

**Minutes of the 1st Meeting of the
WORKING GROUP ON CLIMATE CHANGE AND
AGRICULTURAL WATER MANAGEMENT (WG-CLIMATE)**

10 November 2016, 11.00-12.30 hours (Session I)
10 November 2016, 13.30-15.00 hours (Session II)
Chiang Mai, Thailand

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2015

Completion of the Mandate: 2021

Mandate: (a) To share the information about prediction of the global and regional climate change and climate variability; (b) To explore and analyze the implications of climate change and climate variability for agricultural water management including irrigation, drainage, and flood control; (c) To promote archiving useful information and case studies on climate change for practical use in improved impact assessment and adaptation development; (d) To enhance discussion on climate change and water management at national and regional scales among the stakeholders including academicians, practitioners, decision makers, media as well as farmers and water users in a region; and (e) To join the international dialogue on Climate change and water management.

Members Present: (1) Dr. Tsugihiko Watanabe, Chairman (Japan); (2) Dr. Ray Shyan Wu, Vice Chairman (Chinese Taipei); (3) Dr. Tian Fuqiang, Secretary (China); (4) Mr. Mika Turunen (Finland); (5) Dr. P. Soman (JISL, India); (6) Prof. Dr. Choi, Jin-Yong (Korea, Rep. of); (7) Mr. Michael Davidson (USA); (8) Dr. Nozar Ghahreman (Iran).

Observers: (1) Carmel Pollino (Australia); (2) Amit Parashar (Australia); (3) Chu-Ming, Chang (Chinese Taipei); (4) Tsung Linchuang (Chinese Taipei); (5) Yung-Ho Lee (Chinese Taipei); (6) Kun Chuan Chang (Chinese Taipei); (7) Mu-Hsu Chuo (Chinese Taipei); (8) Chen Yean Yuan (Chinese Taipei); (9) Lin Keng Hsin (Chinese Taipei); (10) Chain-Yung Chu (Chinese Taipei); (11) Chen, Jaw-Cheng (Chinese Taipei); (12) Chien Wen Li (Chinese Taipei); (13) Yean-Yuan, Chen (Chinese Taipei); (14) Lin-Chi, Chih (Chinese Taipei); (15) Ying-Chien Lo (Chinese Taipei); (17) Hesham Mostafi Aly (Egypt); (17) Dr. Sandor Szalai (Hungary); (18) Ms. Jyotsana Chuchra (India); (19) Dr. Gurbachan Singh (India); (20) Dr. Ismail Widadi (Indonesia); (21) Gatot Tegeh (Indonesia); (22) Seti Yortono (Indonesia); (23) Yuli Sri Wilanti (Indonesia); (24) Naoko Koshiyama (Japan); (25) Kazunori Minamikawa (Japan); (26) Gun Heo (Korea, Rep. of); (27) Seung Yeon Jung (Korea, Rep. of); (28) Yong-Hoon Shin (Korea, Rep. of); (29) Sung-Hack Lee (Korea, Rep. of); (30) Jehong Bany (Korea, Rep. of); (31) Pureun Yoon (Korea, Rep. of); (32) Buyeong Oh (Korea, Rep. of); (33) Ir. Mohd Anuar Musardar Yusuff (Malaysia); (34) Mohd Azmi Ismail (Malaysia); (35) Ir. Mat Hussin Ghani (Malaysia); (36) Mr. Suman Sijapati (Nepal); (37) Dr. S. Mpandeli (South Africa); (38) G.M.R.A. Perera (Sri Lanka); (39) N.G.R. Ariyaratue (Sri Lanka); (40) Dr. Arthon Suttigarn (Thailand); (41) Ir. Maurice Roos (USA).

Website: <http://wg-climate.icidonline.org/>

WG-CLIMATE Minutes Item 1: Action taken report by Chair

1. The Chair apprised members on the actions taken according to the decisions of the working group ("WG" hereafter) held at Montpellier. The Chair reported that the WG revitalized its activities with newly defined mandates, based on the approval of the WG, re-constitution by the IEC, accelerating e-mail communication and introducing the video conference. The major actions taken includes:

- (a) Drafted the climate-related terms for the ICID-MTD under the leadership of Dr. Waleed Hassan
- (b) Prepared the draft Action Plan 2030 of the WG-CLIMATE
- (c) Reviewed the membership of the newly nominated persons
- (d) Hold the WebEx meeting of the Working Group, and
- (e) Supported the WIF2 Sub-theme 2 with collaborated works for drafting the Background Paper and reviewing the papers submitted.

WG-CLIMATE Minutes Item 2: ICID Action Plan 2030 – Activities on climate change and agricultural water management

2. In August 2016, the Chair prepared the draft action plan of the group in consultation with the Vice Chair and Secretary and circulated it to all members with a request to provide their feedback/ comments, and in WG WebEx meeting in October 2016, participants discussed and some revisions were done. During the meeting, after intensive

discussions, finally the WG members agreed with the present version of action plan with some minor modifications (see **Annex**). Some new ideas and activities to be involved in the future were also confirmed, which includes:

- (a) to build more collaborations with other working groups such as WG-ENV and WG-DROUGHT,
- (b) to incorporate water-food-energy nexus idea into current Action Plan 2030 of the WG, and
- (c) to consider the available resources including labor and financial sources when the action plan is finalized.

WG-CLIMATE Minutes Item 3: Global Framework for Climate Services

3. It was recalled that WMO and ICID signed a MoU in 2013 with a view to enhance WMO's ability to make use of outreach, capabilities and expertise of ICID in the areas of flood/ drought/ irrigation management by the irrigation and drainage community around the world as well as to provide opportunity to ICID members to get benefitted from the expertise, experience and capabilities of WMO. Due to non-attendance of representative of WMO, the WG could not discuss the on-going WMO's actions for the Global Framework however, the WG recognized the importance of the collaboration with WMO and other relevant international organizations as well.

WG-CLIMATE Minutes Item 4: Dissemination of activities of WG – Website of the group

4. After the Montpellier meeting held in 2015, group photos and materials were uploaded by the WG on its website at <<http://wg-climate.icidonline.org/>>. Members were requested to provide additional materials such as documents, reports, articles as well as photos for uploading on the website. In June 2016, Dr. Fuqiang Tian provided power point presentations and photos which were uploaded on the group's website.

5. The WG Chair requested new members to submit additional material for uploading on the WG website for wider dissemination to the WG Secretary (Dr. Fuqiang Tian) and the ICID Central Office. The WG Secretary will prepare a brief CV template and send it to the members by email so that the members' CV can be uploaded on the website, once received.

WG-CLIMATE Minutes Item 5: Updating Multilingual Technical Dictionary (MTD)

6. At the Montpellier meeting, the WG set up a task team to prepare the chapter on climate change in the MTD and the group nominated Dr. Waleed Hassan M. Abou El Hassan (Egypt) as the head of the team. In June 2016, Dr. Waleed Hassan contacted and requested all members to review and update the terms/ definitions, etc. in the MTD, related to scope of the WG. Similarly, the Chair also requested all members to actively contribute in updating the MTD. In response, Mr. Michael Davidson (USA), Dr. Fuqiang Tian (China), Prof. Ray Shyan Wu (Chinese Taipei), Mr. Mika Turunen (Finland), and Dr. Nozar Ghahreman (Iran) contributed in drafting the climate change chapter of the MTD.

7. The Chair introduced the progress of drafting of MTD on behalf of the team leader Dr. Waleed Hassan and appreciated his great contribution. The Chair overviewed the latest version of 6 November 2016, which includes 7 parts, i.e., adaptation and mitigation (11 items), climate (20 terms), meteorology (21 terms), international framework (16 terms), climate change category (16 terms), extreme events (16 terms), and others (28 terms). In total, there were 127 terms in the current version of climate change chapters. The draft is to be edited selecting the terms and reforming the style. Finalized chapter will be sent to ICID CO for inclusion in the MTD.

WG-CLIMATE Minutes Item 6: Report of the Sub-theme 2 – Management of climatic extremes with focus on floods and droughts, November 2016, Chiang Mai

8. The Chair overviewed briefly the report on the Sub-Theme 2 "Management of climatic extremes with focus on floods and droughts" of the 2nd World Irrigation Forum (WIF2). The Chair appreciated the great contribution of the WG members to the WIF2.

WG-CLIMATE Minutes Item 7: Review of membership of the working group

9. The WG reviewed the membership of the group which includes seven new nominations. Membership status is given in **Annex 5 (page 33)**. Since all the new nominees did not show-up/ participate in the meeting, their memberships were approved as provisional members as indicated below.

S. No.	Members	Country	Accepted/ Provisionally admitted
(1)	Eng. (Ms.) Talatha Janaki Meegstenna	Sri Lanka	Provisionally admitted

(2)	Mr. Javeed Iqbal Bokhary	Pakistan	Provisionally admitted
(3)	Mr. Sanjay Kumar Singh	India	Provisionally admitted
(4)	Dr. (Ms.) Fransisca Mulyantari	Indonesia	Provisionally admitted
(5)	Mr. Atin Kumar Tyagi – Direct Member, JISL in place of Dr. Santosh Deshmukh	India	Provisionally admitted
(6)	Mr. Hatem Hameed Hussein	Iraq	Provisionally admitted
(7)	Mr. Jafer Kathom Alwan Alamiryi (Young Professional)	Iraq	Provisionally admitted

WG-CLIMATE Minutes Item 8: Workshop on management of the climate change: post 2015 Paris

10. The WG organized the workshop on “Agricultural Water Management under the Changing Climate” wherein about 40 participants participated. Four researches on climate change impacts and water management practice for mitigating the climate change were presented followed by fruitful discussion. The chair stated that the similar workshop may be organized in the working group meeting in Mexico City in 2017. Four presentations made during the meeting were:

- (a) Dr. Sucharit Koontanakulvong, Chulalongkorn University, Thailand: “Impacts of Extreme Flood and Drought on Irrigation and Drainage and Their Adaptation Strategy in Thailand”
- (b) Dr. Kazunori Minamikawa, Institute for Agro-Environmental Sciences, NARO, Japan: “Japanese Farmers’ Economic Incentive to Implement Prolonging of Midseason Drainage for Reducing CH4 Emission from Irrigated Rice Paddies”
- (c) Dr. Nozar Ghahreman, University of Tehran, Iran: “Possible Effects of Climate Change on Agricultural Sector in Iran under RCP Scenarios”
- (d) Dr. Fuqiang Tian, Tsinghua University, China (Secretary of WG-CLIMATE): “Impacts of Climate Change on the Hydrological Processes in the Mekong River”

WG-CLIMATE Minutes Item 9: Report of the side event on ‘Environmental performances of paddy rice systems in the context of climate change: approaches and case studies – Towards climate-smart and sustainable paddy rice systems’, November 2016, Chiang Mai

11. WG Chair informed that the Side Event 13 was merged with the Side Event 17 “Appropriate Practices for Rice Cultivation” and hence, the WG-CLIMATE was not directly involved in organizing it. The side event was mainly organized by INWEPF and THAI-IMWEPF, as well as AFEID, and discussed different topics on current issues in the paddy cultivation and irrigation. WG Chair informed that he recommended following speakers for the side event: Dr. Kazuyuki MINAKAWA, Institute for Agro-Environmental Sciences, NARO, Japan; Prof. Attachai Jintrawet of Chiang Mai University as a Thai researcher studying climate change related topic in the field of paddy cultivation.

WG-CLIMATE Minutes Item 10: Any other business

Webinar/ web-based seminar

12. WG supported the idea of organizing webinars which will promote sharing of vast expertise available with ICID fraternity with Members of the NCs and requested the ICID central office to organize the Webinar and the WebEx Meeting. The WG proposed the following topics and resource persons to develop and deliver webinars (the titles are provisional):

- (a) Assessment of the drought risk map in Taiwan (Prof. Wu),
- (b) Link climate change prediction with hydrological model to address fluxes in a watershed (Prof. Wu),
- (c) Climate resilience in the context of irrigation services (Dr. Jobbins),
- (d) Application of the geospatial satellite data and hydrological models for regional predictions and adaptation for the climate change impacts (Mr. Mika),
- (e) Methods to assess the vulnerabilities of agricultural systems in different scales (regional vs. local) (Mr. Mika), and
- (f) Challenges and opportunities of big data in adaptation (Mr. Mika)



Annex [Appendix XIV, Item 2]

ICID ACTION PLAN VISION 2030 – ACTIVITIES BY WG-CLIMATE

Name of the Chairman and members filling this questionnaire: Tsugihiko Watanabe (Chair), Ray-Shyan Wu (Vice-chair), and Fuqiang Tian (Secretary)

Date: November 10, 2016

		Outcomes / Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021
Goal 1: Enable higher crop productivity with less water and energy	1.1 Develop Guideline for Water Management Practices under Changing Climate	Guidelines	General policy and table of contents are decided	First draft of the core parts	Release the First Draft Guidelines in WIF3		Release the Final Draft Guidelines
	1.2 Prepare Position Paper on Smart Water Management for Mitigating Climate Change	A Position Paper of ICID	2nd Workshop on Post Paris 2015	3rd Workshop on Post Paris 2015	Discuss in a Side Event and Release the Draft in WIF3		
Goal 2: Be a catalyst for change in policies and practices	2.1 Organize Introduction of the Cases to be Applied to Other Regions	Compilation of Cases	2 Case Studies in humid region (introduction in WG Meeting)	2 Case Studies in arid/semi-arid region (introduction in WG Meeting)	2 Case Studies on unique examples (introduction in WG Meeting)	Extra Case Studies and comparison of the cases (introduction in WG Meeting)	Integration to conclude in general
Goal 3: Facilitate exchange of information, knowledge and technology	3.1 Organize Workshop, Seminar and Symposium	A Position Paper on Adaptation to Climate Change	Communication with International Organizations	Communication with International Organizations	Release the First Draft Paper in WIF3		Release the Final Draft
Goal 4: Enable cross disciplinary and inter-sectoral engagement	4.1 Develop Integrated Assessment of Climate Change Impacts	Brief Guidelines with Compilation of Case Studies	2 Case Studies with focus on technical background and uncertainty (introduction in WG Meeting)	2 Case Studies with previous year's focus plus economic and social aspects (introduction in WG Meeting)	2 Case Studies with previous year's focus plus financial and institutional arrangement (introduction in WG Meeting) and Introduction of state-of-the-art methodologies and their outcomes in WIF3	2 Case Studies with previous year's focus plus interest groups (introduction in WG Meeting)	Release the Brochure



