

## Donaldi Sukma Permana, PhD

### Current Office Address

Global Atmosphere Watch (GAW) Station Lore Lindu Bariri - Palu  
Indonesian Agency for Meteorology Climatology and Geophysics (BMKG)  
Komplek Bandara Mutiara Sis Al-Jufri Palu  
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### Previous Office Address

Center for Research and Development  
Indonesian Agency for Meteorology Climatology and Geophysics (BMKG)  
BMKG Building A. Floor.8  
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### Personal Identification:

Born 8 September 1981, Depok, Indonesia

Scopus ID: 57170445700

ORCID ID: 0000-0001-5674-9238

Google Scholar: <https://scholar.google.co.id/citations?user=y8p9hv8AAAAJ&hl=en>

Researchgate: [https://www.researchgate.net/profile/Donaldi\\_Permana](https://www.researchgate.net/profile/Donaldi_Permana)

Academia: <https://bmgk.academia.edu/DonaldiPermana>

### Education:

- 09/2012 – 12/2015    Doctoral degree in Geology (Paleoclimatology), Byrd Polar and Climate Research Center - School of Earth Sciences, The Ohio State University, Ohio, USA  
Dissertation Title: "Reconstruction Tropical Pacific Climate Variability from Papua Ice Cores, Indonesia" (Advisor: Prof. Lonnie G. Thompson)
- 09/2009 – 08/2011    Master degree in Geology (Paleoclimatology), Byrd Polar and Climate Research Center - School of Earth Sciences, The Ohio State University, Ohio, USA  
Thesis Title: "Climate, Precipitation Isotopic Composition and Tropical Ice Core Analysis of Papua, Indonesia" (Advisor: Prof. Lonnie G. Thompson)
- 09/1999 – 02/2003    Bachelor degree in Mathematics, School of Mathematics and Natural Sciences, University of Indonesia, Depok, Indonesia.  
Thesis Title: "Security of Advanced Encryption Standard (AES): Rijndael Algorithm upon Linear and Differential Cryptanalysis" (Advisor: Dr. Deni R. Silaban)

### Working Experiences:

- 01/2019 – Now        Head of Global Atmosphere Watch (GAW) Station Lore Lindu Bariri - BMKG, Palu, Indonesia
- 04/2006 – 12/2018    Researcher at Center for Research and Development - BMKG, Jakarta, Indonesia

- 09/2014 – 12/2015 Graduate Teaching Associate (PhD Candidate) at School of Earth Sciences, The Ohio State University, Ohio, USA.
- 09/2012 – 08/2014 Graduate Research Associate (PhD) at Byrd Polar Research Center - School of Earth Sciences, The Ohio State University, Ohio, USA.
- 09/2009 – 08/2011 Graduate Research Associate (Master) at Byrd Polar Research Center - School of Earth Sciences, The Ohio State University, Ohio, USA. Research Assistanship was conducted under a NSF funded project entitled: “Collaborative Research: P2C2 – Reconstructing Tropical Pacific Climate Variability and Monsoon Systems, and Abrupt Changes from ice cores on Irian Jaya, Indonesia and Hualcán, Peru”.
- 07/2003 – 03/2006 Programmer at Imagine Software Company, Jakarta, Indonesia

### **Field Works:**

- 10/2018 Field expedition: stake measurement and flyover in Papua ice field, Indonesia by R&D Center of BMKG and Environment Department of PT. Freeport Indonesia. Media coverage by CNN Indonesia and Trans7. Team leader: Dr. Erwin Makmur
- 11/2016 Field expedition: stake measurement in Papua ice field, Indonesia by R&D Center of BMKG and Environment Department of PT. Freeport Indonesia. Team leader: Donaldi Permana, Ph.D
- 08/2014 Field expedition: stake measurement in Papua ice field, Indonesia with Ice Core Paleoclimatology Group of Byrd Polar Research Center, The Ohio State University (uncomplete due to bad weather). Team leader: Prof. Lonnie G. Thompson
- 05 – 06/2010 Field expedition: ice core drilling and rain water sampling in Papua’s East Northwall Firn, Indonesia with Ice Core Paleoclimatology Group of Byrd Polar Research Center, The Ohio State University. Team leader: Prof. Lonnie G. Thompson

### **Teaching Experiences:**

- 10/2017 – 02/2018 Instructor for Computer Programming (FORTRAN) course in Climatology Program, Academy for Meteorology Climatology and Geophysics (STMKG), Tangerang Selatan, Banten, Indonesia
- 04 – 08/2017 Instructor for Computer Programming (FORTRAN) course in Meteorology Program, Academy for Meteorology Climatology and Geophysics (STMKG), Tangerang Selatan, Banten, Indonesia
- 06 – 08/2015 Graduate Teaching Assistant (Lab Instructor) Summer 2015 for Earth Science 1100 “Planet Earth: How It Works” in the School of Earth Sciences, The Ohio State University, Ohio, USA
- 06 – 08/2015 Graduate Teaching Assistant (Lab Instructor) Summer 2015 for Earth Science 1100 “Planet Earth: How It Works” in the School of Earth Sciences, The Ohio State University, Ohio, USA
- 01 – 05/2015 Graduate Teaching Assistant (Lab Instructor) Spring 2015 for Earth Science 1100 “Planet Earth: How It Works” in the School of Earth Sciences, The Ohio State University, Ohio, USA
- 09 – 12/2014 Graduate Teaching Assistant (Grader) Autumn 2014 for Earth Science 5206 “Advanced Oceanography” in the School of Earth Sciences, The Ohio State University, Ohio, USA
- 09 – 12/2014 Graduate Teaching Assistant (Grader) Autumn 2014 for Earth Science 2206 “Principle of Oceanography” in the School of Earth Sciences, The Ohio State University, Ohio, USA

09 – 12/2014	Graduate Teaching Assistant (Lab Instructor) Autumn 2014 for Earth Science 1100 “Planet Earth: How It Works” in the School of Earth Sciences, The Ohio State University, Ohio, USA
2001 – 2003	Teaching Assistant at Computer Lab in Mathematics Program, School of Mathematics and Natural Sciences, University of Indonesia, Depok, Indonesia
2001 – 2003	Teaching Assistant for subject of Elementary Linear Algebra in School of Techniques, University of Indonesia, Depok, Indonesia

### Relevant Publications and Presentations:

#### International Abstracts / Presentations/ Publications:

- **Permana, D.S.**, et al. **2019**. "Ice Core-Derived Climate Reconstruction from Tropical Papua Glaciers, Indonesia and Recent Retreat" (oral). PAGES PaleoENSO Workshop August 25 – 30, 2019, Belitung, Indonesia
- **Permana, D.S.**, Makmur E.E.S., Hutapea, T.D., Paski, J.A.I., Ardiansyah, D., and Praja, A.S. **2019**. "Observed Interaction of MJO and Diurnal Cycle using Weather Radar in Bengkulu" (oral). In Theory, Observations and Modelling of Maritime Continent Weather and Climate, AOGS 16<sup>th</sup> Annual Meeting, July 28 – August 02, 2019, Singapore
- **Permana, D. S.**, T. D. Hutapea, J. A. I. Paski, A. S. Praja, H. Harsa, D. E. Nuryanto, R. Kurniawan, E. E. S. Makmur, and D. Ardiansyah. **2019**. Interaction of MJO and diurnal cycle observed by radiosonde data during the first YMC campaign in Bengkulu (November 2017-January 2018). In *IOP Conference Series: Earth and Environmental Science* (Vol. 303, no. 1, p. 012058). IOP Publishing. DOI: 10.1088/1755-1315/303/1/012058
- **Permana, D. S.**, T. D. Hutapea, A. S. Praja, J. A. I. Paski, E. E. S. Makmur, U. Haryoko, I. H. Umam, M. Saepudin, and R. Adriyanto. **2019**. The Indonesia In-House Radar Integration System (InaRAISE) of Indonesian Agency for Meteorology Climatology and Geophysics (BMKG): Development, Constraint, and Progress. In *IOP Conference Series: Earth and Environmental Science* (Vol. 303, no. 1, p. 012051). IOP Publishing. DOI: 10.1088/1755-1315/303/1/012051
- Irwandi, I., Ilhamsyah, Y., **Permana, D. S.**, Haloho, M. P., Prasetyo, B., and Dana, I. N. **2019**. Application of C-band Doppler Weather Radar (CDR) for Detecting Volcanic Ash Dispersion of Sinabung Eruption 19 February 2018. In *IOP Conference Series: Earth and Environmental Science* (Vol. 273, No. 1, p. 012019). IOP Publishing. DOI: 10.1088/1755-1315/273/1/012019
- Thompson, L. G., Mosley-Thompson, E., Davis, M. E., and **Permana, D. S.** **2018**. “Rapidly Retreating Tropical Glaciers: Present and Future Societal Impacts”. In The Global Warming: Accelerating Rates of Change Forewarn of Catastrophic Impacts I, GSA Annual Meeting, November 4-7, 2018, Indianapolis, Indiana, USA
- Paski, J.A.I. and **Permana, D.S.**, **2018**. Using the C-band Doppler weather radar data to reconstruct extreme rainfall event on 11th march 2018 in Bangka Island, Indonesia. In *MATEC Web of Conferences* (Vol. 229, p. 04013). EDP Sciences. DOI: 10.1051/mateconf/201822904013
- **Permana, D.S.**, Wandala, A., Paski, J.A.I., Hutapea, T.D., Muzayanah, L.F., Sakya, A.E., Makmur E.E.S., and Haryoko, U. **2017**. "Observed interaction of MJO and Diurnal Rainfall Cycle based on a Weather Radar Observation in East Java" (poster). In The Madden-Julian Oscillation: Observations, Theoretical Understanding, Modeling, and Prediction III Posters, AGU Meeting, December 12, 2017, New Orleans, Louisiana, USA
- Satyaningsih, R., Sopaheluwakan, A., Kadarsah., Rizal, J., Harapan, F.A., Heriyanto, E., **Permana, D.S.**, Nuraini, T.A., and Linarka, U.A. **2017**. “Measurements of solar irradiance, surface temperature, and relative humidity during the total solar eclipse over

- Indonesia on 9<sup>th</sup> March 2016". In Geophysical Research Abstract. Vol. 19, EGU2017-3107. EGU General Assembly, April 23-28, 2017, Vienna, Austria.
- **Permana, D. S.**, Sakya, A.E, Makmur, E.E.S, Handayani, A.S, Hanggoro, W and Setyadi, G. **2016**. "Identification of MJO signal on various elevation station in southern Papua, Indonesia" (poster). In The Atmosphere, Ocean, Their Interaction, and Marine Ecosystem Responses within the Maritime Continent II Posters, AGU Meeting, December 13, 2016, San Francisco, California, USA
  - Muzayanah, L. F., **Permana, D. S.**, Praja, A. S., and Wulandari, E, S, P. **2016**. "Extreme rainfall analysis using radar-based rainfall estimates, ground observation and model simulation in West Sumatra (Case Study: Padang floods on June 16, 2016)", In Proceedings of International Symposium on the 15th Anniversary of the Equatorial Atmosphere Radar (EAR), Jakarta, 4 August 2016.
  - **Permana, D.S**, Thompson, L.G and Setyadi, G. **2016**. "Tropical west Pacific moisture dynamics and climate controls on rainfall isotopic ratios in southern Papua, Indonesia". J. Geophys. Res. Atmos., 121, doi:10.1002/2015JD023893
  - **Permana, D.S.** **2016**. "Identification of MJO signal on various elevation station rainfall in southern Papua, Indonesia" in Workshop on Intraseasonal Processes and Prediction in the Maritime Continent, April 11 – 13, 2016, Singapore.
  - **Permana, D.S** and Thompson, L.G. **2015**. "1-year of tropical rainfall stable isotope analyses from the southern slope of the central mountain ranges in Papua, Indonesia" in the Division of Water, Climate, and the Environment's Mini Symposium, April 17, 2015, School of Earth Sciences, The Ohio State University, Columbus, Ohio, USA
  - Thompson, L.G, **Permana, D.S**, Mosley-Thompson, E and Davis, M.E (presenter, Thompson, L.G). **2014**. "Climatic Teleconnections Recorded by Tropical Mountain Glaciers". In Climate Change in Mountains: Elevational Dependency and Diverse Impacts 1, AGU Meeting, December 16, 2014, San Francisco, California, USA
  - **Permana, D.S.** **2014**. "Climate Change in Indonesia: Evidence, Impact and Projection" in the 6<sup>th</sup> Indonesia Focus Conference, November 7-8, 2014, The Ohio State University, Columbus, Ohio, USA.
  - **Permana, D.S.** **2014**. "Climate Change Impact in Indonesia: Glacier Recession on Ice Field near Puncak Jaya, Papua" in the 12<sup>th</sup> Northeast Conference on Indonesia, October 25, 2014, Cornell University, Ithaca, New York, USA.
  - **Permana, D.S.** **2011**. "Tropical Ice Core Analysis of Papua Indonesia and Its Comparison with Other Tropical Ice Cores" in the International Symposium on Climate Change in Indonesia: Past. Present and Future, November 22-23 2011, Jakarta, Indonesia.
  - **Permana, D.S.** **2009**. "Comparisons between Conformal-Cubic Atmospheric Model (CCAM) and Global Forecast System (GFS): Global Model Output over Indonesia in September-October-November (SON) 2008" in the Second International Workshop on Prevention and Mitigation of Meteorological Disasters in Southeast Asia, March 5 2009, Bandung, Indonesia.

#### National publications:

- Paski, J. A. I., **Permana, D. S.**, Hastuti, M. I., & Sudewi, R. S. S. (2019). Dampak Asimilasi Data Radar Produk Cappi pada Prediksi Kejadian Hujan Lebat di Jabodetabek Menggunakan Model WRF-3DVAR. *Jurnal Meteorologi dan Geofisika*, 20(1), 47-54.
- Lisnawati., Makmur E.E.S., and **Permana, D. S.**, (2017). Profil lapse rate vertikal di wilayah Indonesia, *Jurnal Meteorologi dan Geofisika*, 18(2), 95-106, BMKG, Jakarta ISSN: 1411-3082 (in Indonesian)
- Paski, J.A.I., **Permana, D. S.**, Sepriando, A., and Pertiwi, D. A. S. (2017). Analisis dinamika atmosfer kejadian hujan es memanfaatkan citra rada dan satelit Himawari-8 (studi kasus: tanggal 3 Mei 2017 di kota Bandung), *Prosiding Seminar Nasional Penginderaan Jauh ke-4*, LAPAN (in Indonesian)

- **Permana, D. S.**, Sasmito, A., Praja, A. S., Kurniawan, R., Sudewi, R. S. S., and Hanggoro, W. (2017). Analisis hujan ekstrim menggunakan data satelit Himawari-8 dan radar cuaca di wilayah Bandung tanggal 24 Oktober 2016, *Prosiding Seminar Nasional Sains Atmosfer (SNSA)*, Pusat Sains dan Teknologi Atmosfer (PSTA), LAPAN, 26 April 2017, Bandung, Indonesia (in Indonesian)
- Sasmito, A., Sunardi, B., Praja, A. S., **Permana, D. S.**, Fatkhuroyan., and Muzayanah, L. F. (2017). Pengaruh kejadian meteorologi dan geofisika di sekitar Jawa Barat terhadap pergeseran jembatan Cisomang KM 100, *Prosiding Seminar Nasional Sains Atmosfer (SNSA)*, Pusat Sains dan Teknologi Atmosfer (PSTA), LAPAN, 26 April 2017, Bandung, Indonesia (in Indonesian)
- Habibie, M, N., Hanggoro, W., **Permana, D. S.**, and Kurniawan, R., (2016). Verifikasi tinggi gelombang WaveWatch-III menggunakan data satelit altimetry dan observasi, *Jurnal Meteorologi dan Geofisika*, 17(3), 207-214, BMKG, Jakarta ISSN: 1411-3082 (in Indonesian)
- **Permana, D. S.**, Hutapea, T. D. F, Praja, A. S, Fatkhuroyan, F, Muzayanah, L. F., (2016). Pengolahan multi data format radar cuaca menggunakan *wradlib* berbasis *python*, *Jurnal Meteorologi dan Geofisika*, 17(3), 157-164, BMKG, Jakarta ISSN: 1411-3082 (in Indonesian)
- Kurniawan, R., **Permana, D. S.**, Suratno and Habibie, M, N., (2013). Verifikasi luaran model gelombang Windwaves-05 dengan satelit altimeter, *Jurnal Meteorologi dan Geofisika*, 14(3), 149-158, BMKG, Jakarta ISSN: 1411-3082 (in Indonesian)
- Habibie, M, N., **Permana, D. S.**, and Suratno., (2013). Simulasi gelombang ekstrim akibat swell di Indonesia menggunakan model Wavewatch-III, *Jurnal Meteorologi dan Geofisika*, 14(2), 99-108, BMKG, Jakarta ISSN: 1411-3082 (in Indonesian)
- Habibie, M, N., and **Permana, D. S.** (2013). Gelombang Ekstrim dan Tantangan Penanggulangannya di Indonesia, *Majalah Geo Resonansi Edisi 2 Oktober 2013*. 27-28 (In Indonesian).
- Kurniawan, R., Habibie, M, N., and **Permana, D. S.** (2012). Kajian daerah rawan gelombang tinggi di perairan Indonesia, *Jurnal Meteorologi dan Geofisika*, 13(3), 201-212, BMKG, Jakarta ISSN: 1411-3082 (in Indonesian)
- **Permana, D. S.** (2011). Analisis data meteorologi dari pemantau cuaca otomatis berbagai elevasi dan data radiosonde di Papua, *Jurnal Meteorologi dan Geofisika*, 12(2), 151-162, BMKG, Jakarta ISSN: 1411-3082 (in Indonesian)
- **Permana, D. S.** (2010). Perbandingan luaran model global atmosfer CCAM dan GFS di wilayah Indonesia dan sekitarnya, *Jurnal Widyariset*, 13(3), , LIPI Press, Jakarta ISSN: 1411-7932 (in Indonesian)
- Kurniawan, R., **Permana, D. S.**, Anggraeni, R., and Kumalawati, K.E. (2010). Perbandingan hasil luaran model prakiraan conformal cubic atmospheric model (CCAM) terhadap ARPEGE dan TLAPS, *Jurnal Meteorologi dan Geofisika*, 11(1), 20-31, BMKG, Jakarta ISSN: 1411-308 (in Indonesian)
- Kurniawan, R., and **Permana, D. S.** (2009). Pemanfaatan dan Validasi Conformal-Cubic Atmospheric Model (CCAM) untuk prakiraan cuaca di Jakarta, *Jurnal Meteorologi dan Geofisika*, 10(2), 86-94, BMKG, Jakarta ISSN: 1411-3082 (in Indonesian)

#### Languages:

- English (fluent)
- Indonesian (mother language)

#### Peer-review Journal Reviewer:

- Journal of Geophysical Research: Atmosphere (2016, 2017, 2019)
- Asia-Pacific Journal of Atmospheric Sciences (2018)
- Forum Geografi (2016 - 2017)
- Jurnal Meteorologi dan Geofisika (2016 - 2019)

- Jurnal Sains & Teknologi Modifikasi Cuaca (2017 - 2018)

### **Appointments:**

- Member of American Geophysical Union (2015 - now)
- Member of Himpunan Ahli Geofisika Indonesia (2018 - now)
- Member of Western Pacific Task Team, Tropical Pacific Observing System (TPOS) 2010. <http://tpos2020.org/task-teams/western-pacific-task-team/> (2016 – now)
- Member of the World Meteorological Organization (WMO) Commission for Climatology (CCL) ad-hoc Weather and Climate Regional Extremes Committee (2018 - now)
- Member of the WMO Working Group on Numerical Experiment (WGNE) – Madden Julian Oscillation (MJO) Task Force. <http://wgne.meteoinfo.ru/activities/on-going-activities/wgne-mjo-task-force/> (2018 - now)

### **Achievements:**

- 2018: Selected as a participant in the Young Scientist Support Program (YSSP) 2018 at APEC Climate Center (APCC) 16 July - 21 September, Busan, South Korea (Counterpart: Dr. Jaepil Cho)
- 2016: Received “SATYALANCANA KARYA SATYA”, a 10-year service award as a government employee given by the President of Republic of Indonesia.
- 2014: Received Graduate Teaching Assistantship (GTA) as Ph.D. Candidate from School of Earth Sciences, The Ohio State University, USA (Advisor: Prof. Lonnie G. Thompson)
- 2012: Received Graduate Research Assistantship (GRA) as Ph.D. Student from Byrd Polar Research Center - School of Earth Sciences, The Ohio State University, USA (Advisor: Prof. Lonnie G. Thompson)
- 2009: Received Graduate Research Assistantship (GRA) as Master Student from Byrd Polar Research Center - School of Earth Sciences, The Ohio State University, USA (Advisor: Prof. Lonnie G. Thompson)
- 2001: Received Scholarship from ICAC (International Community and Activity Center), Jakarta, Indonesia
- 1999: Received Scholarship from BMU (Beasiswa Mengikuti UMPTN), Jakarta, Indonesia

### **Invited Speakers in Training Courses / Workshops / Meetings / Lectures:**

- 2019: Kuliah Umum tentang Perubahan Iklim (Public Lecture on Climate Change) in Agriculture Department, Tadulako University, Palu, Central Sulawesi, Indonesia 22 August 2019
- 2019: Talkshow tentang Gletset Puncak Jaya dan Tempat Terbasah di Dunia (Talk show on Puncak Jaya Glacier and Wettest Place on Earth), Tembagapura, Papua, Indonesia 27 July 2019
- 2019: Seminar Ilmiah Model Prakiraan Cuaca Numerik (Numerical Weather Prediction Workshop), Jakarta, Indonesia 01 April 2019

### **Attending Training Courses / Workshops / Meetings:**

- 2019: PaleoENSO Workshop, Belitung, Indonesia, 25 - 30 August 2019
- 2019: Asia Oceania Geosciences Society (AOGS) 16<sup>th</sup> Annual Meeting, Singapore 28 July - 02 August 2019
- 2019: The WGNE MJO Task Force Meeting, Singapore 31 July 2019 (Team Member)
- 2018: The 4<sup>th</sup> Bilateral Meeting between KMA and BMKG, Seoul, Republic of Korea 28-31 August 2018 (Delegation)
- 2018: The 2018 APCC Subseasonal to Seasonal (S2S) Training Program, Busan, Republic of Korea 23-28 July 2018
- 2018: The 1<sup>st</sup> Weather and Climate Science for Service Partnership (WCSSP) Southeast Asia Regional Workshop, Jakarta, Indonesia 21-22 June 2018

- 2018: The Ninth ICTP Workshop on the theory and use of regional climate models, Trieste, Italy 28 May – 08 June 2018
- 2018: Diklat Peneliti Lanjutan (Advanced Researcher Training Program), Cibinong, Indonesia 18-27 March 2018
- 2017: Training Marine Remote Sensing Application, Jakarta, Indonesia 24-28 July and 14-16 August 2017
- 2017: Global Cryosphere Watch (GCW) Tropical Cryosphere Workshop, Arusha, Tanzania 4-6 July 2017 (Delegation)
- 2017: The Years of Maritime Continent (YMC) 3<sup>rd</sup> Workshop, Bangi, Selangor, Malaysia 13-16 March 2017 (Delegation)
- 2017: WCRP-JNU Training School on Monsoon Variability in Changing Climate, Jeju Island, Republic of Korea 16-21 January 2017
- 2016: The APCC Statistical Downscaling Training Program, Busan, Republic of Korea 22-27 August 2016
- 2016: International Symposium on 15<sup>th</sup> Anniversary of the Equatorial Atmosphere Radar (EAR), Jakarta, Indonesia 4 August 2016
- 2016: Workshop on Intraseasonal Processes and Prediction in the Maritime Continent, Singapore, 11 – 13 April, 2016
- 2015: The Quaternary Geoscience Conference by University of Cincinnati, at Cincinnati, Ohio, USA
- 2014: Workshop on Understanding Climate Change Risks and Identifying Opportunities for Mitigation and Adaptation in Ohio by Byrd Polar and Climate Research Center, Ohio State University at Columbus, Ohio, USA
- 2009: The Second International Workshop on Prevention and Mitigation of Meteorological Disasters in Southeast Asia by JST, Japan and ITB, Indonesia at Bandung, Indonesia
- 2009: Climate Field School (CFS) and Validation of ASEAN Regional Climate Model by BMKG at Surabaya, Indonesia
- 2009: Second National Monsoon Forum by ADPC and BMKG at Jakarta, Indonesia
- 2008: Training on ALS450 LIDAR SYSTEMS and the WINDCUBE LIDAR SYSTEMS by LEOSPHERE, France and BMG at Jakarta, Indonesia
- 2008: The Second Workshop on ASEAN Regional Climate Model Validation by BMG at Yogyakarta, Indonesia
- 2008: 30<sup>th</sup> Meeting of the ASEAN Sub-Committee on Meteorology and Geophysics by ASEAN at Singapore, Singapore
- 2008: Training on Weather & Climate Modeling Based on CCAM (Conformal-Cubic Atmospheric Model) by CSIRO, Australia and BMG at Jakarta, Indonesia
- 2007: Training Workshop on ASEAN Climate Field School (CFS) and Validation of ASEAN Regional Climate Model by BMG at Indramayu, Indonesia
- 2007: Training Course on “Tropical Cyclone” by BMG at Jakarta, Indonesia
- 2006: Special Lecture on Indian Ocean Dipole Mode (IODM) by Dr. Saji Njarackalazhikam Hameed (Senior Research Scientist Climate Information Services, APEC Climate Center Korea) at Jakarta, Indonesia
- 2006: International Workshop on Integration of Geophysical Parameter as a Set of Large Earthquake Precursors by BMG at Jakarta, Indonesia
- 2006: International Workshop on Agro meteorology Climate Forecast Application for Sustainable Agricultural Production and Risk Reduction Strategies by BMG at Jakarta, Indonesia
- 2006: ASEAN-ROK Cooperation Training Workshop for the Use of Numerical Weather Prediction Products by KMA-Republic of Korea and ASEAN at Seoul, Republic of Korea
- 2006: The Tropical Cyclone Training by BMG and BoM, Australia at Kupang, Indonesia
- 2006: Training Course on “Pemodelan Atmosfer MM5 Cluster (MM5MPP) dan GrADS” by BMG at Jakarta, Indonesia
- 2006: Training Course on “The Air Pollution Model” by BMG at Jakarta-Indonesia

- 2006: Training Course on “Downscaling Model” by BMG at Depok, Indonesia  
2006: Training Course on “Regional Modeling” by BMG at Depok, Indonesia  
2006: Training Course on “Teknik Prediksi MATLAB” by BMG at Depok, Indonesia

### **Media Coverage:**

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2010

- <https://sains.kompas.com/read/2010/06/08/04221957/Mencari.Bukti.Emisi.Karbon>
- <https://www.cresis.ku.edu/content/news/newsletter/1028>

2011

- [https://www.fs.fed.us/psw/cirmount/publications/pdf/Mtn\\_Views\\_nov\\_11.pdf](https://www.fs.fed.us/psw/cirmount/publications/pdf/Mtn_Views_nov_11.pdf)
- <https://sains.kompas.com/read/2011/10/12/02354856/2024.es.puncak.jaya.diperkirakan.hilang>
- <https://sains.kompas.com/read/2011/10/13/16393028/Sebelum.Puncak.Es.Mencair.Perlu.Penelitian>

2012

- <https://www.youtube.com/watch?v=w1iv2Ft2ClQ>

2013

- <http://arsip.gatra.com/2013-07-15/majalah/artikel.php?pil=23&id=154602>

2014

- <https://www.youtube.com/watch?v=a10eUuggYp4>

2015

- <https://nasional.tempo.co/read/709207/bmkg-akan-lakukan-ekspedisi-ke-antartika-dan-puncak-jaya>
- <https://kaltim.tribunnews.com/2015/03/11/salju-di-puncak-jaya-papua-ungkap-perubahan-iklim-global>
- <https://www.kompasiana.com/ririnbmkg/5642acb93cafb4a05d2215b/ketebalan-es-menyusut-526-m>

2017

- <https://www.republika.co.id/berita/nasional/daerah/17/06/09/or9c97384-es-puncak-jaya-wijaya-menyusut-426-meter-sejak-mei-2016>
- <https://www.dream.co.id/news/es-abadi-puncak-jayawijaya-habis-pada-2025-1706096.html>
- <https://news.detik.com/berita/d-3388887/bmkg-khawatirkan-puncak-es-di-gunung-jayawijaya-meleleh-tahun-2020>
- <https://news.detik.com/video/170817004/salju-abadi-di-pegunungan-jaya-wijaya-terdampak-pemanasan-global>
- <https://20.detik.com/detikflash/20170817-170817004/salju-abadi-di-pegunungan-jaya-wijaya-terdampak-pemanasan-global>
- <http://mediaindonesia.com/read/detail/120489-salju-papua-di-ujung-usia>
- <https://www.youtube.com/watch?v=X7FkLWvGSHw&feature=youtu.be>

2018

- <http://arsip.gatra.com/1770-04-16/majalah/artikel.php?pil=23&id=163731>
- <https://www.youtube.com/watch?v=P7e3FFg4GGU&t=4s>
- <https://www.youtube.com/watch?v=xj9gKzu5sbk&t=1360s>
- <https://www.youtube.com/watch?v=G1quCO2-704&t=145s>
- <https://www.youtube.com/watch?v=k3OX6Sy3AIE&t=40s>
- <https://www.bmkg.go.id/berita/?p=tempat-terbasah-di-dunia-ada-di-indonesia&lang=ID&>tag=klimatologi>
- [https://www.youtube.com/watch?v=M4RLZxPc\\_H8&feature=youtu.be](https://www.youtube.com/watch?v=M4RLZxPc_H8&feature=youtu.be)

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