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## **PROGRESS IN THE PREPARATION OF FIFTH ASSESSMENT REPORT (AR5)**

### **Working Group II Progress Report**

(Submitted by the Co-Chairs of the IPCC Working Group II)

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# PROGRESS IN THE PREPARATION OF THE AR5

## Working Group II Progress Report

### 1. Background

Bureau-46/Doc. 6 – prepared for delegates attending the 46<sup>th</sup> Session of the IPCC Bureau (Geneva, Switzerland • 28 February – 1 March 2013) – described progress on WGII deliverables since IPCC-XXXV (Geneva, Switzerland • 6-9 June 2012).

This document covers WGII accomplishments since late January 2013, when the previous status report was submitted to the IPCC Secretariat for dissemination. In addition to the review and relevant meetings conducted within the period of performance, this synopsis covers process issues (e.g., writing team modifications, outline adjustments), the work plan to meet upcoming milestones, and communications initiatives that support launch of the WGII contribution to the Fifth Assessment Report.

### 2. Progress since 46<sup>th</sup> Session of the IPCC Bureau (Geneva, Switzerland • 28 February – 1 March 2013)

#### **WGII AR5 Government and Expert Review: 28 March – 24 May 2013**

A pre-registration system was launched 22 February 2013, and publicized via both <ipcc-wg2.gov> and IPCC Secretariat broadcasts to IPCC Focal Points and Observer Organization representatives. The WGII Technical Support Unit (TSU) also solicited targeted reviewer lists from the WGII AR5 Review Editors, after having first compared chapter-specific listings of first-order draft (FOD) reviewer recommendations against the record of actual Expert Review registrants. The derived pool was alerted to launch of the pre-registration system. Overall registration methodology served (i) IPCC Focal Points, (ii) Observer Organization representatives, (iii) authorized WGII AR5 Expert Review registrants, and (iv) unsolicited experts.

Deadline for submission of the WGII AR5 second-order draft (SOD) chapters was 1 March 2013, and for the Summary for Policymakers (SPM) and Technical Summary (TS) 18 March 2013. This lag allowed respective core writing team (CWT) members to first meet chapter obligations.

On 28 March 2013, the IPCC Secretariat initiated the WGII AR5 Government and Expert Review, and the WGII TSU followed up by sending user-specific access credentials to IPCC Focal Points and Observer Organization representatives. The WGII TSU sent scripted mail to the 2,431 accepted registrants for the WGII AR5 Expert Review, reminding them of their unique credentials. Unsolicited reviewers completed a registration and certification (i.e., not to cite, quote, or distribute draft materials) procedure to be granted access to the review site. No matter the category, agreement to terms and conditions of the review took place during initial login of each user to the site.

The WGII AR5 Government and Expert Review ended on 24 May 2013, with the WGII TSU allowing a 5-day grace period for Governments to submit late comments (site disabled 29 May). Of the 195 member Governments, 70 logged into the review system and 32 submitted comments.<sup>1</sup> There were 2,631 authorized expert reviewers, with 849 unsolicited experts seeking and being granted access via the generic registration tool during the pre-registration period and the review window itself. The total number of nationalities represented in the authorized registrant pool totaled 122, with 60 nationalities having submitted comments via 501 expert reviewer uploads. IPCC Focal Points were given the opportunity to upload lists of experts (name and affiliation) who participated in respective panels that crafted national positions. Updating the review system database with the Focal Point-

<sup>1</sup> Australia, Belgium, Canada, Chile, China, Colombia, Denmark, Finland, Germany, Greece, Iceland, India, Ireland, Italy, Japan, Kenya, Malaysia, Netherlands, New Zealand, Norway, Panama, Poland, Republic of Korea, Russian Federation, Spain, Sweden, Switzerland, United Kingdom, United Republic of Tanzania, United States of America, Venezuela, and Vietnam.

provided information yielded a total of 1,179 experts participating in the WGII AR5 Government and Expert Review.

There were 28,544 total comments – 10,906 from Governments and 17,638 from direct expert uploads. Within the expert reviewer category, 1,347 comments originated from authors reviewing each other's work, 1,154 from Observer Organizations, 4,361 from WGII TSU staff (including volunteer chapter scientists), and 10,776 from the community at large. Comments collations were made available to the writing teams via the WGII AR5 Author Portal on 12 June 2013.

### **WGII AR5 Fourth Lead Authors Meeting (LAM4) – Bled, Slovenia: 15-19 July 2013**

The final Lead Authors Meeting of the WGII AR5 development cycle took place within the SAVA consortium of hotels in Bled, Slovenia, 15-19 July 2013. LAM4 was hosted by the Global Challenges Department of the Ministry of Foreign Affairs (MFA) of the Republic of Slovenia. The plenary and cross-chapter sessions were convened in the Hotel Golf, and the 30 chapter breakouts in the Golf and four other hotels (Park, Toplice, Kompas, and Lovec) – all within a short walk of each other.

Initial logistics were sent to writing team members, volunteer chapter scientists, and IPCC officials on 10 April 2013. Even with this relatively late release, all invitees had ample time to make arrangements (accommodation and visas) and attend this important meeting. Of the 310 WGII AR5 writing team members, 275 attended LAM4 (60 CLAs, 156 LAs, and 59 REs). When adding in the volunteer chapter scientists (26), IPCC guests (11), and WGII TSU members (8), LAM4 ended up with a total of 320 participants, of which 102 were developing country writing team members. Two WGI AR5 authors and one WGI AR5 author attended the event to aid in consistency/coordination efforts. Engagement of writing team members even as the cycle winds down remains high.

The opening ceremony included speeches by Karl Erjavec (Minister of Foreign Affairs of the Republic of Slovenia), Janez Fajfar (Mayor of Bled), Lucka Kajfez Bogataj (former IPCC Vice Chair), and Rajendra Pachauri (Chair of the IPCC). The balance of the first three days of the meeting was devoted to chapter breakouts held concurrent with thematic cross-chapter sessions covering the following topics: Informing Risk Management, Key Risks and Vulnerabilities, Understanding Climate Change through Extremes, Transformation, Food Security and Human Security, Multi-Dimensional Vulnerability, Consequences of Large Magnitude Climate Change, Food-Water-Energy, the Climate-Impacts Handoff, Oceans and Coasts, and Beyond Scenarios. Additional targeted sessions during LAM4 proper included WGII Bureau Meetings (3), CLA Meetings (2), Review Editor Meetings (2), an Adaptation Cross-Chapter Session (1), a Volunteer Chapter Scientist Meeting (1), and a Glossary Team Meeting (1). A half-day TS meeting took place the afternoon of the fourth day, with all of the fifth devoted to an SPM CWT meeting to round out the week.

In addition to the full slate of chapter breakouts during the course of the week, the local secretariat arranged space for tag-on meetings for Chapters 2, 4, 6, 18, and 22.

The local hosts were very eager to promote the event, scheduling a press conference and staff briefing. The MFA Public Relations Department felt that the conference was very well covered – with over 30 print articles and radio spots, as well as television coverage. The main outlets included: the Daily newspaper, DELO; the Slovenian press agency, STA; Radio Slovenia, national radio; TV Slovenia, national TV<sup>2</sup>; internet portal, MMC; POP TV, commercial TV; and Planet TV. Clips (in Slovenian) can be obtained from the WGII TSU. In addition to a local media presence, the WGII TSU hired a videography firm to generate b-roll footage and 24 author interviews for use in its own communications initiatives (see Section 4).

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<sup>2</sup> Reporting on the opening ceremony and a taped interview (with Slovenian subtitles) with Christopher Field in a daily show (Odmevi).

### 3. WGII AR5 Process Issues

This section provides brief updates on WGII AR5 writing team changes, slight adjustments to the Plenary Approved Outline (PAO), and administration of U.S. non-Federal scientist travel support:

#### **WGII AR5 Writing Team Modifications**

Since the Bureau-46 status report was submitted to the IPCC Secretariat on 23 January 2013, the following writing team developments have occurred:

- On 5 February 2013, Nirivololona Raholijao (Madagascar) accepted the WGII Bureau solicitation to serve as Review Editor for the WGII AR5 Technical Summary.
- On 5 February 2013, Kazuya Yasuhara (Japan) accepted the WGII Bureau solicitation to serve as Review Editor for the WGII AR5 Technical Summary.
- On 8 February 2013, Jean Ometto (Brazil) accepted the WGII Bureau solicitation to serve as Review Editor for the WGII AR5 Technical Summary.
- On 14 February 2013, Susan Cutter (USA) accepted the WGII Bureau solicitation to serve as Review Editor for Chapter 13, Livelihoods and Poverty.
- On 18 February 2013, Leisa Perch (Barbados) accepted the WGII Bureau solicitation to serve as Lead Author for Chapter 13, Livelihoods and Poverty.
- On 20 February 2013, Pauline Aldunce (Chile) accepted the WGII Bureau solicitation to serve as Review Editor for the WGII AR5 Technical Summary.
- On 20 March 2013, Carlos Nobre (Brazil) resigned his role as Lead Author for Chapter 27, Central and South America.
- On 16 August 2013, Nirivololona Raholijao (Madagascar) accepted the WGII Bureau solicitation to serve as Review Editor for Chapter 9, Rural Areas.
- On 17 August 2013, the WGII Bureau rescinded the Review Editor appointment of Habib Amamou (Tunisia) – Chapter 9, Rural Areas.
- On 17 August 2013, the WGII Bureau rescinded the Lead Author appointment of Papa Demba Fall (Senegal) – Chapter 22, Africa.
- On 17 August 2013, the WGII Bureau rescinded the Lead Author appointment of Marie-Louise Rakotondrafara (Madagascar) – Chapter 22, Africa.
- On 2 September 2013, Chris Lennard (South Africa) accepted the WGII Bureau solicitation to serve as Lead Author for Chapter 22, Africa.

#### **PAO Adjustments**

*Chapter 11:* The Coordinating Lead Authors have added a subtitle, thereby expanding their chapter title to read 'Human Health: Impacts, Adaptations, and Co-Benefits.'

*Chapter 14:* The interrelated adaptation chapters (14-17) continue to coordinate assessment with the support and supervision of the WGII Bureau. The adaptation chapters are complementary and assess sequential processes, which cover a broad range of foundational concepts, different levels of social and political organization and governance, the roles of different actors, tools for monitoring and assessing adaptation, barriers and capacities, and the economics of climate change adaptation. The writing team for Chapter 14, (Adaptation Needs and Options) is adding a 'road map' subsection to guide readers through the wealth of material within the adaptation chapter suite, supported by a table that highlights adaptation needs and options information contained in the sectoral and regional chapters.

## **U.S. Non-Federal Scientist Travel Support**

The WGII TSU administers a fund to facilitate participation of U.S. non-Federal scientists in international assessment activities of the Ozone Science and Effects Panels for the Montreal Protocol, and the three Working Group contributions and the Synthesis Report comprising the Fifth Assessment Report. 117 travel authorizations were issued for IPCC meetings in the 1 February – 30 September 2013 time frame (i.e., close of WGII TSU administering organization's fiscal year), with the following IPCC meetings supported (number of trips bracketed [ ]):

- TGICA-19 (Jeju, South Korea • 13-16 May 2013) [3]
- TFI Wetlands Supplement Lead Authors Meetings #4 (Manaus, Brazil • 20-24 May 2013) [1]
- AR5 Synthesis Report Core Writing Team Meeting #2 (Oslo, Norway • 10-12 June 2013) [4]
- WGIII AR5 Fourth Lead Authors Meeting (Addis Abba, Ethiopia • 1-5 July 2013) [45]
- WGII AR5 Fourth Lead Authors Meeting (Bled, Slovenia • 15-19 July 2013) [49]
- TFI Expert Meeting on Fugitive Emissions from Oil and Natural Gas Systems (Washington, DC, USA • 20-22 August 2013) [5]
- WGI AR5 SPM Approval Plenary (Stockholm, Sweden • 23-26 September 2013) [10]

The WGII TSU covered travel expenses for six U.S. non-Federal volunteer chapter scientists to attend WGII AR5 LAM4; a Grantham Foundation grant enabled 11 developing country volunteer chapter scientists to participate in WGII AR5 LAM4.

## **4. WGII AR5 Work Plan and Budget**

The WGII AR5 work plan (including internal deadlines) from WGII AR5 LAM4 through launch of the WGII AR5 micro-site(s) is provided at the end of this section. Brief descriptions of major milestones and/or initiatives precede the provisional schedule.

The WGII line item in the proposed IPCC Trust Fund budget for calendar year 2014 has been revised (see <Doc. 2, Corr.1 - IPCC Trust Fund Programme and Budget.pdf>), with 29 trips requested to support SPM CWT and CLA participation in a pre-plenary meeting and the 10<sup>th</sup> session of Working Group II (Yokohama, Japan • 22-23 and 25-29 March 2014).

### **Major WGII AR5 Milestones**

**Government Review of Final Draft SPM:** The WGII AR5 final draft chapters are due 4 October 2013, and the WGII TSU has a scant 3 weeks to process materials and populate the web site to be constructed to support the Government Review of the Final Draft SPM. Additional items to be collected include the completed SOD comments annotations, confirmations that all non-journal literature uploaded to the NJ Lite system, and any outstanding native art to be brought to IPCC specification – all of which are in the plans for various web releases (see below). The 8-week Government Review of the SPM runs from 28 October – 20 December 2013. The technical edit of the chapter text commences on 4 November 2013.

**10<sup>th</sup> Session of IPCC WGII:** The IPCC Secretariat has the lead for all logistics associated with the WGII AR5 SPM approval session and the preceding SPM CWT meeting, both to be held in Yokohama, Japan. The WGII Co-Chairs and TSU will continue to play a significant role in determining requirements and in the conduct of the session and subsequent press conference where key findings are released to the public.

**Communications Initiatives:** The IPCC sought to build on the successful deployment of an outreach micro-site launched to promote release of the joint WGI/WGII IPCC Special Report on “Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation” (SREX). That web site was a collaborative venture between IPCC Working Group II, Climate Central, and Reef Light Interactive, and funded by external donors. The WGII TSU worked directly with Reef Light Interactive to establish requirements, to determine the content to feature and how, to deploy a content management system (Expression Engine), and to train staff on how to populate it with TSU-generated content. The WGII TSU exploited this existing relationship to secure cost savings and to expedite an AR5 micro-site development effort, in regular consultation with sister TSUs and the IPCC Secretariat. Intention is for respective AR5 launch web sites to appear virtually identical even though a system of distributed nodes hosted at different physical locations. The current design effort mimics the structure/content of the SREX precursor; but, as opposed to former static features, the AR5 micro-site now uses Responsive Web Design (RWD). RWD code allows content re-wraps to support multiple platforms – that is, desktop, tablet, and mobile [320px (iPhone portrait), 768 (iPad portrait), and 1024 (web and iPad landscape)] – rendering a native app unnecessary. The architecture was chosen specifically to facilitate ease of bundling and porting for long-term archival at the IPCC Secretariat in calendar year 2015.

The dedicated WGII AR5 micro-site gets launched in two phases – the first on 31 March 2014, to support the WGII AR5 SPM launch press conference in Yokohama, Japan, and the second targeted for August 2014, upon release of the full (laid out) report and custom tools/databases developed by the WGII TSU. The WGII AR5 Phase II launch will take place as soon as the camera-ready galleys have been provided to Cambridge University Press, since hardcopy and e-publication are documents of co-record. Featured elements of the Phase I launch include the Summary for Policymakers (in PDF), the Final Government Distribution chapter drafts (in PDF), an approval plenary trickleback document, a Secretariat-produced video, WGII AR5 author interviews (produced at LAM4), a generic slide deck, fact sheets, FAQs, and contributor and expert reviewer listings, amongst other things. Featured elements of Phase II include the laid out report (in PDF), a summary brochure (in PDF, to include the SPM, TS, FAQs, cross-chapter boxes, and glossary), additional videos, a cross-chapter box compendium, review comments and responses (in PDF and searchable database), non-journal literature library (full-text searchable), all report graphics, SPM translations, and so on. Meeting the August 2014 target will be challenging.

Initial discussions regarding a series of regional outreach events – also based on the SREX model – are underway. Current plans involve from six to eight joint WGII/WGIII events over the spring and summer of 2014, prior to release of the AR5 Synthesis Report. Details are not mature enough to share with delegates at this time.

### **WGII AR5 Provisional Schedule**

A public version can be found at <[http://ipcc-wg2.gov/AR5/AR5\\_provisional\\_schedule.html](http://ipcc-wg2.gov/AR5/AR5_provisional_schedule.html)>. The schedule below includes select internal WGII TSU deadlines through launch of the above-mentioned micro-site.

#### **15-19 July 2013**

WGII AR5 Fourth Lead Authors Meeting – Bled, Slovenia

#### **22 July - 4 October 2013 (11 weeks)**

Final drafts prepared, then to WGII TSU

#### **31 August 2013**

Literature cut-off date for “accepted” papers

#### **6 September 2013**

Final draft Glossary distributed to writing teams by WGII TSU

**13-25 September 2013**

Internal review of draft summary documents (SPM and TS)

**4 October 2013**

Final draft chapters delivered to the WGII TSU

**28 October - 20 December 2013**

Government Review of Final Draft SPM

**4 November - 3 February 2013**

Production: Copyedit of final draft chapter text for consistency and grammar (non-substantive)

**23 December 2013 - 10 January 2014**

Comments received from Governments collated and distributed to SPM CWT

**13 January - 19 March 2014**

Final draft of SPM developed

**31 January 2014**

Review Editors: Final Draft Report submitted to WGII TSU

**22-23 March 2014**

Pre-Plenary WGII AR5 CWT Meeting – Yokohama, Japan

**25-29 March 2014**

10<sup>th</sup> Session of IPCC WGII - Yokohama, Japan

**31 March 2014**

WGII AR5 Press Conference and E-Launch Phase I

**April - July 2014**

Production: Desktop layout and galley proof checks (CLA quality control); custom tools development

**August 2014 (Target)**

WGII AR5 E-Launch Phase II