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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)

IPCC Secretariat

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NOTE BY THE SECRETARIAT

This revision is submitted following consideration of the Executive Committee at its Ninth meeting on 7 June 2012, to remove the request for two changes in the AR4 Synthesis Report and include it in a separate IPCC-XXXV/Doc.24. The revision also contains an additional AR5 writing Team development on page 5.

PROGRESS IN THE PREPARATION OF THE AR5 Working Group II Progress Report

1. Background

IPCC-XXXIV/Doc.10 – prepared for delegates attending the Kampala, Uganda, Panel Session (18-19 November 2011) – described progress since IPCC-XXXIII held in Abu Dhabi, United Arab Emirates (10-13 May 2011; IPCC-XXXIII/Doc.3), providing detail on expert meetings conducted with sister Working Groups, information on the WGII AR5 lead author meetings, travel support, the informal peer review of the WGII Zero Order Drafts (held 25 July – 21 September 2011), writing team developments, and schedule and budget adjustments.

This document covers WGII AR5 accomplishments since IPCC-XXXIV/Doc.10 and provides major milestones through the end of calendar year 2013.

2. Progress since IPCC-XXXIV (Kampala, Uganda • 18-19 November 2011)

Expert Meetings

The WGII Co-Chairs and Technical Support Unit (TSU) continued to work closely with sister Working Groups to complete reports from an ambitious schedule of expert meetings and workshops in support of AR5 development. The Meeting Report of the IPCC Expert Meeting on Economic Analysis, Costing Methods, and Ethics was finalized in March 2012 and is available here: <<http://ipcc-wg2.gov/meetings/EMs/index.html>>.

No additional expert meetings or workshops will be held during the time remaining in the WGII contribution to the AR5 assessment cycle.

IPCC Co-Sponsored Meetings

WGII, with approval of the IPCC Chair, agreed to co-sponsor;

- *Bringing together the Scientific Community to Assess Vulnerability and Adaptation*, held 14-15 May 2012 in Mexico. Other co-sponsors were el Colegio de Mexico and the (US) National Center for Atmospheric Research. The aim of the meeting was to assess IPCC-relevant knowledge on the socioeconomic, institutional, and environmental aspects of climate change.
- *Netherlands Meeting on New Socioeconomic Pathways for Climate Change Research*, held 14-16 May in The Hague, The Netherlands. The meeting was co-sponsored with the government of the Netherlands. In accordance with the decision that development of the new scenarios be a community-lead activity, WGs II and III provided logistical support, but did not lead meeting organization. The Science Steering Group was lead by Mr. Tom Kram (PBL Netherlands Environmental Assessment Agency, Netherlands) and Mr. Thomas Wilbanks (Oak Ridge National Laboratory, US).

WGII AR5 Lead Author Meetings

The Second Lead Author Meeting (LAM2) took place at the Hilton San Francisco Union Square (San Francisco, California, USA) from 12-15 December 2011. California Governor Brown attended the opening reception, spending approximately two hours talking with authors. Plenary sessions were devoted to process and operational issues, SREX key findings, and inter- and intra-working group crosscutting themes such as the new scenarios process, detection and attribution of observed impacts, the increased emphasis on adaptation, and the conflict-of-interest policy. The LAM2 agenda can be provided upon request. Considerable time was spent in chapter breakouts, with the balance of the LAM spent in carefully selected cross-chapter sessions. Additional meetings took place on 16 December: an adaptation cross-chapter CLA meeting and a disaster risk reduction

cross-cutting session. LAM2 had 262 participants, consisting of WGII AR5 Coordinating Lead Authors and Lead Authors (CLA/LAs), Volunteer Chapter Scientists, WGII Bureau members, IPCC officials, and WGII TSU staff.

The University of Buenos Aires (Argentina) will host the Third Lead Author Meeting from 23-26 October 2012. A pre-meeting science dialogue on adaptation issues in Central and South America is tentatively scheduled on 22 October; participants will include AR5 authors, faculty, and students. The local host secured the venue and hotels and contracts are being put in place with other vendors. Detailed logistics information was distributed to writing teams and review editors on 18 April 2012. The WGII TSU is providing as much lead-time as possible given this will be high tourist season.

LAM4 is scheduled to take place 15-19 July 2013. Work is progressing on identifying a venue.

For the complete 2012 WGII AR5 calendar, see:

http://ipcc-wg2.gov/AR5/AR5_provisional_schedule.html.

WGII AR5 Travel Support

In the revised 2011 IPCC Trust Fund budget adopted at IPCC-XXXIII and the Proposed Revised Budget for 2012 for adoption at IPCC-XXXV, the WG2 TSU requested 241 journeys to support DC/EIT scientist participation in AR5 lead authors meetings, as follows [request/actual in brackets, with the latter data compiled by the IPCC Secretariat (via Attendance Sheet submitted to WMO Travel Unit)]:

- Second Lead Authors Meeting - San Francisco, CA, USA [104/98]
- Third Lead Authors Meeting – Buenos Aires, Argentina [137/n.a.]

3. Process issues

Launch of the Special Report on Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation (SREX) and SREX Outreach Events

The SREX launch during IPCC-XXXIV (Kampala, Uganda 18-19 November 2011) included a webcast press conference and an SREX website <http://ipcc-wg2.gov/SREX> with the SPM, press release, fact sheet, presentation, video *In Harm's Way*, information on the authors and Review Editors, the IPCC process, and other materials.

The full report of the SREX was launched electronically 28 March 2012. The launch included a call-in press event organized by Mr. Jonathan Lynn, IPCC Head of Communications and Media Relations. Prior to the launch, on 26 March, the full report was made available under embargo to journalists and was posted on the SREX author portal. Dr. Pachauri, Professor Stocker, Mr. Field, Mr. Barros, and some authors gave interviews prior to the press event. Speakers at the press-event were Dr. R.K. Pachauri, Professor Stocker, and Mr. Field. A number of the questioners specifically stated having access to an embargoed copied of the report was very helpful for providing accurate coverage of key findings.

Features of the E-Launch included:

- *Full report download* (<[SREX-All_FINAL.pdf](#)>, 43.5MB) from the home page (<<http://ipcc-wg2.gov/SREX/>>) report page (<<http://ipcc-wg2.gov/SREX/report/>>) downloads page (<<http://ipcc-wg2.gov/SREX/report/full-report/>>)
- *Individual chapter and annex downloads* from the downloads page (<<http://ipcc-wg2.gov/SREX/report/full-report/>>)
- *Review drafts and comments archive* from the Review Drafts and Comments page (<<http://ipcc-wg2.gov/SREX/report/review-drafts/>>). Users are routed to a Terms and

Conditions page, then to the archive of draft chapters and associated review comments. The brief narrative states what is available and the table provides a quick visual reference.

- *Comment and response search tool* from the Drafts and Comments Archive page. Users route themselves to the annotation search tool (<<http://ipcc-wg2.gov/SREX/report/review-search/>>). The powerful search engine allows full text search of the comments and author responses, and supports standard querying conventions. Users can conduct full SREX or segmented draft/chapter comments and response searches.
- *Non-journal literature library* from the NJ Lite database (<<http://ipcc-wg2.gov/SREX/report/nj-lite/>>). Users are able to access the digital library of *cited* non-journal literature compiled as part of the review and drafting process. References and/or the full text of underlying sources can be searched, again supported by standard querying characters. Links to the author-provided PDFs are included for download, and if copyright issues restrict access (or are pending) that information is conveyed to users.
- *Report graphics* from the Report Graphics page (<<http://ipcc-wg2.gov/SREX/report/report-graphics/>>). Presentation-quality JPEGs of all SREX figures and tables are provided via chapter-specific links.

Camera-ready files were provided to Cambridge University Press on 19 March, with hard copies of the full report expected about mid-May.

Between the launch and the end of April 2012, there were more than 25,000 downloads of the full SREX report. Since the SREX approval session, there have been more than 65,000 downloads of the SPM.

Seven SREX outreach events are planned in 2012. The Government of Norway financially supports these events, with additional resources from the Overseas Development Institute in partnership with the Climate and Development Knowledge Network. The events were modeled after a very successful SREX outreach event held in Oslo, Norway on 24-25 January 2012.

- Havana, Cuba. 18-19 April
- Beijing, China. 26-27 April
- Delhi, India. 2-3 May
- Bangkok, Thailand. 3-4 May
- Addis Ababa, Ethiopia. 9-10 May
- Dakar, Senegal. 18-19 June
- San Paulo, Brazil, 16-17 August

The basic format is a press conference; a panel discussion with Co-Chair(s) and CLAs on the key findings from the report; reflections from regional and local policy-makers, practitioners, and the private sector on the implications of the report for existing risk management; and breakout groups to discuss incorporating the findings and their implications into existing disaster management and adaptation plans and approaches. Press releases announcing the events were posted close to the dates.

Events also have been or are being organized that include participation by the IPCC Chair and/or WG Co-Chairs:

- A joint IPCC / UNFCCC Subsidiary Body for Scientific and Technical Advice (SBSTA) side event was held 30 November 2011 during the UNFCCC COP-17, Durban, South Africa. Professor Stocker, Ms. Ebi, Professor Klein (LA for Chapter 7 on Managing the risks: international level and integration across scales), and Professor Dube (CLA for Chapter 7) gave presentations.
- The Climate and Pollution Agency, in cooperation with the IPCC, the Ministry of the Environment, the Ministry of Foreign Affairs, the Directorate for Civil Protection and Emergency Planning (DSB) and the University of Oslo, organized an event in Oslo, Norway

on 24-25 January 2012 on *Managing the Risks of Climate Extremes and Disasters: What Can We Learn from the IPCC Special Report*.

- The IPCC Secretariat organized an event with the Geneva Environment Network for UN organizations and other interested agencies and institutions in Geneva on 30 March 2012. Speakers were Professor Stocker, Professor Seneviratne (CLA for Chapter 3 on Changes in climate extremes and their impacts on the natural physical environment), and Mr. Peduzzi (LA for Chapter 4 on Changes in impacts of climate extremes: human systems and ecosystems).
- An event on 17 April *Extreme weather: how the public and private sectors are gearing up* focused on the business community in the United Kingdom (Mr. Thomas Mitchell participated when Dr. Pachauri was unable to attend)
- IMF/World Bank Sustainability Dialogue on April 20 (Mr. Field participated)
- An event on April 30 organized by the World Bank (Mr. Field participated)
- An event on 10 May in Brussels, Belgium organized by European Climate Foundation (Dr. Pachauri and Mr. Field participated)
- An event in Washington, DC organized by the Organization of American States (date to be determined; Mr. Field will participate)

AR5 Writing Team Development

The following writing team developments occurred:

- On 17 October 2011, Dr. Patricia Kameri-Mbote, Strathmore University in Nairobi, Kenya, accepted the WGII Bureau solicitation to serve as a Lead Author for Chapter 12, Human Security. Unfortunately, Dr. Kameri-Mbote resigned on 24 April 2012 because of the press of other commitments.
- On 9 December 2011, Dr. William Cheung, Assistant Professor, Fisheries Center, the University of British Columbia, Canada, accepted the WGII Bureau solicitation to serve as a Lead Author for Chapter 6, Ocean Systems.
- On 10 January 2012, Dr. Diarmid Campbell-Lendrum, World Health Organization, accepted the WGII Bureau solicitation to serve as a Lead Author for Chapter 11, Human Health.
- On 10 January 2012, Dr. Jonathan Padgham, START, Washington, DC, accepted the WGII Bureau solicitation to serve as a Lead Author for Chapter 22, Africa. The appointment was based on Dr. Padgham's expertise and the IAC recommendation to include experts from outside a region in regional author teams.
- On 11 February 2011, Ms. Fatou Ndeye Gaye resigned as Lead Author for Chapter 22, Africa because she was appointed Minister of Forestry and Environment for The Gambia.
- On 23 February 2012, Dr. Kathleen McInnes, CSIRO, accepted the WGII Bureau solicitation to serve as a Lead Author for Chapter 5, Coastal and Low-Lying Areas.
- On 23 February 2012, the role of Dr. Petra Tschakert, Pennsylvania State University, was changed from a Lead Author to a Coordinating Lead Author for Chapter 13, Livelihoods and Poverty.
- On 1 March 2012, Dr. Jochen Hinkel, Potsdam Institute for Climate Impact Research (PIK), accepted the WGII Bureau solicitation to serve as a Lead Author for Chapter 5, Coastal and Low-Lying Areas.
- On 14 March 2012, Ms. Penny Urquhart, Independent Consultant, accepted the WGII Bureau solicitation to serve as a Lead Author for Chapter 22, Africa.
- On 4 June 2012, Ms. Coleen Vogel, Independent Consultant, accepted the WGII Bureau solicitation to serve as a Lead Author for Chapter 12, Human Security.

Volunteer Chapter Scientists

Twenty-nine young scientists, many graduate students, are assisting the WGII TSU and the author teams in ensuring accuracy of citations, obtaining copies of non-journal-based literature cited in the chapters, and similar tasks. The Co-Chairs of WGII, the TSU, and the author team thank the twenty-one chapter scientists who are voluntarily supporting chapters in the WGII report. They also thank Japan and Germany, who are funding chapter scientists for their CLAs, and China for supporting a scientist to work across all WGII chapters to ensure the Chinese literature is available and to

support their authors. Other governments are providing support for chapter scientists through grants to their authors and other mechanisms. The chapter scientists bring varied experience and perspectives, come from a wide range of regions, and have been very enthusiastic about helping the author teams.

AR5 Drafting Updates

The WGII author teams took the 13,702 individual review comments on the Zero Order Draft into consideration in developing their First Order Draft chapters; these were due to the TSU on 11 May 2012. The Expert Review will take place 11 June – 6 August 2012. Pre-approved access will be given to WGII authors, WGII Bureau members, and volunteer chapter scientists. The targeted and subsequently authorized WGII expert reviewers will undergo a certification procedure – where they will confirm adherence to the terms and conditions of the review, to include not citing, quoting, or disseminating the FOD chapters – before being granted access via unique credentials to the drafts repository. Working Group I and III CLAs will be invited to participate in the review to ensure cross-WG collaboration/harmonization, while also serving as conduits for their own teams to gain access to the static password-protected registration site and, once approved, the certification page and drafts themselves, again via unique credentials. Experts began pre-registering on the WGII website starting in early May 2012.

Glossary

The WGII AR5 FOD glossary was developed from December 2011 through April 2012 by a 15-person glossary editorial board. Priorities included clear definitions for terms used by multiple chapters and harmonization of glossary entries for terms common across the Working Groups.

Technical Summary

The WGII Bureau approved the selection of 51 lead authors for the Technical Summary writing team, following chapter nominations and Co-Chair selection. Drafting of the TS will begin once the First Order Draft chapters are available.

Crosscutting Themes

Crosscutting themes (CCTs) for the AR5 assessment report are:

- Consistent Evaluation of Uncertainties and Risks
- Costing and Economic Analysis
- Regional Aspects
- Water and the Earth System: changes, impacts & responses
- Carbon Cycle Including Ocean Acidification
- Ice Sheets and Sea-Level Rise
- Mitigation, Adaptation and Sustainable Development

The WGII implementation plan addresses the relevant CCTs, with Expert Meetings and Workshops convened with other WGs completed early in the AR5 cycle. Co-Chair and TSU discussions continue with WGII authors about appropriately handling the CCTs, including coordination across WGs. The WGII Co-chairs and TSU are actively working with chapter teams to ensure implementation of the Guidance Note on Consistent Treatment of Uncertainties. Actions include presentations at Lead Author Meetings, additional guidance documents distributed to authors, targeted comments during the ZOD and ongoing FOD reviews, and remote meetings and other discussions with individual author teams to address specific questions. The Co-Chairs and TSU will continue to work with author teams throughout the development of the WGII contribution.

Discussions are ongoing between WGs II and III (including Co-Chairs, TSU, and authors) on compatible approaches to costing and economic analysis, regional aspects, and mitigation, adaptation, and sustainable development; and between WGs I and II on water and the earth system; carbon cycle; and ice sheets and sea level rise.

Synthesis Report

WGII worked closely with the TSU for the Synthesis Report (SYR) on identifying authors and Review Editors to appropriately cover issues identified in the SYR outline. The WGII Bureau approved eleven authors and three Review Editors to support coverage of impacts, adaptation, and vulnerability.

Implementation of Conflict of Interest Policy

WGII implemented the IPCC Conflict of Interest Policy at its second Lead Author Meeting in December 2011, when the policy was presented to the authors and the forms distributed. The policy was sent to the Review Editors on 5 April 2012. The WGII Bureau reviewed the Declaration of Interest forms received at the time of the 45th Session of the IPCC Bureau, held 13-14 March 2012 in Geneva, and found no conflicts of interest. The Co-Chairs and TSU are actively pursuing the 23 CLAs or LAs who have yet to submit their Disclosure of Interest forms. The REs are submitting their forms now.

WGII also is implementing the IPCC Conflict of Interest Policy for TGICA members who are not covered by a WG.

4. Work plan and budget

The work plan through WGII AR5 LAM3 (including internal WGII TSU deadlines) follows. There are no calendar year 2012 IPCC Trust Fund budget modifications requested from what was presented by WGII in IPCC-XXXIV/Doc.10, therefore, no net increase in DC/EIT representation is anticipated.

- **12-15 December 2011.** WGII AR5 Second Lead Authors Meeting - San Francisco, California, USA
- **16 December 2011 - 11 May 2012.** WGII AR5 first-order draft (FOD) chapters prepared, then to TSU
- **6-8 February 2012.** TGICA-17 – Jasper Ridge, California, USA
- **End of March 2012.** SREX Book Launch (Phase II)
- **14 May - 8 June 2012.** WGII TSU consolidates and distributes WGII AR5 FODs
- **11 June - 6 August 2012.** WGII AR5 Expert Review
- **6-17 August 2012.** WGII TSU collates and distributes WGII AR5 Expert Review comments
- **23-26 October 2012.** WGII AR5 Third Lead Authors Meeting – Buenos Aires, Argentina