

# SR1.5 LAM1 Meeting Summary

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## Introduction

This report summarizes the First Lead Author Meeting (LAM1) for the IPCC Special Report on Global Warming of 1.5°C (SR1.5). The LAM1 was held in São José dos Campos, Brazil on 6-10 March 2017, hosted by the kind invitation of the government of Brazil through the Ministry of Foreign Affairs and the National Institute for Space Research (INPE).

A scoping meeting to develop the outline for SR1.5 was held in Geneva, Switzerland, from 15-18 August 2016 and attended by 130 experts and IPCC Bureau members. The proposed outline was then refined and approved in the IPCC Plenary 44th Session in Bangkok, Thailand. This resulted in the outline comprising 5 chapters with indicative bullets on which an open call was issued for author nominations. The 86 scientific, technical and socio-economic [experts](#) from 39 countries, have initiated work on the Special Report, which will be completed in September 2018. The experts have the task of initiating the best and most comprehensive assessment of the status of knowledge on the climate system with respect to a warming of 1.5°C.

The report is prepared under the joint supervision of the Co-Chairs of Working Group (WG) I, II and III and is supported by the WGI Technical Support Unit (TSU)

The overarching goal of the LAM1 was to initiate the preparation of detailed chapter plans of an internal SR1.5 draft due to be submitted to the WGI TSU by 09 April 2017. During this first of four LAMs, the chapter teams were charged with identifying key issues, design an outline of each chapter, discuss options for treating cross-cutting topics between chapters and other IPCC products, and plan the author team's work in preparing the draft chapter content.

The SR1.5 has an unprecedented level of integration Working Groups with multiple disciplines represented in each chapter. Authors will need to identify potential overlaps with the other IPCC AR6 Special Reports and WG reports and they will need to monitor and assess the availability of the literature that is focused on, or relates to, a global warming of 1.5 °C.

This summary highlights structure and main outcomes of the LAM1, the next steps to be taken before the second LAM (LAM2) that will be held in Exeter, UK on 5-9 June 2017, the resources available to authors, and the lessons learned from the first LAM held in the sixth assessment cycle of the IPCC.

## Meeting Structure

Daily briefings between the Co-Chairs and the CLAs occurred every morning. The rest of the meeting was split into four main session types with some of the main highlights noted here.

### Plenaries

Plenary sessions were staggered throughout the LAM1. These provided introductory information to authors, stock-taking of the chapter sessions, and concluding remarks which described the next steps of the SR15 process.

#### *Monday*

The welcoming plenary session, by Valérie Masson-Delmotte, Co-chair of WGI, highlighted the main goals for the meeting:

- a detailed outline for each chapter be determined;



- contributing authors be identified where expertise were missing;
- potential figures, boxes and case studies be discussed;
- identify possible Frequently Asked Questions;
- suggest potential expert reviewers for each chapter.

Anna Pirani, Head of the WGI Technical Support Unit (TSU), highlighted the IPCC guidelines on confidentiality, and communicating to the media and public, both are explained in further detail in the Available Resources for Authors Section of this document.

### *Wednesday*

Wednesday 08 March was International Women's Day. In Plenary Session IV, Diana Livermann, LA in Chapter 5, presented results from a survey which collected women's experiences from AR5 and asked for authors to contribute names to the [Women and Climate Change](#) Wikipedia webpage.

### *Thursday*

Wilfran Moufouma Okia, WGI Head of Science, presented a summary of [the IPCC Guidance on the use of calibrated certainty language in the assessment and use of literature](#), in Plenary Session VI. The presentation on the use of uncertainty language was supported by a panel of representatives of WGI, II and III with experience in the AR5, SREX and SYR. The panellists, Jan Fuglestedt, Kristie Ebi, Wolfgang Kramer and Elmar Kriegler, shared their experiences from AR5.

The guidance on assessing literature was explained. For peer-reviewed literature, the following cut-off dates were agreed by the CLAs and Co-Chairs:

- Submission for peer-review prior to Second Order Draft review - cut-off date: 1st November 2017.
- Accepted for publication prior to the Final Draft review - cut-off date: 15 May 2018.

For the use of non-peer reviewed, 'grey' literature, authors are requested to:

- Critically assess the quality, robustness and validity of the information they wish to include
- Critically assess the added value of the literature
- Send copy of the source to be used in the IPCC WGI TSU

Literature needs to be accessible by reviewers of the report - the WGI TSU will provide an archive of the documents that are cited.

Hans Porter, WGII Co-Chair, presented an introduction to the [Frequently Asked Questions \(FAQs\)](#) found in each IPCC report. FAQs provide information on issues of broad interest at the level of the informed adult public and are understandable to non-technical readers. They are drafted by the LAs and are edited by a professional science writer. FAQs are topically embedded in the appropriate chapter but the set of FAQs across the chapters ideally form a coherent storyline.

These presentation slides can be found [here](#).

### *Friday*

CLAs from the five chapters presented their outlines in Plenary Session VII (see next section). Valérie Masson-Delmotte concluded the meeting by highlighting the next steps and key dates that authors

need to be aware of in the SR15 process. Further details on this can be found in Next steps Section of this document.

All plenary presentations are available to authors through the [Paper Smart system](#).

## Chapter sessions

Chapter session allowed CLAs and LAs to discuss and organise their chapter outlines in a confidential setting. A designated TSU member from the three WGs were present in each chapter to record minutes and answer technical questions, if the authors desired. Links to the final chapter outlines, which were presented at Plenary, are provided below (available on Paper Smart).

- [Chapter 1: Framing and context](#)
- [Chapter 2: Mitigation pathways compatible with 1.5°C in the context of sustainable development](#)
- [Chapter 3: Impacts of 1.5°C global warming on natural and human systems](#)
- [Chapter 4: Strengthening and implementing the global response of the threat of climate change](#)
- [Chapter 5: 1.5 °C sustainable development poverty eradication and reducing inequalities](#)

## Cross-chapter break-out groups

Six cross-chapter issues were identified in Plenary to be discussed in break out groups (BOGs). Each group discussed how each chapter would coordinate and address each issue. The sessions were chaired by the WG Vice-Chairs present at the LAM1 and a participant of each group volunteered to be rapporteur, including presenting the outcomes of the BOGs in Plenary Session V. Links to these presentation are shown below (available on Paper Smart).

- [The social dimension, human settlements and cities](#) – presented by Abdul Halim, Chapter 5 Human settlements and how they are changing both impact and are impacted by climate change. SR 1.5 should not just address human settlements in cities but also in other areas, e.g. marginal, indigenous, small islands. A potential figure showing a map of temperature changes with embedded populations could be constructed by chapters 1, 3, 4. SSP's do not consider urbanisation and this should be noted when addressing emission trends.

- [Sources of knowledge](#) – Presented by Riyanti Djalante, Chapter 3 Knowledge issues and needs were addressed for each chapter including why knowledge and the process of knowing is still problematic. Integrating differently sourced knowledge should be made clear within Chapter 1 of the report.

- [Equity and costs](#) – Presented by Bronwyn Hayward, Chapter 5 The objective in the SR is to highlight multidimensional costs and benefits, beyond a narrow framing of economic costs, including non-monetised costs, (e.g. for ecosystems, sustainable development, human health, culture & society) and the non-monetarised benefits and co-benefits.

- [Interpretation of 1.5°C and consistent pathways](#) – Presented by Mikiko Kainuma, Chapter 1 This BOG discussed the coordination of the Interpretation of 1.5°C and consistent pathways between chapters. Pathways can be classified by different definitions (e.g. stabilisation / transient, probability of staying below 1.5°C, overshoot, base year). These need to be consistent within the chapters.

- [Risk perspectives and treatment of uncertainty in the context of adaptive decision making](#) – Presented by Debora Ley, Chapter 4

The SR needs to harmonize definitions and treatments of uncertainties, confidence and risks across chapters, based on IPCC guidelines and AR5 definitions. How to deal with evolving risk over multiple timescales in the context of adaptive decision-making must also be decided. There needs to be (at least one) point of communication within each chapter and a contact group should be established for subsequent LAMs.

- [Solar Radiation Management](#) – Presented by Taishi Sugiyama, Chapter 4

Solar Radiation Management (SRM) may be needed to achieve a global warming of 1.5°C and so should be assessed in this SR. How this topic should be addressed in each chapter was decided. There will also be a contact group established for this cross-cutting chapter topic.

## Informal Question and Answer (Q&A) Sessions

Three informal Q&A sessions were held throughout the week as an opportunity for authors new to the IPCC process to ask any questions, for example on the IPCC process and procedures and on the science-policy context of IPCC assessments. The sessions were chaired by Co-Chairs and Vice-Chairs and supported by the Heads of TSUs. Introductory documents aimed to support new IPCC authors are listed below. Resources for all IPCC authors are listed in the Available Resources for Authors Section.

- [Structure of the IPCC](#)
- [List of IPCC acronyms](#)
- [Overview of the roles of CLAs, LAs and REs](#)
- [Background document for the SR15 scoping meeting](#)
- [Special Report on global warming of 1.5°C annotated outline](#)

## Next Steps

The internal draft must be submitted to the WGI TSU by 09 April 2017. This draft should consist of a detailed outline of each chapter of the SR. Chapter teams should screen the available literature, assess what may be assessed in depth and consider the **policy relevance, avoiding** the tendency of to write a text book. Authors will work from this internal draft and subsequent ones towards the assessment of the Special Report. The internal draft may include placeholders for text, and ideas of figures, tables, boxes.

This table highlights the next steps required of the CLAs and LAs before the LAM2 in June.

	<i>Deadline</i>
Names of potential expert reviewers	17 March (co-chair decision 24 March)
Internal draft	09 April
Ideas for Frequently Asked Questions (FAQs)	21 April
Internal draft review	17 April – 12 May

Receive review comments	21 May
Second Lead Author Meeting (LAM2, <i>Exeter, UK</i> ) including 1 day Summary for Policymakers (SPM) drafting author meeting	05 – 09 June

The key dates for further into the SR15 process are shown below.

	<i>Key Dates</i>
First Order Draft (FOD) expert review	31 July – 24 September 2017
Third Lead Author Meeting (LAM3, <i>Malmö, Sweden</i> )	23 – 29 October 2017
Cut-off date for papers to be submitted to be included in the Second Order Draft	01 November 2017
Second Order Draft (SOD) expert and Government review	05 January – 25 February 2018
Fourth Lead Author Meeting (LAM4, <i>TBC</i> )	09 – 15 April 2018
Cut-off date for papers to be accepted to be included in the Final Draft	15 May 2018
Final Government Review of SPM	04 June – 29 July 2018
Acceptance at IPCC Plenary 48	24 – 30 September 2018

## Lessons Learned during LAM1

- What should the role of the Bureau members and vice-chairs be in future LAMs?
- Having Science Officers in the chapter meetings provided support to the group. Should this be adopted for future LAMs or for LAM1 of the other special reports?
- Session for new authors at the beginning of the LAM, not just during?
- The need for mentoring of new authors to the IPCC process? How can they be more efficiently integrated? Perhaps a specific tutorial on the IPCC process? Guidelines on the principles of the IPCC?
- Future recommendations for making sure the chapters coordinate together?
- Recommendations that Bureau members should be REs and whether they should get involved with chapter sessions (some authors were in favour of this, some weren't).
- Q&A sessions had positive feedback, should they be repeated?
- Interactions between the TSU members and Bureau members were good.
- Need to allocate more time for discussion (particularly cross-cutting issues and uncertainty) in future LAMs. Should there be a contact group(s) to address these? Maybe have a tutorial to discuss uncertainty in LAM2, as people will be more actively thinking about this then.

## Resources for Authors

The WGI TSU has updated where necessary and assembled guidance documents and resources that will be used by the SR1.5 authors. All links to documents and other LAM1 meeting materials can be found here: <http://wg1.ipcc.ch/SR/SR15.html>

### Guidelines on the use of uncertainty language

In addition to the summary presented during the meeting, the IPCC has a full guide to dealing with the use of the calibrated uncertainty language, available in the IPCC website or directly through the links below.

- [Wilfran Moufouma Okia's Presentation slides on uncertainty guidance and non-peer reviewed literature](#)
- [Guidance Note for Lead Authors of the IPCC Fifth Assessment Report on Consistent Treatment of Uncertainties](#)
- [Annex A to Guidance note for Lead Authors of the IPCC Fifth Assessment Report on Consistent Treatment of Uncertainties](#)

### Confidentiality

All drafts are confidential and should not be cited, quoted or distributed including when sent for expert and government review.

- LAMs are closed fora. Discussions remain confidential and related documents including notes, emails and preliminary versions of text or figures are not public; they should not be cited, quoted or distributed.
- The WGI TSU provides 'confidential' chapter emailing lists but authors should consider all email exchange to be potentially public.

On completion of the Report, the drafts provided for formal review, the review comments submitted on those drafts, and the chapter team responses are made publicly available and are retained in an open archive

- [IPCC Guidance note on Confidentiality](#)

### Communications with Media & Public

Role as scientist and IPCC role (e.g. CLA, LA, RE) should be kept separate. Refrain from communicating on implications of research for the assessment, this is a Conflict of Interest.

- Clarify that when speaking you are providing your own views, not those of the IPCC and not prejudging the outcome of the assessment. IPCC role does not give a mandate to speak on behalf of the IPCC
- Relationship of trust within LAM participants for free internal exchange and discussion. Do not provide information on content, nor comment or give your personal impressions of LAMs

The role of authors in communicating the outcomes of the assessment will be crucial once the SPM is approved. For more information please read the guidance note on communicating with the media and the public below.

- [Guidance note on communicating with the media and the public](#)

## Writing tools

### *Style Guide*

The document below provides the specifications for preparation of draft chapters by the author teams. It describes how text, figures, tables, boxes, FAQs and references should be structured.

- [http://wg1.ipcc.ch/SR/documents/IPCC\\_SR15\\_StyleGuide.pdf](http://wg1.ipcc.ch/SR/documents/IPCC_SR15_StyleGuide.pdf)

### *Chapter Template*

A Microsoft Word chapter template can be found through the link below.

- <https://view.officeapps.live.com/op/view.aspx?src=http://wg1.ipcc.ch/SR/documents/IPCCSR15ChapterTemplate.docx>

### *IPCC Visual Guidelines*

The document linked below describes the visual identity guidelines of the IPCC, i.e. which RGB colour codes should be used in IPCC documents, how the IPCC figures should be used.

- [http://wg1.ipcc.ch/SR/documents/ipcc\\_visual-identity\\_guidelines.pdf](http://wg1.ipcc.ch/SR/documents/ipcc_visual-identity_guidelines.pdf)

### *Mendeley*

Mendeley is a freely available referencing software that the IPCC will use throughout AR6. Each report chapter will have a shared reference folder (set up by the WGI TSU) to store literature references. Please note that PDFs of literature should not be stored in these folders due to limited storage space. PDFs should be shared via Document Manager or downloaded individually through the UNEP library (see next section). An introductory guide to Mendeley has been written by the WGI TSU and is available through the link below.

- [http://wg1.ipcc.ch/SR/documents/SR1.5%20Guide\\_to\\_Referencing\\_with\\_Mendeley.pdf](http://wg1.ipcc.ch/SR/documents/SR1.5%20Guide_to_Referencing_with_Mendeley.pdf)

### *Document Manager*

Document Manager is a version control software developed by the IPCC Secretariat. It allows authors to download the most recent version of a chapter section to edit offline. Once finished the author can upload the new version for others to see. An introductory guide to Document Manager has been written by the WGI TSU and is available through the link below.

- [http://wg1.ipcc.ch/SR/documents/Document\\_Manager\\_User\\_Guide.pdf](http://wg1.ipcc.ch/SR/documents/Document_Manager_User_Guide.pdf)

## UNEP library for access to literature

- [Guidance note on the use of literature in IPCC reports \(under preparation\)](#)

## SR 1.5 specific resources

- [SR1.5 list of authors](#)
- [SR1.5 Scoping meeting background document](#)

- [Information note on the organization of the scoping meeting \(submitted to the 44th Session of the IPCC\)](#)
- [Special Report on 1.5°C scoping meeting \(Please select the scoping tab\)](#)
- [SR1.5 approved outline](#)
- [LAMI Information Booklet](#)
- [Agenda](#) – Also found in the Appendix of this report

## Points of Contact

The support and coordination for the preparation of the SR1.5 is managed by the WGI TSU. Please see the following points of contact:

General SR1.5 enquires, CLA/Co-Chairs' liaison	Anna Pirani, Head WGI TSU	anna.pirani@universite-paris-saclay.fr
Use of uncertainty language, use of literature, cross-chapter issues	Wilfran Moufouma-Okia, Head of Science	wilfran.moufouma-okia@universite-paris-saclay.fr
Chapter support	Sarah Connors, Science Officer	sarah.connors@universite-paris-saclay.fr
IT and e-tools	Tim Waterfield, IT Officer	tim.waterfield@universite-paris-saclay.fr
Operations and logistics	Clotilde Péan, Head of Operations	clotilde.pean@universite-paris-saclay.fr

For issues specifically concerning WGII or WGIII science:

WGII Topics	Nadine Andrews, Science Officer, WGII TSU	nadine.andrews@ipcc-wg2.awi.de
WGIII Topics	Joana Portugal Pereira, Senior Scientist, WGIII TSU	j.portugal@imperial.ac.uk

# Appendix

## LAM1 Agenda

### Day 0: Sunday, 5 March 2017

- 14:00 Co-Chairs and TSU preparatory meeting (*Hotel Golden Tulip - Room Jardim do Golfe*)  
19:00 Co-Chairs and TSU Dinner (*Deveessa Restaurant*)

### Day 1: Monday, 6 March 2017

- 08:30-09:00 CLA and Co-Chairs Meeting 1 (*Training Room 1 - LIT Building*)

#### OPENING PLENARY (*Auditorium Mendonçat - LIT Building*)

- 09:00-10:00 Welcome and Opening
- Thelma Krug – IPCC Vice Chair
  - Geilson Loureiro - Head of Laboratory of Integration and Tests
  - Ricardo Galvao – Director of INPE
  - Felipe Ferreira - Head of the Division of Climate, Ozone and Chemical Safety, from the Ministry of Foreign Affairs
  - Marcio Rojas - General Coordinator of Climate at the Secretary of Policies and Programs of Research and Development, from the Ministry of Science, Technology, Innovation and Communications
- 10:00-10:30 Coffee Break (*Atrium Space - LIT building*)  
Restaurant tickets sale (*Atrium Space - LIT building*)
- 10:00-10:30 Press Briefing (*Auditorium Honiat – LIT Building*)
- 10:30-10:45 Group photo

#### PLENARY SESSION I (*Auditorium Mendonçat - LIT Building*)

Chairs: Debra Roberts and Jim Skea

Facilitator: Melinda Tignor

Rapporteur: Anna Pirani

- 10:45-12:00 Introduction to SR1.5, background, context within the AR6 cycle, LAM  
*Valerie Masson-Delmotte*  
SR1.5 Support and IPCC Process - *Anna Pirani*  
Questions and Discussion
- 12:00-12:30 Informal Q&A Session (Co-Chairs and TSU)
- 12:30-14:00 Lunch (*INPE Restaurant*)

#### PLENARY SESSION II (*Auditorium Mendonçat - LIT Building*)



Chairs: Hans Pörtner and Panmao Zhai

Rapporteur: Anna Pirani

Facilitator: Melinda Tignor

- 14:00-14:15 Context/Guidance for Objectives of Monday PM  
*Hans Pörtner*  
Chapter Presentations [10 min presentations from CLA(s) of each chapter on emerging science and overall vision for the chapter plus 5 min clarification questions]:
- 14:15-14:30 Chapter 1: Framing and context
- 14:30-14:45 Chapter 2: Mitigation pathways compatible with 1.5oC in the context of sustainable development
- 14:45-15:00 Chapter 3: Impacts of 1.5oC global warming on natural and human systems
- 15:00-15:15 Chapter 4: Strengthening and implementing the global response to the threat of climate change
- 15:15-15:30 Chapter 5: 1.5oC Sustainable development, poverty eradication and reducing inequalities
- 15:30-16:00 Q&A and Discussion Session
- 15:30-16:00 Break (*Atrium Space - LIT Building*)

#### CHAPTER SESSION I: ICE BREAKING

- 16:00-17:30 Chapter 1: Auditorium Honiat – LIT Building  
Chapter 2: Meeting Room 1 - LIT Building  
Chapter 3: Training Room 1 - LIT Building  
Chapter 4: Training Room 2 - LIT Building  
Chapter 5: Meeting Room 2 - LIT Building
- 16:00-17:30 Co-Chair & Vice-Chair meeting - Room 12 – 1<sup>st</sup> Floor - CCST Building
- 17:30 Adjourn
- Evening Co-Chair meeting (*Room TBD*)

#### Day 2: Tuesday, 7 March 2017

- 08:30–09:00 CLA and Co-Chairs Meeting 2 (*Training Room 1 - LIT Building*)

#### CHAPTER SESSION II

- 09:00-10:30 Chapter 1: Auditorium Honiat – LIT Building  
Chapter 2: Meeting Room 1 - LIT Building  
Chapter 3: Training Room 1 - LIT Building  
Chapter 4: Training Room 2 - LIT Building  
Chapter 5: Meeting Room 2 - LIT Building
- 09:00-10:30 Co-Chair meeting – (*Co-Chair office – LIT Building*)

10:30-11:00 Break (*Atrium Space - LIT Building*)

### CHAPTER SESSION II continued

11:00-12:00 Chapter 1: Auditorium Honiat – LIT Building  
Chapter 2: Meeting Room 1 - LIT Building  
Chapter 3: Training Room 1 - LIT Building  
Chapter 4: Training Room 2 - LIT Building  
Chapter 5: Meeting Room 2 - LIT Building

11:00-11:20 Co-Chair visits in Chapter 1

11:30-11:50 Co-Chair visits in Chapter 2

12:00-13:30 Lunch (*INPE Restaurant*)

13:30-14:00 Informal Q&A Session (Ramon Pichs Madruga, Carlos Mendez, Fatima Driouech, TSU)  
(*Auditorium Mendonça - LIT Building*)

### PLENARY SESSION III (*Auditorium Mendonça - LIT Building*)

Chairs: Valerie Masson-Delmotte and Priyadarshi Shukla

Rapporteur: Wilfran Moufouma-Okia

Facilitator: Raphael Slade

14:00–14:30 Stock Taking of Chapter Discussions

14:30–15:00 Cross-Cutting Issues

15:00-15:30 Break (*Atrium Space - LIT Building*)

### CHAPTER SESSION III

15:30-17:30 Chapter 1: Auditorium Honiat – LIT Building  
Chapter 2: Meeting Room 1 - LIT Building  
Chapter 3: Training Room 1 - LIT Building  
Chapter 4: Training Room 2 - LIT Building  
Chapter 5: Meeting Room 2 - LIT Building

15:30-15:50 Co-Chair visits in Chapter 3

16:00-16:20 Co-Chair visits in Chapter 4

16:30-16:50 Co-Chair visits in Chapter 5

17:30 Adjourn

18:00 Welcome Reception (*INPE's Club*)

Evening Co-Chair meeting (*Room TBD*)

Day 3: Wednesday, 8 March 2017

08:30-9:00 CLA and Co-Chairs Meeting 3 (*Training Room 1 - LIT Building*)

#### CHAPTER SESSION IV

09:00-10:30 Chapter 1: Auditorium Honiat – LIT Building  
Chapter 2: Meeting Room 1 - LIT Building  
Chapter 3: Training Room 1 - LIT Building  
Chapter 4: Training Room 2 - LIT Building  
Chapter 5: Meeting Room 2 - LIT Building

9:00-10:30 Co-Chair meeting (*Co-Chair Office*)

10:30-11:00 Break (*Atrium Space - LIT Building*)

#### CHAPTER SESSION IV CONTINUED

11:00-12:30 Chapter 1: Auditorium Honiat – LIT Building  
Chapter 2: Meeting Room 1 - LIT Building  
Chapter 3: Training Room 1 - LIT Building  
Chapter 4: Training Room 2 - LIT Building  
Chapter 5: Meeting Room 2 - LIT Building

12:30-14:00 Lunch (*INPE Restaurant*)

12:30-13:00 Co-Chair meeting (*Co-Chair Office*)

#### PLENARY SESSION IV (*Auditorium Mendonçat - LIT Building*)

Chairs: Jim Skea and Panmao Zhai

Rapporteur: Wilfran Moufouma-Okia

Facilitator: Anna Pirani

14:00-14:30 Cross-Cutting Issues – Jim Skea

## CHAPTER SESSION V AND CROSS CHAPTER SESSION I

14:30-15:30 Cross-Chapter Breakout Group on .. (*Auditorium Mendonça – LIT Building*)  
Cross-Chapter Breakout Group on .. (*Room 27 – CCST building*)  
Cross-Chapter Breakout Group on .. (*Room 12 – CCST building*)  
Additional Cross-Chapter Breakout Groups as needed (*Auditorium Mendonça – LIT Building*)

Chapter Meetings for those not involved in Cross-Chapter Breakout Groups

Chapter 1: Auditorium Honiat – LIT Building

Chapter 2: Meeting Room 1 - LIT Building

Chapter 3: Training Room 1 - LIT Building

Chapter 4: Training Room 2 - LIT Building

Chapter 5: Meeting Room 2 - LIT Building

15:30-16:00 Break (*Atrium Space - LIT Building*)

## CHAPTER SESSION V CONTINUED

16:00-18:00 Chapter 1: Auditorium Honiat – LIT Building  
Chapter 2: Meeting Room 1 - LIT Building  
Chapter 3: Training Room 1 - LIT Building  
Chapter 4: Training Room 2 - LIT Building  
Chapter 5: Meeting Room 2 - LIT Building

18:00 Adjourn

Evening Co-Chair meeting

Day 4: Thursday, 9 March 2017

08:30 CLA and Co-Chairs Meeting 4 (*Training Room 1 - LIT Building - Ground floor*)

## PLENARY SESSION V (*Auditorium Mendonçat - LIT Building*)

Chairs: Carolina Vera and Andreas Fischlin

Rapporteur: Wilfran Moufouma-Okia

Facilitator: Raphael Slade

09:00-10:30 Stock Taking of Chapter and Cross-Chapter Discussions

10:30-11:00 Break (*Atrium Space - LIT Building*)

## PLENARY SESSION VI (*Auditorium Mendonçat - LIT Building*)

Chairs: Fatima Driouech and Carlos Mendez

Rapporteur: Anna Pirani

Facilitator: Melinda Tignor

11:00-12:00 Guidance on use of literature -*Wilfran Moufouma-Okia*

Use of Uncertainty Language in the AR6 - *Wilfran Moufouma-Okia*  
Frequently Asked Questions – *Hans Pörtner*

- 12:00-12:30 Discussion and Q&A
- 12:30-14:00 Lunch (*INPE Restaurant*)
- 14:00-14:30 Informal Q&A Session (Co-Chairs and TSU) (*Auditorium Mendonçat - LIT Building*)

#### CHAPTER SESSION VI

- 14:30-16:00 Chapter 1: Auditorium Honiat – LIT Building  
Chapter 2: Meeting Room 1 - LIT Building  
Chapter 3: Training Room 1 - LIT Building  
Chapter 4: Training Room 2 - LIT Building  
Chapter 5: Meeting Room 2 - LIT Building

- 16:00-16:30 Break (*Atrium Space - LIT Building*)

#### CHAPTER SESSION VI CONTINUED

- 16:30-18:00 Chapter 1: Auditorium Honiat – LIT Building  
Chapter 2: Meeting Room 1 - LIT Building  
Chapter 3: Training Room 1 - LIT Building  
Chapter 4: Training Room 2 - LIT Building  
Chapter 5: Meeting Room 2 - LIT Building

- 18:00 Adjourn  
Evening Co-Chair meeting

Day 5: Friday, 10 March 2017

- 08:30-09:00 CLA and Co-Chairs Meeting 5 (*Chapter 3 meeting room - LIT Building*)

#### CHAPTER SESSION VII

- 09:00-09:30 Chapter 1: Auditorium Honiat – LIT Building  
Chapter 2: Meeting Room 1 - LIT Building  
Chapter 3: Training Room 1 - LIT Building  
Chapter 4: Training Room 2 - LIT Building  
Chapter 5: Meeting Room 2 - LIT Building

## PLENARY SESSION VII (Auditorium Mendonçat - LIT Building)

Chairs: Debra Roberts and Priyadarshi Shukla

Rapporteur: Anna Pirani

Facilitator: Melinda Tignor

Chapter Presentations [5 min presentations from CLAs on the progress/development of the chapter during LAM1, 10 min discussion]:

09:30-09:45	Chapter 1: Framing and context
09:45-10:00	Chapter 2: Mitigation pathways compatible with 1.5oC in the context of sustainable development
10:00-10:15	Chapter 3: Impacts of 1.5oC global warming on natural and human systems
10:15-10:30	Chapter 4: Strengthening and implementing the global response to the threat of climate change
10:30-10:45	Chapter 5: 1.5oC Sustainable development, poverty eradication and reducing inequalities
10:45-11:15	Break ( <i>Atrium Space - LIT Building</i> ) Group photo
11:15-11:30	Discussion and Q&A

## CLOSING PLENARY (Auditorium Mendonçat - LIT Building)

Chair: Thelma Krug

11:30-12:30	Next Steps and Closing Remarks - Valérie Masson-Delmotte and Anna Pirani
12:30	End of LAM1

## SR1.5°C Outline

Proposed outline of the special report in 2018 on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development and efforts to eradicate poverty

### **Title: Global warming of 1.5oC**

An IPCC special report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty

### **List of Contents**

- Front Matter (2 pages)
- Summary for Policy Makers (up to 10 pages, incl. headline statements, tables, figures)
- Chapter 1: Framing and context (15 pages)
- Chapter 2: Mitigation pathways compatible with 1.5°C in the context of sustainable development (40 pages)
- Chapter 3: Impacts of 1.5°C global warming on natural and human systems (60 pages)
- Chapter 4: Strengthening and implementing the global response to the threat of climate change (50 pages)



Chapter 5: Sustainable development, poverty eradication and reducing inequalities (20 pages)  
Boxes - integrated case studies/regional and cross-cutting themes (up to 20 pages)  
FAQs (10 pages)  
Total: up to 225

### Front matter

- IPCC context
  - Building on AR5
  - Assessing literature since AR5
  - Reports to come in this cycle
- Context of UNFCCC invitation
- Specificity of this report within the cycle (integration, systems- and solutions-based approach, near-term)
- Laying the foundations for the Special Report in the context of strengthening the global response to climate change, sustainable development and poverty eradication

### Chapter 1: Framing and Context

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

### Chapter 2: Mitigation pathways compatible with 1.5°C in the context of sustainable development

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

### Chapter 3: Impacts of 1.5°C global warming on natural and human systems

- Methods of assessment
- Observed and attributable global and regional climate changes and impacts and the adaptation experience
- Key global and regional climate changes, vulnerabilities, impacts, and risks at 1.5°C, taking into account adaptation potential and limits to adaptive capacity
- Key sectoral vulnerabilities, impacts, and risks at 1.5°C, taking into account adaptation potential, limits to adaptive capacity and socio-economic aspects

- Avoided impacts and reduced risks at 1.5°C compared with 2°C and, where warranted by the literature, comparison with higher levels of warming
- Timeframe, slow vs. fast onset, irreversibility and tipping points
- Implications for impacts, adaptation and vulnerability of different mitigation pathways reaching 1.5°C, including potential overshoot

#### **Chapter 4: Strengthening and implementing the global response to the threat of climate change**

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

#### **Chapter 5: Sustainable development, poverty eradication, and reducing inequalities**

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