

**THIRTY-SECOND SESSION OF THE IPCC**  
**Busan, 11-14 October 2010**

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ENGLISH ONLY

**THE IPCC FIFTH ASSESSMENT REPORT (AR5)**

**Progress Report of Working Group II**

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

**PROGRESS REPORT**  
IPCC Working Group II Contribution to the Fifth Assessment Report (AR5)  
(Submitted by the Co-Chairs of Working Group II)

**1. Milestones since IPCC-XXXI (Bali, Indonesia • 26-29 October 2009)**

Coordination Highlights

The Working Group II Technical Support Unit (WGII TSU) took the lead on designing the IPCC-wide AR5 nominations system, and worked closely with sister TSUs and the IPCC Secretariat to refine requirements. On-line mechanisms were also developed to facilitate review of submitted applications. Immediately after endorsement of the working group outlines at IPCC-XXXI, the distributed node architecture was tested and deployed to facilitate the Call for AR5 Nominations, issued to IPCC Focal Points and Observer Organizations representatives via the IPCC Secretariat on 15 January 2010.

Working Group II has worked closely with the Secretariat and Working Groups I and III to plan and execute a series of calendar year (CY) 2010 Expert Meetings and to schedule and organize the CY2011 slate agreed by Governments as important to the WGII AR5 development cycle. Refer to <<http://ipcc-wg2.gov/meetings/EMs/index.html>> for brief descriptions of the WGII-relevant meetings, and the meeting reports for those conducted to date. All posted expert meetings are joint endeavors, involving close coordination with sister TSUs. Note that descriptions of the Cross-Working Group Meeting on Consistent Evaluation of Uncertainties and Risks (Jasper Ridge, California, USA • 6-7 July 2010) and TGICA-16 (Boulder, Colorado, USA • 4-6 August 2010) are provided under separate cover.

WGII AR5 Writing Team Selection

The Call to serve as Coordinating Lead Authors / Lead Authors / Review Editors (CLA/LA/REs) for the WGII contribution to the AR5 resulted in 1,217 total nominations. To facilitate writing team selections by the WGII Bureau, the web-based tool captured a subset of the fields collected by the nominations system – that is, complete name, citizenship, World Meteorological Organization (WMO) region, whether the expert was a Government nominee, and whether nominated for either of the other two Working Groups. Individual CVs were accessible via this site, as were archives of the raw data of all collected fields. Respected scientists and researchers were consulted as needed to provide evaluations of chapter candidates, especially as regards young scientists new to the IPCC process and scientists with whom the WGII Bureau might not have been familiar. Working Groups I and III were engaged early in the selection process to resolve situations where candidate authors were nominated for multiple AR5 volumes<sup>1</sup>, and to ascertain optimal placement for the benefit of the IPCC as a whole rather than competing for talent. Intent of these deliberations was to enhance cross-working group perspective and integration via sometimes non-traditional placements. Coordination was especially important for the regional (Part B) component of the WGII AR5.

Principles governing WGII Bureau work included: (i) appropriate expertise to address effectively the Plenary Approved Outline (PAO, see <<http://ipcc-wg2.gov/AR5/ar5-outline.html>>); (ii) representation of the full range of scientific opinion; (iii) no repeat CLA pairs from the Fourth Assessment Report (AR4), in pursuit of fresh insights; (iv) at least 40% developing country / economy-in-transition (DC/EIT) representation; (v) improved gender balance; (vi) target of 50% not directly involved in the AR4 cycle in a substantive role; (vii) target of 20% ‘young’ scientist involvement (i.e., having obtained highest degree within the past 10 years) to ensure experienced authors for future assessments; and (viii) identification of senior scientists for RE slots.

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<sup>1</sup> The WGII AR5 nominations database indicates that 384 of the 1,217 nominees were nominated for other AR5 volumes, as follows: WGI (183), WGIII (248), and both WGI and WGIII (47).

Recommended writing team memberships were presented to the full IPCC Bureau at its 41<sup>st</sup> Session (Geneva, Switzerland • 19-20 May 2010). Appointment memos were issued on 26 May 2010, with responses requested by 7 June. Gaps were filled to the extent practicable in time for the joint WGI/WGII/WGIII author team release on 23 June 2010. The WGII TSU is actively working to help its volunteer authors solidify funding arrangements, on an as needed basis. Much of this work was accomplished prior to CLA/LA/REs accepting appointments, although this work is ongoing.

As of release of this status report, the WGII Bureau has yet to determine how best to cope with the loss of the Chapter 18 CLA (Steve Schneider) and Chapter 3 RE (Igor Shiklomanov). These slots remain vacant, as the WGII Bureau determines the best possible scientists to provide needed expertise.

## WGII AR5 Meetings

The WGII TSU has secured hosts for many of its AR5 meetings, including all four approved regional expert meetings and its first two Lead Authors Meetings. The Governments of Japan and the United States of America have graciously offered to host the first two Lead Authors Meetings, respectively. CY2011 highlights – including information on host countries and timing for the regional expert meetings – are provided in Section 4, and map to the proposed budget included in IPCC-XXXII/Doc.3. Refer to <[http://ipcc-wg2.gov/AR5/AR5\\_provisional\\_schedule.html](http://ipcc-wg2.gov/AR5/AR5_provisional_schedule.html)> for the full WGII AR5 development schedule.

The First Lead Authors Meeting (LAM1) will take place at the Tsukuba International Conference Center (Tsukuba, Japan) from 11-14 January 2011. Discussions with Japanese Government officials were initiated in early 2010, in an effort to achieve efficiencies by dovetailing LAM1 with the Joint WGI/WGII Expert Meeting on Impacts of Ocean Acidification on Marine Biology and Ecosystems (Okinawa, Japan • 17-19 January 2011). An MOU formalizing the arrangement was sent by the WGII Co-Chairs to Mr. Yutaka Matsuzawa (Director, Office for Global Environment Research, Ministry of the Environment Japan) on 19 August 2010. The National Institute for Environmental Studies (NIES) serves as the local host. A password-protected Author Portal was launched on 17 August 2010 to provide an array of tools to CLA/LAs in support of the assessment process, with LAM1 logistics to be posted on this web site by the end of September 2010.

The Second Lead Authors Meeting will take place in San Francisco, California, USA, from 12-16 December 2011. The U.S. Department of State has already offered assistance with visas and other logistical matters, but exact details (including venue) are not available at this time.

## **2. WGII AR5 Writing Teams**

Refer to <[http://www.ipcc-wg2.gov/AR5/AR5\\_authors.php](http://www.ipcc-wg2.gov/AR5/AR5_authors.php)> for a dynamically updated table of writing team members. The web version provides name, role, and affiliation, and a posted PDF also provides information regarding the entity – be it Government or organization – supporting involvement in the WGII AR5 assessment cycle (see <[http://www.ipcc-wg2.gov/AR5/WGII-AR5\\_Authors.pdf](http://www.ipcc-wg2.gov/AR5/WGII-AR5_Authors.pdf)>). An abridged version of the PDF is attached as Annex A, and provides name, role, and supporting entity<sup>2</sup> for each writing team member.

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<sup>2</sup> “Supporting Entity” is based on the citizenship tag in the WGII AR5 nominations database, as submitted by IPCC Focal Points, Observer Organization representatives, and WGII Bureau members. In cases where an organization is listed, citizenship is used as the default for the statistics presented in Section 3. The WGII TSU has contacted affected Focal Points in all instances where a non-Focal Point nomination might have financial repercussions, and the ‘Supporting Entity’ column in Annex A reflects the WGII TSU good faith effort to take into account individual author circumstances while giving credit to the parties providing financial support. This column is sometimes at odds with the ‘Country of Residence’ field collected by the AR5 nominations tool. DC/EIT scientists apply to the IPCC Secretariat for IPCC Trust Fund support.

### 3. WGII AR5 Writing Team Statistics

The call for WGII AR5 nominations resulted in 1,217 applications – 1,208 at time of appointment letter issuance, with nine additional applications solicited by the WGII Bureau in response to regrets or withdrawals.

A total of 79 Governments submitted nominations, and 92 nationalities were represented in the candidate pool. The following table shows nominations distribution within the six WMO regions and by region type.<sup>3</sup>

<b>WGII AR5 Nominations Pool: Regional Breakout</b>		
<i>WMO Region</i>	<i>Absolute</i>	<i>Percentage</i>
I – Africa	98	8%
II – Asia	251	20%
III – South America	70	6%
IV – North America, Central America, and the Caribbean	327	27%
V – South-West Pacific	85	7%
VI – Europe	386	32%
<b>TOTAL</b>	<b>1,217</b>	
<i>Region Type</i>		
Developing Countries	450	37%
Economies-in-Transition	17	1%
Industrialized Countries	750	62%
<b>TOTAL</b>	<b>1,217</b>	

The WGII Bureau pursued two CLAs per chapter (usually one DC/EIT and one developed country representative). Chapter 24 deviated from this approach, as the subject matter is too broad and the regional make-up required such. Further, the WGII Bureau acted under general guidance of six LAs per chapter and two REs – though LA selections sometimes strayed from this goal depending on chapter PAO requirements. Most WGII Bureau members assigned themselves RE roles for potentially controversial chapters, thus adding a third RE on several chapters.

DC/EIT and gender balance concerns were considered across both parts of the WGII volume – and not necessarily within each of the 30 chapters comprising it – as the WGII Bureau evaluated the chapter-specific pool of nominations from which to render decisions. Of 1,217 applications comprising the WGII AR5 candidate pool, 467 (38%) were DC/EIT nominees and 299 (25%) female nominees. The WGII Bureau surpassed both these percentages and the targets delineated in the “WGII AR5 Writing Team Selection” subsection on page 1.

A total of 309 scientists comprise the writing teams listed in Annex A. The candidate pool of 1,217 nominees yielded 60 CLAs, 184 LAs, and 65 REs – representing 72 unique nationalities. Of the selected individuals, 259 (84%) are IPCC Focal Point nominees, with the balance of 50 originating from Observer Organization representatives or WGII Bureau members themselves.

<sup>3</sup> Refer to <[http://www.wmo.int/pages/members/index\\_en.html](http://www.wmo.int/pages/members/index_en.html)> for the countries comprising each region and to <[http://www.oecd.org/document/53/0,3343,en\\_2649\\_34361\\_2346101\\_1\\_1\\_1\\_1,00.html](http://www.oecd.org/document/53/0,3343,en_2649_34361_2346101_1_1_1_1,00.html)> for a listing of EIT countries used as to generate statistics for this table.

The following table provides the distribution of writing team selections within the six WMO regions and by region type (see footnote 3). It also captures the numbers of females, DC/EIT, and 'new' scientists<sup>4</sup> on the teams, in addressing aforementioned targets. The PAO does contain chapter topics never broached before (e.g., open oceans), places additional emphasis on adaptation (four chapters), and integrates issues that had not traditionally been within the scope of Working Group II (e.g., economics of adaptation). As such, new communities were recruited and engaged.

<b>WGII AR5 Writing Teams: Regional Breakout</b>		
<i>WMO Region</i>	<i>Absolute</i>	<i>Percentage</i>
I – Africa	36	12%
II – Asia	42	14%
III – South America	19	6%
IV – North America, Central America, and the Caribbean	85	27%
V – South-West Pacific	32	10%
VI – Europe	95	31%
<b>TOTAL</b>	<b>309</b>	
<b>Region Type</b>		
Developing Countries	116	38%
Economies-in-Transition	10	3%
Industrialized Countries	183	59%
<b>TOTAL</b>	<b>309</b>	
<b>AR5 Expert Selection</b>		
Female	83	27%
DC/EIT	126	41%
'New'	168	54%

As recognized by the IPCC Bureau in an earlier rendition (via BUR-XLI/Doc.12), the numbers in the preceding table reflect favorably when compared to comparable statistics developed for the WGII AR4.

The WGII TSU also compiled a statistic on 'young' scientists by culling the data from CVs submitted as part of the nominations upload. This label was applied if the selected individual had obtained his/her highest degree within the past 10 years (i.e., in CY2001 or later). This screen reveals that the WGII Bureau has involved 71 'young' scientists in the AR5 cycle, ensuring the involvement and training of the next generation of climate assessment experts and surpassing the WGII Bureau target of 20% (i.e., 23%).

Given the sheer size of the WGII AR5 (two parts consisting of 30 chapters), the WGII Bureau acknowledges the imperative to keep writing teams small enough to make Lead Author Meetings and production/logistics manageable; however, this concern is countered by the need to entrain a

<sup>4</sup> 'New' connotes an expert not engaged in the previous assessment cycle in a substantive CLA/LA/RE role (AR4 vs. AR5), and not involved with the IPCC Special Reports currently under development. The AR4 comparison was compiled using the UK MetOffice AR4 database; the current WGII database reveals 36 authors from the IPCC Special Report on "Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation" also serving on WGII AR5 writing teams. In many cases, writing team members classified as 'new' do have a history with the IPCC – as Contributing Authors or Expert Reviewers on the Working Group II contribution to the AR4; as CLA/LA/REs on either of the other two Working Group contributions to the AR4 or its Synthesis Report; or as writing team members on previous Special Reports or IPCC assessments, such as the Third Assessment Report (TAR). TAR and previous Special Report comparisons were enabled via the database maintained by the U.S.-hosted TSU through CY2002.

comprehensive breadth of perspective and expertise. Very hard choices were made to limit the CLA/LA/RE to a total of 309 individuals. The WGII Bureau will actively encourage the recruitment of Contributing Authors to ensure adequate regional coverage.

#### **4. 2011 Work Plan and Budget Repercussions**

Changes to the WGII AR5 work plan that are reflected in the 2011 IPCC Trust Fund Programme and Budget (IPCC-XXXII/Doc.3) include:

- Moving the CY2010 Ocean Acidification expert meeting to CY2011, to dovetail with the First Lead Authors Meeting which also will also be held in Japan
- Moving the CY2010 Human Settlements expert meeting to CY2011, which had been postponed due to the volcanic eruption at Eyjafjalla Glacier in southern Iceland restricting air traffic
- Increasing the number of trips for the four WGII Regional Expert Meetings from 50 to 100.

The following list captures the complement of WGII AR5 meetings to take place in CY2011 (with location and dates provided; see <[www.ipcc-wg2.gov](http://www.ipcc-wg2.gov)> for review periods and more detail):

11-14 January 2011

WGII AR5 First Lead Authors Meeting – Tsukuba, Japan

17-19 January 2011

WGII/WGIII Expert Meeting on Impacts of Ocean Acidification on Marine Biology and Ecosystems – Okinawa, Japan

16-18 March 2011

Southeast Asia Regional Expert Meeting – Dhaka, Bangladesh

22-24 March 2011

WGII/WGIII Expert Meeting on Human Settlement, Water, Energy and Transport Infrastructure - Mitigation and Adaptation Strategies – Calcutta, India

April 2011 (exact dates TBD)

Small Island Developing States Regional Expert Meeting – Grenada (TBC)

14-16 April 2011

South and Central America Regional Expert Meeting – São José dos Campos, Brazil

20-21 June 2011 (TBC)

WGI/WGII/WGIII Expert Meeting on Geoengineering – Peru (exact location TBD)

22-24 June 2011

WGII/WGIII Expert Meeting on Economic Analysis, Costing Methods, and Ethics – Peru (exact location TBD)

9-11 August 2011

Least Developed Countries and Africa Regional Expert Meeting – Accra, Ghana

12-16 December 2011

Second Lead Authors Meeting - San Francisco, CA, USA

## WGII AR5 Chapter Teams

IPCC Working Group II Contribution to  
The Fifth Assessment Report (AR5):  
Climate Change 2013: Impacts, Adaptation, and Vulnerability

### Annex A. Coordinating Lead Authors, Lead Authors, and Review Editors

#### PART A: GLOBAL AND SECTORAL ASPECTS

##### Context for the AR5

Chapter	Role	Name	Supporting Entity
<b>Ch. 1: Point of departure</b>	CLA	<b>Avelino G. Suarez</b>	Cuba
	CLA	<b>Gary Yohe</b>	United States of America
	LA	<b>Marco Bindi</b>	Italy
	LA	<b>Cecilia Conde</b>	Mexico
	LA	<b>William Hare</b>	Germany
	LA	<b>Rupa Mukerji</b>	India
	LA	<b>Michael Prather</b>	United States of America
	LA	<b>Asuncion Lera St.Clair</b>	Norway
	RE	<b>Hervé Le Treut</b>	France
RE	<b>Jean Palutikof</b>	Australia	
<b>Ch. 2: Foundations for decisionmaking</b>	CLA	<b>Roger Jones</b>	Australia
	CLA	<b>Anand Patwardhan</b>	India
	LA	<b>Stewart Cohen</b>	Canada
	LA	<b>Suraje Dessai</b>	United Kingdom of Great Britain & Northern Ireland
	LA	<b>Annamaria Lammel</b>	France
	LA	<b>Robert Lempert</b>	United States of America
	LA	<b>Monirul Mirza</b>	Canada
	LA	<b>Hans von Storch</b>	Germany
	RE	<b>Rosina Bierbaum</b>	United States of America
RE	<b>Nicholas King</b>	South Africa	

\* Additional members may be added by the WGII Bureau for teams without the full complement of Lead Authors and Review Editors.

\*\* See footnote 2 on page 2 for a definition of 'Supporting Entity'.

## WGII AR5 Chapter Teams

### Natural and Managed Resources and Systems, and Their Uses

Chapter	Role	Name	Supporting Entity
<b>Ch. 3: Freshwater resources</b>	CLA	<b>Blanca Jimenez</b>	Mexico
	CLA	<b>Taikan Oki</b>	Japan
	LA	<b>Nigel Arnell</b>	United Kingdom of Great Britain & Northern Ireland
	LA	<b>Gerardo Benito</b>	Spain
	LA	<b>J. Graham Cogley</b>	Canada
	LA	<b>Petra Doell</b>	Germany
	LA	<b>Tong Jiang</b>	China
	LA	<b>Shadrack S. Mwakalila</b>	United Republic of Tanzania
	RE	<b>Pavel Kabat</b>	Netherlands
<b>Ch. 4: Terrestrial and inland water systems</b>	CLA	<b>Robert Scholes</b>	South Africa
	CLA	<b>Josef Settele</b>	Germany
	LA	<b>Richard Betts</b>	United Kingdom of Great Britain & Northern Ireland
	LA	<b>Stuart Bunn</b>	Australia
	LA	<b>Paul Leadley</b>	France
	LA	<b>Daniel Nepstad</b>	United States of America
	LA	<b>Jonathan Overpeck</b>	United States of America
	LA	<b>Miguel Angel Taboada</b>	Argentina
	RE	<b>Andreas Fischlin</b>	Switzerland
	RE	<b>José Moreno</b>	Spain
	RE	<b>Terry L. Root</b>	United States of America
<b>Ch. 5: Coastal systems and low-lying areas</b>	CLA	<b>Iñigo J. Losada</b>	Spain
	CLA	<b>Poh Poh Wong</b>	Singapore
	LA	<b>Jean-Pierre Gattuso</b>	France
	LA	<b>Abdellatif Khattabi</b>	Morocco
	LA	<b>Susanne Moser</b>	United States of America
	LA	<b>Yoshiki Saito</b>	Japan
	LA	<b>Asbury Sallenger</b>	United States of America
	LA	<b>Anond Snidvongs</b>	Thailand
	RE	<b>Robert Nicholls</b>	United Kingdom of Great Britain & Northern Ireland
RE	<b>Filipe Santos</b>	Portugal	



## WGII AR5 Chapter Teams

### Natural and Managed Resources and Systems, and Their Uses (con't)

Chapter	Role	Name	Supporting Entity
<b>Ch. 6: Ocean systems</b>	CLA	<b>David Karl</b>	United States of America
	CLA	<b>Hans-O. Pörtner</b>	Germany
	LA	<b>Phil Boyd</b>	New Zealand
	LA	<b>Salvador Lluch-Cota</b>	Mexico
	LA	<b>Yukihiko Nojiri</b>	Japan
	LA	<b>Daniela Schmidt</b>	United Kingdom of Great Britain & Northern Ireland
	LA	<b>Peter Zavalov</b>	Russian Federation
	RE	<b>Kenneth Drinkwater</b>	Norway
	RE	<b>Alexander Polonsky</b>	Ukraine
<b>Ch. 7: Food production systems and food security</b>	CLA	<b>John R Porter</b>	Denmark
	CLA	<b>Liyong Xie</b>	China
	LA	<b>Andrew Challinor</b>	United Kingdom of Great Britain & Northern Ireland
	LA	<b>Kevern Cochrane</b>	FAO
	LA	<b>Mark Howden</b>	Australia
	LA	<b>Muhammad Mohsin Iqbal</b>	Pakistan
	LA	<b>David Lobell</b>	United States of America
	LA	<b>María Isabel Travasso</b>	Argentina
	RE	<b>Pramod Aggarwal</b>	India
RE	<b>Kaija Hakala</b>	Finland	

## WGII AR5 Chapter Teams

### Human Settlements, Industry, and Infrastructure

Chapter	Role	Name	Supporting Entity
<b>Ch. 8: Urban areas</b>	CLA	<b>Aromar Revi</b>	India
	CLA	<b>David Satterthwaite</b>	United Kingdom of Great Britain & Northern Ireland
	LA	<b>Fernando Aragon</b>	Mexico
	LA	<b>Jan Corfee-Morlot</b>	USA / OECD
	LA	<b>Robert B. R. Kiunsi</b>	United Republic of Tanzania
	LA	<b>Mark Pelling</b>	United Kingdom of Great Britain & Northern Ireland
	LA	<b>Debra Roberts</b>	South Africa
	LA	<b>William Solecki</b>	United States of America
	RE	<b>John Balbus</b>	United States of America
	RE	<b>Omar-Dario Cardona</b>	Colombia
<b>Ch. 9: Rural areas</b>	CLA	<b>Purnamita Dasgupta</b>	India
	CLA	<b>John Morton</b>	United Kingdom of Great Britain & Northern Ireland
	LA	<b>David Dodman</b>	Jamaica
	LA	<b>Baris Karapinar</b>	Switzerland
	LA	<b>Francisco Meza</b>	Chile
	LA	<b>Marta Rivera-Ferre</b>	Spain
	LA	<b>Aissa Toure Sarr</b>	Senegal
	LA	<b>Katharine Vincent</b>	South Africa
	RE	<b>Habib Amamou</b>	Tunisia
	RE	<b>Edward Carr</b>	United States of America
<b>Ch. 10: Key economic sectors and services</b>	CLA	<b>Douglas Arent</b>	United States of America
	CLA	<b>Richard S.J. Tol</b>	Netherlands
	LA	<b>Eberhard Faust</b>	Germany
	LA	<b>Joseph P. Hella</b>	Tanzania
	LA	<b>Surender Kumar</b>	India
	LA	<b>Ken Strzepek</b>	UNU / United States of America
	LA	<b>Ferenc L. Tóth</b>	IAEA / Hungary
	LA	<b>Denghua Yan</b>	China
	RE	<b>Amjad Abdulla</b>	Maldives
	RE	<b>Haroon Kheshgi</b>	United States of America
	RE	<b>He Xu</b>	China

## WGII AR5 Chapter Teams

### Human Health, Well-Being, and Security

Chapter	Role	Name	Supporting Entity
<b>Ch. 11: Human health</b>	CLA	Rita Colwell	United States of America
	CLA	Alistair Woodward	New Zealand
	LA	Dave Chadee	Trinidad and Tobago
	LA	Yasushi Honda	Japan
	LA	Qiyong Liu	China
	LA	Jane Mukarugwiza Olwoch	South Africa
	LA	Boris Revich	Russian Federation
	LA	Rainer Sauerborn	Sweden
	LA	Kirk Smith	United States of America
	RE	Ulisses Confalonieri	Brazil
	RE	Andrew Haines	United Kingdom of Great Britain & Northern Ireland
<b>Ch. 12: Human security</b>	CLA	Neil Adger	United Kingdom of Great Britain & Northern Ireland
	CLA	Juan Pulhin	Philippines
	LA	Jonathon Barnett	Australia
	LA	Geoff Dabelko	United States of America
	LA	Grete Hovelsrud	Norway
	LA	Rajeswar Jonnalagadda	India
	LA	Marc Levy	United States of America
	LA	Ursula Oswald-Spring	Mexico
	RE	Paulina Aldunce	Chile
	RE	Robin Leichenko	United States of America
<b>Ch. 13: Livelihoods and poverty</b>	CLA	Lennart Olsson	Sweden
	CLA	Maggie Opondo	Kenya
	LA	Arun Agrawal	United States of America
	LA	Siri Eriksen	Norway
	LA	Shiming Ma	China
	LA	Tom Mitchell	United Kingdom of Great Britain & Northern Ireland
	LA	Petra Tschakert	United States of America
	LA	Sumaya Zakieldean	Sudan
	RE	Etienne Piguet	Switzerland
RE	Rita Sharma	India	

## WGII AR5 Chapter Teams

### Adaptation

Chapter	Role	Name	Supporting Entity
<b>Ch. 14: Adaptation needs and options</b>	CLA	Saleemul Huq	Bangladesh
	CLA	Ian Noble	Australia
	LA	Yury Anokhin	Russian Federation
	LA	JoAnn Carmin	United States of America
	LA	Dieudonne Goudou	Niger
	LA	Felino Lansigan	Philippines
	LA	Balgis Osman-Elasha	Sudan
	LA	Alicia Villamizar	Venezuela
	RE	Anthony Patt	Austria
	RE	Kuniyoshi Takeuchi	Japan
<b>Ch. 15: Adaptation planning and implementation</b>	CLA	Nobuo Mimura	Japan
	CLA	Roger Pulwarty	United States of America
	LA	Do Minh Duc	Vietnam
	LA	Ibrahim Elshinnawy	Egypt
	LA	Margaret Hiza Redsteer	United States of America
	LA	He-Qing Huang	China
	LA	Johnson Ndi Nkem	Cameroon
	LA	Roberto A. Sanchez Rodriguez	Mexico
	RE	Richard Moss	United States of America
	RE	Walter Vergara	World Bank

## WGII AR5 Chapter Teams

### Adaptation (con't)

Chapter	Role	Name	Supporting Entity
<b>Ch. 16: Adaptation opportunities, constraints, and limits</b>	CLA	Richard Klein	Sweden
	CLA	Guy Midgley	South Africa
	LA	Mozaharul Alam	Bangladesh
	LA	Frans Berkhout	Netherlands
	LA	Kirstin Dow	United States of America
	LA	Yu'e Li	China
	LA	Elena Mateescu	Romania
	LA	Benjamin Preston	United States of America
	LA	Rebecca Shaw	United States of America
	RE	Habiba Gitay	Australia
	RE	James Thurlow	South Africa
<b>Ch. 17: Economics of adaptation</b>	CLA	Muyeye Chambwera	Zimbabwe
	CLA	Geoff Heal	United States of America
	LA	Carolina Dubeux	Brazil
	LA	Stephane Hallegatte	France
	LA	Liza Leclerc	Canada
	LA	Anil Markandya	Spain
	LA	Bruce McCarl	United States of America
	LA	Reinhard Mechler	Austria
	LA	James Neumann	United States of America
	RE	Eduardo Calvo	Peru
	RE	Ana Iglesias	Spain
RE	Stale Navrud	Norway	

## WGII AR5 Chapter Teams

### Multi-Sector Impacts, Risks, Vulnerabilities, and Opportunities

Chapter	Role	Name	Supporting Entity
<b>Ch. 18: Detection and attribution of observed impacts</b>	CLA	<b>Wolfgang Cramer</b>	Germany
	LA	<b>Maximilian Auffhammer</b>	United States of America
	LA	<b>Christian Huggel</b>	Switzerland
	LA	<b>Ulf Molau</b>	Sweden
	LA	<b>Maria Assuncao Silva Dias</b>	Brazil
	LA	<b>Andrew Solow</b>	United States of America
	LA	<b>Dáithí Stone</b>	Canada / South Africa
	LA	<b>Lourdes Tibig</b>	Philippines
	RE	<b>Rik Leemans</b>	Netherlands
	RE	<b>Bernard Seguin</b>	France
	RE	<b>Neville Smith</b>	Australia
<b>Ch. 19: Emergent risks and key vulnerabilities</b>	CLA	<b>Maximiliano Campos</b>	Costa Rica
	CLA	<b>Michael Oppenheimer</b>	United States of America
	LA	<b>Joern Birkmann</b>	Germany
	LA	<b>Wendy B Foden</b>	South Africa
	LA	<b>George Luber</b>	United States of America
	LA	<b>Brian O'Neill</b>	United States of America
	LA	<b>Kiyoshi Takahashi</b>	Japan
	LA	<b>Rachel Warren</b>	United Kingdom of Great Britain & Northern Ireland
	RE	<b>Mike Brklacich</b>	Canada
	RE	<b>Sergey Semenov</b>	Russian Federation
<b>Ch. 20: Climate-resilient pathways: adaptation, mitigation, and sustainable develop</b>	CLA	<b>Fatima Denton</b>	Gambia
	CLA	<b>Thomas Wilbanks</b>	United States of America
	LA	<b>Ian Burton</b>	Canada
	LA	<b>Achala Chandani Abeysekara</b>	Sri Lanka
	LA	<b>Qingzhu Gao</b>	China
	LA	<b>Maria Carmen Lemos</b>	United States of America
	LA	<b>Toshihiko Masui</b>	Japan
	LA	<b>Karen O'Brien</b>	Norway
	LA	<b>Koko Warner</b>	Germany
	RE	<b>Suruchi Bhadwal</b>	India
	RE	<b>Walter Leal</b>	Germany
	RE	<b>Jean-Pascal van Ypersele</b>	Belgium

## WGII AR5 Chapter Teams

### PART B: REGIONAL ASPECTS

Chapter	Role	Name	Supporting Entity
<b>Ch. 21: Regional context</b>	CLA	<b>Bruce Charles Hewitson</b>	South Africa
	CLA	<b>Anthony Janetos</b>	United States of America
	LA	<b>Timothy Carter</b>	Finland
	LA	<b>Filippo Giorgi</b>	Italy
	LA	<b>Richard Jones</b>	United Kingdom of Great Britain & Northern Ireland
	LA	<b>Won-Tae Kwon</b>	Republic of Korea
	LA	<b>Linda Mearns</b>	United States of America
	LA	<b>Lisa Schipper</b>	Sweden
	LA	<b>Maarten van Aalst</b>	Netherlands
	RE	<b>Tom Downing</b>	United States of America
	RE	<b>Phil Duffy</b>	United States of America

### Regional Chapters

Chapter	Role	Name	Supporting Entity
<b>Ch. 22: Africa</b>	CLA	<b>Isabelle Niang</b>	Senegal
	CLA	<b>Oliver Ruppel</b>	Namibia
	LA	<b>Mohamed Abdrabo</b>	Egypt
	LA	<b>Ama Essel</b>	Ghana
	LA	<b>Papa Demba Fall</b>	Senegal
	LA	<b>Fatou Ndeye Gaye</b>	Gambia
	LA	<b>Nsalambi Nkongolo</b>	Democratic Republic of the Congo
	LA	<b>Marie-Louise Rakotondrifara</b>	Madagascar
	RE	<b>Pauline Dube</b>	Botswana
	RE	<b>Neil Leary</b>	United States of America

## WGII AR5 Chapter Teams

### Regional Chapters (con't)

Chapter	Role	Name	Supporting Entity
<b>Ch. 23: Europe</b>	CLA	<b>Sari Kovats</b>	United Kingdom of Great Britain & Northern Ireland
	CLA	<b>Riccardo Valentini</b>	Italy
	LA	<b>Laurens Bouwer</b>	Netherlands
	LA	<b>Elena Georgopoulou</b>	Greece
	LA	<b>Daniela Jacob</b>	Germany
	LA	<b>Eric Martin</b>	France
	LA	<b>Mark Rounsevell</b>	United Kingdom of Great Britain & Northern Ireland
	LA	<b>Jean-Francois Soussana</b>	France
	RE	<b>Lucka Kajfez Bogataj</b>	Slovenia
	RE	<b>Roman Corobov</b>	Republic of Moldova
	RE	<b>Joan O. Grimalt</b>	Spain
<b>Ch. 24: Asia</b>	CLA	<b>Yasuaki Hijioka</b>	Japan
	CLA	<b>Erda Lin</b>	China
	CLA	<b>Joy Jacqueline Pereira</b>	Malaysia
	LA	<b>Richard Corlett</b>	Singapore
	LA	<b>Xuefeng Cui</b>	China
	LA	<b>Gregory Insarov</b>	Russian Federation
	LA	<b>Rodel Lasco</b>	Philippines
	LA	<b>Elisabet Lindgren</b>	Sweden
	LA	<b>Akhilesh Surjan</b>	India
	RE	<b>Rosa Perez</b>	Philippines
	RE	<b>Kazuhiko Takeuchi</b>	Japan
<b>Ch. 25: Australasia</b>	CLA	<b>Roger Kitching</b>	Australia
	CLA	<b>Andy Reisinger</b>	New Zealand
	LA	<b>Francis Chiew</b>	Australia
	LA	<b>Lesley Hughes</b>	Australia
	LA	<b>Paul Newton</b>	New Zealand
	LA	<b>Sandra Schuster</b>	Australia
	LA	<b>Andrew Tait</b>	New Zealand
	LA	<b>Penny Whetton</b>	Australia
	RE	<b>Blair Fitzharris</b>	New Zealand
	RE	<b>David Karoly</b>	Australia



## WGII AR5 Chapter Teams

### Regional Chapters (con't)

Chapter	Role	Name	Supporting Entity
<b>Ch. 26: North America</b>	CLA	<b>Patricia Romero Lankao</b>	Mexico
	CLA	<b>Joel Smith</b>	United States of America
	LA	<b>Noah Diffenbaugh</b>	United States of America
	LA	<b>Carlos Gay-Garcia</b>	Mexico
	LA	<b>Preston Hardison</b>	United States of America
	LA	<b>Patrick Kinney</b>	United States of America
	LA	<b>Paul Kirshen</b>	United States of America
	LA	<b>Paul Kovacs</b>	Canada
	LA	<b>Barry Smit</b>	Canada
	RE	<b>Ana Rosa Moreno</b>	Mexico
	RE	<b>Linda Mortsch</b>	Canada
<b>Ch. 27: Central and South America</b>	CLA	<b>Graciela Odilia Magrin</b>	Argentina
	CLA	<b>Carlos Nobre</b>	Brazil
	LA	<b>Jean-Phillipe Boulanger</b>	France
	LA	<b>Marcos Buckeridge</b>	Brazil
	LA	<b>Edwin Castellanos</b>	Guatemala
	LA	<b>Germán Poveda</b>	Colombia
	LA	<b>Fabio Scarano</b>	Brazil
	LA	<b>Sebastian Vicuna</b>	Chile
	RE	<b>Leonidas Osvaldo Girardin</b>	Argentina
	RE	<b>Jean Ometto</b>	Brazil
<b>Ch. 28: Polar Regions</b>	CLA	<b>Oleg Anisimov</b>	Russian Federation
	CLA	<b>Joan Nymand Larsen</b>	Iceland
	LA	<b>Anne Hollowed</b>	United States of America
	LA	<b>Nancy Maynard</b>	United States of America
	LA	<b>Pål Prestrud</b>	Norway
	LA	<b>Terry Prowse</b>	Canada
	LA	<b>John Stone</b>	Canada
	RE	<b>Maria Ananicheva</b>	Russian Federation
	RE	<b>Terry Chapin</b>	United States of America

## WGII AR5 Chapter Teams

### Regional Chapters (con't)

Chapter	Role	Name	Supporting Entity
<b>Ch. 29: Small Islands</b>	CLA	<b>Roger McLean</b>	Australia
	CLA	<b>Leonard Nurse</b>	Barbados
	LA	<b>John Agard</b>	Trinidad and Tobago
	LA	<b>Lino Pascal Briguglio</b>	Malta
	LA	<b>Rolph Payet</b>	Seychelles
	LA	<b>Netatua Pelesikoti</b>	Samoa
	LA	<b>Emma Tompkins</b>	United Kingdom of Great Britain & Northern Ireland
	LA	<b>Arthur Webb</b>	Fiji
	RE	<b>Thomas Spencer</b>	United Kingdom of Great Britain & Northern Ireland
	RE	<b>Kazuya Yasuhara</b>	Japan
<b>Ch. 30: Open Oceans</b>	CLA	<b>Rongshuo Cai</b>	China
	CLA	<b>Ove Hoegh-Guldberg</b>	Australia
	LA	<b>Peter G. Brewer</b>	United States of America
	LA	<b>Victoria J. Fabry</b>	United States of America
	LA	<b>Karim Hilmi</b>	Morocco
	LA	<b>Sukgeun Jung</b>	Republic of Korea
	LA	<b>Svein Sundby</b>	Norway
	RE	<b>Ly Omar</b>	Senegal
RE	<b>Carol Turley</b>	EC	