

**MEETING, SCIENCE WORKSHOP AND TRAINING COURSE:
DATA INTERPRETATION COMBINING SATELLITE AND
GROUND-LEVEL OBSERVATIONS IN THE ASIAN MONSOON REGION
(17th October 2022 - 20th October 2022)**

**Hotel Maya Kuala Lumpur, 138 Jalan Ampang,
50450 Kuala Lumpur, Malaysia**

Day 0: 16th October 2022 (Sunday)

14:00 - 23:30	Arrival at KLIA / Travel to Maya Hotel in Kuala Lumpur
	Check-In Hotel / Room Registration

Day 1: 17th October 2022 (Monday)

	Senior Scientists	Young Scientists
09:00 - 09:30	Opening Ceremony Welcome & Logistics: Mohd Talib Latif (Research Grant Leader) Objectives and Goal: Hiroshi Tanimoto (Lead Co-Chair IGAC-MANGO)	
09:30 - 10:00	Plenary Talk on Air Quality During COVID-19 Lockdown Air Quality using Remote Sensing Barry Lefer (NASA)	
10:00 - 10:30	Tea-Break	
10:30 - 11:00	Plenary Talk on Air Quality During COVID-19 Lockdown (cont'd) Modeling and Mapping of Fine Particulate Matters in Malaysia using Satellite Data Kasturi Devi A/P Kanniah (UTM)	
11:00 - 11:30	Current Status and Way Forward of Air Quality in Malaysia Department of Environment (DOE) Malaysia Wan Aminordin Wan Kamaruddin (DOE)	
11.30 - 12:00	Discussion on Plenary Talk	
12:00 - 13:30	Lunch	
	Presentation on Studies Related to Air Quality During COVID-19 Lockdown by Representative from Each Country	
13:30 - 13:45	Mohd Talib Latif (Malaysia)	
13:45 - 14:00	Muhammad Fahim Khokhar (Pakistan)	
14:00 - 14:15	Noora Khaleel (Maldives)	
14:15 - 14:30	Manish Kumar Naja (India)	
14:30 - 14:45	Mei Zheng (China-Online)	

14:45 - 15:00	Maria Obiminda L. Cambaliza (Philippines)	
15:00 - 15:15	Liya E. Yu (Singapore-Online)	
15:15 - 15:30	Nguyen Thi Kim Oanh (Thailand-Online)	
15:30 - 15:45	Tea-Break	
15:45 -16:00	Ohnmar May Tin Hlaing (Myanmar)	
16:00 - 16:15	Puji Lestari (Indonesia)	
16:15 - 16:30	Abdus Salam (Bangladesh)	
16:30 - 16:45	Lesty Dias Jayasuriya (Sri Lanka)	
16:45 - 17:00	To Thi Hien (Vietnam)	
17:00 - 17:15	Chang-Keun Song (Korea-Online)	
17:15 - 17:30	Hiroshi Tanimoto (Japan)	
17:30 - 17:45	Vinayak Sinha (India-Online)	
18:30 – 20:00	Evening Meal / Dinner	
Day 2: 18th October 2022 (Tuesday)		
	Senior Scientists	Young Scientists
	<div>Session 1</div> <div>Discussion on Review Paper</div> <div>Title: The effect of COVID-19 Lockdown on air quality in major cities in the Asian monsoon region.</div> <div>Summarize the key findings of the review paper</div> <div>Discussions</div>	<div>Session 1</div> <div>Training Course: Exploring and Visualizing Datasets using R</div> <div>Satellite data visualization, interpretation (AOD and gases pollutant), extraction of data values in R and comparison between AOD from satellite and AOD from AERONET data</div> <div>Trainers: Kasturi Devi (UTM) Nurul Amalin Fatihah (UTM)</div>
09:00 - 10:30		
10:30 - 11:00	Tea-Break / Poster Viewing	
11:00 - 12:30	Session 2	Session 2
	<div>Discussion on Potential Manuscripts</div> <div>Potential manuscript discussion related to the output of the APN grant research paper based on the available data from each country.</div> <div>Title: Measurements of air pollutants during different stages of lockdown</div>	<div>Training Course: Estimation of PM_{2.5} using Machine Learning in R</div> <div>Modelling (data normalization, data cleaning, data split into training and validation, computation of the error of the model)</div> <div>Trainers: Kasturi Devi (UTM) Nurul Amalin Fatihah (UTM)</div>

	based on different ground level and satellite measurement	
12:30 - 14:00	Lunch / Poster Viewing	
14:00 - 16:30	<p>Session 3 IGAC-MANGO Committee Meeting</p> <p>To discuss comments from IGAC-SSC</p> <p>Updates from other research partners and representatives (SOLAS, ACAM, TOAR, etc.)</p> <p>To discuss the membership renewal, new members, and new liaisons.</p>	<p>Session 3 Training Course: Estimation of PM_{2.5} using Machine Learning in R (cont'd)</p> <p>PM_{2.5} mapping, data interpretation and validation of estimate PM_{2.5} from map</p> <p>Trainers: Kasturi Devi (UTM) Nurul Amalin Fatihah (UTM)</p>
16:30 - 17:00	Tea-Break / Poster Viewing	
17:00 - 18:30	Business meeting (if any or continue committee meeting if needed)	
18:30 - 20:00	Evening Meal / Dinner	

Day 3: 19th October 2022 (Wednesday)		
	Senior Scientists	Young Scientists
09:00 - 10:30	<p>Session 4 Updates on Recent and Upcoming Research Projects</p> <p>Asian AQ & GEMS (James Crawford)</p> <p>GOSAT-GW (Hiroshi Tanimoto)</p>	<p>Session 4 Training Course: Data Discovery with Python</p> <p>Introduction to the training platform Metop-B IASI carbon monoxide time series AERONET time series Working with the data</p> <p>Trainer: Sabrina Szeto</p>
10:30 - 10:45	Tea-Break / Poster Viewing	
10:45 - 12:30	<p>Session 5 Discussion on Potential Publications and Future Research Network Collaborations</p> <p>Expected deliverables and outputs.</p> <p>Discussion on how to deliver the APN-GCR research findings to the policymaker.</p>	<p>Session 5 Data Discovery with Python</p> <p>Working with the data Group sharing of results</p> <p>Trainer: Sabrina Szeto</p>

12:30 - 14:00	Lunch / Poster Viewing	
	Session 6 Slide / Poster Presentation by Young Scientist from Each Country	
14:00 - 14:15	Pauziyah Mohammad Salim (Malaysia)	
14:15 - 14:30	Siti Aminah Anshah (Malaysia)	
14:30 - 14:45	Mahendar Rajwar (India)	
14:45 - 15:00	Rabia Majeed (Pakistan)	
15:00 - 15:15	Tran Anh Ngan (Vietnam)	
15:15 - 15:30	Shane Marie Visaga (Philippines)	
15:30 - 15:45	Khing Thwe Oo (Thailand)	
15:45 - 16:00	Pemli Santhiyago (Sri Lanka)	
16:15 - 16:30	Ye Naung Tun (Myanmar)	
16:30 - 16:45	Tea-Break	
16:45 - 17:00	Maulana Khafid Arrohman (Indonesia)	
17:15 - 17:30	Hao Xu (Japan)	
17:30 - 17:45	Shahid Uz Zaman (Bangladesh)	
18:30 - 20:00	Evening Meal / Dinner	
Day 4: 20th October 2022 (Thursday)		
	Senior Scientists	Young Scientists
09:00 - 10:00	Session 7 Potential Collaboration and Research Grants SATREPS, JPN-SIN, India-ASEAN grants	
10:00 - 10:15	Tea-Break / Poster Viewing	
10:15 - 11:00	Closing Ceremony Wrap-up summary for the workshop and future planning Award for poster presentation Closing address: Mohd Talib Latif	
11:00 - 12:30	Lunch / Check-Out	
12:30	Depart to the airport at 12:30	