



TWO DAYS INTERNATIONAL WORKSHOP ON:
DROUGHTS OVER PAKISTAN IN THE CHANGING CLIMATE

(TENTATIVE AGENDA)

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| Date | 21 st and 22 nd February, 2024. |
| Venue | Ghulam Muhammad Ghotvi Hall, Abbasia Campus, The Islamia University Bahawalpur, Pakistan. |

Inaugural Session

| Time | Events |
|---------------|---|
| 08:30 – 09:00 | Registration of participants |
| 09:00 – 09:05 | Recitation from the holy Qura'an. |
| 09:05 – 09:15 | Welcome address by Mr. Mahr Sahibzad Khan, Director General, Pakistan Meteorological Department. |
| 09:15 – 09:25 | Role of PMD in the National Drought Monitoring and Early Warning by Dr. Muhammad Afzaal, Chief Meteorologist, PMD. |
| 09:25 – 09:35 | Workshop objectives Dr. Syed Faisal Saeed, Workshop Coordinator. |
| 09:35 – 09:45 | Remarks by the Honourable Chief Guest, Prof. Dr. Naveed Akhter, Vice Chancellor, Islamia University Bahawalpur. |
| 09:45 – 10:10 | Group photo and tea break. |

Day 1
21st February, 2024

Session – 1

Moderator: Dr. Muhammad Afzaal, Chief Meteorologist, PMD.

| Time | Topic | Presenter / Speaker |
|---------------|---|--|
| 10:10 – 10:30 | Spatio temporal drought characteristics over Pakistan. Introduction to the Kissan App. | Dr. Shahzada Adnan, PMD, Islamabad. |
| 10:30 – 10:50 | Regional climate assessment of precipitation and temperature in Southern Punjab (Pakistan) using SimCLIM climate model for different temporal scales. | Prof. Wajid Naseem Jatoi, Director, Centre for Climate Change, Food Security & Sustainability (ICCFs), Islamia University Bahawalpur. |
| 10:50 – 11:10 | Pakistan’s drought monitoring system. | Dr. Muhammad Jahanzaib Masood Cheema, Deputy Project Lead (Drought Programme), IWMI. |
| 11:10 – 11:30 | Climate change effects on seasonal crops / vegetables. | Mr. Muhammad Muzamil, Haleema Development Organization, Multan. |
| 11:30 – 11:50 | Products of the National Drought Monitoring Centre, Pakistan Meteorological Department. | Mr. Nasir Yaseen, PMD, Islamabad. |
| 11:50 – 12:10 | Climate-Induced Drought Variability in Pakistan and Large-Scale Circulation Patterns. | Dr. Muhammed Latif, COMSATS University, Islamabad. |
| 12:10 – 12:30 | Unveiling the Impact of Poor Air Quality on Winter Rainfall in Pakistan: A Case Study of Inversion Capping and its Consequences on Rainfall Suppression and Drought | Dr. Furrukh Bashir, PMD, Islamabad. |
| 12:30 – 13:00 | Q&A and discussion. | Moderator of the session. |
| 13:00 – 14:00 | Lunch and prayer break. | |

Session – 2

Moderator: Prof. Wajid Naseem Jatoi, IUB, Bahawalpur.

| Time | Topic | Presenter / Speaker |
|---------------|--|--|
| 14:00 – 14:20 | InfoSequia – Drought Early Warning and Forecasting System for Quantifying Risks of Crop and Water Supply Failures (<i>online</i>). | FutureWater. |
| 14:20 – 14:40 | Climate smart agricultural technologies; a way towards to combat drought and climate change. | Prof. Habib ur Rehman, Muhammad Nawaz Sharif (MNS) Univ. of Agriculture, Multan. |
| 14:40 – 15:00 | Crops yield and climate regression model-based AIC. | Dr. Sardar Sarfaraz, PMD, Karachi. |
| 15:00 – 15:20 | Present status of precipitation deficit and seasonal forecast. | Research and Development Division, PMD. |
| 15:20 – 15:35 | Tea Break | |
| 15:40 – 16:00 | Group Discussion–Participatory Debate. | Moderator of the session. |

Day 2 **22nd February, 2024**

Session – 3

Moderator: Dr. Abdul Ghafar, Cholistan Univ. of Vet. & Animal Sciences, Bahawalpur.

| Time | Topic | Presenter / Speaker |
|---------------|--|---|
| 09:00 – 09:20 | Understanding droughts through atmosphere and hydrosphere (<i>online</i>). | Dr. Shaukat Ali, The Hospital for Sick Children, Canada. |
| 09:20 – 09:40 | Future scenarios of droughts over South Asia. | Dr. Syed Faisal Saeed, PMD, Islamabad. |
| 09:40 – 10:00 | Soil moisture and remote sensing applications for agriculture | Dr. Muhammad Zohaib, National Researcher, International Water Management Institute (IWMI). |
| 10:00 – 10:20 | Water and climate risk tools for enhanced food security (<i>online</i>). | Dr. Faisal Moeen, International Centre for Integrated Mountain Development (ICIMOD), Nepal. |
| 10:20 – 10:40 | WFP support to GoP in disaster preparedness, AA and resilience in Pakistan. | World Food Programme (WFP). |
| 10:40 – 11:00 | Group Discussion–Participatory Debate. | Moderator of the session. |
| 11:00 – 11:20 | Tea Break. | |

Session – 4

Moderator: Dr. Sardar Sarfaraz, Chief Meteorologist, PMD, Karachi.

| Time | Topic | Presenter / Speaker |
|---------------|---|---|
| 11:20 – 11:40 | Anticipatory action model currently being implemented in Pakistan. | Mr. Babar Ali, Welt Hunger Hilfe (WHH). |
| 11:40 – 12:00 | Desertification based on geohistorical records with reference to Cholistan Desert. | Dr. Abdul Ghafar, Cholistan Univ. of Veterinary and Animal Sciences, Bahawalpur. |
| 12:00 – 12:20 | FAO drought anticipatory action protocols and their implementation (<i>online</i>). | Mr. Naeem Iqbal, Food and Agriculture Organization (FAO). |
| 12:20 – 12:40 | Pilot impact-based forecasting project for Pakistan. | Mrs. Asma Jawad Hashmi, PMD, Islamabad. |
| 12:40 – 13:00 | Group Discussion–Participatory Debate. | Moderator of the session. |
| 13:00 – 14:00 | Lunch and prayer break. | |

Concluding Session

| Time | Events |
|---------------|---|
| 14:00 – 15:00 | Meeting/ discussion of stakeholders (including progressive farmers). |
| 15:00 – 15:10 | Achievements and lesson learnt – way forward by Prof. Wajid Naseem Jatoi, Director, ICCFS, IUB. |
| 15:10 – 15:20 | Distribution of souvenirs. |
| 15:20 – 15:30 | Closing remarks by the Chief Guest. |
| 15:30 – 15:40 | Vote of thanks by Mr. Mahr Sahibzad Khan, Director General, PMD. |
| 15:40 – 16:00 | Tea. |