

IGBP for 2015

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GLOBAL
IGBP International
Geosphere-Biosphere
Programme
CHANGE



IGBP & WCRP Collaborations

- WGCM - AIMES
- CLIVAR - SOLAS & IMBER
- WDAC - SOLAS
- GEWEX - iLEAPS
- WCRP - PAGES
- SPARC – IGAC
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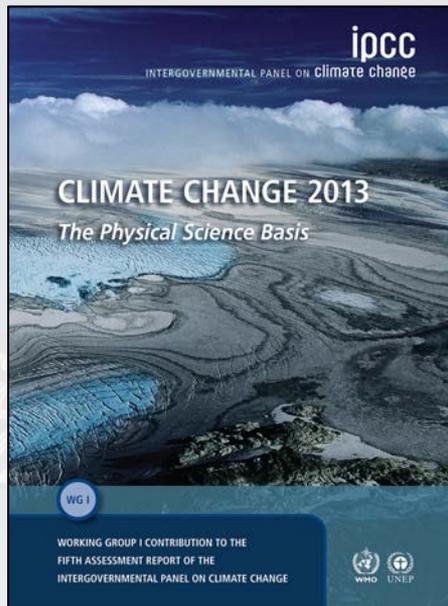
Climate change science for solutions

- “Climate cluster” within FE
 - Research (physical climate, biogeochemistry, ecosystems, impacts, adaptation,.....)... to climate services
- IPCC interactions (workshops, AR6+, gaps...)
- UNFCCC SBSTA Research Dialogs

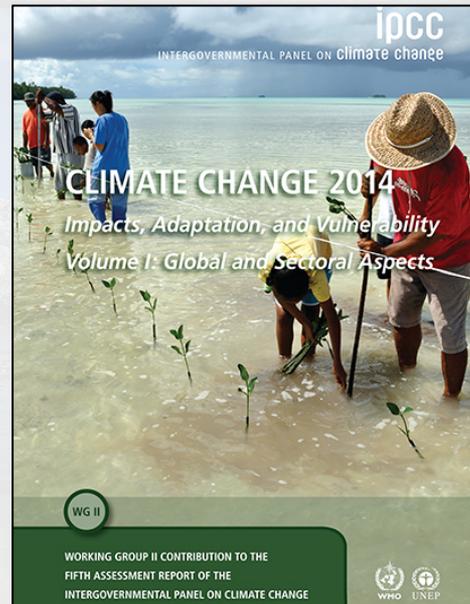


IPCC AR5

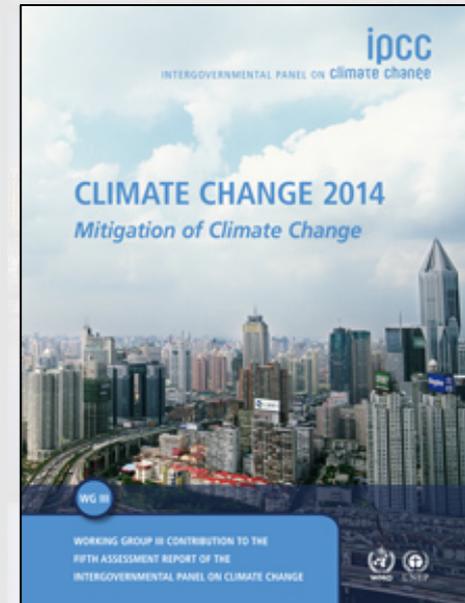
WG I



WG II

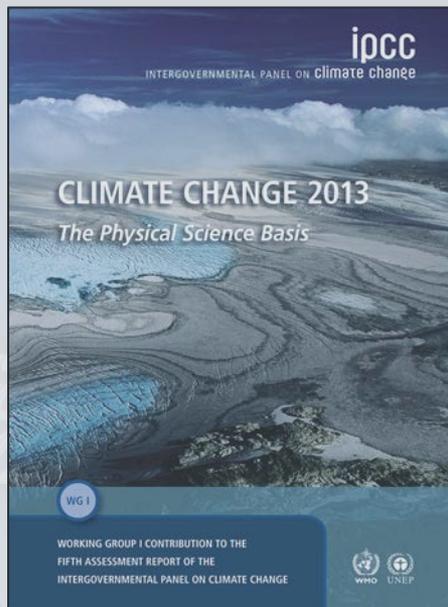


WG III

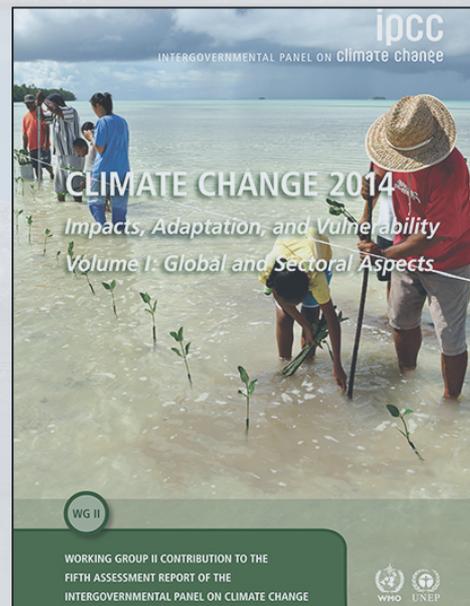


Integrated research framework

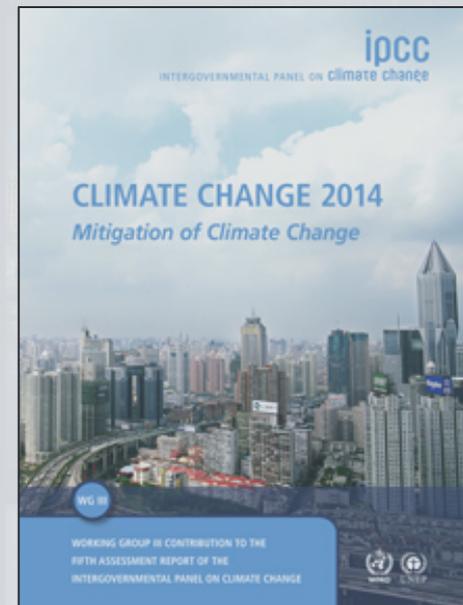
WG I



WG II



WG III



Science-policy engagement

UNFCCC Subsidiary Body for Scientific and Technological Advice (SBSTA)

Key scientific findings, priorities, uncertainties



Lead to alternate between WCRP and Future Earth



Overview of IGBP Overarching Synthesis

Aim - Framing the contribution of IGBP to global environmental change research

Three pillars

Core-Project Science :

Key accomplishments, links to broader Earth-system science, perspective on future directions and challenges

Series of papers (one from each project)
in Anthropocene special issue

Earth-System Science

Retrospective on the development of Earth-System Science thru lens IGBP and a look ahead;

Paper outlining IGBP's contribution, highlighting key outstanding challenges and discussing the path ahead; (*1st paper in Anthropocene core project issue*)

Anthropocene

Integrated natural and social science perspectives on the Anthropocene concept

5 papers (involving IGBP & IHDP authors) in a *special issue Global Environmental Change*



IGBP Synthesis (cont'd)

- Great Acceleration – update

Steffen, Broadgate, Deutsch, Gaffney, Ludwig. 2015. The trajectory of the Anthropocene: The Great Acceleration *The Anthropocene Review* 2:81-98.

- IGBP Climate Change Index

Seitzinger, Bondre, Gaffney, Running. Submitted. An index for climate change. *Nature Climate Change (submitted)*

- Perspectives on IGBP

Lavorel *Science (commissioned)*



IGBP Landmark Synthesis Events 2015



Fall Meeting, San Francisco
14-18 December 2015

- Opening - Globalia
- Integrated science sessions
- Young scientists event★
- Booth★
- Evening reception (Thurs)
- Future Earth handover



Join us! Some joint session topics?

