AWCI
Capacity Development Framework

Breakout Session guide

Guiding principles of capacity development

- The capacity development program is based on the needs of the Asia Pacific countries

1
- Increase the number of technically competent persons who can use advanced space based observations and global climate/weather forecasts.

2
- Facilitate customizing knowledge to meet local conditions and constraints.

Increasing technically competent staff (1)

- **Roving Seminars**
  - **Base component:** training basic skills to use tools and use of information extracted from space based observations and numerical models.
  - **Application examples** and customization through local problem solving.
  - Duration, coverage and thematic area will be decided depending on each country need.

Increasing technically competent staff (2)

- **Case studies/manual**
  - Develop **stand alone teaching manuals** on case studies with step-by-step instructions.
  - Will use public domain as well as models and software that will be made available to the AWCI group
  - The applications will include generic examples as well as specific local case studies supporting AWCI

Increasing technically competent staff (3)

- **Web based systems**
  - Web technology now provides many facilities for distance learning and collaborative activities.
  - Experiences from (1) and (2) will be used to develop web based training modules with the support from regional institutes.
  - Constraint: WWW ACCESS SPEEDS

Customizing global knowledge

- **How to incorporate advanced technologies in national programs?.**
  - Example, improving quantitative precipitation forecasts.
- **Research proposals; Joint Graduate programs:**
  - Research projects
  - Research workshops, conferences

TOPIC - for CDP (1)

- Topics by resource organizations was provided
- One additional topic, outside of these proposals, was requested
- Selection of few common topics by prioritization

Demonstration Projects Could be useful: Flood Example

- Use of satellite information in two broad areas related to flood risk management
  - Real time flood forecasting
    - This includes estimating/forecasting rainfall, estimating and forecasting flood flow, inundation forecasting, operational aspects of food control such as reservoir operations
  - Flood scenario development
    - For planning and mitigation purposes. This includes flood risk for different return periods, vulnerability assessment, damage estimation, flood insurance, evacuation guidance, evaluation of mitigation measures, etc

Topic for CBD (2)
Active Areas of Research

- **Improving quantitative rainfall estimation**
  - From numerical simulation + in situ observations and remotely sensed data
- **Use of space based observation/ information for real time flood forecasts**
  - Incorporating dynamic information on water flow, state of infrastructure, etc., for correction or improvement of predictions

Teams

- Please identify university/educational institutes and national agencies, who will participate in the development and execution of capacity development programs in each country.

Outcome - for capacity development with existing programs

- Based on country needs identify / prioritize topics for
  - Capacity Development for operational
  - Adopt specific research topic
- AWCI will develop/compile 2-3 capacity development modules/programs
- AWCI will request resource organizations to support with 2-3 existing capacity development programs
- Cross cutting themes are preferable
- At least one thematic area for one working group

Outcome - Research programs

- Customizing - adapting - to local conditions
- Joint international research for AWCI
  - This will be discussed also within the AWCI implementation plan.
- Mode of capacity development
  - Sandwich programs /local universities/resource institutes/Graduate programs in developed countries