



AgMIP-Pakistan Kickoff Workshop & International Seminar on Climate Change

PROGRAM

“Assessing Climate Vulnerability and Projecting Crop Productivity Using Integrated Crop and Economic Modeling Technique”

Funded by

Agricultural Model Inter-comparison and Improvement Project (AgMIP), USA in the University of Agriculture, Faisalabad – Pakistan from June 4-6, 2013.

June 3, 2013 (Monday)		
DELEGATES ARRIVAL		
June 04, 2013 (Tuesday)		
INAUGURAL SESSION	VENUE: NEW SENATE HALL, UAF.	
08:00 am	Registration	Dr. Fahd Rasul and Ahsan Raza Sattar
09:00 am	Recitation from the Holy Quran and Naat-e- Rasool (SAW) Hafiz Salman Saeed & Tahira Tabassum)	
09:10 am	Welcome address and introduction. AgMIP Pakistan <i>website launching ceremony</i> www.agmip.pk	Prof. Dr. Iqrar A Khan (<i>Sitara-e-Imtiaz</i>) Vice Chancellor, University of Agriculture Faisalabad
09:25 am	Climate Change and Food Security: AgMIP-Pakistan introduction and Vision	Prof. Dr. Ashfaq Ahmad (Lead Principal Investigator, AgMIP) Head Climate Change Cell, UAF
09:30 am	Past and future aspects of climate in Pakistan	Dr. Ghulam Rasul Dy. Director General Pakistan Meteorological Department
09:50 am	AgMIP Vision- Global perspective of climate change	Prof. Dr. Gerrit Hoogenboom AgMIP Resource Person (ARP), Washington State University, USA
10:20 am	Address by the Chief Guest	Dr. Qamar-uz-Zaman Chaudhry, Ex-Director General, PMD/Former Advisor to Prime Minister on Climate Change Policy, Islamabad
10: 35 am	Address by Guest of Honor	Mr. Momin Agha Special Secretary Agriculture, Govt. of Punjab, Lahore
10:55 am	Vote of Thanks	Prof. Dr. Muhammad Arshad, Dean, Faculty of Agriculture, UAF
11:10 am	Group photo –Main Library Front Lawn (Umer Saeed and Ishfaq Ahmad)	
11:20 am	Tea/Coffee	
CONSULTATIVE SESSION ON CLIMATE CHANGE AND AGRICULTURAL POLICY		
11:30 – 11:40am	Summary of existing climate change policy: Implication for agriculture sector	Dr. Qamar-uz-Zaman Chaudhry, Ex-Director General, PMD/Former Advisor to Prime Minister on Climate Change Policy, Islamabad
11:40 – 11:50am	Crop yield appraisal and forecasting: Decision support under uncertain climates like <ul style="list-style-type: none"> • CO₂ conc. enhancement, • Rise in temperature • Erratic rainfall pattern 	Prof. Dr. Gerrit Hoogenboom AgMIP Resource Person (ARP) WSU, USA

11:50am – 2:00pm	Sustainable agricultural development policy in the era of climate change for poverty alleviation of rural household	Dr. Abid Qayyum Sulehri, Country Head, SDPI, Islamabad
12:00 – 12:10pm	Information Communication Technologies (ICT) and Improved Agricultural Information Management System (AIMS), their applications in climate change mitigation and adaptations strategies	Distinguished Prof. & Academician Yuei-An Liou , National Central University, Taiwan
12:10 – 12:20pm	Sustainable environment through Environmental Policy Integrated Model (EPIC) to sensitize general masses about land and environment degradation	Dr. Xue Chun Wang , South West University of Science and Technology, China
12:20 – 12:25pm	Agronomic adaptations: <ul style="list-style-type: none"> • Redefining agro-ecological zones, • Introducing new cropping systems • Establishment of Punjab Agricultural Environmental Monitoring Network (PAEMN) 	Prof. Dr. Ashfaq Ahmad, Lead PI of AgMIP
12:25 – 12:35pm	Climate resilient crops: <ul style="list-style-type: none"> • New/alternative crops, • Can we adapt to change? 	Prof. Dr. Shahzad M.A. Basra, Chairman, Department of Crop Physiology
12:35 – 12:45pm	Strategies to improve soil environment through microbes in the wake of climate change <ul style="list-style-type: none"> • Organic agriculture • Use of bio fertilizers 	Prof. Dr. Zahir Ahmad Zahir, Institute of Soil and Environmental Science
12:45 – 12:55pm	Adaptations to Climatic changes: Breeding perspectives	Prof. Dr. Asif Ali, Department of plant breeding and Genetics.UAF
12:55 – 1:20pm	Stakeholders (Discussion)	Progressive Farmers, NGOs (SDPI, IUCN, Loksanjh)
1:20 – 1:30pm	Concluding remarks	Chief Guest Mr. Momin Ali Agha, Special Secretary Agriculture, Punjab – Lahore
01:30 pm	Lunch and Prayer (One Hour)	
Technical Session 1: Theme - Climate Change, Food Security and Agriculture.		
Venue: New Senate Hall		
Chair:	Dr. Qamar-uz-Zaman Chaudhry, Ex-Director General, PMD/Former Advisor to Prime Minister on Climate Change Policy, Islamabad	
Co-Chair:	Dr Abdul Majeed, ICARDA Country Manager (Islamabad) Dr. Bashir Ahmad, University of Agriculture, Peshawar. KPK	
02:30 am	Food security and climate change- A policy perspective	Dr. Abid Sulehri Country Head, SDPI, Islamabad
02:45 pm	Climate change adaptations and role of extension department, Govt. of Punjab	Dr. Anjum Ali Adjunct Prof UAF and DG Agriculture Extension, Punjab, Lahore Pakistan
03:00 pm	Food Security in Changing Climate in Pakistan	Dr. M. Aslam Gill, Food Security Commissioner-I, Ministry of Food Security and Research, Islamabad-Pakistan
03:15 pm	Climate change and Sustainable agriculture	Prof. Dr. Bashir Ahmad Chairman, Department of Agronomy University of Agriculture, Peshawar, KPK
03:30 pm	Hyper-temporal remote sensing for LULC mapping and monitoring	Mr. Amjad Ali SUPARCO, Islamabad

03:45 pm	Impact of climate change on water reservoirs and biodiversity in northern Pakistan.	Mr. Mahmood Akhtar Cheema, Country Representative, IUCN, Islamabad
04:00 pm		
04:15 pm	Food security in dry regions: Perspective from ICARDA	Dr Abdul Majeed, ICARDA Country Manager , Islamabad
04:00 pm	Poster display and evaluation	Venue: Gallery Iqbal Auditorium, UAF
04:40 pm	Tea/Coffee	
08:00 pm	Reception and Welcome Dinner	(Staff Club) Ambrosia Restaurant, UAF

Day 2	Date: 05 June, 2013	Venue: NEW SENATE HALL
Chair:	Prof. Dr. Iqrar A Khan (<i>Sitara-e-Imtiaz</i>), Vice Chancellor, UAF	
Co-Chair	Prof. Dr. Gerrit Hoogenboom, AgMIP Resource Person (ARP) WSU, USA	
09:00 am	Vision of Centre of advanced studies (CAS) on food security and agriculture (climate change chair) and Special message for WORLD ENVIRONMENT DAY	Prof. Dr. Iqrar A. Khan Vice chancellor UAF/ Prof. Dr Ashfaq Ahmad
09:35 am	Climate Variability and Climate Change: Decision Making under Uncertainty	Prof. Dr. Gerrit Hoogenboom, AgMIP Resource Person, WSU, USA.
10:10 am	EPIC model introduction and applications for climate change	Dr. Xue Chun Wang, South West University of Science and Technology, Meiyang, China
10:30 am	Using CERES-Wheat model to determine site specific fertilizer application rate	Prof. Dr. Allah Bakhsh, Director, Water Management Research Centre, UAF.
10:45 am	Climate Change, Its Effect on Livestock Production and Mitigation Strategies in Pakistan	Prof. Dr. Muhammad Younas, Chairman Department of Livestock management, UAF
11.00 am	Application of remote sensing technologies to mitigate the impact of climate change on crop production	Distinguished Prof. & Academician Yuei-An Liou, National Central University, Chung-Li 320, Taiwan
11:30am	Tea/Coffee	
	AgMIP Fast Track session	Venue: NEW SENATE HALL
Chair:	Prof. Dr. Gerrit Hoogenboom, AgMIP Resource Person, WSU, USA	
Co-Chair:	Prof. Dr. Ashfaq Ahmad, Lead PI AgMIP Pakistan	
11:50am	Fast track of AgMIP report (Scenario Development)	Dr. Ghulam Rasul, Dy. Director General, PMD
12:10pm	Fast track of AgMIP report (Crop Modeling)	Syed Aftab Wajid, Associate Prof. Agronomy, UAF
12:30pm	Fast track of AgMIP report (TOA-MD)	Prof. Dr. Muhammad Ashfaq (Economics)
12:50pm	Simulation modeling for Rice productivity	Dr. Shakeel Ahmad (BZU)
01:05pm	Fast track of AgMIP report (IT)	Ahsan Raza Sattar, Co PI, AgMIP
01:15pm	Application of Cs-137 investigation of soil erosion & sedimentation in Rawal Dam and its catchment.	Mr. Naveed Iqbal Pakistan institute of Nuclear Science and Technology (PINSTECH) Islamabad.
01:30pm	Lunch & Prayer Break	

There will be four parallel sessions onward at different venues		
A. Video Conference Room / Museum, Faculty of Agriculture B. Video Conference Room, Institute of Soil and Environmental Science C. New Senate Hall D. Video Conference Hall, National Institute of Food Science and Technology		
DAY 2- Technical Session A: Modeling and IT tools in Agriculture		
Venue: Video Conference Room 2 (Old Museum, Faculty of Agriculture)		
Chair: Prof. Dr. Gerrit Hoogenboom (WSU) and Dr. Ghulam Rasul (Dy. Director General PMD)		
02:30 pm	Modeling crop water productivity under water limiting conditions	Mr. Wajid Ishaque (SO) NIAB FSD.
02:50 pm	Role of APSIM in Climate Change and Food security	Dr. Asim Mehmood, PARC
03:10 pm	Wheat yield and crop water productivity modeling through APSIM	Dr. Bashir Ahmad, PSO, Water Resources Research Institute, NARC, Islamabad
03:30pm-05:00pm	Hands on training on APSIM Model	Dr. Mukhtar Ahmad, University of Arid Agriculture, Rawalpindi
DAY-2 Parallel Session June 05, 2013 Technical Session B:		
<ul style="list-style-type: none"> • TOA-MD • Economic Modeling and Climate Change Impact Assessment 		
Venue: Video Conference Room (Institute of Soil and Environmental Sciences)		
Chair: Dr. M. Jameel Khan Co-Chair: Dr. Muhammad Ashfaq		
02:30 pm	Introduction to TOA-MD and link with AgMIP	Dr. Muhammad Ashfaq
02:45 pm	Economic modeling and agriculture	Dr. Khuda Bakhsh, UAF
03:00 pm	Economic Modeling	Dr. Muhammad Jameel
03:15 pm	Fast Track Proof of Concept Adaptation Analysis Results	Dr. Muhammad Ashfaq, UAF
03:30 pm	Hands on Training TOA-MD & Questions & Discussions	Dr. Muhammad Ashfaq /Dr. Irfan Ahmad Baig/ Mr. Syed Asif Ali Naqvi
05:00 pm	Tea/Coffee	
08:30 pm	Dinner	
DAY 2 Parallel session 05 June, 2013 Technical Session C:		
Remote Sensing, GIS and ICT in Agriculture		
Venue: New Senate Hall		
Chair: Dr. Allah Bakhsh Co-Chair: Dr. Xue Chun Wang		
02:30 pm	Integration of remote sensing, GIS and hydrological modeling for efficient water resources planning	Dr. Jehanzeb Masud Cheema Assistant Professor University of Agriculture Faisalabad
02:50 pm	Mapping spatial variation in soil and water quality attributes using GIS	Dr. Hamaad Raza Assistant Prof. ISES, UAF
3:10 pm	Remote sensing for crop improvement	Dr. Naveed Tahir Assistant Professor, PMAS, University of Arid Agriculture, Rawalpindi
03:20 pm	Precipitation projection by PRECIS over Pakistan for 2001-2010	Mr. Gohar Ali, PMD Islamabad

03:30 pm	Evaluation of PRECIS regional climate model for Rabi and Kharif seasons.	Mr. Syed Ahsan Ali Bukhari, PMD Islamabad
03:40pm	Comparison and validation of global circulation model GCM20 with regional climate model PRECIS	Mr. Burhan Ahmad, PMD Islamabad
03:50 pm	Climate change impacts on glacier environment in UIB	Dr. Arshad Ashraf, PSO, Water Resource Research Institute, NARC, Islamabad
04:00 pm	Hands on Training on EPIC (Introductory module)	Dr. Xue Chun Wang, P.R.China and Dr. Naveed Tahir

DAY 2 Parallel Session 02 June, 2013

Technical Session D: Information Technology Risk Management Framework for Large Scale Projects

Venue: NIFSAT

Chair: Tasleem Mustafa

Co-Chair: Ahsan Raza Sattar

03:00 PM	Introduction of ICT in Agriculture.	Tasleem Mustafa Chairman / Assistant Professor Department of Computer Science University of Agriculture, Faisalabad
03:15 PM	Role of ERP, Data Warehouse and Data Mining in AgMIP Data Center	Tanveer Ahmed, PMP Chief Technology Officer, Principle BI & Middleware Consultant at Worldwide Technologies & Consulting FZC Middle East

DAY 3 06 June, 2013

Combined Technical Session:

Venue: New Senate Hall

Chair: Dr. Ghulam Rasul, Dy. Director General, PMD

Co-Chair: Academician Yuei-An Liou

09:00 am	APSIM model and its applications in crop productivity	Dr. Mukhtar Ahmad, PMAS UAAR
09:30 am	EPIC Model applications in the wake of climate change	Dr. Xue Chun Wang, South West University of Science and Technology, Meiyang, China
09:50 am	Global change impact studies	Mr. Arif Goheer, GCISC. Islamabad
10:10 am	Trends in observed temperature and precipitation extremes over Pakistan.	Mr. M. Athar Haroon, PMD
10:20 am	Projected increasing temperatures and consequences to agricultural production	Mr. Dildar Kazmi, PMD
10:40 am	Discrepancies between global observed datasets used for regional climate model evaluation and station observations in the inter-decadal variations.	Ms. Farah Ikram, PMD Islamabad

11:00 am **Tea/coffee**

DAY 3 June 6, 2013 Technical Session 3A: Modeling and IT tools in Agriculture

Venue: Video Conference Room (Old Museum, Faculty of Agriculture)

Chair: Prof. Dr. Gerrit Hoogenboom (WSU)

Co-Chair: Dr. Ghulam Rasul (PMD)

11:20 am	Hands on training modules for "AgMIP climate scenario generation tools with R in windows".	Mr. Syed Ahsan Ali Bukhari, PMD Mr. Waheed Iqbal, PMD
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01:30 pm Lunch and Prayer

Chair: Dr. Farhat Abbas, NARC		
Co-Chair: Mr. Furrukh Bashir, PMD, Islamabad		
2:30 pm	Comparative wheat crop growth monitoring through remote sensing based crop intelligence system.	Dr. Muhammad Ibrar SUPARCO, Islamabad
2:50 pm	Statistical downscaling of GCM for HKKH Glaciers for development of future climate change projections	Mr. Furrukh Bashir, PMD, Islamabad
3:05 pm	Classification and assessment of Aridity over Pakistan for the period 1960-2011	Mr. Sajjad Haider, PMD, Islamabad
3:20 pm	Impacts of extreme events on crop production in Pakistan.	Mr. Sohail Baber Cheema, PMD, Islamabad
3:45 pm	South Asian summer monsoon precipitation representation in CMIP5 GCMs.	Mr. Waheed Iqbal and Maida zahid
4:00 pm	Temporal Trends in the summer precipitation over Pakistan's northeast monsoon regime	Mr. Ali Imran, PMD, Islamabad
DAY-3 Parallel Session June 06, 2013		
Technical Session 3B:		
<ul style="list-style-type: none"> • Trade off Analysis- Minimum Data • Representative Agricultural Pathways (RAPs) • Climate Change Multidimensional Impact Assessment 		
Venue: Video Conference Room (Institute of Soil and Environmental Sciences)		
Chair: Dr. M. Jameel Khan		
Co-Chair: Prof. Dr. Muhammad Ashfaq		
11:15 am	Climate Change Impact Assessment (ONLINE)	Prof. Dr. Kenan PEKER Selcuk University, Konya-Turkey
11:45am	Policy face of climate change science: Overview of economic quantification anassessment models in agricultural	Dr.Uzma Hanif, FC Collage
12:05 pm	Economics of Irrigation Induced man degradation conjunctive water use environment	Mr. Avais Tahir
12:25 pm	Impact Assessment: Outcome Distributions, Correlations and Impact Indicators	Dr. Irfan Ahmad Baig/ Mr. Syed Asif Ali Naqvi
12:45 pm	Multidimensional impact assessment (ONLINE)	Dr. Mustafa KAN, Selcuk University, Konya-Turkey
01:30 pm	Lunch & Prayer	
02:30 pm	Special Session on Representative Agricultural Pathways (RAPs) for modeling the impact of climate change in Punjab	Multi-disciplinary team of scientists and stakeholders (AgMIP Economic Component)
DAY 3 Parallel session 06 June, 2013		
Technical session : 3C Venue: New Senate Hall		
02:30 pm-04:00 pm	Hands on training on DSSAT	Dr. Syed Aftab Wajid, Associate Professor, Department of Agronomy

DAY-3 Parallel Session		June 06, 2013
Technical Session 3D:		
<ul style="list-style-type: none"> • Role of Smart Phone Technologies in Agriculture 		
Venue: Video Conference Room, National Institute of Food Science and Technology (NIFSAT)		
Chair: Tasleem Mustafa, Chairman, Department of Computer Science, UAF		
Co-Chair: Usman ur Rehman Ahmad, Microsoft Pakistan		
11:20am	Impact of ICT in Agriculture	Ahsan Raza Sattar, Assistant Professor, UAF
11:30am	Microsoft windows phone development	Usman ur Rehman Ahmad Audience Marketing Manager (AMM) Microsoft, Pakistan
1:15pm	IT Advancements in Agriculture	Tasleem Mustafa Chairman/Assistant Professor, Department of Computer Science, UAF
1:30pm	Lunch Break	
2:30pm	Hands on training modules for smart phone technology	Usman ur Rehman Ahmad Audience Marketing Manager (AMM) Microsoft, Pakistan
Concluding Ceremony		Venue: New Senate Hall
Presided By: Prof. Dr. Iqrar A Khan (<i>Sitara-e-Imtiaz</i>) Vice Chancellor, UAF		
Chief Guest: Prof. Dr. Riaz Hussain Qureshi, Professor of Emeritus, University of Agri., Fsd.		
Special Guest: Prof. Dr. Khalid Mahmood Khan, Ex-Vice Chancellor, PMAS UAAR		
04:20pm	Concluding remarks	Prof. Dr. Iqrar A Khan (<i>Sitara-e-Imtiaz.</i>) Vice Chancellor, UAF
04:40pm	Certificates, Shields Distribution and Word of Wisdom	Prof. Dr. Riaz Hussain Qureshi Mr. Ahmad Ali Zafar
4:55pm	Vote of Thanks	Prof. Dr. Ehsan Ullah, Chairman Department of Agronomy, UAF
05:00pm	Closing Tea/Coffee	
	Departure of delegates	