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NOTE: all submitted abstracts are accepted for oral presentation.

KEYNOTE SPEAKER

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2	Jann-Yenq Liu	Equatorial ionospheric weather observed by FORMOSAT-3/COSMIC and FORMOSAT-7/COSMIC-2
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INVITED SPEAKER

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2	Marzuki	Analysis Vulnerability Disaster of Landslide in Lantan Village North Batukliang District Central Lombok Regency Using Geoelectric Data And Sentinel Image Data
3	Ninong Komala	Atmospheric Environmental Research by Analyzing the Character of Indonesian Ozone Profile using AQUA_AIRS Data
4	Yasunobu Miyoshi	Impacts Of The 2019 Antarctic Stratospheric Sudden Warming Event on The Equatorial Thermosphere And Ionosphere.
5	Masatomo Fujiwara	Overview of the SPARC Reanalysis Intercomparison Project (S-RIP) during 2013-2021
6	Manabu D. Yamanaka	EAR Construction Motivation Revisited: Indonesian Coastline Representing Earth
7	Toshiaki Umezawa	Humanosphere science*
8	Acep Purqon	Precision Heat Monitoring in Agriculture using Fuzzy Logic Model
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10	Wahyudi Hasbi	Development of LAPAN's satellite*

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130	Arifatatus Hikmah Rusmanansari, Rusmawan Suwarman, Yudha Setiawan Djamil and Yan Firdaus	GSMAP Seasonal Rainfall Verification Over Western Java
131	<u>Marzuki Marzuki, Helmi Yusnaini, Fredolin Tangang, Robi Muharsyah and Mutya Vonnisa</u>	Mechanisms of Diurnal Precipitation over Sumatra: Measurement and Climate Model Perspectives
132	Nining Jumianti, Marzuki Marzuki, Wendi Harjupa, Risyanto Risyanto and Muhammad Fadhlun Putranto	Prediction of Extreme Rainfall in Padang City Based on Clouds Brightness Temperature Difference from Himawari-8 Satellite Data
133	Rana Hapsari, Arno Kuntoro, Widyaningtias, Edi Riawan, Mohammad Farid and Mohammad Adityawan	Correcting Bias Gpm Imerg Precipitation over Brantas Watershed, Indonesia
134	Gema Puspa Sari and Elen Yulance Yosepha	Microalgae as a sustainable protein source to reducing stunting in children: A critical review and concept analysis
135	Ni'Matus Sholikhah and Bambang Setiahari	Simulation of Solar Flare Mechanism Based on Ideal Magnetohydrodynamics State by Disrupting The Stability of Magnetic Field Due To The Plasma Momentum Injection
136	Ikhsan Nazar Arrahman	Environmental Impact Analysis through Heavy Metals Contained Sago Starch
137	Nani Cholianawati	Diurnal Variation of Fine Particulate Matter in Indonesia Based on Reanalysis Data
138	Rahma Alfina Salsabila and Trismidianto Trismidianto	Analysis of Multi-scale Weather Parameter Triggering Flash Flood Event of the 16 March 2019 in Sentani, Jayapura.
139	Beben Graha Putra, Arie Yulfa and Siti Khofifah	Identification Of Shoreline Changes In Padang City From 2000-2020 Using Modified Normalized Difference Water Index Method And Use Of Digital Shoreline Analysis System

140	Candra Nur Ihsan and Nova Agustina	Weather Prediction System Using Thomas-Fiering Model To Determine Initial Planting Recommendations in West Java Province
141	Akhmad Berryl Widyartha, Muhammad Nurdin, La Ode Ahmad Nur Ramadhan, Andi Tenri Nurwahidah and Thamrin Azis	Enhancing Visible Light Adsorption of TiO ₂ /Ti Photocatalyst by co-doping Cr and N Elements and Its Application in Tetracycline Photoelectrochemical Degradation
142	Wilin Julian Sari, Waluyo Eko Cahyono, Rahaden Bagas Hatmaja, Prawira Yudha Kombara and Emmanuel Adetya	Correlation Investigation between Aerosols Variability, Forest Fire and Meteorological Variables during Summer Monsoon in Riau Province, Indonesia
143	Siska Rasiska, Pampang Parikesit and Iwan Setiawan	The Impact of Climate Change on Effectivity of Biocontrol in The Arabica Coffee Landscape
144	Waluyo Eko Cahyono, Prawira Yudha Kombara, Emmanuel Adetya and Wilin Julian Sari	Simulation and Evaluation of PM _{2.5} in the City of Palangkaraya Using the Model WRF-Chem
145	Putri Nilam Sari, Nofriya Nofriya and Alberth Christian Nahas	Investigation of air pollution during the COVID-19 pandemic in Padang City: correlation of specific pollutants with daily case and the effect of social restrictions
146	Erti Nurfindarti and Nugrahana Fitria Ruhjana	Determination of Stunting Priority Locations and Regional-based Stunting Management Strategies in Serang City
147	Lesi Mareta, Alfiah Rizky Diana Putri and Ridlo Wahyudi Wibowo	Correlation of forest and land fires in Sumatra to natural and anthropogenic forcing using CMIP5 Data
148	Muhammad Hanif, Adrin Tohari and Dadan Dani Wardhana	Palu Koro Fault zone subsurface model from microtremor method and its relation to potential hazard
149	Bayu Nugraha and Nadhilah Humairah Salwa Salsabil	Mass Wasting Affected Area Mapping Based on Relative Difference of Normalized Difference Vegetation Index Using Google Earth Engine in Nusa Tenggara Timur (Case Study: Tropical Cyclone Seroja, 3 April 2021)
150	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
151	Rizki Atthoriq Hidayat, Muhammad Hanif, Giant Amor and Hafizurrahman H	Utilization Of VIIRS Imagery in Analyzing Light Pollution as The Threat Towards Bird Performance in The Region Of Medan, North Sumatra, Indonesia
152	Neflia Neflia	The characteristics of Solar Flare and CMEs that caused SPE during solar cycle 24
153	<u>Farahhati Mumtahana and Taufiq Hidayat</u>	Continuum Study on Uranus at the Millimeter/submillimeter Wavelength with ALMA Data
154	Immanuel Jhonson Arizona Saragih, Wiliam Wiliam and Imma Redha Nugraheni	Examining the Characteristics and Dynamics of Quasi-Linear Convective System (QLCS) using weather radar data and numerical weather model in North Sumatra region
155	Kharisma Aprilina, Ardhasena Sopaheluwakan, Armi Susandi, Hastuadi Harsa, Utoyo Ajie Linarka and Rian Anggraeni	The Relationship between Climate Variables and Rice Productivity from the Aquacrop Simulation in the Clustering Area from the Results of the k-means method in Java Island, Indonesia
156	Giant Amor Amor and Rizki Atthoriq Hidayat Thoriq	Spatial Modeling of Flooding Due to Tides Against Residential Areas in Coastal Areas of Bengkalis Island

157	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
158	Dyah Rahayu Martiningrum, Prayitno Abadi, Anwar Santoso and Mamoru Yamamoto	Morphological of E-F Region Field Aligned Irregularities in Low Latitude
159	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
160	Fadilla Monica, Deasy Arisa, Marzuki Marzuki and Vira Friska	Deformation Analysis During The Pre-, Co- And Post-Seismic Phase Associated With The 2019 Mw6.0 Mentawai Earthquake Using Satellite Geodetic Technology from Sumatran Gps Array (SuGAR) Data
161	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
162	Ranie Dwi Anugrah and Stevani Anggina	Tsunami Impact Assessment for Coastal City in Cilacap, Indonesia: A Geospatial Approach
163	<u>Anwar Santoso and Dyah Rahayu Martiningrum</u>	Estimation of Geomagnetic Storm of Solar Cycle 24 Based On Solar Wind and Magnetic Field Parameters
164	Agusriandi Agusriandi and Hikmahwati Hikmahwati	The Sustainable Digital-Farming Framework using an interdisciplinary approach
165	<u>Eddy Hermawan, Tyo Maulana and Rahmat Gernowo</u>	Effects of El-Nino and La-Nina on the Velocity Potential at 200 hPa over Maritime Continent
166	Fitrah Amelia, Ramses Ramses and Ismarti Ismarti	Reduction of copper and lead metal content in gonggong snails using lime
167	Nourma Al Viandari, Anicentus Wihardjaka, Heru Bagus Pulunggono and Suwardi	Increasing Rice Yield by Soil Tillage System and Water Management
168	Teguh Harjana, Anis Purwaningsih, Trismidianto, Wendi Harjupa, Fadli Nauval, Dita Fatria Andarini, Elfira Saufina, Arief Suryantoro and Eddy Hermawan	The relation between ENSO and IOD with the rainfall events over Indonesian Maritime Continent based on TRMM precipitation data
169	Ilham Fajar Putra Perdana and Niken Astrid Septyar	Trend analysis of precipitation and temperature at annual and seasonal time scale over Semarang of Central Java
170	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 Himawri-8 data using machine learning techniques
171	Ilham Fajar Perdana	Quasi-Linier Convective System (QLCS) Characteristics in Jakarta, West Java and Banten during 2018
172	Bony Septian Pandjaitan	Investigation of Atmospheric Reanalysis Convective Parameters and Overshooting Cloud Top in Hail Events Over Java Island
173	Retno Leodita Lubis, Juniarti, Saftia Laila Rajmi, Aldi Nanda Armer, Novika Yulanda, Fakhrijal	Assessment of the Geochemical Weathering Indices of Volcanic Soil After The Eruption From Mount Sinabung in 2020

	Rizki Hidayat, Hazi Zulhakim, Ichsan Faishal Syukri, Frisa Irawan Ginting and Dian Fiantis	
174	Saftia Laila Rajmi, Gusnidar, Retno Leodita Lubis, Frisa Irawan Ginting, Fakhrijal Rizki Hidayat, Aldi Nanda Armer, Hazi Zulhakim, Novika Yulanda, Ichsan Faisal Syukri and Dian Fiantis	The Geochemical Properties of Volcanic Materials: After a Year Mt. Sinabung Eruption
175	Nur Indah Kartika Sani, Gusnidar, Frisa Irawan Ginting, Ahmad Yasir, Ahmad Fanani and Dian Fiantis	Evaluation Of Land Suitability For Orange Plants (Citrus Sinensis L.) Post Eruption Of Mount Sinabung, Karo District, North Sumatera
176	Muhammad Hanif and Lina Handayani	2D and 3D subsurface model of Baribis Fault zone in West Java
177	Fenita Purnama Sari Indah	Effect of Community-Based Total Sanitation Program with Diarrhea Incidents In Children Under Five
178	Intan Perwitasari and Stevani Anggina	Risk Management Of Spaceport in Indonesia: Vulnerability Level Of Spaceport Biak
179	Ryosuke Tamura, Koji Nishimura and Hiroyuki Hashiguchi	The inversion algorithm of atmospheric radar signal given by a 3-dimensional volume scattering semi-physical simulation

Frequently Asked Questions

What is the meeting format?

The meeting is fully online and will use the zoom application platform.

The organizing committee will inform the zoom link including ID and password by **16 September 2021**.

Day-1 20 September 2021

AM – ceremonial of EAR 20th Anniversary

PM – international symposium

Day-2 21 September 2021

AM – international symposium in the zoom breakout room

PM – international symposium in the zoom breakout room

Who will attend the meeting?

The organizing committees, the ceremonial invited speakers, the keynote scientific speakers, the invited scientific speakers, and the invited journalists.

The participants who already submitted abstract and the registered regular participants.

What is the international symposium format?

The international symposium is only in oral session. All participants are requested to present their research in oral (real time presentation via zoom apps).

What is the time duration for each presenters?

30 minutes for keynote scientific speakers

20 minutes for invited scientific speakers including discussion

10 minutes for oral participants. The discussion will be managed by the moderator for Question and Answer session.

What about the presentation file?

All keynote and invited scientific speakers should send their presentation file in PDF to increase@lapan.go.id by **16 September 2021**.

All oral participants are requested to upload their presentation file with maximum 10 slides in PDF to Easychair by **10 September 2021**.

How about the presentation template?

There is no specific presentation template. However, the participants should concern that the presentation time is only 10 minutes sharp.

What about the information that ask participants to submit a presentation video?

The participants are requested to submit a presentation video on YouTube by **10 September 2021**. The video will be used in case of any technical problem during the symposium.

Is the presentation video mandatory?

Due to the time schedule is very tight, especially on Day-2, it is better to submit presentation video to anticipate any technical problem on the presenter side (internet connection, zoom apps, electricity or device problem, etc.).

If the participant is confident on the real time presentation without technical problem, then no need to submit presentation video. However, the participant has to inform to the organizing committee by email and upload a presentation file in PDF to Easychair by **10 September 2021**.

What about the requested full manuscript?

If any participant wish to proceed to the publication process, the deadline for submitting your full paper is **20 September 2021 at 23.59 UTC** or **21 September 2021 at 06.59 WIB** (Local Western Indonesia Time).

How about the full manuscript format?

Please refer to the following link

https://bit.ly/increase_latex and https://bit.ly/increase_msword