Agenda for the 6th ACAM Workshop, 11-13 June 2025, Bali, Indonesia

Day 1 - 11 June 2025, Wednesday			
08:00 – 08:45	Registration		
09:00 – 09:05	Indonesia Raya	ITB	
09:05 – 09:15	Welcome & Logistics	Puji Lestari	
09:15 - 09:25	ACAM Co-Chair Address	Ritesh Gautam	
09:25 - 09:35	Inaugural Address	Prof. Ir. Agus Jatnika Effendy, Ph.D ITB Vice Rector	
09:35 – 9:55	Keynote Address	Dr. Rasio Ridho Sani Ministry of Environment/Environmental Protection Agency Republic of Indonesia	
9:55 – 10:30	Group Photo and Tea Break		
	d campaigns, modeling activities or satellite programs in the campaigns activities or satellite programs in the campaigns, modeling activities or satellite programs in the campaigns activities or satellite programs activities	Bärbel Vogel (T1)	
10:50 – 11:10	Advancing Atmospheric Composition Observation and Research in Indonesia: Challenges, Modalities, and Pathways to Regional Collaboration (Invited)	Ardhasena Sopaheluwakan (T2)	
11:10 – 11:25	Overview of the tethered balloon observation of atmospheric composition over the Tibetan Plateau	Jianchun Bian (T3)	
11:25 – 11:40	Influence of tropopause fold event on surface ozone concentration in the TP in summer	Jiali Luo (T4)	
11:40 – 11:55	Application of Asian summer monsoon UTLS observations toward improved chemistry model representation	Warren Smith (T5)	
11:55 – 12:10	Development of the INAAQM Model in Indonesia: Integrating WRF and EMEP for Enhanced Air Quality Forecasting	Danang Eko Nuryanto (T6)	
12:10 – 13:30	Lunch Break		

18:00	Workshop Dinner				
17:15	Day 1 Adjourn				
16:00 – 17:15	Poster Introductions – lightning talks (1 min each)	ning talks (1 min each) Poster presenters			
15:45 – 16:00					
15:30 – 15:45					
15:15 – 15:30	Training School Report	Training School Leads (Piyush Patel et al.) (T12)			
-	reports, Collaborator Network & Poster Introductions – Ritesh Gautam)				
14:55 – 15:15	Tea Break				
14:40 – 14:55	The role of Atmospheric Feedback and Groundwater Conservation Policies in degrading Air Quality	Sachin Ghude (T11)			
	Vertical structure of relative humidity over ice within upper troposphere cirrus layer over the Asian summer monsoon region, derived from the COBALD-CFH tandem	Danrui Peng (T10)			
14:10 – 14:25 14:25 – 14:40	Optimizing Advanced Aerosol Retrievals with RemoTAP and Multi- Angle Polarimetry: Elevating Insights into Aerosol-Cloud Interactions	Piyush Patel (T9)			
13:50 – 14:10	Transdisciplinary solutions to air pollution due to crop residue burning in northwest India (Invited) Prabir Patra (T8				
13:30 – 13:50	An Update on the Airborne and Satellite Investigation of Asian Air Quality (ASIA-AQ) (Invited)				

<i>Day 2</i> - 12 June 2025, Thursday			
Session 3 - Aer	osols/air quality characterization, aerosol-monsoon-climate ir	nteractions and feedbacks	
(Session Chairs	s – Mian Chin and Ja-Ho Koo)		
09:00 - 09:20	Aerosols - Planetary Boundary Layer - Weather Interactions: From	Aijun Ding (T15)	
	Megacity Haze Pollution to Wildfire Smoke (Invited)	7.1,4.1. 2.1.18 (1. = 3)	
09:20 – 09:40	Influence of emissions from Asia on the Indian summer monsoon and the Arctic climate (Invited)	Suvarna Fadnavis (T16)	
09:40 - 09:55	Anthropogenic forcing dominates changes in compound long- duration dry and heat extremes in China	Pinya Wang (T17)	

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09:55 – 10:10	Decoupling the PBL Height, the Mixing Layer Height, and the Aerosol Layer Top in LiDAR Measurements over Chiang Mai,	Ronald Macatangay (T18)
10:10 – 10:25	Northern Thailand Inconsistent Fast and Slow Responses of East Asian Summer Monsoon Precipitation Forced by Black Carbon	Bin Zhu (T19)
10:25 – 10:40	Black Carbon Initiatives in the Hindu Kush Himalayan Region: perspective from ICIMOD	Ravi Sahu (T20)
10:40 – 11:00	Tea Break	
	osols/air quality characterization, aerosol-monsoon-climate ir s – Jim Crawford and Aijun Ding)	nteractions and feedbacks
11:00 – 11:20	Changing Air Quality in China: Interactions with the Monsoon System and Climate Change (Invited)	Hong Liao (T21)
11:20 – 11:35	Constraining Sunlight Absorption of BrC from Anthropogenic Sources and Wildfires with Multiple-type Observations and Models	Guangxing Lin (T22)
11:35 – 11:50	Climate response to direct radiative feedback of carbonaceous aerosols over India in dry and wet seasons	Sudipta Ghosh (T23)
11:50 – 12:05	Investigating ENSO impacts on major aerosol species over Southeast Asia	Mega Octaviani (T24)
12:05 – 12:20	Role of anthropogenic aerosols on PBL processes and meteorology in the Indian subcontinent	Zhining Tao (T25)
12:20 – 13:40	Lunch Break	
13:40 – 13:55	Precipitation trend increases the contribution of dry reduced nitrogen deposition	Xuemei Wang (T26)
13:55 – 14:10	Surface ozone over East Asia and Southeast Asia: the important role of complex chemistry and climate penalty	Ke Li (T27)
14:10 – 14:25	Development of Summer Storms Forecasting System through Incorporation of Aerosol-Cloud Interaction using WRF-Chem for Thailand	Sompoke Kingkaew (T28)
14:25 – 14:40	Black carbon in Ho Chi Minh City: atmospheric concentrations and trends	To Thi Hien (T29)
14:40 – 14:55	Correlations and estimates of surface Particulate Matters and Black Carbon mass concentrations using the backscatter signals of ceilometer in Kathmandu Valley, Nepal	Suresh Pokhrel (T30)
14:55 – 15:10	Personal Exposure Monitoring of Fine Particulate Matter (PM2.5) for Indoor (Occupants) Workers in the Megacity of Jakarta	Iriana Windy (T31)
15:10 – 15:25	Impact of volcanic eruption on the Asian Tropopause Aerosol Layer (ATAL)	Hazel Vernier (T32)
15:25 – 15:40	Atmospheric Black Carbon in Klang Valley Malaysia Temporal Variations and Source Apportionment Using Online AE33 Measurements	Eliani Ezani (T33)
15:40 – 16:00	Tea Break	

Poster Session		
16:00 – 18:00	Poster viewing	(see poster list at the end of agenda)
18:00	Day 2 Adjourn	

	ce gas and greenhouse gas emissions – measurements, invento s - Prabir Patra and Xuemei Wang)	ories, satellite observations
09:00 - 09:20	The societal benefits of the IASI infrared sounding mission (Invited)	Cathy Clerbaux (T34)
09:20 – 09:40	Observations of greenhouse gases and air pollutants in the urban and background atmosphere in Indonesia (Invited)	Yukio Terao (T35)
09:40 – 09:55	Investigating Global Methane Pledge scenarios using the UK Earth System model	Garry Hayman (T36)
09:55 – 10:10	Multi-Spectral Imaging Carbon Observatory on China's Space Station	Hui Su (T37)
10:10 – 10:25	Declining Methane Leakage from Oil & Gas: Uncovered by Atmospheric Observation in Western Siberia	Takuto Taguchi (T38)
10:25 – 10:40	Long-term analysis of post-monsoon pollution events in the Indo- Gangetic Plain using IASI CO satellite measurements [2007-2024]	Selviga Sinnathamby (T39)
10:40 – 10:55	Constraining Methane Emission Trends through Isotope Modeling and Satellite Observations	Naveen Chandra (T40)
10:55 – 11:10	MethaneSAT: a novel satellite mission providing seamless access to quantitative methane emissions data	Ritesh Gautam (T41)
11:10 – 11:30	Tea Break	
	nistry-climate interactions and pollution transport to the uppe UTLS) (Session Chairs – Bärbel Vogel and Jianchun Bian)	er troposphere/lower
11:30 – 11:50	AeroCom multi-model study of two-decadal trend of aerosols in the upper troposphere and their connections to surface emissions and Asian summer monsoon dynamics (Invited)	Mian Chin (T42)

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11:50 – 12:05	Evaluating reanalysis representations of trace gas climatologies and variability in the Asian monsoon tropopause layer	Jonathon Wright (T43)	
12:05 – 12:20	On the use of Trace Gas Measurements to Quantify Convective Transport Time Scales and Pathways	Zhengzhao Johnny Luo (T44)	
12:20 – 12:35	Quantifying Vertical Transport in Deep Convection: A Comparison of Transit and Turnover Times	Hui-Ming Hung (T45)	
12:35 – 13:50	Lunch Break		
13:50 – 14:05	Key Findings from Recent Airborne Campaigns and the Asian Monsoon's Role in Linking Air Quality and Climate	Laura Pan (T46)	
14:05 – 14:20	Mutual interactions and combined impact of among ozone, fine particulate matter, carbon dioxide on East Asia Summer Monsoon (EASM) Climate Tijian Wang (T47)		
14:20 – 14:35	Relationship among East Asian summer monsoon, Siberian wildfire, and hydrocarbon amounts in the upper troposphere	Ja-Ho Koo (T48)	
14:35 – 14:50	The impacts of deep convection and lightning on the vertical distribution of atmospheric components	Yan Yin (T49)	
ACAM End of W	/orkshop discussion (Session Chair – Ritesh Gautam & Puji Les	stari)	
14:50 – 15:30	Panel Discussion- ACAM accomplishments over the past decade and new opportunities	ACAM SSG	
15:30 – 15:40	Vote of thanks	ACAM Chairs, LOC	
15:40	Workshop Adjourn		

Poster presentations 11 June 2025

Poster ID	First name	Last name	Poster Title
P1	Varsha	Ganguly	Investigating Aerosol And Lulc Influences On Monsoonal Rainfall Characteristics Over Dust Dominated Regions Of Rajasthan
P2	Moammad	Ikbal	Characterization Of Bioaerosol Emissions In Taj City Agra Suburban Environments
P3	Naziya	Tarannum	Quantifying Mung-Bean Yield Reduction And Economic Losses In Western India Due To Surface Ozone: A Comparison Of Ozone Indices
P4	Rabi Sankar	Maiti	Characterizing Spatiotemporal Variability Of Atmospheric Methane Using Eof And Wavelet Analysis In The Indian Subcontinent

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P5	Shubhajyoti	Roy	Large Ozone Intrusions During Sudden Stratospheric Warmings Enhance Ozone Radiative Forcing Over South Asia
P6	Saurabh	Dhakad	Integrating Satellite Derived Ozone-AOD Data With Ground-Based Chlorine Measurements At Delhi (India)
P7	Iriana	Windy	Personal Exposure Monitoring Of Fine Particulate Matter (PM2.5) For Indoor (Occupants) Workers In The Megacity Of Jakarta
P8	Bonifasius Mahardhika	Trihandono	Assessing Control Measures On Transportation Emissions: An Emission Inventory With Cost-Effectiveness Analysis
P9	Maulana Khafid	Maulana	Emission Inventory Of Greenhouse Gases From The Transport Sector In D.I. Yogyakarta
P11	Muhammd Mubashar Ahmad	Dogar	Tropical Volcanic Aerosols And Their Role In Chemistry-Climate Interactions: High-Top Model Insights Into Enso, Nao, And Utls Transport
P12	Pauziyah	Mohammad Salim	Satellite Measurement Of Urban Air Quality Concentration And Distribution Variations In Malaysia.
P13	Lam	Pham	On-Road Traffic Emission Estimation And Spatial Allocation: A Framework For Emission Map Development In Hanoi, Vietnam
P14	Shahid Uz	Zaman	Aerosol-Climate Interactions In South Asia: Assessment Of Ozone, Black Carbon, And Optical Properties Using Ground And Satellite Data
P15	Samiha	Nahian	Chemical Characterization And Risk Assessment Of PM2.5- Bound Polycyclic Aromatic Hydrocarbons (Pahs) And Heavy Metals In Rural School Environment Of Bangladesh
P16	Garima	Shukla	Distribution And Chemical Composition Of Aerosols Over The Bay Of Bengal: Ship-Borne Measurements And Global Reanalysis Products
P17	Pavan	Kumar	Seasonal Patterns Of Air Pollution In New Delhi: Interplay Between Meteorological Conditions And Emission Sources
P18	Asutosh	Acharya	South Asian Summer Monsoon Under Stratospheric Aerosol Intervention
P19	Ajaya	Indrani	Spatial & Temporal Dynamics Of Aerosols & Air Quality In The Asian Monsoon Region: An Analysis & Urban Planning Implication
P20	Sanya	Narbar	Aerosol Interactions With The Indian Summer Monsoon In CMIP6
P21	Akshay	Patil	Precipitation Chemistry And Aerosol Source Attribution: Long-Term Trends In Ph, Conductivity, And Major Ions Over Pune, India.
P22	Andi Annisa Tenri	Ramadhani	Size-Segregated Particulate Matter Down To Pm0.1 And Carbonaceous Component In The Eastern Indonesia
P23	Utsab Bhattarai	Utsab	Influence Of Biomass Burning On Particulate Pollution In Monsoon-Affected Regions: A Case Study From Khumaltar, Nepal
P24	Kannika	Kingkaew	Investigation Of Extreme High Anomaly Temperature Feedback From Aerosols In Summer Derived From Climate And Weather Forecast Datasets Over Northeastern Thailand
P25	Sherin Hassan	Bran	Aerosol-Induced Radiative Effects On Monsoon Meteorology Across Enso Phases In Mainland Southeast Asia
P26	Hoang Minh	Tran	The First Investigation Of Per- And Polyfluoroalkyl Substances (Pfas) In Suspended Particulate Matters In Ho Chi Minh City, Vietnam
P27	Rong	Song	Effects Of Stress Factors On Biogenic Isoprene Emissions And Their Contribution To Ozone And Secondary Organic Aerosols In China
P29	Lan	Wang	Balloon-Borne Measurement Of Dust Transport To The Tropopause Layer Over The Northern Tibetan Plateau
P30	Ran	Duan	Eastward Shift Of The Asian Summer Monsoon Anticyclone And Its Impacts On Chemical Composition
P31	Mingzhen	Gu	Two Different Types Of Tropopause Folding Based On Radiosonde Observations And Their Impact On Surface Temperature
P32	Muneeba	Shabbir	UNRAVELING AIR POLLUTION SOURCES IN LAHORE, PAKISTAN: EMPLOYING PMF AND HYSPLIT BASED APPROACH
P33	Adhitya	Sutresna	Interference Of Sea Salt In Capture Vapouriser-Tof-ACSM Measurements Of Biomass Burning Organic Aerosols

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P34	Qingeng	Wang	Mutual Interactions And Combined Impact Of Among Ozone, Fine Particulate Matter, Carbon Dioxide On East Asia Summer Monsoon(EASM) Climate
P35	Hua	Li	Interdecadal Shift In North Indian Ocean-South China Sea Influence On The Evolution Of The East Asian Summer Monsoon From July To August
P36	Huixin	Li	Compound Hot Drought Events In The Mei-Yu Region: Polar-Tropical Joint Forcing
P37	Yixuan	Gu	Satellite And Adjoint-Based Source Attribution Of Health Burden Attributable To PM2.5: A Case Of Shanghai
P41	Hongying	Tian	The Spatiotemporal Patterns Of The Upper-Tropospheric Water Vapor Over The Tibetan Plateau In Summer Based On EOF Analysis
P42	Dan	Li	Ozone Variability In The Upper Troposphere And Lower Stratosphere Over Beijing: An Analysis Of 20 Years Ozonesonde Profiles
P43	Yajuan	Li	Seasonal And Regional Dependence Of The Total And Stratospheric Ozone Trends At Northern Mid-Latitudes
P44	Zhixuan	Bai	The SWOP Campaign Plan On The Qinghai-Tibet Plateau In 2025
P45	Moch Syarif	Romadhon	The Observation Of Metallic Layer In The Mesopause Over Equator From 2009 To 2020 By Lidar System Installed At Kototabang Indonesia
P46	Putri Fatihah	Zuhrah	Analyzing Urban Air Pollution: Pm2.5 Source Apportionment In Jakarta Through Epa Pmf-Cmb Integration
P47	Nor Diana	Abdul Halim	Assessing Air Quality Trends In Malaysian Conurbations: No ₂ And So ₂ Variability Across Land Use And Urban Activities
P48	Taegyung	Lee	Variability Of Winter Monsoon Intensity Under Different Climate Scenarios And Its Impacts On Air Quality In East Asia
P49	Minju	Park	Tropopause Heights From Ozonesonde Observation In Pohang, South Korea, And Its Relationship With Asia Summer Monsoon Index
P50	Xinyue	Wang	An Index For Quantifying The Interannual Variability Of The Asian Summer Monsoon Anticyclone
P51	Dapeng	Zhang	How The Unparalleled Dust Storm Over The Arabian Peninsula In May 2022 Exacerbated The Record-Breaking Heatwave In China In The Ensuing Summer?
P52	Jiachen	Fan	Spatiotemporal Differences And Responsive Mechanisms Of Hourly Surface Ozone Over China During Multistage COVID-19
P53	Thareq	Muhammad Diva	Contribution Of Elemental Carbon (EC) And Organic Carbon (OC) Compound To Particulate Emissions (PM2.5) In Jakarta
P54	Maulana Khafid	Arrohman	Emission Inventory Of Greenhouse Gases From The Transport Sector In D.I. Yogyakarta
P55	Hung	Nguyen The	CEMM's Ongoing Efforts And Collaborative Research On Air Quality In Vietnam
P56	Izzati Amani	Mohd Jafri	Evolution Of Trends And Interactions Between Air Quality And Climate Variables In Peninsular Malaysia
P57	Adyati Pradini	Yudison	Assessing The Impact Of Land Use Variation On Air Quality Monitoring And Public Health: A Spatial-Temporal Study In Bandung Regency
P58	Worradorn	Phairuang	Daytime And Nighttime Open Burning Of Biomass And Ambient Size-Fractionated Particulate Matter Down To Pm0.1 In Chiang Mai, Thailand
P59	Xin	Huang	Air Pollution-Fire Weather Interaction In Diverse Climatic Regions
P60	Sijia	Lou	Response Of The Stratospheric Ozone And Quasi-Biennial Oscillation To The Hunga Tonga-Hunga Ha'apai Volcanic Eruption
P61	Ke	Ding	Impacts Of Northward Typhoons On Autumn Haze Pollution Over North China Plain
P62	Saurabh	Sonwani	Carbonaceous Aerosol Characterization And Their Association With Meteorological Parameters During Summer Monsoon And Winter Monsoon In Tropical Megacity, India