WCRP-JNU Training School on
Monsoon Variability in Changing Climate

Group C

Topic: Relevant User Needs
Rainfall Prediction

What the Public wants to know

- How much
- Where
- Onset
- Duration
Floods

Flash Floods
- The prediction accuracy in on the increase

Cloud Bursts
- Remains a challenge though some models claim of success
Inter-disciplinary Efforts

Developing products that could be directly used by the public (Packaging of inter-related information)

Health
Disease spreading warnings and preparations to face the circumstances

Farming
Selection of crops and determining harvest and sawing periods

Planning of City and Buildings
Taking into account the long-term variability in the climate in the region

Popularsing climate Insurance
Translating our Knowledge

Often the end users are unable to understand decode the meaning of the weather messages send to them.

Incorporating the end users by giving them some special training

Utilizing the servies of NGOs and other organisations as a mediator between climate predictors and the end users
Reaching Out

Building of confidence and popularity among the masses

Transfer of important information to the public in time with the help of social media, text messages
Modelling and Understanding Regionwise Specific Issues

- Monssoons in the Indian subcontinent and East Asia
- Cyclones and Typhoons in Bangladesh, Indonesia
- Duststorms in the middle-east
- Heat waves and Cold waves
Better Data Coverage and Management

Deployment of better instruments on a denser grid
- Argos
- Drifters
- Radiosondes
- Floats
- Satellites
- Automatic Weather Stations

Equally important is the data management and quality checks
Sharing of Data, Resources and Knowledge

- Countries like Indonesia, Iran do not have their own climate models. Tweaking models for other regions to their region often results in incorrect results.

- The continuity of observed data can only be ensured if all the countries in a region agree to share data between themselves. Efforts on this regard can be seen in the co-operation of countries in the Maritime continent under the Years of the Maritime Continent (YMC) project.

- The extended range forecasts of IITM can also consider the interests of countries like Indonesia, Bangladesh, Myanmar etc.

- Capacity building programs