

Radiation and Sun Photometry Discussion Summary

4th 7-SEAS Workshop

Radiation

- Thailand (4 supersites plus Indochina network)
- Taiwan (2)
- Singapore
- Vietnam (18 sites)
- Others TBD (Maz, Puji?)
- Silpakorn Univ to provide calibration
- NASA/NRL contributions (CM21's preferred)
- NRL (Diffuse/Direct one off model)
- Tsay modified version
- Chang Mai AF permission (Serm/Si-Chee for SMART/COMMIT)
- Need a coordinator to Push data to 7-Seas website

Sun Photometers Needed/Issues

- Indonesia
 - Sumatra
 - Kalimantan
 - Sulawesi
- Intercountry agreements permission in progress
 - Malaysia/USA
 - Thailand/Cambodia/Laos/Myanmar
- Intracountry agreements (Malaysia, others as needed)
- POC: Brent Holben

Regional Support

- Taiwan NCU
 - Philippines, Vietnam, Taiwan, Hong Kong
 - Silpakorn University (Thailand)
 - Indochina
 - Singapore National University (SNU)
 - Singapore, Malaysia, Indonesia
- ❖ AERONET-Provide additional instrument for each region

Sun Photometer Modes

- Cloud Mode
 - Silpakorn University
 - Bac Lieu
 - NCU Taiwan
 - Northern Vietnam
 - ❖ Need good site management
- Sea Prism (Normalized water radiance)
 - Philippines
 - Thailand

Cruises

- Ships of Opportunity (SOO)
 - Thai Oceanographic Ship (Serm to contact)
 - Philippines Ferry (Nofel to organize)
 - Vietnam Cruise Vessel (Anh to investigate)
 - Hong Kong to Vietnam Coast Ferry (Janet)
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- ❖ Repetitive routes preferred
 - ❖ Switch Microtops every 6 months
 - ❖ POC-Alexander Smirnov

Science Discussions

- No formal Science Discussions
- Need for regional temporally dynamic aerosol models for improved satellite models
- Synergism w/ MPLNET/SALINAS network
- Solar flux energetics investigations
- Satellite and model validation
- AERONET validation! Few published articles
- Urban vs rural aerosol retrievals
- Influence of surface albedo (flooded Ag. Fields) on satellite aerosol retrievals

AERONET Distribution 2012

Yellow-Established
Green-Planned
Red Cld-Cloud Mode
Sun-current pyranometer

