

Group 1

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Themes

Group 1:

- Climate change prediction/ weather forecast/ downscaling
- Modeling of rainfall, flooding, inundation

Key Issues

- Availability of Data
 - Data collection system (lack of systematic approach)
 - Analysis of data and dissemination
 - Comparable and standardization
- Country-wise experiences / trends and integrating anticipated risks into action plan (worst case scenarios)
- Different regions (Downscaling of climate model)
 - Coastal region
 - Mountain region
 - Flood plains
 - Model validation?
- Research capacity
- Scale of downscaling
- Forecasting technology – reliability (cyclone vs. other disasters)
- Linking science to policy
- Globalised phenomena but local effects
- Capacity of absorb knowledge / Technology transfer

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3

Proposed Recommendation I (Data Availability)

- Framework and strategy for comprehensive climate related data collection system across the region in collaboration with international resource centers;
- Model such as IFAS and other proven technology/models to be promoted in the region with adequate sets of in-situ/historic datasets;
- Strengthen the network and collective actions using affordable modern technologies;

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4

Proposed Recommendation II (Research capacity and Forecasting)

- Customize research and forecast models adapted to the specific regions (e.g. coastal, mountain, *flood* plain etc.);
- Foster improved synergy among the member countries (experience, knowledge, lessons including education);
- Promote multidisciplinary research and multi-sector inputs for forecast;

Proposed Recommendation III (Linking science to policy for national/local actions)

- Transform science based information into policy briefs / recommendations (adopt science to operations approach in DRR/CCA);
- Raising awareness / advocacy and education (specific focus on Youth, using indigenous knowledge system);
- Demonstration / piloting – mutual learning and sharing among the member countries at multiple levels (scientists, policy makers; institutions; civil society etc.);

Conclusions/ Call for Action

- Foster regional mechanism to improve the data sharing and exchange for climate related forecast building upon regional institutions (ADRC, ASEAN-ACDM, ADPC, SDMC, ICIMOD, ICHARM, AIT, etc);
- Support capacity building initiatives in the region through mutual cooperation (research, academia, bi-lateral and multi-lateral agencies – e.g. CCA funding etc.);
- Improve climate information services at the regional, national and local levels for DRR and CCA;