

Conclusions – session 1

- APEIS/IEM can help in validating products for the Asia pacific region
- Development of integrative models constrained by multiple datasets (e.g., catchment models;), particularly coupled with MODIS and flux tower measurements.
- Models need to include lateral flows (surface (e.g.,rivers) and atmospheric horizontal flows.
- To foster APEIS/IEM collaboration with NASA, particularly with the Boston group (to validate MODIS products)

Conclusions – session2

- Need to share data processing code, MODIS direct broadcast code, validation strategies (eg, smoke/aerosol to get accurate surface reflectance, dust storm).
- Comparison of MODIS products produced by different groups.
- Possible expansion to Russia.
- Foster data exchange between MODIS stations.
- Common protocols to process AVHRR (eg, as a record of past land use change, especially for phenology, crop harvesting, burned history, etc – rapid land cover change).
- Collaboration toward developing a map on the condition of the Asia pacific region. We could start with fire and land use change. Others could be included in the future such as water resources, biomass, floodplain variation, wetlands.
- Develop methods to detect environmental changes and disasters.

Conclusions – session3

- Exchange information on how to improve the performance of tower sites, especially the ones with topographic variations
- Promote inter-site comparison among tower sites to gain insights on the ecological controls of energy, water, and carbon cycles.
- Emphasize both flux measurements and the study of ecological processes with the Apeis flux network.
- Develop scaling methodologies to use flux data to validate MODIS products.
- Develop methodologies to use flux data to parameterize models
- Encourage collaboration among the regional flux tower networks (eg, ozflux, chinaflux, apeis flux).

Conclusions – session4

- ARIES/IEM should develop new methodologies to monitor lucc at regional level and linking to ecosystem processes such as carbon sequestration it to ecosystem functioning (e.g., using model-data fusion approaches).
- Links to Fluxnet, global carbon project, china-flux, ozflux, and other regional and global projects that can contribute further to the implementation of the APEIS/IEM agenda.

Session 5

- APN can help APEIS/IEM on knowledge transfer, capacity improvement , and data sharing in the region.
- There is a need for the APEIS/IEM to provide policy advocacy to address environmental problems.
- To expand the applications to south and central Asia.