

CURICULUM VITAE

Name : **Prof. Dr. Edvin Aldrian, B. Eng., MSc.**

Place/ date of birth : **Jakarta, 2 August 1969**

Office address : **Badan Meteorologi Klimatologi dan Geofisika
Agency for Meteorology Climatology and Geophysics**
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Position : **Director of Center for Research and Development, BMKG**

Basic Education Background :

SD : Grade 1-2 : 1976-1978 SD KATOLIK KUITANG VI, Jakarta
Grade 3-5 : 1978-1981 SD XAVERIUS II, Palembang
Grade 6 : 1981-1982 SD St Maria, Cirebon
SMP : Grade 7-9 : 1982-1985 SMP St Maria, Cirebon
SMA : Grade 10-12 : 1985-1988 SMAN 34 Jakarta

Higher Education Background :

- **1988 July – 1988 October:** Dept. of Eng. Physics, Bandung Institute of Technology, NIM 7488011
- **1989 September – 1990 April:** First year Bachelor degree, Univ. of Manitoba, Winnipeg, Canada.
- **1990 April – 1993 October:** Finishing Bachelor degree on Dept. of Eng. Physics, McMaster University, Canada.
- **1996 October – 1998 October:** Master Program in Institute for Hydrospheric and Atmospheric Science (IHAS), Nagoya University, Japan.
- **2000 February – July 2003:** Doctoral Program in Max Planck Institut für Meteorologie / Uni. Hamburg, Germany. Dissertation: "Simulations of Indonesian Rainfall with a Hierarchy of Climate Models" <http://www.sub.uni-hamburg.de/opus/volltexte/2004/1090/>

Working experience :

- 1993 November – 13 Feb 2009: staff of Weather Modification Technical Unit, BPP Teknologi, actively involve in many operational missions.
- 2004 February – now: a Lecturer at the University of Indonesia, Jakarta for Marine Meteorology.
- 2006 November – now: a Lecturer at the Bogor Institute for Agriculture, Jakarta for courses: Advance Hydrometeorology, Weather Modification and Climate Change.
- 2006 June 06 – 2008: member of Climate anomaly assessment group Department of Agriculture Indonesia (Tim Pokja Anomali Iklim Deptan) SK Menteri Pertanian No: 402/Kpts/OT.160/6/2006
- June 2006 – 2009: member of the Proposed Indonesian Meteorology and Geophysics Law (Tim RUU Meteorologi dan Geofisika)
- April – December 2011: member of Climate Change Cluster (Tim Kluster Perubahan Iklim Ditjen Pendidikan Tinggi)
- Functional Status: Senior Researcher (Ahli Peneliti Utama IVe), with credit point 1071.9 since 1 April 2010
- Structural Status :
 - Pembina Utama Madya, IVd, since 1 October 2012,

- Director for Center of Climate Change and Air Quality BMKG 1 May 2009 – 24 February 2014
- Director for Center of Research and Development BMKG since 24 February 2014
- **IPCC AR V Lead Author on WG I Chapter 14: “Climate Phenomena and their Relevance for Future Regional Climate Change”**

Government or Expert Delegation Mission :

- 3-14 December 2007: Official member of Indonesian Delegation to the UNFCCC Climate Change Conference COP13 in Bali.
- 18-27 June 2008: Official member of Indonesian Delegation to WMO EC LX session, Geneva (Alternate to Mrs SWB Harijono)
- 3-5 September 2008: Official member of Indonesian Delegation to WMO WCC-3 WIOC2, Geneva
- 16-18 March 2009: Official member of Indonesian Delegation to WMO WCC-3 WIOC3, Bonn
- 19-21 March 2009: Official member of Indonesian Delegation to WMO EC-WG DRR, Geneva
- 8-10 April 2009; Head of Indonesian Delegation to the 31st meeting of the ASEAN Sub-committee on Meteorology and Geophysics, Bangkok
- 20-24 April 2009; Official member of Indonesian Delegation to Technical Meeting of Regional Association V, WMO, Kuala Lumpur, Malaysia
- 11-15 May 2009; Official member of Indonesian Delegation to the Senior Officer Meeting (SOM) World Ocean Conference, Manado Indonesia (negotiator)
- 1-2 June 2009: Official member of Indonesian Delegation to WMO FINAC 28th session, Geneva (Alternate to Mrs SWB Harijono)
- 3-12 June 2009: Official member of Indonesian Delegation to WMO EC LXI session, Geneva (Alternate to Mrs SWB Harijono)
- 31 August – 4 September 2009: World Climate Conference 3, Geneva
- 7-18 December 2009: Official member of Indonesian Delegation to UNFCCC Climate Change Conference COP15 in Copenhagen, Lead Negotiator for SBSTA
- 11-12 January 2010: Official member of Indonesian Delegation to Intergovernmental meeting for the High Level Taskforce on the Global Framework for Climate Services in Geneva,
- 24-26 February 2010: Official member of Indonesian Delegation to the WMO EC-WG on Disaster Risk Reduction and Service Delivery,
- 19-21 April 2010: WMO Inter-regional Workshop on Policy Aspects of Climate Change, Petaling Jaya, Selangor,
- 30 April – 6 May 2010: WMO XV Session RA V, Denpasar, Indonesia, Chairman of the Organizing Committee
- 10-12 May 2010; Indonesian Delegation to the 31st meeting of the ASEAN Sub-committee on Meteorology and Geophysics, Da Nang, Viet Nam
- 6-7 June 2010: Official member of Indonesian Delegation to WMO FINAC 29th session, Geneva (Alternate to Mrs SWB Harijono)
- 8-12 June 2010: Official member of Indonesian Delegation to WMO EC LXII session, Geneva (Adviser to Mrs SWB Harijono)
- 2-4 August 2010: Official member of Indonesian Delegation to WMO HLT 3 session, Geneva (Adviser to Prof. Emil Salim)
- 23-27 August 2010: Head of BMKG Delegation to NOAA for bilateral talk agreement meeting
- 20-22 September 2010: Official member of Indonesian Delegation to WMO RA V Management meeting session 5, Citeko Indonesia
- 25-29 October 2010: Chairman of Organizing Committee of the Eleventh WMO Symposium on Education and Training, Symet XI, Citeko Indonesia
- 29 Nov-4 December 2010: Official member of Indonesian Delegation to UNFCCC Climate Change Conference COP16 in Cancun Mexico,
- 13-15 December 2010: Official member of Indonesian Delegation to WMO HLT 5 session, Geneva (Adviser to Prof. Emil Salim)

- 21-23 January 2011: Official member of Indonesian Delegation to bilateral talk with National Weather Service NOAA for signing of Letter of Intent between BMKG and NWS NOAA, Seattle USA
- 24-26 January 2011: Official member of Indonesian Delegation to bilateral talk with Ministry of Earth Science and Indian Meteorological Institute for signing of MoU between BMKG and the Ministry of Earth Science of India, New Delhi India
- 14-15 May 2011: Official member of Indonesian Delegation to WMO FINAC 30th session, Geneva (Alternate to Mrs SWB Harijono)
- 16 May – 3 June 2011: Official member of Indonesian Delegation to WMO 16th Congress, Geneva (Alternate of Principal Delegate)
- 6-8 June 2011: Official member of Indonesian Delegation to WMO EC LXIII session, Geneva (Alternate to Mrs SWB Harijono)
- 28 Nov-4 December 2011: Official member of Indonesian Delegation to UNFCCC Climate Change Conference COP17 in Durban South Africa,
- 30 Jan – 3 Feb 2012: Official member of Indonesian Delegation to WMO President Regional Association Meeting 2012, President Regional association and President Technical Commission Meeting, Bureau Meeting, Geneva
- 4-7 Feb 2012: Official member of Indonesian Delegation to bilateral talk with Sudan Meteorological Authority, Khartoum, Sudan
- 4-5 June 2012: ADB Meeting on Asia Pacific Water Forum Steering Group on Water and Climate Change, Manila, Phillipine
- 22 June 2012: Official member of Indonesian Delegation to bilateral talk with KNMI the Netherland, Utrech the Netherland
- 23-24 June 2012: Official member of Indonesian Delegation to WMO FINAC 31th session, Geneva
- 25-29 June 2012: Official member of Indonesian Delegation to WMO EC LXIV session, Geneva
- 15-19 October 2012: Official member of Indonesian Delegation to WMO CBS session, Jakarta
- 29-31 October 2012: Official member of Indonesian Delegation to WMO Extra Ordinary Congress session, Geneva, alternate Head Delegation
- 26 Nov-2 December 2012: Official member of Indonesian Delegation to UNFCCC Climate Change Conference COP18 in Doha Qatar,
- 1 December 2012: Official member of Indonesian Delegation to bilateral talk with Qatar Meteorological Authority, Doha, Qatar
- 3-4 December 2012: Official member of Indonesian Delegation to bilateral talk with Presidency of Meteorology and Environment Kingdom of Saudi Arabia, Jeddah, Saudi Arabia
- 13-14 May 2013: Official member of Indonesian Delegation to WMO FINAC 32th session, Geneva
- 15-23 May 2013: Official member of Indonesian Delegation to WMO EC LXV session, Geneva (Alternate to Mrs SWB Harijono)
- 10-11 June 2013: Official member of Indonesian Delegation to bilateral talk with NASA JPL and California Tech Institute
- 27-28 June 2013: Inception Workshop: ADB Technical Assistance for Regional Climate Projections Consortium and Data Facility for Asia and the Pacific, Bangkok, Thailand
- 1-5 July 2013: Official member of Indonesian Delegation to Inter-governmental Board on Climate Services IBCS 1 session, Geneva
- 25-27 September 2013: Official member of Indonesian Delegation to the Thirteen session of the Scientific Advisory Committee on the EANET, Xiamen China
- 14-18 October 2013: Official member of Indonesian Delegation to the 37th Plenary Session of IPCC, Batumi, Georgia (Head of Delegation)
- 26 – 30 Februari 2014: Expert Experience Exchange and Discussion on Climate Services, Deutsche Wetter Dienst, DWD, GIZ, Offenbach Jerman

- 26 – 30 Februari 2014, Official member dari delegasi Indonesia dalam kunjungan Expert Experience Exchange and Discussion on Climate Services, Deutsche Wetter Dienst, DWD, GIZ, Offenbach Jerman,
- 2 – 8 May 2014, Official member dari delegasi Indonesia dalam pertemuan WMO Regional Association Session 16, Jakarta, Indonesia,
- 18 – 27 June 2014: Official member of Indonesian Delegation to WMO EC LXVI session, Geneva (adviser to Dr. AE Sakyia)

As IPCC Expert (Inter Governmental Panel on Climate Change)

- 13-17 July 2009: IPCC Expert Group meeting on AR5 scoping meeting, Venice, Italy
- 14 – 16 September 2009: IPCC Expert Group meeting on Detection and Attribution of Anthropogenic Climate Change, Geneva
- 26-29 October 2009: Official member of Indonesian Delegation to IPCC 31st Session, Bali, Head of Delegation
- 8-11 November 2010: IPCC AR5 WG I First Lead Author Meeting, Kunming China
- 18-22 July 2011: IPCC AR5 WG I Second Lead Author Meeting, Brest France
- 16-20 April 2012: IPCC AR5 WG I Third Lead Author Meeting, Marrakech Marocco
- 13-18 January 2013: IPCC AR5 WG I Fourth Lead Author Meeting, Hobart Australia
- 20 November 2013: IPCC AR5 WGI Outreach Programme, Jakarta Indonesia
- 7 July 2014: IPCC AR5 Outreach Programme, Singapore
- 11 July 2014: IPCC AR5 Outreach Programme, Jakarta Indonesia
- 11 August 2014: IPCC AR5 Outreach Programme, Islamabad Pakistan

Short Courses or Trainings:

1. 1988 September – 1989 June: STMDP – BPPT Preparation Programme
2. 1989 July – 1989 August: English training in Univ. of British Columbia, Vancouver, Canada
3. 1995 March – Short Course on Meteorology, Univ. of Indonesia
4. 1995 November – 1995 December: Wind Profiler Radar data analysis training in Radio Atmospheric Science Center, Kyoto University, Japan
5. 1996 June: Basic training on Geographic Information System, Dept of Geography, University of Indonesia
6. 1998 March: International Hydrology Programme Training Course topics on Ice and Snow Hydrology, IHAS, Nagoya University and UNESCO
7. 2001 March (12-16): Advanced course: climate change in the Mediterranean region – part I: physical aspects, The Abdus Salam International Center for Theoretical Physics, Trieste, Italy
8. 2001 April (23-27): Meteorological Course, Predictability, diagnostics and seasonal forecasting, European Center for Medium Range Weather Forecast (ECMWF), Reading, UK
9. 2001 June (25-29): PRISM/COACH Summer School on Climate Modelling, Max Planck Institut fur Meteorologie- KNMI, Les Diablerets, Switzerland, http://www.knmi.nl/euroclivar/prism/diablerets_report.html
10. 2001 24 September – 5 October: School on the physics of the Equatorial Atmosphere, The Abdus Salam International Center for Theoretical Physics, Trieste, Italy
11. 2002, 9 – 13 September. Seminar on Predictability of Weather and Climate, ECMWF, Reading, UK.
12. 2005, 15 – 28 November: Advanced Workshop and Training on Water and Carbon Issues in Southeast Asia Region, SARCS, Chung Li and Kaohsiung, Taiwan
13. 2006, 26-27 April: Asia Pro Eco Networking Meeting, EU Commission, Bangkok, Thailand
14. 2007, 21-25 October: Development of Grant Proposals and Development of Manuscript for Publications, BCAS-IFS, BCDM, Gazipur, Bangladesh
15. 2008, 2-12 January: The institute on “The Asian Monsoon System: Prediction of Change and Variability,” East West Center Honolulu Hawaii, USA
16. 2011, 12 September – 22 November: Diklat Sespim Tingkat II Angkatan XXXII kelas A, Jakarta

Informal Academic Achievement :

1. 1989 – 1993 : **STMDP BPPT Scholarship** for bachelor degree programme in Canada
2. 1996 – 1998: **Japanese Government Monbusho scholarship** for master programme in IHAS, Nagoya University.
3. 1999 – 2003: **German Government DAAD scholarship** for PhD programme in Max Planck Institut für Meteorologie, A/99/09410.
4. 2004: received **START International Young Scientist Award 2004** based on the publication of a journal article Modeling Indonesian Rainfall with a Coupled Regional Model, http://ww.start.org/Archives/Briefing_Notes_Nov_2004.pdf
5. 1999: **Satyalancana Karya Satya X tahun**
6. One among ONLY three Indonesian scientists whose international scientific publications have been cited by IPCC report 2007 who won the Nobel peace price 2007 (3 citations).
7. 2010: **Satyalancana Karya Satya XX tahun**

Language Ability :

- Indonesian : fluent in speaking, writing and reading
- English : fluent in speaking, writing and reading
(TOEFL score, February 1996: 600, November 1998: 590)
- Japanese : fluent in colloquial speaking and reading
- German : fluent in speaking, writing and reading.
- Arabic : fluent in reading and writing

English Teaching Experience :

1. 1995 August – 1996 August: staff of ELU English training for BPPT and BPIS staffs
2. 1996 Jan – 1996 September: private English teacher for a Japanese worker

Scientific Journal Editors and Referee :

1. Jurnal Sains Teknologi Modifikasi Cuaca, BPPT, editor
2. Jurnal Meteorologi dan Geofisika, BMKG, editor
3. Jurnal Segara, BRKP, editor
4. International Journal of Climatology, scientific referee
5. Climate Dynamics, scientific referee
6. Atmospheric Environment, scientific referee
7. Climate Research, scientific referee
8. Geophysical Research Letter, scientific referee
9. Advance in Geoscience, scientific referee
10. Journal of Climate, scientific referee
11. Theoretical and Applied Climatology, scientific referee

Biography

1. Edvin Aldrian, Topan sekarang jauh lebih kuat, Pakar, Kontan pp 33, 16 January 2006
2. Edvin Aldrian, SDM Indonesia tidak melek teknologi karena minimnya budaya ingin tahu dan mencari, Buku Maha Karya Profil Tokoh , Pengusaha eksekutif, Profesional dan Pendidik Indonesia Emas 2007, pp 350 – 355, 2007
3. Edvin Aldrian, Bencana besar itu datang perlahan tanpa kita sadari, Tatap muka, Tarbawi, 20 Desember 2007
4. Edvin Aldrian, Meneliti Iklim dengan hati, Sosok, Media Indonesia, pp 11, 5 May 2009
5. Edvin Aldrian, Perubahan iklim di depan mata, Tamu, Koran Tempo Minggu, A10-A11, 3 Oktober 2010

International Publications (citations per Februari 2014, WOS per April 2013) :

1. Aldrian, E., L. D. Gates, F. H. Widodo, 2003, Variability of Indonesian Rainfall and the Influence of ENSO and Resolution in ECHAM4 simulations and in the Reanalyses, MPI Report 346, 30pp [Available from Max Planck-Institut für Meteorologie, Bundesstr. 55, D-20146, Hamburg, Germany.], **5 citations**

2. Aldrian, E., R. D. Susanto, 2003, Identification of three dominant rainfall regions within Indonesia and their relationship to sea surface temperature, *International Journal of Climatology*, **23**, 1435-1452 DOI: 10.1002/joc.950, **171 citations, 80 web of science**
3. Aldrian, E., L. D. Gates, D. Jacob, R. Podzun, D. Gunawan, 2004, Long term simulation of the Indonesian rainfall with the MPI Regional Model, *Climate Dynamics*, **22**, 8, 794-814, DOI 10.1007/s00382-004-0418-9, **24 citations, 14 web of science**
4. Aldrian, E., D. Sein, D. Jacob, L. Dümenil-Gates, R. Podzun, 2005, Modelling Indonesian Rainfall with a Coupled Regional Model, *Climate Dynamics*, **31**, 1-17, DOI: 10.1007/s00382-004-0483-0, **32 citations, 23 web of science**
5. Hendiarti N., Suwarso, E. Aldrian, R. A Ambarini, S. I. Sachoemar, I. B. Wahyono, K. Amri, 2005, Seasonal Variation of Coastal Processes and Pelagic Fish Catch around the Java, *Oceanography*, **18**, No 4, 112-123, **6 citations, 1 scopus**
6. Heil, A., B. Langmann, E. Aldrian, 2007, Indonesian peat and vegetation fire emissions: Factors influencing large-scale smoke-haze dispersion, Mitigation and Adaptation Strategy for Global Change, **12**, No 1, 113-133, DOI 10.1007/s11027-006-9045-6, **46 citations, 20 web of science**
7. Aldrian, E., L. D. Gates, F. H. Widodo, 2007, Seasonal Variability of Indonesian Rainfall in ECHAM4 Simulations and in the Reanalyses: Roles of ENSO, Theoretical and Applied Climatology, **87**, no 1-4, 41-59, DOI: 10.1007/s00704-006-0218-8, **25 citations, 13 web of science**
8. Aldrian, E., Y. S. Djamil, 2008, Spatio-temporal climatic change of rainfall in East Java Indonesia, *International Journal of Climatology*, **28**, Issue 4, 435 – 448, DOI 10.1002/joc.1543, **28 citations, 7 web of science**
9. Aldrian, E., C. A. Chen, S. Adi, Prihartanto, N. Sudiana, and S. P. Nugroho, 2008, Spatial and seasonal dynamics of riverine carbon fluxes of the Brantas catchment in East Java, *J. Geophys. Res. Biogeosciences*, **113**, G03029, doi:10.1029/2007JG000626, **14 citation, 13 web of science**
10. Pawitan, H. E. Aldrian, S. P. Nugroho, 2007, Carbon, Nutrient and Sediment Fluxes of the Java Major Rivers, *Journal of Hydrologic Environment*, **3**, No 1, 9-20
11. E. Aldrian, C. Oludhe, B.J. Garanganga, J. Pahalad, M. Rojas Corradi, M.S. Boulahya, L. Dubus, J. Ebinger, M. Fischer, 2010, Regional Climate Information for Risk Management, *Procedia Environmental Sciences*, Volume 1, 2010, Pages 369–383, <http://dx.doi.org/10.1016/j.proenv.2010.09.024>, **2 citation**
12. Vernimmen, R. R. E., Hooijer, A., Mamenun, and Aldrian, E., 2012, Evaluation and bias correction of satellite rainfall data for drought monitoring in Indonesia, *Hydrol. Earth Syst. Sci.*, **16**, 133–146, doi: 10.5194/hess-16-133-2012, **15 citation, 8 web of science**
13. Cahyarini, S.Y., M. Pfeiffer, I. S. Nurhati, E. Aldrian, W-C. Dullo and S Hetzinger, 2014, Twentieth century sea surface temperature and salinity variations at Timor inferred from paired coral $\delta^{18}O$ and Sr/Ca measurements, *Journal of Geophysical Research – Ocean*, **119**, 7, 4593-4604, DOI: 10.1002/2013JC009594

National Publications :

1. Karmini, M., E. Aldrian, H. Widodo, M. Husni, S.W. Budiati, R. B Yahya, 1995: Summary on Potential Cloud Monitoring Programs on Central Java (Resume program pemantauan awan potensi di Jawa Tengah) 10-23 August 1994, *BPP Teknologi Magazine* No LXIV/1995
2. Aldrian, E., 1998: Review of Rain Remote Sensing Technologies (Teknologi Inderaja Hujan), *J. Iptek Iklim dan Cuaca - BPP Teknologi*, **2**, 133-138
3. Aldrian, E., 1998: Polarization Radar Observation of Chaff and Rain, submitted to *IEICE transactions on Communications*,
4. Aldrian, E., 1999: Division of Climate Type in Indonesia based on Rainfall Pattern, *Oceanica - J. of Marine Sci. and Tech*, *BPPT*, **5**, 165-171
5. Aldrian, E., 1999: Some rainfall characteristics observed with weather radar and rain gauge; Study case of Semarang December 1998 - January 1999, *Buletin Meteorologi dan Geofisika*, **2**, 70-79

6. Aldrian, E., 2000: Pola hujan rata-rata bulanan wilayah Indonesia; Tinjauan hasil kontur data penakar dengan resolusi ECHAM T-42, *Jurnal Sains and Teknologi modifikasi Cuaca*, **1**, no 2, 113-123
7. Aldrian, E., 2001: Pembagian Iklim Indonesia berdasarkan pola curah hujan dengan metoda "double correlation", *J. Sains & Tek. Mod. Cuaca*, **2**, 11-18
8. Aldrian, E., 2002: Spatial Patterns of ENSO impact on Indonesian Rainfall, *J. Sains & Tek. Mod. Cuaca*, **3**, 5-15
9. Aldrian, E., 2002: The spectrum threshold filter method for chaff and rain, *J. Sains & Tek. Mod. Cuaca*, **3**, 29-37
10. Aldrian, E., 2002, The simulation of Co- and Cross-Polar Characters of Rainfall Droplets and Chaff, *J. Sains & Tek. Mod. Cuaca*, **3**, 105 – 114
11. Aldrian, E., 2002, An indication of sea-air interaction that affect the climate pattern over the Moluccan Sea, *J. Sains & Tek. Mod. Cuaca*, **3**, 125 – 133
12. Aldrian, E., 2003, Regional model simulation of Indonesian rainfall driven by ECMWF ERA15 reanalysis. *Jurnal Meteorologi dan Geofisika*, **4**, No 2, 57- 64, BMG Jakarta,
13. Aldrian, E., 2003, The Indonesian Rainfall Predictability Experiment with a Regional Climate Model. *Jurnal Meteorologi dan Geofisika*, **4**, No 3, 51 – 62, BMG Jakarta
14. Aldrian, E., 2003, Melting Layer Observation With An Airborne Radar And In-Situ Laser Probe With The Double Sphere Model Approximation. *J. Sains & Tek. Mod. Cuaca*, **4**, 29-39
15. Aldrian, E., 2003, The Role Of Ocean In Simulating Indonesian Rainfall Variability. *J. Sains & Tek. Mod. Cuaca*, **4**, 41-53
16. Suwarman, R., E. Aldrian, 2004, Sensitivitas variabilitas hujan di Pulau Jawa terhadap suhu muka laut dan evaporasi di sekitarnya: Studi model iklim kasus tahun 1979 – 1983, *J. Meteorologi dan Geofisika*, *BMG*, **5**, No 3, 1-15
17. Aldrian, E., S. P. Nugroho, 2004, Peran cuaca dan lahan terhadap bencana banjir banding Bohorok. *J. Sains & Tek. Mod. Cuaca*, **5**, 21 – 28
18. Aldrian, E., Asril, 2005, Influences of Indian Ocean Dipole and ENSO on variability of summer inflow of several dams and lakes in Indonesia. *Alami*, **10**, 19-26
19. Aldrian, E., 2005, Perubahan Iklim Global, Tragedi Lion Air dan Banjir di Blitar, *Year Book Mitigasi Bencana 2004*, TPSLK - BPPT
20. Aldrian, E., Y. S. Djamil, 2006, Long Term Spatial And Temporal Analysis Of The Rainfall Trend In The Brantas Catchment Area, East Java, *The Indonesian Journal of Geography*, June 2006, **38**, 26-40
21. Kadarsah, E. Aldrian., 2005, Simulasi Asap Kebakaran Hutan Menggunakan Model Regional (REMO), *J. Sains & Tek. Mod. Cuaca*, **6**, 87-94
22. Kadarsah, E. Aldrian., 2005, Aplikasi Sistem Informasi Meteorologi Terhadap Indeks Kekeringan dengan Ketersediaan Air Tanah, *J. Sains & Tek. Mod. Cuaca*, **6**, 95-102
23. Aldrian, E., 2006, Karakteristik Hujan Jam-jaman, Harian, Bulanan dan Tahunan DAS Laron, Soroako Sulawesi Selatan, *J. Sains & Tek. Mod. Cuaca*, **7**, 43-53
24. Aldrian, E., 2006, Decreasing trends in annual rainfalls over Indonesia: A threat for the national water resource? *J. Meteorologi dan Geofisika*, *BMG*, **7**, No 2, 40-49
25. Aldrian, E., U. Haryanto, 2006, Penelitian sifat kelarutan, eksotermis, hidrofilik dan higroskopik, 12 jenis bahan semai awan hangat, *J. Sains & Tek. Mod. Cuaca*, **7**, 21-29
26. Aldrian, E. and G S A Utama, 2007, Identifikasi dan karakteristik seruk dingin (Cold Surge) tahun 1995-2003. *J. Sains Dirgantara*, **4**, No 2, 107-127
27. Aldrian, E., Y. S. Djamil, 2007, Application of Multivariate ANFIS for Daily Rainfall Prediction: Influences of Training Data Size, *Journal Geofisika*, 2007, No **2**, 32-39
28. Aldrian, E., F. Ismaini, Y. Koesmaryono, 2007, The Daily Statistical shift during the half century over the Brantas catchment, East Java, *Jurnal Agromet Indonesia*, **21**, Juni, 1-11
29. Estiningtyas, W., F. Ramadhani, E. Aldrian, 2007, Analisis Korelasi Curah Hujan dan Suhu Permukaan Laut Wilayah Indonesia, serta implikasinya untuk prakiraan curah hujan: Studi Kasus Kabupaten Cilacap, *Jurnal Agromet Indonesia*, **21**, Desember, 47-61
30. Aldrian, E., 2008, Simulation of Landcover Change Influences for Water Availability Using a Regional Atmospheric Model, *J. Meteorologi dan Geofisika*, *BMG*, **8**, 1-13
31. Aldrian, E., 2008, PEAT Carbon, Fire and Climate Interactions, *J Hidrosfir Indonesia*, **3**, 23-32

32. Aldrian, E., 2008, Dominant factors of Jakarta's three largest floods, *J Hidrosfir Indonesia*, **3**, 107 – 114
33. Kusumawati Y, S Effendy, E Aldrian, 2008, Variasi spasial dan temporal hujan konvektif di Pulau Jawa berdasarkan citra satelit (Spatial and temporal variation of convective rain in Java Island based on citra images), *Jurnal Agromet Indonesia*, Vol 22, No 1
34. Aldrian, E., 2009, Meteorological Conditions During Jakarta's Three Largest Floods, *Prosiding Seminar Scientific Jurnal Club Tahun 2009*, BMKG
35. Aldrian, E., J. Arifian, 2009, Prediction of southern oscillation using the Indonesian throughflow variability, *Marine Research Indonesia*, Vol 34, 1-9, April 2009
36. Nugroho, S.P., Pawitan, H., Riany, E., and Aldrian E., 2009, Prediksi Fluks Karbon Organik terlarut dari Sungai Sungai Utama di Jawa ke laut", *Jurnal Teknologi Lingkungan Edisi Khusus*, 13-22, ISSN 1441-318X.
37. Aldrian, E., 2010, Climate change and monsoon interplay in the maritime continent, proceeding the International Symposium on Equatorial Monsoon System, July 28-29 2010, Jakarta, ISBN 978-979-15549-7-8
38. Supari S, J Ettema, E Aldrian, 2012, Spatio temporal characteristics of Extreme rainfall events over. Java Island, INDONESIA, *Indonesian Journal of Geography*, Vol 44, 62-86

Publications in Progress :

1. Aldrian E, Chen CTA, Prihartanto, Sudiana N, Adi S, Nugroho SP (2009) Nutrient dynamics in the Brantas River basin, East Java, submitted to *J. Geophys. Res*

Popular Scientific Articles :

1. Aldrian, E., 1994: Multiple language operating system on Macintosh, *Info Komputer Magazine*, June 1994
2. Aldrian, E., 2002: Tidak ada dampak El Nino pada puncak musim hujan, *Kompas* 5 November 2002
3. Aldrian, E., 2005. Potensi tersembunyi "Marine Carbon sink" benua maritime Indonesia, *Kompas* 18 April 2005
4. Aldrian, E., 2006. Bencana Iklim akibat Perubahan Iklim Global, *Kompas* 29 March 2006
5. Aldrian, E., 2007. (Perubahan iklim) Kemarau basah akibat La Nina, *Kompas* 13 Agustus 2007
6. Aldrian, E., 2007. Nobel bagi perdamaian iklim, *Kompas* 18 October 2007
7. Aldrian, E., 2007, Telaah – Indonesia, Emitter Karbon ketiga, *Antara*, 19 November 2007
8. Aldrian, E., 2010, Periskop: Indonesia dan Rencana Layanan Iklim Global, *Koran Tempo*, 9 Februari 2010
9. Aldrian, E., 2010, Telaah – Kemarau basah bukti pemanasan global, *Antara*, 23 Juni 2010
10. Aldrian, E., 2014, Opini - Membumikan basis ilmiah IPCC, *Kompas Siang*, 8 Januari 2014
11. Aldrian, E., 2014, Opini – Jangan Menggantang Asap, *Kompas*, 19 Maret 2014

Books or Book Chapters :

1. Proceeding of DAAD Marine Bilateral Workshop on coastal resources exploration and conservation: Indo – German experiences. Bali, October 13-15, 2004, ISBN 7973592052, BPPT - Marine and Fisheries Research Agency of Indonesia. Editors: Rita Rachmawati, Edvin Aldrian, Nani Hendiarti, Iwan Tejakusuma
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22. Aldrian, E. and Yudhya Sudarmadi, 2007, Regional Climate Phenomena in Western Maritime Continent and Flood in Jakarta, International Symposium on Coupling Processes over the Equatorial Atmosphere, Kyoto University, Kyoto, 20-23 March 2007
23. Aldrian, E., 2007, Interannual to decadal variabilities of the maritime continent monsoon from modeling and observation perspective, Asian Monsoon Year 2008 (AMY08) International Workshop, Beijing, 23-25 April 2007.
24. Aldrian, E., S. P. Nugroho, H. Pawitan, 2007, Carbon, Nutrient and Water Fluxes of River Basins of Java Island, International Geomorphology Conference, Kota Kinabalu, Malaysia, 25-28 June 2007.
25. Aldrian, E., Indonesia Country Report on Climate Variability and Climate Changes and their implications, Parallel Event COP13 (Indonesia's Progress on Climate Change Adaptation: The way forward, UNDP, GTZ, WASAP, Embassy of the Netherland, Aston Nusa Dua Bali 8 December 2007.
26. Aldrian, E., Chaotic predictability and long term variability of the maritime continent climate, International Seminar on Climate Variability, Change and Extreme Weather Events, 26 – 27 February 2008, Universiti Kebangsaan Malaysia
27. Aldrian, E., Report on Findings of Studies of Climate Change in Indonesia, National Consultation on A Regional Review of the Economics of Climate Change in Southeast Asia (RRECCS), 23-24 May 2008, Jakarta, Asian Development Bank.
28. Chang, CP, Lu, MM, Tangang, F, Aldrian, E, Koh, TY, Juneng, L, The east asian Winter Monsoon and Maritime Continent Monsoon, WWRP-WMO 4th WMO International Workshop on Monsoon (IWM-IV), Beijing China, 20-25 October 2008
29. Aldrian, E., Water & Carbon Cycle of Musi River Basin , SARCS 2008 Carbon & Water Project Review Meeting, 4 November 2008, Phuket Thailand
30. Aldrian, E., 2008, Climate variability and climate change over the Maritime Continent, Invited Public Talk, Universiti Kebangsaan Malaysia, 16 December 2008, Bangli-UKM Malaysia.
31. Aldrian, E., 2009, Climate anomaly influences for dam inflow and river discharge for hydropower generation, International Workshop "Climate Information Services in Supporting Mitigation and Adaptation to Climate Change in Energy and Water Sectors" Jakarta, 24-25 March 2009
32. Aldrian, E. and Oktivia R., 2009, Sea Air Interaction Study over the Major Indonesian Throughflow Passage, World Ocean Conference (WOC) Symposium, 13 May 2009, Manado, Indonesia
33. Aldrian, E., 2009, Carbon Nutrient coastal fluxes over Java and the possible impacts to global climatic changes, International Symposium on Effects of Climate Change on Coastal Zone Management, 18-20 May 2009, APN Capable and Labmath Indonesia, Bandung
34. SY. Cahyarini, E. Aldrian, M. Pfeiffer, The connection of Indian Ocean to the Indonesia Regional Climate: Record from d18O coral, Proceedings International Conference on Marine Ecosystem, Langkawi 26-29 May, ISBN 978-967-2975-51-9
35. Aldrian, E., 2009, Carbon nutrient coastal fluxes over Java and the possible impacts to global climatic changes, International SYMPOSIUM Effects of Climate Change On Coastal Zone Management, 18 - 20 May 2009, Bandung
36. Aldrian, E., 2009, Regional climate information for risk management – Needs, World Climate Conference, 31 August – 4 Sept 2009, WMO Geneva

37. Budiati, S.W.B., Aldrian, E., 2009, Recent Advancement of climate services in Indonesia, Nations and Region session - World Climate Conference, 31 August – 4 Sept 2009, WMO Geneva
38. Aldrian, E., 2009, El Nino and La Nina and Other Climate variability over Southeast Asia, Training Workshop on Climate Applications in ASEAN, Malaysian Meteorological Department on October 5 – 9, 2009, Petaling Jaya, Malaysia
39. Aldrian, E., 2009, Impact of ENSO on ASEAN, Training Workshop on Climate Applications in ASEAN, Malaysian Meteorological Department on October 5 – 9, 2009, Petaling Jaya, Malaysia
40. Aldrian, E., 2009, Climate change and global warming confronting the economies of asean region, Training Workshop on Climate Applications in ASEAN, Malaysian Meteorological Department on October 5 – 9, 2009, Petaling Jaya, Malaysia
41. Aldrian, E., 2009, Climate models, long range Forecasting and climate Predictability, Training Workshop on Climate Applications in ASEAN, Malaysian Meteorological Department on October 5 – 9, 2009, Petaling Jaya, Malaysia
42. Aldrian, E., 2009, Climate Change and Variability at South China Sea: Implication on Global Carbon budget, the Fifth Working Group Meeting on the study of Tides and Sea Level Change and their impact on coastal environment in the South China Sea (SCS) affected by potential climate change, 12-14 November 2009, Makassar
43. Aldrian, E., 2009, Simulation of Deforestation in the Tropical and Maritime Climate: Implication to Global Climatic Changes, International Seminar Perhimpni, Bogor 17 November 2009
44. Aldrian, E., 2009, Climate Change Adaptation Framework and Role of Disaster Risk Reduction, International PhD Workshop: Disaster Risk Reduction and Climate Change “Scientific Concepts and Strategies for Disaster Risk Reduction in Climate Change Context in the Coastal Areas in South and Southeast Asia, DAAD – UN University – PSBA UGM, Jogja 26 November 2009
45. Aldrian, E., 2010, Climate Change Adaptation Policy and Experience in BMKG, the International Workshop Methods and Tools for Water-related Adaptation to Climate Change and Climate Proofing, Bandung, 8-9 March 2010
46. Aldrian, E., 2010, Climate models, long range Forecasting and climate Predictability, the International Workshop Methods and Tools for Water-related Adaptation to Climate Change and Climate Proofing, Bandung, 8-9 March 2010
47. Aldrian, E., 2010, Needs for enforcement of monitoring atmosphere and GHG, The Fourth GEOSS Asia-Pacific Symposium, 10 – 12 March 2010 Denpasar Bali
48. Aldrian, E., 2010, Climate Change and Coastal Vulnerability: Scientific and Institutional Challenges in Indonesia, Climate Information Services in Supporting Mitigation and Adaptation to Climate Change in Infrastructure and Health Sectors, 29-30 March 2010, BMKG, Jakarta
49. Aldrian, E., 2010, Factors Influencing the Response of the Maritime Continent Climate to ENSO, Invited Scientific Lecture, WMO RA V - XV Session, Denpasar, 30 April – 6 May 2010
50. Aldrian, E., 2010, Climate Change and monsoon interplay in the maritime continent, The International Symposium on Equatorial Monsoon System Jakarta, BMKG, 29 July 2010
51. Aldrian, E., 2011, Climate Change Detection and Evidences over the Maritime Continent, Japan Society for the Promotion of Science (JSPS) International Forum “Climate Change in Monsoon Asia”, 6 – 7 January 2011, Bangkok, Thailand
52. Aldrian, E., 2011, Processes and evidences of global warming and climate change over the tropical maritime continent, International Youth Forum on Climate Change, JHCC Jakarta 24 February 2011
53. Aldrian, E., 2011, Climate Change detection and processes in the maritime continent of Indonesia, 1st Indonesian-American Kavli Frontiers of Science Symposium, Bogor, 8 – 11 July 2011, AIPI – National Academy of Science USA
54. Aldrian, E., AM. Ulfa, Mammenun, 2011, Vulnerability of Paddy and Maize against the El Nino Impact and the Development of Drought Early Warning System, Climate Information Services in Supporting Mitigation and Adaptation to Climate Change in Agriculture and Forestry Sectors, 27-28 July 2011, BMKG, Jakarta

55. Aldrian, E., 2011, Contribution of the global atmospheric watch station at bukit koto tabang to climate change and air quality sciences in indonesia, The International Symposium on 10th anniversary of the Equatorial Atmosphere Radar, 22-23 September 2011, LAPAN, Jakarta
56. Aldrian, E., 2011, Extrem Changes over Southeast Asia, World Delta Summit session Regional Climate Change & Extreme Climate over the Maritime Continent, 21-24 November 2011, Jakarta
57. Aldrian, E., 2012, BMKG GHG monitoring and Ocean Carbon, The 2nd Asia Forum on Carbon Update 2012, 15 – 17 February 2012, DNPI, Bandung
58. Aldrian, E., Vulnerability of Paddy and Maize to Climate Variability in Indonesia and Vulnerability Map of paddy to Climate Change in Bali, The First International Workshop of Climatic Changes and their Effects on Agriculture in Asian Monsoon Region, 3-4 March 2012, Bangkok, Thailand
59. Aldrian, E., 2012, Climatology of Indonesia and Climate Change, The Towuti Drilling Project Workshop, Paleoenvironments, Biological Evolution, and Geomicrobiology of a Tropical Pacific Lake, ICDP and NSF Workshop Bandung, 26 March 2012
60. Aldrian, E., 2012, The development of regional coupled modeling for indonesian region: understanding the role of indonesian seas, The International Workshop on The Digitization Of Historical Climate Data, the New Saca&D Database and Climate Analysis in the ASEAN region, 2 – 5 April 2012, BMKG-KNMI, Citeko Bogor Indonesia
61. Aldrian, E., 2012, Climate Change issues in Indonesia impacting multisectoral economic development, Keynote Speech Indonesia – French Seminar. Sustainable development and industry in Marine and Coastal Resource “Blue Economy”, 8 March 2012 Royal Hotel Bogor
62. Aldrian, E., 2012, BMKG Initiatives to Develop high resolution climate projections for Indonesia, Inception Workshop RETA 7581: Supporting Investment in Water and Climate Change, Ministry of PW DG of WR, Jakarta 14 May 2012
63. Aldrian, E., 2012, BMKG Climate and Weather Services for Tourism sector, The International Workshop on Climate and Weather Information services for Adaptation and Mitigation in Transportation and Tourism, Jakarta, 15 – 16 May 2012
64. Aldrian, E., 2012, Climate change studies and downscaling activities in Indonesia, the Southeast Asian Regional Dynamical Climate Downscaling Workshop and Establishment of Southeast Asia Regional Climate Downscaling Collaborative Group, Hanoi 2-3 August 2012
65. Aldrian, E., 2012, Adaptation and Mitigation of Climate Change in Indonesia, International Fulbright and BPPT Symposium on Science and Technology The Role of Science and Technology in Climate Change and Disaster Mitigation and Adaptation Jakarta, 5 September 2012
66. Aldrian, E., 2012, Progress of climate change in Indonesia, International Seminar: Impact of Climate Change on Food Sovereignty and Community Welfare in Semi Arid Regions, Universitas Nusa Cendana, Kupang, 28-29 September 2012
67. Aldrian, E., 2012, Indonesia Meteo Climate Observations Framework (Ocean for Climate Prediction), 8th Annual Indonesia US Ocean and Climate analysis observation and Application partnership Meeting, Ministry of Fishery and Ocean affair KKP, Bogor 22 October 2012
68. Aldrian, E., 2012, Changing Climate in Indonesian water, Invited Speech Indonesia – USA Seminar. Changing Oceans, Changing Planet, US Embassy, Pacific Place Jakarta 24 October 2012
69. Aldrian, E., T. Takama, 2013, Vulnerability of Paddy production in Bali under Climatic Changes, The 4th International Conference on Sustainability Science in Asia, XIX International Conference of the Society for Human Ecology February 4-8, 2013, The Australian National University, Canberra Australia
70. Aldrian, E., 2013, BMKG Ocean Atmosphere products using NASA products, BMKG NASA cooperation talk, Jet Propulsion Laboratory Pasadena CA USA, 10 June 2013
71. Aldrian, E., 2013, BMKG Contributions in Carbon and Greenhouse Gasses Study, International Workshop on Ocean Carbon Cycle and Climate Change, Denpasar 7 November 2013, KKP

72. Aldrian, E., 2013, IPCC Guidelines for Agriculture, Forestry and Other land use, IPCC the 2013 Supplement to the 2006 Guidelines: Wetlands, Workshop Tropical Peatland, ICC IPB, 8 November 2013
73. Aldrian, E., 2013, Some Basic Concepts and Regional Changes of Climate, IPCC Outreach, Jakarta, 20 November 2013
74. Aldrian, E., 2013, A scientific view of global warming and its consequences, 9th Indonesian Palm Oil Conference and 2014 Price Outlook, GAPKI, 29 November 2013, Bandung
75. Aldrian, E., 2014, Development of Forest Fire Monitoring System in BMKG, Fires, Haze and Landscape Workshop, CIFOR Jakarta January 29, 2014
76. Aldrian, E., 2014, Vulnerability of paddy field in Bali under recent changes of climate, The Third International Workshop on Climatic Changes and Evaluation of their Effects on Agriculture in Asian Monsoon Region, GRENE – MEXT, Denpasar 17-19 March 2014

Adhoc Committee :

1. Kelompok Kerja Anomali Iklim Departemen Pertanian, Kep Menteri Pertanian 402/Kpts/OT.160/6/2006 tgl 6 Juni 2006
2. Kelompok Kerja Penyusunan Rancangan Undang Undang Meteorologi dan Geofisika, Keputusan Kepala Badan Meteorologi dan Geofisika SK.121/HK.601/KB/BMG-2007 tgl 5 Januari 2007
3. Kelompok Kerja Variabilitas dan Perubahan Iklim Pada Sektor Pertanian, Kep Menteri Pertanian 649/Kpts/OT.160/5/2008 tgl 26 Mei 2008
4. Kepala Bidang Kerjasama Dalam dan Luar Negeri Perhimpunan Meteorologi Pertanian Indonesia (PERHIMPI) 15 Januari 2008
5. Tim Pelaksana Kegiatan Konsorsium Penelitian dan Pengembangan Dampak Perubahan Iklim Global terhadap sector pertanian, SK Kepala Balai Besar Penelitian dan Pengembangan Sumberdaya Lahan Pertanian, No 321/OT.160/I.6/3/2008 tgl 6 Maret 2008
6. Tim Penyusun Pedoman Penilaian Risiko Bencana Alam, Keputusan Sekretaris Utama Badan Nasional Penanggulangan Bencana No SK.26/BNPB/VII/2008 tgl 10 Juli 2008

Dozen/Lecture Records :

1. Menjadi Dosen Luar Biasa Program magister Kelautan Universitas Indonesia Mata Kuliah Meteorologi Laut SK Dekan FMIPA UI tgl 17 Mei 2004 No 035/PT02.H6.FMIPA/C/2004
2. Menjadi Dosen Luar Biasa Program magister Kelautan Universitas Indonesia Mata Kuliah Meteorologi Laut SK Dekan FMIPA UI tgl 1 Mei 2005 No 013/PT02.H6.FMIPA/C/2005
3. Menjadi Dosen Luar Biasa Program magister Kelautan Universitas Indonesia Mata Kuliah Meteorologi Laut SK Dekan FMIPA UI tgl 1 Mei 2006 No 013/PT02.H6.FMIPA/C/2006
4. Menjadi Dosen Luar Biasa Program magister Kelautan Universitas Indonesia Mata Kuliah Meteorologi Laut SK Dekan FMIPA UI tgl 28 Maret 2007 No 21/PT02.H6.FMIPA/C/2007
5. Menjadi Dosen Luar Biasa Program magister Kelautan Universitas Indonesia Mata Kuliah Meteorologi Laut SK Dekan FMIPA UI tgl 10 Maret 2008 No 015/PT02.H6.FMIPA/C/2008
6. Menjadi Dosen Luar Biasa Program magister Kelautan Universitas Indonesia Mata Kuliah Meteorologi Laut SK Dekan FMIPA UI tgl 26 Mei 2009 No 08/PT02.H6.FMIPA/C/2009
7. Menjadi Dosen Luar Biasa Program Magister Agroklimatologi dan Klimatologi Terapan Mata Kuliah Analisis Perubahan Iklim Global 2006/2007 SK Dekan Sekolah Pasca Sarjana IPB tgl 22 September 2008 No 7236/I3.10/KP/2008
8. Menjadi Dosen Luar Biasa Program Magister Agroklimatologi dan Klimatologi Terapan Mata Kuliah Modifikasi Iklim dan Cuaca 2007/2008 SK Dekan Sekolah Pasca Sarjana IPB tgl 22 September 2008 No 7237/I3.10/KP/2008
9. Menjadi Dosen Luar Biasa Program Magister Agroklimatologi dan Klimatologi Terapan Mata Kuliah Hidrometeorologi Lanjut 2008/2009 SK Dekan Sekolah Pasca Sarjana IPB tgl 22 September 2008 No 7239/I3.10/KP/2008
10. Menjadi Dosen Luar Biasa Program Magister Agroklimatologi dan Klimatologi Terapan Mata Kuliah Analisis Sistem Hidrologi 2008/2009 SK Dekan Sekolah Pasca Sarjana IPB tgl 22 September 2008 No 7239/I3.10/KP/2008

11. Menjadi Dosen Luar Biasa Program Magister Agroklimatologi dan Klimatologi Terapan Mata Kuliah Analisis Perubahan Iklim Global 2008/2009 SK Dekan Sekolah Pasca Sarjana IPB tgl 22 September 2008 No 7239/I3.10/KP/2008

Interim Reports :

1. Pemakaian GIS (Geographics Information System) dalam menata lingkungan
2. Peralatan cuaca UPT Hujan Buatan di Kapal Baruna Jaya
3. Skenario kegiatan teknologi hujan buatan dalam RCTI, Rubric lembar wanita
4. Tutorial pemakaian teknologi radar cuaca bagi operasi hujan buatan
5. Interim Report: Penelitian di Max Planck Institute for Meteorology, Hamburg, Jerman
6. Laporan Kerjasama Riset Pemodelan Laut Atmosfir dengan IFM Universitas Hamburg "Coupled global and regional ocean model for Indonesia".
7. Laporan Survey Rencana Penerapan Teknologi Modifikasi Cuaca di DAS Riam Kanan Kalimantan Selatan (29 November – 3 Desember 2004)
8. Panduan Simulasi Sea-air interaction dengan couple regional climate model
9. Modul Tahapan menjalankan model iklim MM5

Consultancy Reports :

1. A Case of Suspected "Force Majeure" 28 October 2005, Climatology Analysis and Advisory Consultant Team, UPTHB – BPPT, submitted to PT Antam Tbk January 2007. Team leader
2. Laporan Studi Degradasi Lingkungan Danau dan Sungai Poso, LAPI ITB, submitted to PT Antam Tbk January 2007. Team leader
3. Pengkajian pemanasan global gas rumah kaca dan flux karbon di provinsi Lampung, tahun anggaran 2008. Team leader

Technical Cooperation as structural job

1. Indonesian Climate Change Trust Fund ICCTF, Penandatanganan Perjanjian kerjasama ini dilaksanakan 03 September 2010, dengan pelaksanaan kegiatan mulai dari tanggal 03 September 2010 – 31 Desember 2011. Sumber pendanaan dari perjanjian kerjasama ini adalah dari The United Nations Development Programme. SK Penunjukan sebagai NPD dengan surat No SK.174B/KP.003/SU/BMKG-2010 tanggal 6 Oktober 2010.
2. JICA 1, Penandatanganan RoD (Record of Discussion) antara BMKG dengan JICA untuk Sub Project 2 ini dilakukan pada tanggal 8 September 2010. Dan pada tanggal 26 Oktober 2010 penandatanganan RoD (Record of Discussion) antara BMKG dengan JICA untuk keseluruhan Umbrella Project. Kegiatan kerjasama ini mempunyai periode waktu 3 tahun (2011 – 2013). Tema kegiatan ini adalah Capacity Development for Vulnerability Assessment dalam hal pengembangan kapasitas dalam pembuatan peta kerentanan perubahan iklim dalam hal produksi padi di pulau Bali.
3. JICA 2, 11 Juli 2013 antara BMKG, KLH dan Bappenas dengan JICA dalam pengembangan agriculture insurance index. Kegiatan ini merupakan pengembangan kegiatan JICA sebelumnya mengenai Vulnerability assessment.
4. JICA 3 volcanic ash, tanggal 23 September 2013 antara BMKG, PVMBG, PusAir, UGM dan JICA tentang pengembangan SDM dalam penanganan bencana letusan gunung api Merapi di Jogjakarta.
5. JCP 1, tanggal 10 Juli 2009 antara BMKG, PusAir, KNMI dan Deltares (kedua terakhir dari Belanda) mengenai kerjasama dalam pengembangan sistim integrasi data dan informasi sumber daya air dalam hal banjir dan kekeringan dengan pengembangan Flood dan Drought Early Warning System.
6. JCP 2, tanggal 22 Nopember 2013 antara BMKG, PusAir, BPPT, BIG, Kemtan, KNMI, Deltares, ITC dan Alterra mengenai pengembangan lanjut sistim integrasi data dan informasi sumber daya air dan pengembangan kalendar tanam terpadu terintegrasi bagi petani dan kebencanaan.
7. JICA PU, tanggal 24 September 2013 antara JICA dan Kemen PU disaksikan oleh BMKG (dalam hal ini Kepala Pusat PIKU) mengenai kajian proyeksi iklim untuk DAS Musi dan DAS Brantas.

8. PT POS INDONESIA 1, Surat No PPK.01/POS/PIKU/D2-2012 tanggal 2 April 2012 antara Pusat PIKU BMKG dengan PT Pos Indonesia (PERSERO) mengenai pengiriman sample hasil observasi Kualitas Udara pada tahun anggaran 2012
9. PT POS INDONESIA 2, surat No 101/KPP/VI/BMKG-2013 tanggal 6 Mei 2013 antara Pusat PIKU BMKG dengan PT Pos Indonesia (PERSERO) mengenai pengiriman sample hasil observasi Kualitas Udara.
10. TADULAKO, surat No 248/KPP/X/BMKG-2011 tanggal 11 Oktober 2011 antara Pusat PIKU BMKG dan Balai Besar Taman Nasional Lore Lindu dalam hal pemeliharaan stasiun pengamat cuaca global (GAW) di Taman Nasional Lore Lindu.
11. NESO 1, Climate Change Mitigation and Adaptation Training merupakan pelatihan singkat Tailor-made yang diadakan oleh Wageningen University-Alterra, Belanda dan dibiayai oleh Nuffic Neso Indonesia melalui program StuNed Scholarship. Nuffic Neso adalah lembaga nirlaba (nonprofit) yang didirikan oleh Kementerian Pendidikan Belanda. Pelatihan berlangsung selama 1 bulan (2-27 Mei 2011) dengan peserta berjumlah 19 orang yang berasal dari BMKG pusat serta daerah.
12. NESO 2, Program Tailor Made Training dengan tema "Climate Change and Food Security in Indonesia" telah dijalani selama satu bulan (21 Januari – 15 Februari 2013) dengan memberangkatkan sebanyak 19 orang pegawai staf BMKG pusat serta daerah.
13. GIZ, Perjanjian tanggal 21 Februari 2012 Badan Meteorologi, Klimatologi dan Geofisika (Pusat Perubahan Iklim dan Kualitas Udara) bekerjasama dengan Deutsche Gesellschaft fur Internationale Zusammenarbeit (GIZ) GmbH dalam proyek Database for the Management of Information on Adaptation to Climate Change (DATACLIM). Pendanaan kerjasama ini berasal dari pemerintah Jerman dan berlaku dari tanggal penandatanganan nota kesepahaman sampai dengan bulan oktober 2013.
14. APN Cordex merupakan kerjasama yang digagas antara BMKG, UKM Malaysia, VU University Hanoi, PAGASA Filipina dan RU University Thailand dalam pembuatan Coordinated Downscaling Experiment Southeast Asia (SEA CORDEX) yang dibiayai oleh Asia Pacific Network on Global Change APN dan juga di recognize oleh World Meteorological Organization. Pertemuan diawali Agustus 2012 dan Kick off meeting di kantor BMKG Jakarta 21 November 2013.

Research Project (position as Project PI, otherwise other name mentioned) :

1. 1999 January-March and 1999 July-September: visiting scientist in Max Planck Institut fur Meteorologie, Germany, ECHAM-4 model validation on Indonesian rainfall data. **Funding:** the German Ministry of Research and Education (BMBF) **Project No:** INO-009-98 in collaboration with BPP Teknologi, Indonesia. **Reference:** Dr. L. Dümenil Gates.
2. March 20-June 18, 2004: visiting scientist in Institut für Meereskunde – Uni Hamburg, Germany, Further run with ocean atmospheric model for coupling processes preparation between a global and a regional ocean model for Indonesian area. **Funding:** Deutsche Forschungsgemeinschaft (DFG) **Project No:** GZ: 446 INS 112/1/04. **Reference:** Prof. Dr. J. Sündermann.
3. May 2004-May 2006. Indonesian smoke induced by drought episodes (INSIDE). **Funding:** the European Commission, Framework 6 ECO-ASIA **Project No:** ASIA Pro ECO-ASI/B7-301/2598/20-2004/79071 with a joint research between BPPT Indonesia, Max Planck Institut für Meteorologie of Germany and Univ. Cambridge UK. **Reference:** Prof. Dr. Hans Graf, Dr. Bärbel Langmann.
4. May 2005-September 2006. The Brantas Catchment Water and Carbon Cycle, **Funding:** Southeast Asia Regional Committee START, **Project No:** 94/01/CW-001. **Reference:** Prof. Chou Han Liu, <http://www.sarcs.org/new/initiated/SDI/sdi%20proposal.htm#top2>,
5. July 2006 – June 2009. LITHMOS (Long-term Indonesian THroughflow MOdel Simulation). **Funding:** Deutsche Forschung Gemeinschaft / Bundes Ministerium fur Zusammenarbeit (DFG/BMZ) **Project No:** DA 773/3-1, **Reference:** Dr. Peter Damm,
6. May 2006 – October 2007: Nutrient, sediment and water fluxes of Java river basins, **Funding:** Southeast Asia Regional Committee START, **Project No:** 95/01/CW-002. **Reference:** Prof. Cheng-Tung Arthur Chen, Prof. Hidayat Pawitan (Project PI)

7. May 2007 – October 2008: Water and Carbon Cycle under intensive Human and Peat influenced of Musi River, **Funding:** Southeast Asia Regional Committee START, **Project No:** 96/01/CW-003. **Reference:** Prof. Cheng-Tung Arthur Chen,
8. January 2007-December 2007. Study dampak perubahan iklim regional dan perubahan lingkungan di daratan terhadap lingkungan laut: wilayah studi perairan laut Jakarta, **Funding:** Program Kompetitif Lembaga Ilmu Pengetahuan Indonesia (LIPI) DAS JABOPUNCUR, **Project No:** 134.C/IPK.3/KS/2007. **Reference:** Dr. Yudawati Cahyarini (Project PI),
9. January 2008 – December 2008: The Musi River carbon, nutrient and sediment fluxes, **Funding:** International Foundation of Science, **Project No:** W/4375-1. **Reference:** Prof. Cheng-Tung Arthur Chen,
10. Indonesian Toray Science Foundation research grant 2007, Project title: The Indian Ocean role to the Indonesian regional climate paleo-perspective (co-researcher), Research grant of Competitive program Indonesian Institute of Sciences (LIPI) No: 11.03/SK/KPPI/ /2007 (co-researcher). **Reference:** Dr. Yudawati Cahyarini (Project PI),

Visiting Scientist – Post Doctoral :

1. 1 January-31 March 1999 and 1 July-20 September 1999: visiting scientist in Max Planck Institut fur Meteorologie, Germany, ECHAM-4 model validation on Indonesian rainfall data.
2. 20 March-June 18, 2004: visiting scientist in Institut für Meereskunde – Uni Hamburg, Germany, Further run with ocean atmospheric model for coupling processes preparation between a global and a regional ocean model for Indonesian area.
3. 18 May– 19 June 2004: INSIDE visiting scientist in Max Planck Institut für Meteorologie
4. 28 June– 4 September 2005: INSIDE visiting scientist in Max Planck Institut für Meteorologie
5. 18 February- 31 March 2006: INSIDE visiting scientist in Max Planck Institut fur Meteorologie
6. 3 Desember 2006-18 January 2007: visiting scientist in College of Marine Science, National Sun Yat Sen University, Kaohsiung Taiwan

Student Supervision – Bachelor degree :

1. Rusmawan Suwarman, ITB 2004, Sensitivitas ketersediaan air terhadap SST berdasarkan curah hujan dan evaporasi di Pulau Jawa.
2. Yudha Setiawan Djamil, ITB 2005, Analisa Spasial, temporal dan trend iklim DAS Brantas.
3. Gilang Satria Adhi Utama, ITB 2005, Studi seruak dingin (Cold Surge) selama periode musim dingin belahan bumi utara tahun 1995-2003
4. Fanida Ismaini, IPB 2006; Pergeseran Statistik Curah Hujan Ekstrim di Daerah Aliran Sungai (DAS) Brantas Jawa Timur
5. Sofyan Agus Salim, IPB 2007, Analisis Dampak Perubahan Tutupan Lahan Hutan Terhadap 4 Unsur Iklim di Kalimantan Menggunakan Model Iklim Regional REMO.
6. An-An Mustika, IPB 2008, Karakteristik Siklon Tropis sekitar Indonesia
7. Yetti Kusumayanti, IPB 2008, Variasi Spasial dan Temporal Hujan Konvektif di Pulau Jawa
8. Yanuar Murianto, IPB 2008, Sensitivitas Curah Hujan di Jawa Barat terhadap Suhu Permukaan Laut di Sekitarnya Menggunakan Model Iklim Regional
9. Radhita Purwangingtyas, IPB 2009, Analisis korelasi parsial Indian Ocean Dipole Mode (IODN) dan El Nino Southern Oscillation (ENSO) dengan curah hujan Indonesia
10. Wulan Seizarwati, ITB 2009, Simulasi Pengaruh Deforestasi dan Reforestasi Terhadap Perubahan Parameter Iklim Menggunakan Regional Model (REMO) (Studi Kasus: Pulau Kalimantan)
11. Muhshonati Syahidah, ITB 2012, Keterkaitan Borneo Vortex terhadap curah hujan di wilayah Indonesia bagian barat dan tengah

Student Supervision – Magister degree :

1. Kadarsah, ITB 2006, Studi pengaruh El Nino dan La Nina pada penyebaran asap kebakaran hutan
2. Arna Yulis, ITB 2006, Studi peran temperature permukaan laut terhadap penyebaran asap kebakaran hutan Indonesia
3. Jon Arifian, UI 2008, Variabilitas Thermohaline dan Arus Laut di Jalur Utama Arlindo
4. Ressay Oktivia, ITB 2008, studi interaksi laut-atmosfer menggunakan skenario model coupled

5. Pudji Setyani, IPB 2011, Analisis indeks dan tren curah hujan secara spasial dan temporal di pulau Jawa
6. Iksan Budi Wahyono, UI, 2011, Kajian Biogeokimia perairan Selat Sunda dan Barat Sumatera ditinjau dari pertukaran gas Carbondioksida (CO₂) antara laut dan udara
7. Alifi Maria Ulfa, ITB 2011, Identifikasi dampak El Nino terhadap tanaman pangan padi dan jagung di Indonesia
8. Ahmad Fachri Radjab, UI, 2011, Kolam hangat di Samudera Pasifik Barat dan Pengaruhnya terhadap Pertumbuhan Siklon Tropis
9. Ida Pramudawardhani, UI, 2012, Kajian El Nino modoki terhadap kejadian siklon tropis di samudera Pasifik Barat (120°–160°E, Ekuator – 20°N)
10. Mia Khusnul Khotimah, UI, 2012, Validasi model gelombang Windwave-5 dengan menggunakan hasil pengamatan satelit Altimetri Multimisi
11. Agustina Rachmawardani, UI, 2012, Perancangan Anemometer berbasis Mikrokontroller Atmega untuk pengukuran Turbulensi dan Analisa Potensi Angin
12. Supari, UGM, 2012, Spatiotemporal Characteristics of Extreme Rainfall Events over Java Island, Indonesia
13. Yopie Ilhamsyah, IPB, 2013, Study of Thermal Characteristics and Dynamics of Tropical Cyclone over Western North Pacific Ocean: Case Study of Typhoon Songda (Chedeng) 2011
14. Dewi Surinati, UI, 2013, Telekoneksi suhu permukaan laut perairan Indonesia dengan data buoy di Samudera Pasifik
15. Adi Ripadi, ITB 2013, Kajian Dampak Perubahan Iklim Terhadap Kesesuaian Agroklimat dan Produktivitas Tanaman Padi di Provinsi NTB Periode(2040-2069 Dan 2070-2099).
16. Yosafat Donni Haryanto, ITB 2014, Analisis perubahan awal musim hujan berdasarkan prediksi curah hujan untuk penentuan masa tanam dan produktivitas padi sawah tadah hujan di kabupaten Cianjur

Student Supervision – Doctoral degree :

1. Sutopo Purwo Nugroho, IPB 2010, Karakteristik Fluks Karbon sungai utama di Jawa
2. Yayan Apriyana, IPB, 2011, Penetapan kalender tanam padi berdasarkan fenomena ENSO (El Niño Southern Oscillation) dan IOD (Indian Ocean Dipole) di wilayah monsunal dan equatorial
3. Yunus Subagyo Swarinoto, IPB 2014, Model Sistim Prediksi Gabungan dengan Nilai Pembobot Untuk Total Hujan Bulanan Guna Menduga Nilai Kandungan Air Tanah Pada Pertanaman Padi
4. Erwin Syah Putra Makmur, IPB 2014, Pengembangan Model Teknik Prediksi Musim Hujan Menggunakan Prediktor Iklim Global dan Regional untuk Mendukung Produktivitas Tanaman Padi di Wilayah Sentra Produksi Jawa Barat.

Student Thesis Reviewer

1. Ester Salimun, Magister Thesis, Universiti Kebangsaan Malaysia, 2007
2. Ina Juaeni, Doctoral Dissertation, ITB, 2008
3. Sri Woro B Harijono, Doctoral Dissertation, ITB, 2008
4. Sutikno, Doctoral Dissertation, IPB, 2008
5. Widada Sulistya, Doctoral Dissertation, Undip, 2009
6. Sow Khai Shen, Magister Thesis, Universiti Kebangsaan Malaysia, 2010
7. Wan Ahmad Ardie, Magister Thesis, Universiti Kebangsaan Malaysia, 2011
8. Low Wei Tian, Magister Thesis, Universiti Kebangsaan Malaysia, 2011
9. Yusuf Awaluddin, Magister Thesis, Flinders University Australia, 2011
10. Ahmad Fairudz Jamaluddin, Magister Thesis, Universiti Kebangsaan Malaysia, 2011
11. How Wah Shin, Magister Thesis, Universiti Kebangsaan Malaysia, 2013
12. Jong Choong Shyr, Magister Thesis, Universiti Kebangsaan Malaysia, 2014

Media Programme :

1. MetroTV, 13 March 2007, Programme Breakfast Club, Theme Climate Change
2. RRI Programma 2, 21 June 2007 Programme Iptek Voice, theme Global Warming

3. RRI Programma 3, 9 August 2007, Programme Tanah Airku, Theme Weather Modification Technology and drought
4. RRI Programma 2, Programme Iptek Voice, 2 Oktober 2007, theme Posisi emisi karbon Indonesia
5. SwaraTV, 13 October 2007, Q TV 12 October 2007, Q TV 14 October 2007, Info sudut Bidik Iptek, theme Global Warming: Indonesia emitter ketiga dunia?
6. Bahana FM, 5 May 2009, Program Iptek Voice, Laut dan Perubahan Iklim
7. Bahana FM, 8 September 2009, Program Iptek Voice, Fenomena El Nino
8. TVRI, 24 October 2009, Iptek Talk, theme Global Warming
9. TVRI, 21 Desember 2009, Dialog Interactive, Hasil KTT Perubahan Iklim Kopenhagen
10. ANtv, 28 Desember 2009, Terawang 2010 dengan mama Laurent
11. MetroTV, 23 March 2010, Metro Pagi News, Perubahan Iklim dan ancaman banjir
12. MetroTV, 22 May 2010, Metro Pagi News, Puncak salju gunung Cartenz
13. TVRI, 29 July 2010, Selamat pagi Nusantara, Pesisir dan Perubahan Iklim
14. RCTI, 9 August 2010, Kabar Kabar, Hujan merah di India
15. TV1, 13 August 2010, Berita Petang, Cuaca Ekstrem akibat La Nina
16. TVRI, 16 Oktober 2010, IptekTalk: Standarisasi dalam Perubahan Iklim
17. TVRI, 1 January 2011, Bincang bincang malam, Anomali Iklim dan Produktivitas Pertanian

Computer Ability :

- Platforms : IBM PC, Macintosh, UNIX operating system (Linux, Sun Solaris, HP, Dec Alpha, Free BSD etc)
- Languages: C, Fortran basic, assembler.