

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 is 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 sowing periods

Planning of City and Buildings

Taking into account the long-term variability in the climate in the region

Popularising 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

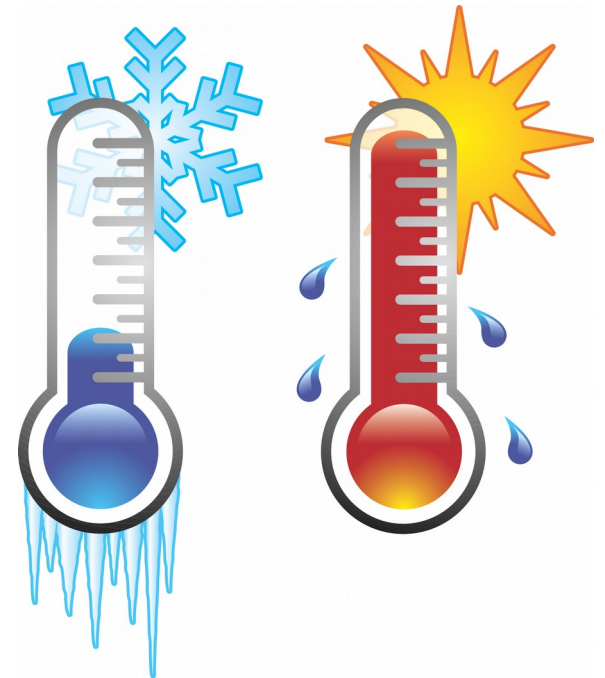
Building of confidence and popularity among the masses

Transfer of important information to the public in time with the help of social media, text messages



Modelling and Understanding Regionwise Specific Issues

- Monsoons 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



Depolyment 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

A background graphic consisting of several stylized hands in various colors (red, orange, green, blue, purple, yellow) reaching out from different directions towards the center, symbolizing collaboration and sharing.

- 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