

**Regional Stakeholder Consultation on Climate Services for the Third Pole Region  
Jaipur, Rajasthan, India  
9-11 March 2016**

**Sectoral Breakout Groups  
Session VI, 10 March 2016**

**Product/Service:**

**Delivery of climate service for Maize in Bhutan**

**Geographic scope:**

Eastern Bhutan (Tashi Yangtse, Tashigang, Pema Gatshel, Mongar, Lhuntse, Samdrup Jongkhar)

**Description:**

Maize is one of the Major staple crops in Bhutan with high economic importance which is affected by erratic rainfall like dry spell and heavy rainfall as well as high wind, hail storm etc.

There is weather affected biotic problems also like pest and disease infestation, e.g. army worm, northern corn blight etc.

**Objective:**

- To identify the climatic risks involved in different growth phases of maize;
- To develop climate risk management tools to address those issues to increase production of maize.

**Beneficiary:**

Farmers, Department of Agriculture, planners, traders and consumers.

**Benefits:**

Improved production will lead to improved livelihood of farmers and contribute to GDP and food security.

**Outputs:**

- Weather observations and climate products as well as agro-met advisories to undertake day to day agricultural operations throughout the crop growing season.
- Information will be delivered to users through multi-channel dissemination systems like print and electronic media, TV, radio, website, SMS, mobile apps etc.
- In season crop yield forecast for maize for planning purpose (national import-export policies)

**Activities:**

- Utilization of available observed weather and crop data
- Identification of weather sensitive parameters adversely affecting different growth phases.
- Development of climate risk management tools.
- Generation of climate forecast at different temporal and spatial scale
- Translation of climate forecast into agro-met advisories.
- Establishment of dissemination system to reach the end users.

**Inputs:**

- Manpower
- Infrastructure- computation, communication, observational and software facilities
- Available weather and crop data
- Historical data on pest and disease infestation
- Financial support

**Partners:**

**International partners:** WMO, international organisations and Third Pole countries.

**National:** Department of Agriculture, Department of Hydro-Met, Research

**Stakeholders:** Local government, district, extension agencies.