7 1NA UNITED  
KINGDOM  
London  
UK  
Tel:+44 (0)20 7594 1037  
E-mail:renee.van-diemen14@imperial.ac.uk

Sigourney LUZ  
WGIII TSU  
Imperial College  
16-18 Princes Gardens  
London  
UK  
Tel:+44 20 7594 7377  
E-mail:s.luz@ipcc-wg3.ac.uk

Maria Eugenia GABAO LISBOA  
WG III TSU  
Imperial College  
16-18 Prince&#039;s Gardens  
London  
UK  
Tel:+44 20 7594 8804  
E-mail:g.lisboa@ipcc-wg3.ac.uk

Malek BELKACEMI  
WGIII TSU  
Imperial College London  
IPCC WG III Technical Support Unit C/o Centre for  
Environmental Policy Imperial College London 13  
Princes Gardens London SW7 1NA UNITED  
KINGDOM  
London  
UK  
Tel:+44 (0)20 7594 1056  
E-mail:m.belkacemi@ipcc-wg3.ac.uk

Juliette MALLEY  
WG III TSU  
Imperial College London  
IPCC WG III Technical Support Unit C/o Centre for  
Environmental Policy Imperial College London 13  
Princes Gardens London SW7 1NA UNITED  
KINGDOM  
London  
UK  
Tel:+44 (0)20 7594 9958  
E-mail:j.malley@ipcc-wg3.ac.uk

Katie KISSICK  
IPCC WGIII Head of TSU (Operations)  
Imperial College London, 14-16 Princes Gardens  
London  
UK  
Tel:+44 207 594 1057  
E-mail:k.kissick@ipcc-wg3.ac.uk

Sandro FEDERICI  
Head, TFI TSU  
C/o Institute for Global Environmental Strategies  
(IGES)  
2108-11 Kamiyamaguchi, 240-0115  
Hayama  
San Marino  
Tel:+81 46 855 3754  
E-mail:federici@iges.or.jp

#### **IPCC SECRETARIAT**

Abdalah MOKSSIT  
Secretary of the IPCC  
7bis av. de la Paix  
Geneva  
Switzerland  
Tel.+4122 730 8574  
E-mail: amokssit@wmo.int

Kerstin STENDAHL  
Deputy Secretary of the IPCC  
7bis Av. de la Paix  
Geneva 1211  
Switzerland  
Tel.+41 22 7308053  
E-mail: kstendahl@wmo.int



Sophie SCHLINGEMANN  
7bis Av. de la Paix  
1211 Geneva  
Switzerland  
Tel.+ 4122 730 8533  
E-mail: [sschlingemann@wmo.int](mailto:sschlingemann@wmo.int)

Judith EWA  
7bis Avenue de la Paix  
Geneva  
Switzerland  
Tel.+ 4122 730 8087  
E-mail: [jewa@wmo.int](mailto:jewa@wmo.int)

Jonathan LYNN  
7bis Avenue de la Paix  
Geneva  
Switzerland  
Tel.+ 4122 730 8066  
E-mail: [jlynn@wmo.int](mailto:jlynn@wmo.int)

Jesbin BAIDYA  
7bis Avenue de la Paix  
1211 Geneva  
Switzerland  
Tel.+4122 730 8516  
E-mail: [jbaidya@wmo.int](mailto:jbaidya@wmo.int)

Mxolisi E SHONGWE  
7bis Av. de la Paix  
1211 Geneva  
Switzerland  
Tel.++4122 730 8438  
E-mail: [mshongwe@wmo.int](mailto:mshongwe@wmo.int)

Werani ZABULA  
7bis Av. de la Paix  
1211 Geneva  
Switzerland  
Tel.+4122 730 8120  
E-mail: [wzabula@wmo.int](mailto:wzabula@wmo.int)

Laura BIAGIONI  
7bis Av. de la Paix  
1211 Geneva  
Switzerland  
Tel.++4122 730 8522  
E-mail: [lbiagioni@wmo.int](mailto:lbiagioni@wmo.int)

Annie COURTIN  
7bis Av. de la Paix  
12 Geneva  
Switzerland  
Tel.++4122 730 8284  
E-mail: [acourtin@wmo.int](mailto:acourtin@wmo.int)

Joelle FERNANDEZ  
7bis Av. de la Paix  
1211 Geneva  
Switzerland  
Tel.++4122 730 8254  
E-mail: [jfernandez@wmo.int](mailto:jfernandez@wmo.int)

Nina PEEVA  
7bis Av. de la Paix  
Geneva  
Switzerland  
Tel.++41 22 730 8120  
E-mail: [npeeva@wmo.int](mailto:npeeva@wmo.int)

Jin Mi KIM  
Secretariat  
Korea University  
16-gil 61 Yeouidaebangro, Dongjak-gu  
Seoul  
Republic of Korea  
Tel:+82 2 835 1363  
E-mail: [solmy1023@gmail.com](mailto:solmy1023@gmail.com)

#### **CONFERENCE OFFICER**

Elhousseine GOUAINI  
WMO  
7bis Avenue de la Paix  
Geneva  
Switzerland  
Tel.+4122 7308060  
E-mail: [egouaini@wmo.int](mailto:egouaini@wmo.int)

#### **ENB REPORTING SERVICES**

Maria GUTIERREZ  
IISD (ENB)  
40 Barrow street  
New York  
USA  
Tel:+7 985 480 6715  
E-mail: [maria@iisd.org](mailto:maria@iisd.org)

Leila MEAD  
IISD Reporting Services (ENB)  
300 East 56th St. Apt 11D  
New York NY 10022  
USA  
Tel:+7 985 480 6715  
E-mail: [leila@iisd.org](mailto:leila@iisd.org)

Deborah DAVENPORT  
IISD Reporting Services (ENB)  
300 East 56th Street Apt 11D  
New York  
USA  
E-mail:deborah@iisd.org

Michail MOUZOURAKIS  
IISD Reporting Services (ENB)  
300 East 56th Strett, Apt 11D  
New York  
USA  
Tel: +306976064596  
E-mail:mike@iisd.org