

Minutes of the Sixth Meeting of the
**WORKING GROUP ON GLOBAL CLIMATE CHANGE AND
 AGRICULTURAL WATER MANAGEMENT (WG-CLIMATE)**
 Tehran, Iran
 17 October 2011: 13.30-17.00 hours
Strategy Theme: Systems

Year of Establishment: 2005

Completion of the Mandate: 2014

Mandate:

- To review the progression of and predictions for Global Climate Change (GCC) and climate variability,
- To explore and analyze the medium-term implications of climate change and climate variability for irrigation, drainage, and flood control,
- To stimulate discussion and raise awareness of water-related GCC issues within the ICID family,
- To stimulate discussion at national scales among scientists, policy makers, and through the media, the general public on GCC and water, and
- To join the international dialogue on GCC and water.

Members Present: (1) Dr. Tsugihiko Watanabe, Vice Chairman (Japan, 2006); (2) Prof. Ray Shyan Wu, Secretary (Chinese Taipei, 2007); (3) VPH Dr. Karim Shiati (Iran, 2006); (4) Prof. Heping Hu (China, 2008); (5) Prof. Sue Walker (South Africa, 2009); (6) Dr. Roestam Sjarief (Indonesia, 2010) represented by Lolly Martina; (7) Dr. Juan A. Rodriguez-Diaz (Spain, 2010) represented by Ricardo Segura.

Apology: VPH Dr. Mark Svendsen (USA), Chairman.

Members Honoraire Present: (1) Dr. R. Ragab, Vice President, ICID (UK); (2) Dr. Shinsuke Ota, Vice President, ICID (Japan).

Observers: Forty observers were present at the session at various times (please see **Annex**)

Website: <<http://140.115.62.223/raywu/ICID/index.php>>

Vice Chairman Dr. Tsugihiko Watanabe chaired the WG meeting, as requested by Chairman VPH Dr. Mark Svendsen

Item 1 : Confirmation of the minutes of the 5th meeting of the Working Group

The minutes of the 5th meeting of the Working Group held at Yogyakarta in October 2010 were confirmed.

Item 2 : Review of membership

The Indian National Committee on Irrigation and Drainage (INCID) nominated Dr. S.K. Dash in place of Dr. Krishna Kumar Kanikicharla for the membership of the WG. Dr. Dash did not attend the meeting. INCID has indicated that new arrangement will be made on this nominee later on.

The following nominations were deferred once again due to their non-attendance at the Tehran meeting:

- Dr. Edward Keith Weatherhead (UK)
- Ir. C.W.J. Roest (The Netherlands)
- Mr. Naseer Ahmed Gillani (Pakistan)
- Ms. Flaviana S. Hilario (Philippines)

CONTINUING ITEMS

Item 3 : Work Plan of the Group

The group's tenure was extended until 2014. At Yogyakarta meeting the following items were approved for inclusion in the work plan:

- Continue a program of sharing knowledge among members and other interested parties;
- Co-sponsor and support the Tehran Symposium on Climate Change Impacts on Soil and Water Resources (see Item 8);
- Serve as convener, on behalf of ICID, of a one-day session at the 2012 WWW in Stockholm, which has as its theme Water and Food Security;
- Support preparations for ICID input to WWF6 on issues dealing with climate change; and
- Contribute to the UN Water Task Force on Water and Climate.

The WG-DRG had suggested transferring the topic 'Impact of climate change on drainage' to WG-CLIMATE due to lack of inputs from members. No member from WG-DRG was available hence the issue was not discussed.

Vice Chairman Watanabe and Chairman Svendsen attended the World Water Week (WWW) in Stockholm. Dr. Watanabe informed that the WWW is held annually at Stockholm as a forum for the exchange of views and experiences between scientists, policy makers, and business people around the world and reported that the theme for WWW 2012 is *Water and Food Security*. The theme for World Water Day 2012 is also *Water and Food Security: Call for Solutions*. The Chairman had some initial interactions with the Research Institute for Humanity and Nature (RIHN) in Japan, SIWI, FAO, and IWMI regarding the organization of a one-day Seminar at WWW 2012 on the topic *Adapting Agriculture to a Climate Changing World*. The group agreed that this would be a useful seminar and the PCTA had recommended its approval to take on the role of convener of such a session. Conclusions and insights generated in the Tehran meeting/ symposium could be further explored in the WWW 2012 session. Further development will be provided via email to members and posted on the webpage.

Item 4 : Website of the Working Group

The new version of website of the Group <<http://ctcid.water.tku.edu.tw/icidwg-climate>> as prepared by Prof. Ray-Shyan Wu (Chinese Taipei) is functional. The website is linked with ICID website. The website provides updated information on membership, agenda, minutes, presentation etc. Prof. Ray Shyan Wu expressed gratitude towards Chinese Taipei Committee (CTCID) for providing its website service. All members are requested to visit the website and provide relevant documents to Dr. Ray-Shyan Wu/ Central Office for posting.

Item 5 : Report of the Task Forces related to the group

• UN Water Task Force on "Water and Climate"

The establishment of a UN-Water Task Force on 'Water and Climate Change' was proposed in 2008 aiming to offer 'an opportunity to further discuss climate change and water linkages in their widest sense and to ensure that the UN-System in general, and UN-Water in particular, is better prepared to meet further challenges and play an essential role in this area'. The TF was coordinated by Mr. Avinash Tyagi, Director, Climate and Water Department, WMO (now SG-Designate).

In order to respond to the challenges posed by GCC, a long-standing coordination mechanism was required. Hence, as per the decision of the UN-Water meeting in January 2010, the Task Force on Water and Climate Change was transformed into the *Water and Climate Change Thematic Priority Area (WCC-TPA)*.

The core objective of the WCC-TPA is to strengthen UN System coordination on activities related to water and climate change in order to facilitate assessment by Member countries of the impacts of climate change on water and adoption of strategies for meeting the challenges of climate change both for adaptation and mitigation in the related water sub-sectors.

For the period 2009-2010 the following activities have been completed:

- fostering cooperation and coordination in preparatory activities and at the 5th World Water Forum in March 2009 in sessions, the political track and inside events,
- making a significant contribution to the outcomes of the World Climate Conference-3 in August-September 2009,
- carrying out a mapping exercise of UN-Water members and partners on mandates and capacities related to water and climate issues,
- investigate opportunities to support the COP process (UNFCCC) in relation to water and climate change.

The following activities are ongoing:

- assessing capacity gaps within UN-Water and produce guidelines for members addressing the key challenges and water-related adaptation/mitigation issues,
- develop a joint program on climate change mitigation and adaptation in water sector, with a joint pilot project in one of the identified countries under the one-UN, in collaboration with the UN-Water Task Force on Country Level Coordination,
- build awareness at various levels on climate change issues in various water related sectors,
- develop relevant joint publications to serve the above purposes.

More information on the TF can be viewed at <<http://www.unwater.org/TFclimate.html>>.

VPH Dr. Karim Shiati appraised his involvement with UN-Water. Mr. Adama Sangare, President of AMID (Mali) invited members to attend 3rd African Regional Conference of ICID Food Security and Climate Change held in Mali in November 2011.

- **ICID Asian Regional Task Force on Climate Change and Irrigation (ARTF-CC)**

ARTF-CC was set up at the Sacramento meeting of Asian Regional Working Group to study adaptation measures to tackle with climate change in the field of irrigation and drainage. It is obvious that countermeasures will vary from country to country, depending upon respective climatic condition and degree of climate change effect as well as socio-economic development stage and present status of irrigation and drainage facilities. Nevertheless, this study aims at finding out some similarity among countries under common conditions and universal ideas lying under various cases, which will be useful and referred to when irrigation/drainage engineers, working as government officials, researchers, practitioners and others, consider practical mitigation/adaptive measures to meet their own conditions related to climate change.

The study was carried out by compiling information through a questionnaire and country case studies. So far, 11 countries have participated in this study and have submitted 14 cases. ARTF-CC compiled the results available so far in a draft report and presented during Tehran meeting as well as ICID Symposium on '*Climate Change Impacts on Soil and Water Resources*'. The final report will be prepared for the 6th World Water Forum to be held in Marseille in 2012.

Vice President Shinsuke Ota gave presentation on the draft report and some comments were given by members.

Item 6 : WG related communications

Vice Chairman Watanabe apprised the members of the related communications circulated by the Central Office. These include the following -

- Background note on Climate change, water and food security, Eva Ludi, March 2009 (<http://www.odi.org.uk/resources/download/3148.pdf>)
 - Climate change reference guide, Alice Mckeown and Garry Garnder (<http://www.worldwatch.org/files/pdf/CCRG.pdf>)
 - Agriculture, Food Security and Climate Change: Outlook for Knowledge, tools and action, CCAFS Report No.3 (http://ccafs.cgiar.org/sites/default/files/pdf/ccafs_report_3-low-res_final.pdf)
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- Impacts of climate change on water resources and agriculture and Sri Lanka: A review and preliminary vulnerability mapping, Nishadi Eriyagama, Vladimir Smakhtin, Lalith Chandrapala and Karin Fernando, IWMI Research Report 135 (<http://ccsl.iccip.net/rr135.pdf>)
- Water storage in an era of climate change: Addressing the challenge of increasing rainfall variability, Matthew McCartney and Vladimir Smakhtin, Blue paper, IWMI (http://www.hydrology.nl/images/docs/alg/2010_IWMI_Blue_Paper_Water_Storage_Climate_Change.pdf)
- Sustaining water for all in a changing climate, World Bank group implementation progress report of the water resources sector strategy (<http://siteresources.worldbank.org/NEWS/Resources/sustainingwater.pdf>)
- Addressing climate change in Asia and the Pacific – Impacts on food, fuel and people, Asian Development Bank (<http://www.adb.org/Documents/Brochures/Climate-Change/brochure.pdf>)
- A press release titled “New Commission confronts threats to food security from climate change”
- National Water Commission for Mexico (CONAGUA)’s publication “Dialogs for water and climate change: Call to action”

Members are encouraged to provide their comments/ suggestions on the above documents to the Chairman and also inform about the other web links/ documents related to the activities of the WG.

Dr. S. Perret, Chair WG-ENV apprised the members about the current plan of the WG in forming Task Force to look into environmental impact assessment and life cycle approach on irrigation projects, and expressed the willingness to keep close liaison with WG-CLIMATE.

Item 7 : Methane flux from irrigated wetlands rice fields

Vice Chairman Dr. Watanabe explained the progress of the new research program at Research Institute for Humanity and Nature (RIHN) on methane measurements from a new Japanese satellite (GOSAT) from paddy fields, which was introduced at the Yogyakarta meeting. He however reported that the project has been suspended due to its academic merits and financial problem.

Item 8 : Symposium on Climate Change at Tehran in 2011

The *Symposium on Climate Change Impacts on Soil and Water Resources* held on 20 October as a part of 21st Congress. The symposium was co-sponsored by the WG. In the Symposium, 10 papers (9 oral and 1 poster) were presented. Messers Sue Walker and Ray Shyan Wu, contributed to the symposium by providing papers and presentations and also apprised at the meeting.

Item 9 : Any other business

Mr. Maurice Roos from CA DWR was invited and made a brief presentation on “Can We Save the California Delta from the Effects of Sea Level Rise”. Some comments were received from the audience. The presentation material can be reached through WG webpage.

No other point was raised and meeting was closed.

**WORKING GROUP ON GLOBAL CLIMATE CHANGE AND
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Country	Name
China	Hu Heping
Chinese Taipei	Kuan-Pei Lin, Mei-Chang Chen, Ming-Hsiu Chou, Chong-Chi Cheng, Ming-Young Jan
Finland	Jaako Sierla
France	Dr. Sylvain Perret
India	Dr. Suhas P. Wani, Dr. N. Asokaraja
Indonesia	Zulfan Zahar
Iran	Darush Bahrehdar, Alireza Salamat, Masoud Settani, Elham Khazaei, Mohammad Salman Sabahi, Fateme Kamali
Iraq	Ahmed M. Aziz
Japan	Prof. N. Hatcho, Hiroyaki Suzuki, Kunihiko Naito, Hajimz Tanji
Korea	Sun-Ju An, Dong-Koun Yun, Gilchai Shim, Hun Sun Lee
Mali	Dr. Adama Sangare, Aliou Bamba
Mongolia	Khishigsuren A, Baranchulum S
Niger	Moussa Amadou
South Africa	Yacob Beletse. Andre Roux, Mary Jean Gabriel, Michael van der Laan
USA	Maurice Roos
