7SEAS Technical Training Workshop 11 – 14 May, 2009 Singapore

Venue: National University of Singapore (Block S13 Level 4, CSD Lab, Department of Physics)

Day 1 (11 May)

09:00 – 09:20	Opening Introduction
09:20 – 10:00	Introduction to AOD and Giovanni
10:00 – 10:30	Intro to the Satellites and the MODIS Sensor
10:30 – 10:45	**Break**
10:45 – 11:25	Visually Exploring the Earth
	- Nasa websites with image and visual info
11:25 – 11:55	Visually Exploring the Earth Exercise
11:55 – 12:15	Remote Sensing Glossary
	- Important definitions in aerosol science
12:15 – 14:00	**Lunch**
14:00 – 14:25	MODIS atmosphere product organization
14:25 – 15:00	Exploring the MODIS-atmos sit
	- Reference site for MODIS atmosphere products
15:00 – 15:30	Using Sprectral Information in Remote Sensing
	- How spectral information is used to create products
15:30 – 15:45	**Break**
15:45 – 16:45	Using Spectral Information Lab
	- Using the HYDRA tool with MODIS 1KM files
16:45 – 17:30	LAADSWEB
	- Finding and ordering MODIS data

Day 2 (12 May)

09:00 – 09:30	The MODIS Aerosol product in detail
09:30 – 10:30	Exploring the aerosol product with HDFLook
10:30 – 10:45	**Break**
10:45 – 11:25	Giovanni MODIS daily investigation
	- Further exploration of MODIS aerosols with Giovanni, where and when to use and not use Giovanni.
11:25 – 12:05	A Brief Overview of Aerosol Remote Sensing Platforms
	- MISR, OMI, Parasol, Calipso
12:05 – 12:25	A Brief Overview of Trace Gas Remote Sensing
	- OMI and AIRS

12:25 – 14:10	**Lunch**
14:10 – 14:40	The Aeronet data system
14:40 – 15:10	Exploring Aeronet data
15:10 – 15:40	Air Quality Introduction
15:40 – 15:55	**Break**
15:55 – 16:25	Air Quality Products Monitoring and Forecast
16:25 – 16:55	Air Quality Case Study
16:55 – 17:25	The A-Train Data Depot

Day 3 (13 May)

09:00 – 09:45	MODIS Cloud Products in Detail
09:45 – 10:30	Tools and Data from the NRL - Flambe, NAAPS, NOGAPS
10:30 – 10:45	**Break**
10:45 – 11:15	The Aeronet Synergy Tool
11:15 – 11:45	Aeronet Synergy Tool Practice and Case Study
11:45 – 12:15	Combining NEO, Synergy, A-Train and Google Earth
12:15 – 14:00	**Lunch**
14:00 – 14:30	NEO, Synergy, A-Train and Google Earth Exercise
14:30 – 15:10	The MODIS Aerosol Algorithm in Detail
15:10 – 15:30	HDFLook Aeronet Features
15:30 – 15:45	**Break**
15:45 – 16:25	MODIS Validation and Product Quality
16:25 – 17:00	The MAPSS data set and exercise
	MAPSS is a data set of co-located MODIS and Aeronet Data.

Day 4 (14 May)

09:00 – 10:30	Additional topics
	Review and additional practice on topics covered in the past 3 days
	Interaction session – Discuss participants' needs and interests
10:30 – 10:45	**Break**
10:45 – 12:00	Interaction session – Potential projects and collaborations
12:00 – 13:45	**Lunch**
13:45 – 17:30	Technical visit to CRISP ground station and ESE Laboratories