

21 September 2021

Local Western Indonesia Time (GMT+7)

ROOM-7 GATOTKACA (Invited Speaker: Peberlin Sitompul, Ph.D)

Chairs: Ryo Yabuki, Hubert Luce, Farid Lasmono

Total: 1 invited talk + 26 articles

Time	Authors	Title	ID
08:30 – 08:35	Moderator		
08:35 – 08:45	Rachmat Sunarya, Asif Awaludin and Wendi Harjupa	A Software Improvement Method for Radiosonde Platinum Sensor	R7-001
08:45 – 08:55	Soni Aulia Rahayu, Rachmat Sunarya, Edy Maryadi, Listi Restu Triani, Christine Cecylia Munthe	Performance Analysis of Platinum Wire Temperature Sensor for Radiosonde	R7-002
08:55 – 09:05	Jesi Pebralia and Iful Amri	A Low-Cost and Practical Method for Determining Raindrop Size from Spray Nozzle by Using a Mobile Phone Camera	R7-003
09:05 – 09:15	Discussion		
09:15 – 09:25	Ryo Yabuki, Hiroyuki Hashiguchi, Issei Terada and Mamoru Yamamoto	Study on Adaptive Clutter Rejection System Using External Receiving Antennas for the MU Radar	R7-004

09:25 – 09:35	Hubert Luce, Hiroyuki Hashiguchi, Lakshmi Kantha, Abhiram Doddi, Dale Lawrence and Masanori Yabuki	Revising the Models Used to Estimate TKE Dissipation Rates from UHF and VHF Radar Measurements	R7-005
09:35 – 09:45	Ryosuke Tamura, Koji Nishimura and Hiroyuki Hashiguchi	The Inversion Algorithm of Atmospheric Radar Signal Given by a 3-Dimensional Volume Scattering Semi-Physical Simulation	R7-006
09:45 – 09:55	Farid Lasmono, Risyanto, Fadli Nauval, Elfira Saufina, Teguh Harjana dan Trismidianto	Satellite Rainfall Estimation from Himawari-8 Multi Channels Observation Using Random Forest Algorithm	R7-007
09:55 – 10:05	Discussion		
10:05 – 10:10	Moderator (conclusion)		
10:10 – 10:20	Break		
10.20-10.40	Peberlin Sitompul (Invited Talk)	Indonesian Radio Telescope and Its Application in Radio Astronomy	
10:40 – 10:50	Risyanto, Farid Lasmono, Ibnu Fathrio, Dita Fatria Andarini, Fadli Nauval, Aisya Nafiisyanti, Ina Juaeni and Teguh Harjana	Estimation of TPW over Indonesian Maritime Continents Based on Himawari-8 Data Using Machine Learning Techniques	R7-008
10:50 – 11:00	Joko Sampurno, Valentin Vallaes, Randy Ardianto and Emmanuel Hanert	Machine Learning Models for Predicting the Daily Maximum Water Level in a Tidal River:	R7-009

		The Kapuas Kecil River Case Study	
11:00 – 11:10	Bunga Aprilia, Marzuki Marzuki, Imam Taufiq and Findy Renggono	Classification of Precipitation Types from Micro Rain Radar Observation using Artificial Neural Network	R7-010
11:10 – 11:20	Discussion		
11:20 – 11:30	Alya Syifa Ihsani, Anggunmeka Luhur Prasasti and Wendi Harjupa	Rain Prediction Using Convolutional Neural Network (CNN) Method Based on Digital Image	R7-011
11:30 – 11:40	Inggrid Wahyu Kinanti, Ade Romadhony, Indra Chandra and Azrina Abd Aziz	Artificial Neural Network Based Prediction of PM2.5 Mass Concentration in Bandung Metropolitan	R7-012
11:40 – 11:50	Aisya Nafiisyanti	Interpolation Methods Evaluation on Arbitrary Straight Line Flight Weather Data	R7-013
11:50 – 12:00	Discussion		
12:00 – 12:05	Moderator (conclusion)		
12:05 – 13:00	Break		
13:00 – 13:10	Immanuel Jhonson Arizona Saragih	Comparison of Rainfall Prediction on WRF-3DVAR Model Satellite Data Assimilation Using Cold- and Warm Start Mode in North Sumatra region	R7-014

13:10 – 13:20	Ibnu Fathrio, Risyanto, Farid Lasmono, Dita Fatria, Teguh Harjana, Ina Juaeni, Fadli Nauval, Aisya Nafiisyanti and Agung Febrian Putra	Improving Numerical Weather Prediction by Assimilating Clear-Sky Infrared Radiance from Himawari-8 Satellite: A Case Study of Heavy Rainfall over Southeast Sulawesi	R7-015
13:20 – 13:30	Haries Satyawardhana, Erma Yulihastin, Gammamerdianti, Candra Nur Ihsan and Eka Putri Wulandari	Analysis of Spatial Comparison between Predicted Rainfall Based on Dynamic Model and Satellite	R7-016
13:30 – 13:40	Discussion		
13:40 – 13:50	Candra Nur Ihsan and Nova Agustina	Weather Prediction System Using Thomas-Fiering Model to Determine Initial Planting Recommendations in West Java Province	R7-017
13:50 – 14:00	Nining Jumianti, Marzuki, Wendi Harjupa, Risyanto and Muhammad Fadhlan Putranto	Prediction of Extreme Rainfall in Padang City Based on Clouds Brightness Temperature Difference from Himawari-8 Satellite Data	R7-018
14:00 – 14:10	Vira Friska, Deasy Arisa, Marzuki Marzuki and Fadilla Monica	Indo-Australian Plate Velocity Measurement During Interseismic Phase in 2011-2012 Using Sumatran GPS Array (SuGAR) Data	R7-019
14:10 – 14:20	Fadilla Monica, Deasy Arisa, Marzuki and Vira Friska	Deformation Analysis During the Pre-, Co- and Post-Seismic Phase Associated with the 2019	R7-020

		Mw6.0 Mentawai Earthquake Using Satellite Geodetic Technology from Sumatran GPS Array (SuGAR) Data	
14:20 – 14:30	Discussion		
14:30 – 14:35	Moderator (conclusion)		
14:35 – 14:45	Break		
14:45 – 14:55	Sri Hamdiyessi, Fery Kurnia Sandi, Rihadatul Aisy Syofyani Nasution, Fadilla Monica, Deasy Arisa, Marzuki Marzuki and Elistia Liza Namigo	Determining the Deformation Trend from Geodetic Measurement of the Indian Ocean Intralab Earthquakes: As Obtained from the Sumatran GPS Array (SuGAR) Data	R7-021
14:55 – 15:05	Muhammad Hanif and Lina Handayani	2D and 3D Subsurface Model of Baribis Fault zone in West Java	R7-022
15:05 – 15:15	Muhammad Hanif, Adrin Tohari and Dadan Dani Wardhana	Palu Koro Fault Zone Subsurface Model from Microtremor Method and Its Relation to Potential Hazard	R7-023
15:15 – 15:25	Discussion		
15:25 – 15:35	Galang P. Refindo, Nabilla F. Syafitri, Tsany N. A. Yenuar, Muhammad Hamidi, Deasy Arisa, Marzuki and Elistia L. Namigo	Utilizing the Global Positioning System (GPS) Data from Sumatran GPS Array (SuGAR) to Measure Seismic Deformation Related to The Mw7.6 Padang Earthquake 2009	R7-024

15:35 – 15:45	Herizon Primadona, Ravidho Ramadhan, Reza Ananda Ramadhan, Vira Friska, Deasy Arisa, Marzuki Marzuki and Elistia Liza Namigo	Dynamics of West Coast of Sumatra and Island Arc Mentawai During the Coseismic Phase of the Mentawai Mw7.8 25 October 2010 Earthquake	R7-025
15:45 – 15:55	Andini Dwi Khairunnisa, Sachi Emelin Carissa and Tia Sella Isnaini	Flood Analysis in East Sumba Regency through Synthetic Aperture Radar Data with Geo- Artificial Intelligence (Geo AI) Applications Based on Cloud Computing	R7-026
15:55 – 16:05	Discussion		
16:05 – 16:10	Moderator (conclusion)		