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**WORKING GROUP II CONTRIBUTION TO THE IPCC
FIFTH ASSESSMENT REPORT (AR5)**

Implementation Plan

(Submitted by the Co-Chairs of Working Group II
on behalf of the Working Group II Bureau)

WORKING GROUP II CONTRIBUTION TO THE IPCC FIFTH ASSESSMENT REPORT

Climate Change 2013: Impacts, Adaptation, and Vulnerability

Implementation Plan

1. Activities in Support of the Assessment Process

1.1. *Special Report on Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation (SREX)*

As decided at the 30th session of the IPCC (21-23 April 2009 • Antalya, Turkey), Working Group II has been tasked with preparation of this Special Report, in collaboration with Working Group I and with the involvement of the UN International Strategy for Disaster Reduction (ISDR). The development of this Special Report will entrain experts not normally involved in the IPCC process, including on-the-ground practitioners whose perspective and input will be sought for the adaptation, risk, and other relevant chapters of the WGII Fifth Assessment Report (AR5) volume. In support of the Special Report, ISDR plans to convene regional meetings to identify and capture technical information on risk, as well as legislative and policy instruments / documentation on regional and sub-national adaptation strategies. WGII intends to take advantage of this grey literature collection activity and apply it to both assessment processes.

The conclusions derived from SREX will be prominently featured and expanded upon in the WGII contribution to the AR5. See IPCC-XXXI/Doc.7 for more information.

1.2. *IPCC Expert Meetings and Workshops*

Working Group II collaborated with Working Groups I and III on identifying themes that cross traditional disciplinary boundaries and that require the involvement and perspectives of the respective scientific communities. To date, expert meetings and workshops – either approved or before the Panel for decision – in which Working Group II either leads or collaborates with other Working Groups include:

- WGI/WGII Expert Meeting on Detection and Attribution
- WGI/WGII Expert Meeting on Assessing and Combining Multi-Model Climate Projections
- WGII/WGIII Expert Meeting on Human Settlements and Infrastructure
- WGII/WGIII Expert Meeting on Socioeconomic Scenarios for Climate Change Impact and Response Assessments
- IPCC Expert Meeting on Consistent Evaluation of Uncertainties and Risks (working title)
- WGII/WGIII Expert Meeting on Economics, Costing Methods, and Ethics (working title)
- IPCC Workshop on Impacts of Ocean Acidification on Marine Biology and Ecosystems.

See Section 2 to determine how these meetings are phased into the overall production cycle to best support WGII AR5 development. Note that an expert meeting on SREX Case Studies was included in the 2010 work plan and budget.

In addition to these official IPCC expert meetings and workshops, Working Group II has taken advantage of opportunities to enhance programmatic communications via joint meetings with, for example, the Earth System Science Partnership (ESSP, 21-23 January 2009, Amsterdam, The Netherlands) and an INPE-hosted expert meeting on a Programme of Research on Climate Change Vulnerability, Impacts, and Adaptation (PRO-VIA, 4-6 November 2009, São José dos Campos, Brazil).

1.3. *Enhancing Regional Activities*

As budgetary and capacity issues permit, Working Group II is exploring possible expert meeting(s) to promote regional data access via the identification / capture of grey and non-English literature and the extraction of information from the UNFCCC National Adaptation Programmes of Action (NAPA) for the least developed countries (LDCs).

1.4. *Guidance Materials*

Working Group II intends to provide the following material to WGII AR5 authors, as chapter outlines are refined and drafting begins or is in its early stages: (i) the long version of the outline that emerged from the AR5 Scoping Meeting (13-17 July 2009 • Venice, Italy); (ii) the collated set of Government comments on the Scoping Paper; and (iii) relevant expert meeting and scoping meeting summary reports.

Every effort will be made to provide timely inputs, to ensure consistent application of terminology (e.g. detection and attribution statements) and uncertainty statements.

1.5. *Access to Data and Model Results*

Working Group II is taking advantage of an initiative by the U.S. National Research Council (NRC) Committees on the Human Dimensions of Global Change and on Climate Research to further advance phase II of the Representative Concentration Pathway (RCP) process, including the development of storylines and the development of new Integrated Assessment Model scenarios. The current focus involves, but is not limited to, raising awareness within the IAV community of both the RCP process itself and derived research products. Every effort is being made to ensure an overall WGII AR5 production schedule that allows the IAV community the time to publish early enough to ensure inclusion in the AR5 assessment.

Working Group II continues to work with the Task Group on Data and Scenario Support for Impact and Climate Analysis (TGICA), providing staff support to the co-chairs and their efforts to maintain / enhance holdings within the Data Distribution Center (DDC).

Related efforts include coordination with Working Group I scientists on the Program for Climate Model Diagnosis and Intercomparison (PCMDI) holdings and downscaling repositories.

1.6. *Improving the Involvement of Developing Countries and Countries with Economies in Transition (DC/EIT)*

Using SREX as prototype, services will be in place to enhance writing team communications via an array of technologies. Tools to directly support the drafting process include DC/EIT access to Stanford library resources, compiled grey literature archives, and drafts repository and exchange mechanisms. Web-based teleconferencing capabilities and more traditional list serves will be promoted to facilitate chapter writing team interactions.

As mentioned above, Working Group II also remains committed to enhanced regional data access, whether via formal IPCC expert meeting or other means.

Finally, as evidenced via the statistics provided in IPCC-XXXI/Doc.7 (i.e., DC/EIT represents 44% of the writing team membership), Working Group II actively recruits and entrains diverse regional, disciplinary experts.

1.7. Cross-Cutting Themes

Working Group II is actively participating in the development and refinement of guidance on the seven cross-cutting topics identified over the course of the AR5 Scoping Meeting:

- Consistent Evaluation of Uncertainties and Risks
- Costing and Economic Analysis
- Regional Aspects
- Water and the Earth System: Changes, Impacts, and Responses
- Carbon Cycle, including Ocean Acidification
- Ice Sheets and Sea-Level Rise
- Mitigation, Adaptation, and Sustainable Development.

Refer to Section 1.2 for a list of the expert meetings and workshop addressing these topics for which Working Group II is plays a lead and/or collaborative role.

2. Proposed Time Table

The provisional schedule provides all current WGII commitments that contribute to development of the WGII AR5 volume, including SREX. Milestones include expert meetings, a workshop, lead authors meetings, and WGII review periods (excluding internal peer review of 0-order drafts). The schedule does not reflect the significant WGII involvement in the Synthesis Report.

2009

14-16 September 2009

WGI/WGII Expert Meeting on Detection and Attribution - Switzerland

9-12 November 2009

SREX First Lead Authors Meeting – Panama

2010

25-27 January 2010

WGI/WGII Expert Meeting on Assessing and Combining Multi-Model Climate Projections - USA

22-25 March 2010

SREX Second Lead Authors Meeting – Vietnam (TBC)

April 2010 (exact dates TBD)

WGII/WGIII Expert Meeting on Human Settlements and Infrastructure - TBD

26 July - 20 September 2010 (8 weeks)

SREX Expert Review

October 2010 (exact dates TBD)

WGII/WGIII Expert Meeting on Socioeconomic Scenarios for Climate Change Impact and Response Assessments – TBD

25-28 October 2010

SREX Third Lead Authors Meeting – TBD

November 2010 (exact dates TBD)

IPCC Expert Meeting on Consistent Evaluation of Uncertainties and Risks (working title) – TBD

6-10 December 2010

WGII AR5 First Lead Authors Meeting – TBD

2011

12 January - 9 March 2011 (8 weeks)

SREX Government/Expert Review

February 2011 (exact dates TBD)

IPCC Workshop on Impacts of Ocean Acidification on Marine Biology and Ecosystems - Japan

March 2011 (exact dates TBD)

WGII/WGIII Expert Meeting on Economics, Costing Methods, and Equity (working title) – TBD

11-14 April 2011

SREX Fourth Lead Authors Meeting – TBD

29 June - 24 August 2011 (8 weeks)

SREX Final Government Distribution

12-16 September 2011

WGII AR5 Second Lead Authors Meeting - TBD

26-30 September 2011

Joint WGI/WGII Session to approve SREX SPM and accept underlying document - TBD

2012**12 March - 7 May 2012 (8 weeks)**

WGII AR5 Expert Review

6-10 August 2012

WGII AR5 Third Lead Authors Meeting - TBD

2013**28 January - 25 March 2013 (8 weeks)**

WGII AR5 Government and Expert Review

27-31 May 2013

WGII AR5 Fourth Lead Authors Meeting - TBD

28 October - 20 December 2013 (8 weeks)

WGII AR5 Final Government Distribution

2014**24-28 February 2014**

WGII Plenary to approve AR5 SPM and accept underlying document - TBD

3. Budgetary Implications for the IPCC Trust Fund

Cost projections (in Swiss francs) include only those Lead Authors Meetings and supporting activities that directly contribute to development of the WGII AR5 volume. Costs associated with the SREX have not been included below, but can be found in IPCC-XXXI/Doc.2. All WGII-related expert meetings and a workshop currently approved or planned (including that for SREX Case Studies) have been captured in the second table. Because these are duplicated in other Working Group implementation plans, their cost projections were not added to the overall WGII AR5 cost estimate.

A two-part WGII contribution to the AR5 with 30 chapters resulted in the following assumptions:

- On the order of 300 Coordinating Lead Authors, Lead Authors, and Review Editors
- DC/EIT target of 40% of the total, thus 120 experts
- Five (5) DC/EIT trips budgeted for each to facilitate WGII Bureau involvement
- Review Editors not invited until the third Lead Authors Meeting
- Travel included to support cross-WG integration at Lead Authors Meetings (LAMs 2-4)
- Regional Expert Meetings to be dovetailed with other community efforts to the extent possible
- 15 DC/EIT CLAs involved in the WGII session to approve the Summary for Policymakers and accept the underlying document.

WGII Contribution to IPCC Fifth Assessment Report	DC/EIT Support	Other Expenditure	Sub-Total
WGII AR5 First Lead Authors Meeting (2010)	472,500 105 journeys	70,875	543,375
WGII AR5 Second Lead Authors Meeting (2011)	472,500 105 journeys	70,875	543,375
WGII AR5 Third Lead Authors Meeting (2012)	562,500 125 journeys	84,375	646,875
WGII AR5 Fourth Lead Authors Meeting (2013)	562,500 125 journeys	84,375	646,875
WGII AR5 Regional Expert Meeting(s) (2011-12)	225,000 50 journeys	33,750	258,750
Cross-WG Lead Authors Meeting Support (2011-13)	135,000 30 journeys	20,250	155,250
WGII AR5 Plenary Approval Session (2014)	67,500 15 journeys	10,125	77,625
Subtotal	2,497,500 555 journeys	374,625	2,872,125

IPCC Expert Meeting / Workshop	DC/EIT Support	Other Expenditure	Sub-Total
WGI/WGII Expert Meeting on Detection and Attribution	72,000 16 journeys	10,800	82,800
WGI/WGII Expert Meeting on Assessing and Combining Multi-Model Climate Projections	72,000 16 journeys	10,800	82,800
Expert Meeting in support of SREX Case Studies	54,000 12 journeys	8,100	62,100
WGII/WGIII Expert Meeting on Human Settlements and Infrastructure	135,000 30 journeys	20,250	155,250
WGII/WGIII Expert Meeting on Socioeconomic Scenarios for Climate Change Impact and Response Assessments	180,000 40 journeys	27,000	207,000
IPCC Expert Meeting on Consistent Evaluation of Uncertainties and Risks (working title)	90,000 20 journeys	13,500	103,500
WGII/WGIII Expert Meeting on Economics, Costing Methods, and Equity (working title)	135,000 30 journeys	20,250	155,250
IPCC Workshop on Impacts of Ocean Acidification on Marine Biology and Ecosystems	135,000 30 journeys	20,250	155,250