

**AGENDA FOR THE 4TH MEETING OF THE
WORKING GROUP ON CLIMATE CHANGE AND
AGRICULTURAL WATER MANAGEMENT (WG-CLIMATE)**

5 September 2019, 14:00-16:00 hours (Session I) and 16:15-18:15 hours (Session II)
Bali, Indonesia

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2015

Extended the 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 analyse 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.

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

WG-CLIMATE Agenda Item 1: Action taken report by Chair¹

1. The Chair will present the report on the actions taken on the decisions and proposals of the working group at its last meeting held at Saskatoon, Canada in August 2018.
2. ICID Central Office vide e-mail of 19 November 2018 to all Chairs/ Vice Chairs/ Secretaries suggested workbodies to make full use of web-ex platform for virtual meeting so as to ensure regular contribution from the WG members as well as discuss and initiate follow-up actions emerging from the minutes of the previous WG meeting and review the progress of the action points. In order to organize the WebEx Meetings, Webinars and e-Discussions, Chair of the workbodies were requested to send the 'Expression of Interest' to initiate the processes. In response, Chair Dr Watanabe has organized the WebEx meeting in March 2019 (*refer item 2*).
3. The PAWEES-INWEPF International Conference 2018 was organized from 20-22 November 2018 in Nara city, Nara prefecture, Japan. The conference was jointly organised by the International Society of Paddy and Water Environment Engineering (PAWEES) and the International Network for Water and Ecosystem in Paddy Fields (INWEPF) in collaboration with the ICID Asian Regional Working Group (ASRWG). WG Chair Prof. Tsugihiko Watanabe steered a session wherein the participants discussed about irrigation and drainage in Asia to achieve the SDGs.

SUPP: Dr. (Ms.) Fransisca Mulyantari (Indonesia) expired in 2018, Chair Dr. Watanabe has requested INACID to nominate a new professional for the membership of the WG however, response is awaited. Representative from INACID may apprise the meeting.

4. Mr. Javeed Iqbal Bokhary (Pakistan) has not contributed to the activities of the group during last two years so recommended to be discontinued and new member would be invited from the National Committee as well as other NCs. Chair in consultation with Vice Chair, Secretary of the WG and the Central Office have updated the membership of the WG as given at **Annex 1** (*refer electronic version for latest list*). New nominations, if any, for the membership received will be dealt suitably after the meeting.

SUPP: Ms. Portia S. Angulo from Philippines National Committee (PNC-ICID) vide email of 29 August 2019 has nominated Engr. Reynaldo L. Baloloy (Philippines) for the membership of the working group. The group may like to consider the nomination at the meeting.

WG-CLIMATE Agenda Item 2: Brief of the first WebEx (virtual) meeting organized on 8 March 2019

5. The first WebEx meeting (1/2019) of the WG-CLIMATE was organized on 8 March 2019. Dr. Tsugihiko Watanabe chaired the meeting which was attended by Dr. Ray Shyan Wu, Dr. Fuqiang Tian, Dr. Jih-Shun Liu, Dr. Waleed Hassan M. Abou El Hassan, Eng (Ms.) Nermeen Essam El-Tahan, Dr. Mika Turunen, Mr. Atin Kumar Tyagi, Dr. Nozar Ghahreman, Prof. Choi, Jin-Yong, Prof. Sue Walker, Eng. (Ms.) Talatha Janaki Meegstenna, Ms. DEMIREL YAZICI Dilek, and Mr. Michael Davidson.

¹ This will also include details of membership of WG as **Annex**

6. At the outset, Dr. Watanabe welcomed all the participants and then proceeded with the agenda. The meeting deliberated on the brief follow-up of the last meeting of the WG at Saskatoon emanating from the minutes. WG discussed the activities related to the draft table of contents and assignment of corresponding draft authors; publication of the expected outcomes of the WG activities with the Road Map to ICID Vision 2030; workshop plan for WIF3; process of updating the Multilingual Technical Dictionary (MTD) and timetable of the WG Activities for 2019. The Members unanimously agreed to have regular meetings from time-to-time to discuss important emerging issues.

SUPP: The second online WebEx meeting of WG-CLIMATE was organized on 19 August 2019 at 16:30 hours (Indian Standard Time) wherein members discussed about the publication of the WG, updating MTD, international workshop and the participation of Bali meeting etc.

WG-CLIMATE Agenda Item 3: Road Map to ICID Vision 2030 – Status of activities on climate change and agricultural water management

7. At Saskatoon meeting, the group reviewed the revised scope and mandate and availability of resources for achieving various activities. The WG modified the Road Map and assigned certain tasks to its members (refer **Annex 2**). The WG identified following items as the expected activities/outcome/output of the WG under the Action Plan on the Road Map to ICID Vision 2030:

- (a). B2 Strategy : Promoting risk management approaches
- (b). B3 Strategy : Integrated irrigation and drainage management
Organize introduction of the cases to be applied to other regions
- (c). B6 Strategy : Helping development of climate change adaptation strategy
Develop guideline for water management practices under changing climate
Prepare position paper on smart water management for mitigating climate change
Develop position paper on adaptation to climate change
- (d). D2 Strategy : Developing technical documents in non-technical language
Integrated assessment of climate change impacts brief guidelines with compilation of case studies

8. WG members may deliberate on the mechanism of undertaking above activities and latest status of the progress of these activities.

WG-CLIMATE Agenda Item 3.1: Publication of the outcomes of the WG

9. According to the decision of the WG at Saskatoon meeting, Chair confirmed that the previously proposed three publications, which includes “Guideline for Water Management Practices under Changing Climate”, Position Paper on “Smart Water Management for Mitigating Climate Change” and Position Paper on “Adaptation to Climate Change” are to be combined to one publication. It was proposed that the combined publication might have the following parts:

- (a). General introduction on climate change and agricultural water management
- (b). Integrated and innovated assessment of climate change impacts on agricultural water management
- (c). Establishment of adaptation strategy to changing climate
- (d). Development of smart water management for mitigating climate change

10. WG also agreed to deliberate on the table of contents during the coming year, in cooperation with other working groups of ICID. The group adopted the following time line to finalise its table of contents with key statements ready for deliberations in the fourth meeting of WG in Bali in September 2019:

- (a). Draft table of contents, through WebEx meeting and e-mail communication: by November 2018
- (b). Proposal to other WGs for joint editing: by January 2019
- (c). Assignment of corresponding draft authors: by March 2019
- (d). Collection of relevant information including similar publication and international initiatives: by July 2019
- (e). Preparation of sub-chapters and sections with key words or key sentences: by August 2019

11. The proposal for setting up of the editorial team proposed by the Chair Dr. Watanabe was approved. The Chair himself showed his readiness for taking the responsibility of the head of the team, and the following members approved to take part in the team namely Dr. Ray Shyan Wu, Dr. Jih-Shun Liu, Dr. Nozar Ghahreman, Dr. Sue WALKER, Eng. Ms. Talatha Janaki Meegastenna and Mr. Michael Davidson. The editorial team agreed to deliberate the draft table of contents and tentative author assignments before the next meeting of the WG. The team will also make a plan on the expected contribution of all the members of the WG. Chair will provide further updates at the meeting.

WG-CLIMATE Agenda Item 4: Exchange of information, knowledge & networking

WG-CLIMATE Agenda Item 4.1: Website of the WG

12. After the Saskatoon meeting, the website of the working group had been updated with the CVs of the members by Dr. Fuqiang Tian, Secretary of the WG, in charge of managing the website of the WG, with the help of the ICID Central Office. ICID Central Office has requested members to provide the interesting articles/ papers/ presentations/ documents related to the activities of the group for uploading on the website.

WG-CLIMATE Agenda Item 4.2: Webinar/ Web based seminar

13. At Saskatoon meeting, Dr. Jaepil Cho of APEC Climate Center (Rep. of Korea) informed about the webinar delivered by him on 5 July 2018 with the title “Seamless Climate Service and Downscaling for Climate Change Adaptation”. WG chair Dr Watanabe stressed the need to plan Webinar by the WG and suggested to discuss and finalise topics and names of experts to deliver webinars through virtual meeting. ICID Central Office has requested the Chair to fill-up the ‘Expression of Interest’ for organization of the WebEx meeting. Accordingly, Chair organized the WebEx meeting in March 2019 (refer **item 2**). Members are requested to participate in the webinar being organized by ICID by accessing the link http://www.icid.org/icid_webinars_past.html.

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

14. During Saskatoon meeting, Chair Dr. Watanabe informed that 129 terms under 10 categories were updated and circulated to the members for their comments by Dr. Waleed Hassan Abou El Hassan (Egypt). It was also proposed to link this with another international global dictionary viz. WMO, IPCC, FAO etc. As decided at Canada meeting, Dr. Waleed Hassan Abou El Hassan circulated the updated Work Plan for updating of MTD on Climate to all members and requested them to edit/ update the terms of MTD related to the scope of the group. Dr Waleed Hassan proposed the following timeframe, steps and target dates for updating the MTD:

- Step 1: Notification of the draft Updated Work Plan. February 15, 2019
- Step 2: Feedback from the WG members on the plan and the categories for terminology: 15 March, 2019
- Step 3: Propose the Updated Work Plan including re-organized categories for terminology: 20 March, 2019
- Step 4: Propose by the WG members on selection of responsible categories: May 31, 2019
- Step 3: Update of the Work Plan with assignment of responsible categories to the WG members: June 30, 2019
- Step 4: Submission of draft for terminologies in the assigned categories: July 5, 2019
- Step 5: Combined draft chapter on climate change: July 15, 2019
- Step 6: The first draft of the MTD chapter on climate change: July 31, 2019

15. According to the work plan, it is proposed that each member of WG-CLIMATE will be assigned two categories and terms of each categories would be drafted by two members (refer **Annex 3**). The team leader Dr. Hassan/ WG Chair will provide further progress on updating MTD at the meeting.

WG-CLIMATE Agenda Item 6: International Workshop on Innovation of developing the strategy for impact assessment during WIF3, September 2019, Bali

16. As agreed during the Saskatoon meeting, WG is organizing an International Workshop on Innovation of Developing the Strategy for Impact Assessment of and Adaptation to the Climate Change as the “New Normal” on 01 September 2019 at Bali. The main objective of the workshop is to discuss the strategies for developing the innovative impact assessment of the climate change on agriculture and the smart water management for adapting to the climate change. Out of total 16 abstracts received for the workshop; the Review Committee/ Chair has accepted 15 abstracts. All the papers received for the workshop will be reviewed by the Committee/ Chair for selection of good papers. Chair will provide further updates of the workshop at the meeting.

WG-CLIMATE Agenda Item 7: International Young Professionals Training Program, 22-25 April 2019, Gyeonggi Province, Republic of Korea – Response from YPs on questionnaire

17. As agreed at Saskatoon meeting in August 2018, the Korean National Committee (KCID) organized the International Young Professionals Training Program (YP-TP) on “Climate Resilient Smart Irrigation Systems” from 22-25 April 2019 at Gyeonggi Province (Republic of Korea) in collaboration with the Chinese National Committee (CNCID) and ICID. KCID has also organized an International Workshop on “Irrigation Technologies to Mitigate Climate Change” on 26 April 2019 to provide an opportunity to the young professionals to have a broader and in-depth exposure to emerging irrigation technologies and management scenarios considering the urgent need for a sustainable climate change-resilient agriculture sector. During the YP training, thirty-two young professionals from 17 countries participated and gained the knowledge. As part of YP training, each YP was requested to provide their response to the following five questions: (i) How the recent climatic extremes are affecting water management for agriculture in your country/region? (ii) What new and innovative approach and technologies are being adopted to address these climate change issues? (iii) What management approach and solutions are being considered to adapt to climate change? (iv) How would you like to modify/augment water management practices and policies in region to generate a long-term strategy? (v) What is your view and contribution to promote climate smart agriculture?

18. The responses received from the YPs have been compiled, and the same is available at: <https://www.icid.org/ypqnresponse.pdf> . It is felt that some of the responses relate to the mandate of the WG and the group may like to take note of the views and suggestions from YPs from different countries and discuss it during the meeting. Chair will provide further updates at the meeting.

WG-CLIMATE Agenda Item 8: Any other business



NOTES FOR CHAIRPERSON:

1. Draft minutes of this meeting to be submitted to ICID Secretariat at Bali, Indonesia after the meeting.
2. Chair to participate and present the WG report to PCTA meeting on 6 September 2019.

Annex 1 [Appendix XII, Item 1]

Members and their attendance at 2017 and 2018 meetings

| Sl. No. | Members | Member from (Year) | 2017 | | 2018 | | Remarks |
|---------------------------------------|---|--------------------|----------------|---------------------|------|---------------------|--|
| | | | Self | Contributed by mail | Self | Contributed by mail | |
| 1. | Dr. Tsugihiko Watanabe, Chairman (Japan) | 2015 | • | • | • | • | |
| 2. | Dr. Ray Shyan Wu, Vice Chairman (Chinese Taipei) | 2015 | • | • | • | • | |
| 3. | Dr. Tian Fuqiang, Secretary, (China) | 2015 | # ² | • | | • | |
| 4. | Prof. Dr. Choi, Jin-Yong (Korea) | 2015 | • | • | • | • | |
| 5. | Dr. Nozar Ghahreman (Iran) | 2015 | • | • | • | • | |
| 6. | Dr. Waleed Hassan M. Abou El Hassan (Egypt) | 2015 | | • | | • | |
| 7. | Mr. Michael Davidson (USA) | 2015 | • | • | | • | |
| 8. | Dr. Guy Jobbins (UK) | 2015 | • | • | | | |
| 9. | Mr. Mika Turunen (Finland) | 2015 | • | | | • | |
| 10. | Eng. (Ms.) Talatha Janaki Meegastenna (Sri Lanka) | 2016 | | • | | • | |
| 11. | Mr. Javeed Iqbal Bokhary (Pakistan) | 2016 | | | | | No contribution during last two years. Recommended for discontinuation |
| 12. | Mr. Sanjay Kumar Singh (India) | 2016 | # | | | | |
| 13. | Dr. (Ms.) Francisca Mulyantari | 2016 | | • | | | Dr. (Ms.) Francisca Mulyantari expired in 2018, Chair requested INACID to nominate a new representative |
| 14. | Mr. Atin Kumar Tyagi – Direct Member, JISL (India) | 2016 | | | | • | |
| 15. | Mr. Jafer Kathom Alwan Alamiryi - Young Professional (Iraq) | 2016 | | • | | | |
| 16. | Eng. Nermeen Essam El-Tahan – Young Professional (Egypt) | 2017 | | • | | • | |
| 17. | Ms. Dilek Demirel Yazici (Turkey) | 2017 | | • | | • | |
| 18. | Dr. Jih-Shun, Liu (Chinese Taipei) | 2018 | | | • | • | |
| 19. | Prof. Sue Walker (South Africa) | 2018 | | | • | • | |
| 20. | Secretary General, ICID | | # | | | | |
| Observers/ Permanent Observers | | | | | | | |
| (i) | WMO representative | | | | | | |
| (ii) | IWMI Representative | | | | | | |
| (iii) | FAO Representative | | | | | | |

New nomination received from the National Committee

| No. | Name | Country | Remarks |
|-----|---------------------------|-------------|--|
| 1. | Engr. Reynaldo L. Baloloy | Philippines | Recommended as member, subject to his presence else provisional member |

² #Through representation

Annex 2 [Appendix XII, Item 3]

ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WG-CLIMATE

| Goal/ Strategies | Activities | Outcomes / Outputs | Milestone for Year 2017 | Milestone for Year 2018 | Milestone for Year 2019 | Milestone for Year 2020 | Milestone for Year 2021 |
|--|---|--|--|---|---|---|--|
| Goal B: Be a catalyst for change in policies and practices | | | | | | | |
| B2. Strategy: Promoting Risk Management Approaches | | | | | | | |
| B3. Strategy: Integrated irrigation and drainage management | 3.2 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 |
| B6. Strategy: Helping development of climate change adaptation strategy | 6.1 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 |
| | 6.2 Prepare Position Paper on Smart Water Management for Mitigating Climate Change | Position Paper | 2nd Workshop on Post Paris 2015 | 3rd Workshop on Post Paris 2015 | Discuss in a Side Event and Release the Draft in WIF3 | | |
| | 6.3 Develop position paper on adaptation to climate change | Position Paper | Communication with International Organizations | Communica tion with International Organization s | Release the First Draft Paper in WIF3 | | Release the Final Draft |
| Goal D: Enable cross disciplinary and inter-sectoral engagement | | | | | | | |
| D2. Strategy: Develop technical documents in non-technical language | 2.1 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 |

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)



Annex 3 [Appendix XII, Item 5]

UPDATING MULTILINGUAL TECHNICAL DICTIONARY (MTD) – CATEGORY-WISE ALLOCATION

| Categories | Description | Responsible | Assist |
|----------------------------------|--|--------------------|------------------|
| 1. Climate/ | Global, regional and local, climate variability | Jih-Shun, Liu | Nozar Ghahreman |
| 2. Meteorology/ | Main phenomena and elements in meteorology | Michael Davidson | Nozar Ghahreman |
| 3. Climate change/ | General terms in global warming and climate change, including climate model, GCMs and RCMs as well as method for downscaling | Michael Davidson | Mika Turunen |
| 4. Extreme events/ | Flood, drought and other events resulted of climate change | Nozar Ghahreman | Atin Kumar Tyagi |
| 5. Sea water rise/ | Projection, impacts and counter measures | Nozar Ghahreman | Ray Wu |
| 6. Climate change impacts/ | Process, impacts, and assessment | Atin Kumar Tyagi | Ray Wu |
| 7. Adaptation to Climate Change/ | Policy, method | Atin Kumar Tyagi | Ray Wu |
| 8. Mitigation of Climate Change/ | General, policy, and measures | Jih-Shun, Liu | Mika Turunen |
| 9. International frame work/ | International and regional major frame works, including UNFCCC and its COPs, WMO, IPCC, etc. | Ray Wu | Jih-Shun, Liu |
| 10. Environmental crisis | Salinity Erosion, air pollution and habitat degradation | Ray Wu | Atin Kumar Tyagi |
| 11. Climate smart | Measures and approaches | Fuqiang Tian | Mika Turunen |
| 12. Economic issues | Climate Funds, climate finance, climate proofing | Fuqiang Tian | Guy Jobbins |
| 13. Related terminologies | Cross-cutting task within each category | Guy Jobbins | Mika Turunen |

