



Workshop on Integration of Adaptation Measures against Climate Change for Asian Rice-based Agriculture

27 AUGUST 2015

Purpose of Workshop :

This workshop is held with cooperation of the Food and Fertilizer Technology Center (FFTC), to share the latest advances in understanding the climate change related problems in collaboration with smallholder rice farmers in Monsoon Asia who adapt rain-fed agriculture and irrigated agriculture, and to find out problems and to implement a suitable method among various types of agricultural forms in the area.

This workshop is also based on the East Asian regional program of the Agricultural Model Intercomparison and Improvement Project (AgMIP: <http://www.agmip.org>). Technical Meeting for the AgMIP-EA is also held on 25th August at the same facility, Tsukuba International Congress Center (Epochal Tsukuba). From a series of these activities, countries in Monsoon Asia including South East Asia through South Asia collaborate in approach to adapt to the climate change.

9:00-9:20

Opening Session

Welcome addresses from FFTC, AFFRC/MAFF, NIAES
Introduction to the WS

*** Each presentation is allotted 15 minutes followed by 5 minutes discussion (20 and 10 minutes for 1-1)**

9:20-9:50

1. Overviews (Chair: Miyata)

1-1. The Agricultural Modeling Intercomparison and Improvement Project (AgMIP) for evaluating agricultural impacts of and adaptations to climate change

- Dr. Daniel Wallach (Institut National de la Recherche Agronomique, France)

9:50-10:50

2. Climate and Water Resource in Monsoon Asia (Chair: Nishimori)

2-1. Climate, water resource and cropping in South Asia

- Dr. Lalu Das (University of Agriculture, West Bengal, India)

2-2. Assessment of climate change impacts on irrigation water requirement in SE Asia

- Prof. Sangam Shrestha (Asian Institute of Technology, Thailand)

2-3. Extreme temperature and rice yields in China: historical changes and future trends

- Prof. Zhao Zhang (Beijing Normal University, China)

(Coffee Break)

11:15-12:15

3. Crop Models and Their Inter-comparison (Chair: T.B.D.)

3-1. Rice Model Inter-comparison in Asia

- Dr. T. Hasegawa (NIAES, Japan)

3-2. Crop Model Research in China

- Prof. Yan Zhu (Nanjing Agricultural University, China)

3-3. Redevelopment of the DSSAT Model using C++ for facilitation of large data processing

- Prof. Kwang-Soo. Kim (Department of Plant Science, Seoul National University, Korea)

(Lunch)

13:15-14:15

3. Crop Models and Their Inter-comparison (Chair: Hasegawa)

3-4. Study on simulation of climate change impact on rice yield using DSSAT 4.5 at Tanjung Krang, Selangor

- Dr. A. T. Shaidatul Azdawiyah (Malaysia Agriculture Research Development Institute)

3-5. Projection of rice yield in 21st century in South Korea under RCP 8.5 scenario using a mechanistic crop model

- Dr. Jun-Whan Kim (National Institute of Crop Science, RDA, Korea)

3-6. Modeling risk analysis for rice production due to agro-climate change in Taiwan

- Prof. Ya-Wen Chiueh (National Hsinchu University of Education, Taiwan)

14:15-15:15

4. Climate Impact and Adaptation for Asian Agriculture (Chair: T.B.D.)

4-1. Climate change and impacts on rice production in Vietnam: pilot testing of potential adaptation and mitigation measures

- Prof. Nguyen Hong Son (Institute of Agriculture and Environment, VAAS, Vietnam)

4-2. Technologies for enhanced productivity, efficiency, resilience and adaptive capacity of smallholder rice-based farming communities in the Philippines

- Dr. Ricardo F. Orge (Philippines Rice Research Institute)

4-3. Inter-cropping and Multi-cropping in Rain-fed Agriculture

- Prof. B. D. A. Nugroho, (Gadjah Mada Univ., Indonesia)

(Coffee Break)

15:45-16:45

4. Climate Impact and Adaptation for Asian Agriculture (Chair: Ishigooka)

4-4. Climate change adaptation for rice in Japan

- (T.B.D.)

4-5. Strategies of Adaptation and Mitigation for Coping with Climate Change

- Dr. Chwen-Ming Yang (Taiwan Agricultural Research Institute)

4-6. Agriculture under climate change in China by using agriculture economic model-CHINARGO

- Dr. Zhan Tian (Shanghai Climate Center)

16:45-17:30 General Discussion (Chair: Hasegawa)