

[Workshop 2]**Crop Production under Heat Stress: Monitoring, Impact Assessment and Adaptation**

Under "Multilateral Research Exchange Project for Securing Food and Agriculture", funded by Agriculture, Forestry and Fisheries Research Council, MAFF

Conveners: Toshihiro Hasegawa and Hidemitsu Sakai

■ October 6 (Tue) – 9 (Fri)

■ Epochal Tsukbua, Room 201

■ Language: English

■ Under the auspices of: The Crop Science Society of Japan & Ecosystem Process Group, Society of Agricultural Meteorology of Japan

■ Supported by: The Global Environmental Research Fund (S-5): Integrated Research on Climate Change Scenarios to Increase Public Awareness and Contribute to the Policy Process, Ministry of the Environments

■ Program

October 6 (Tue)

Opening			
	09:00-09:05	Background and Objectives	Toshihiro Hasegawa, National Institute for Agro-Environmental Sciences, Japan
Country Report and discussion for multi-lateral monitoring network			
W2-01	09:05-09:45	Research on Heat Stress of Rice in China: Progress and Prospect	Tian Xiaohai, Yangtze University, China
W2-02	09:45-10:25	Rice Productivity in India under Variable Climates	Madan Pal Singh, Indian Agricultural Reseach Institute, India
	10:25-10:40	Break	
W2-03	10:40-11:20	Current Situation on Rice Production and Heat Stress Needed to Be Serious for Future Myanmar	Tin Tin Myint Daw, Department of Agriculture Research, Myanmar
W2-04	11:20-12:00	The Current Situation in the US Rice Industry and the Results from Night Temperature Effects	Lee Tarpley, Texas A&M University Systems, USA
	12:00-13:00	Lunch	
W2-05	13:00-13:40	Out-crossing of Heat Stress Affected Spikelets of Lowland Rice in the Sub-humid Zone of Sri Lanka and Its Long-term Implications	WMW Weerakoon, Rice Research & Development Institute, Sri Lanka

W2-06	13:40-14:20	Effects of High Temperature on Yield and Grain Quality of Rice in Taiwan	Huu-Sheng Lur, National Taiwan University, Taiwan
W2-07	14:20-15:00	Recent Warming Trends and Rice Growth and Yield in Japan	Toshihiro Hasegawa, National Institute for Agro-Environmental Sciences, Japan
	15:00-15:45	Poster Session	
Discussion on the multi-lateral network for heat stress monitoring			
W2-09	15:45-17:00	Multi-site Monitoring of Heat Stress and Micrometeorological Conditions in the Rice Plants Communities under Various Climates - The Micrometeorological Measurements System for a Common Measure of the Paddy Environments -	Mayumi Yoshimoto & Minehiko Fukuoka, National Institute for Agro-Environmental Sciences, Japan

October 7 (Wed)

Country Report (Continued)			
W2-08	09:00-09:40	Rice Production in Australia: Responses to Short - and Long - Term Climatic Fluctuations	Len J. Wade, Charles Sturt University, Australia
Mechanism and adaptation			
W2-10	09:40-10:10	Adapting the Rice Crop to Hotter Environments: Current and Future Activities at IRRI	Tanguy Lafarge, International Rice Research Institute, Philippines
W2-11	10:10-10:40	Physiological and Molecular Approaches to Address Heat Tolerance during Anthesis in Rice	Krishna Jagadish, International Rice Research Institute, Philippines
	10:40-11:00	Break	
W2-12	11:00-11:30	Flower Opening Time in rice - Cultivar Difference and Effect of Weather Factors -	Kazuhiro Kobayasi, Shimane University, Japan
W2-13	11:30-12:00	Rice Anther Tolerant to High Temperatures at Flowering Period	Tsutomu Matsui, Gifu University, Japan

October 8 (Thu)

Mechanism and adaptation (Continued)			
W2-14	09:00-09:30	Responses of Rice Grain Setting and Filling under High Temperature and High CO ₂	Hidemitsu Sakai, National Institute for Agro-Environmental Sciences, Japan

W2-15	09:30-10:00	Responses to Elevated Temperature in Rice and Wheat	Len Wade, Charles Sturt University, Australia
	10:00-10:20	Break	
Modeling perspectives			
W2-16	10:20-11:00	Extrapolating Crops to New Climatic Environments: Grey Zones of Knowledge and Research Needs for Modelling	Michael Dingkuhn, French Agricultural Research Center for International Development, France
W2-17	11:00-11:30	Has the Impact of Temperature on Wheat Production from Global Warming Been Underestimated?	Senthold Asseng, Commonwealth Scientific and Industrial Research Organization, Australia
	11:30-13:00	Lunch	
W2-18	13:00-13:30	The GECROS Model and its Application for Assessing Impacts of Climate Change on Crop Production	Xinyou Yin, Wageningen University, The Netherland
W2-19	13:30-14:00	Simulating Breeding Systems for Climate Change	Scott Chapman, Commonwealth Scientific and Industrial Research Organization, Australia
W2-20	14:00-14:30	Modelling Rice Phenotypic Plasticity in Diverse Climates Using Eco Meristem: Model Evolution and Applications to Rice Improvement	Delphin Luquet, French Agricultural Research Center for International Development, France
	14:30-14:50	Break	
W2-21	14:50-15:20	Phenology Modelling in ORYZA2000: Issues and Prospects	Pepijin van Oort, Wageningen University, The Netherland
W2-22	15:20-15:50	Canopy Micrometeorological Model for Climate Change Impact Study	Mayumi Yoshimoto, National Institute for Agro-Environmental Sciences, Japan
W2-23	15:50-16:20	Evaluating the Effect of Uncertainty in the Climate Scenario on Future Prediction of Rice Production in Aisa	Shinji Sawano, National Institute for Agro-Environmental Sciences, Japan
	16:20-17:00	Summary of the day	
	18:00-20:00	Workshop party	

October 9 (Fri)

	09:00-10:30	Group discussion on specific topics	
	10:30-10:45	Break	
	10:45-11:50	Wrap-up session	
	11:50-12:00	Closing	