

# DAFTAR RIWAYAT HIDUP



## 1. Data Pribadi

Nama : Fadli Syamsudin  
Jenis Kelamin : Laki-laki  
Pekerjaan/Jabatan : Badan Pengkajian dan Penerapan Teknologi (BPPT)/  
Fungsional Peneliti Ahli Utama (Professor Riset)  
Pangkat/Golongan : Pembina Utama/IVe  
Alamat : Jl. Salemba Bluntas C216, Jakarta Pusat

## 2. Riwayat Pendidikan

- Strata-1 (Ir), Fisika Oseanografi, ITB, Bandung, 1993.
- Strata-2 (MSc.), *Numerical Ocean Modeling*, Rutgers University, Amerika Serikat, 2001.
- Strata-3 (Dr), *Ocean-Atmosphere Social Environment*, Hiroshima University, Jepang, 2005.
- Paska Doktoral, the *Royal Netherland Institute for Sea Research (NIOZ)*, Belanda, 2006.
- *Fulbright Senior Research Scholar*, mengembangkan *Ocean Acoustic Tomography* di Universitas Hawaii, Amerika Serikat, 2016.

## 3. Pengalaman Kerja

- Peneliti Ahli Utama BPPT bidang interaksi laut dan atmosfer di Benua Maritim Indonesia, (Oktober 2012 s/d sekarang).
- Koordinator proyek SATREPS MCCOE JST-JICA, *Climate Variability over Indonesia Maritime Continent*, kerjasama BPPT dan *Japan Marine-Earth Science and Technology Center (JAMSTEC)*, Jepang (2010 – 2014).
- Koordinator proyek HARIMAU (*Hydrometeorological array Intraseasonal Variation Automonitoring Monsoon*), kerjasama BPPT dan *Japan Marine-Earth Science and Technology Center (JAMSTEC)*, Jepang (2006 – 2010).
- Ketua Tim Aplikasi Teknologi Akustik Tomografi Laut untuk deteksi penyusupan kapal

selam asing di wilayah Indonesia. Program dibentuk oleh Deputi Kedaulatan Kementerian Koordinator Bidang Kemaritiman (Kemenkomar), Anggota Tim: BPPT, ITB, ITS, IPB, Pushidrosal dan Balitbang TNI AL. (2017 s/d 2019).

- Memimpin ekspedisi kelautan internasional antara BPPT dan Universitas Tokyo, Jepang pada penelitian *microstructure* di perairan Indonesia bagian timur menggunakan kapal riset Hakuhomaru (Februari s/d Maret 2019).
- Memimpin ekspedisi kelautan internasional (Indonesia, Jepang dan Amerika Serikat) dalam rangka studi interaksi laut dan atmosfer Benua Maritim Indonesia menggunakan Kapal Riset MIRAI milik pemerintah Jepang, (Januari s/d Februari 2018).
- Memimpin ekspedisi kelautan setiap tahun dalam rangka studi *Tropical Ocean Climate Study (TOCS)* di perairan tropis Pasifik barat utara Papua menggunakan Kapal Riset Mirai dan Kaiyo milik pemerintah Jepang. Kerjasama BPPT dan JAMSTEC, Jepang. (2007 s/d 2015).
- Memimpin ekspedisi kelautan nasional di perairan Indonesia menggunakan Kapal Riset Baruna Jaya 1, 2, dan 4 milik BPPT. Dalam rangka inventarisasi sumberdaya laut Indonesia. (1994 s/d 1996).

#### **4. Keterlibatan Dalam Program Internasional**

- Salah seorang pemrakarsa program *Year of Maritime Continent (YMC)* 2017 – 2019 yang diikuti oleh negara Amerika Serikat, Inggris, Jepang, Australia, Malaysia, Filipina dan Indonesia. Terkait dengan ini telah memimpin penelitian bersama JAMSTEC, Jepang dalam program Pre-YMC 2015 dan YMC 2017 di Perairan Bengkulu barat sumatera untuk melihat pengaruh interaksi laut atmosfer terhadap curah hujan ekstrem.
- Mendapatkan dana penelitian *Japan Society for the Promotion of Science (JSPS)* bekerja sama dengan Prof. Toshiyuki Hibiya, di *Graduate School of Science*, Universitas Tokyo, Jepang, untuk melakukan penelitian struktur mikro bawah permukaan perairan laut Halmahera dan Sulawesi, dan Selat Makassar (2018-2020).
- Mendapatkan dana penelitian dari pemerintah Australia untuk studi interaksi laut dan atmosfer di perairan selatan kepulauan Indonesia dalam rangka YMC bersama Biro Meteorologi Australia menggunakan Kapal Riset Investigator milik pemerintah Australia. (2019 – 2021).
- Peneliti Tamu di Universitas Tokyo (Februari s/d Maret 2020).
- Peneliti Tamu di *Japan Marine-Earth Science and Technology Center (JAMSTEC)*, Yokosuka Jepang (Setiap musim dingin 2005 s/d 2016).

- Peneliti Tamu di *Institute of Marine and Coastal Science (IMCS)*, Rutgers University, Amerika Serikat. Mitra Prof. Dale Haidvogel (2003).
- Peneliti Tamu di *Scripps Institute of Oceanography (SIO)*, Universitas California San Diego, Amerika Serikat. Mitra Dr. Janet Sprintall (1997).

## 5. Seminar dan Konferensi Internasional

- *Invited speaker on the Kickoff AsiaPEX Conference*, Hokkaido University, Jepang, 26-29 Agustus, 2019.
- *Invited speaker pada International Post-MAHASRI Planning Workshop*, Tokyo Metropolitan University, Tokyo, 15-18 Maret, 2018.
- *Invited speaker pada International Council for Science (ICSU): Sustainability Initiative in the Marginal Seas of South and East Asia (SIMSEA) Scoping Workshop*, Manila - Filipina, 19 - 20 November 2014.
- Delegasi Indonesia pada pertemuan *GREEN-CAAM, Green Network of Excellence (GREEN) The Fifth International Workshop on Climate Changes and Their Effects on Agriculture in Asian Monsoon Region (CAAM)*, Fukushima Agricultural Research Center - Jepang, 6-8 Maret, 2016.
- Delegasi Indonesia pada *International Science Conference on MAHASRI*, Tokyo Metropolitan University, Jepang, 2 – 4 Maret, 2016.
- Ketua Panitia pada pertemuan 13<sup>th</sup> PAMS/JECS Workshop, Bali, Indonesia, Juli 2005.
- Delegasi Indonesia pada *Sustainable Environment Workshop of the South-East Asia Internasional - Global Change Research Center*, National Taiwan University, Taipei - Taiwan, 13 – 23 November 2015.
- Perwakilan Indonesia pada meeting *Fourth Session of Indian Ocean Panel (CLIVAR program)*, Pretoria, Afrika Selatan, 23 – 25 April 2007.
- *Invited Speaker pada The Second GEOSS AsiaPacific Symposium: The Role of Earth Observation Tackling Climate Change*, the National Museum of Emerging Science and Innovation, Tokyo, Jepang, 14-16 April 2008.
- Ketua Panitia dan Perwakilan Indonesia pada *The Fifth Session of Indian Ocean Panel meeting (CLIVAR program)*, Bali, 12-14 Mei, 2008.
- Ketua Panitia pada pertemuan “BPPT – JAMSTEC Workshop on Moored Buoy in the Indo-Pacific Region: Climate Research and Its Social Benefits”, Jakarta, 28-29 Juli, 2008.
- *Invited Speaker pada Simposium Pasifik: “Pacific The Third GEOSS Asia Data Sharing for*

- a Transverse GEOSS*”, Kyoto Research Park, Kyoto, Jepang, 4 Februari 2009.
- *Invited Speaker* pada Simposium “*The Fourth GEOSS Asia Pacific: Climate and Biodiversity*, Bali, 10 – 12 Maret, 2010.
- Perwakilan Indonesia pada pertemuan “*CLIVAR/IOGOOS/IRF/SIBER Indian Ocean*. Perth, Australia, 12-16 Juli 2010.
- *Invited Speaker* pada konferensi International “*Role of Indo- Pacific Oceans in Climate Change and Variability in Commemoration of 50<sup>th</sup> Anniversary of IOC/UNESCO, International Conference Hall, United Nations University Tokyo, Japan. 2 December 2010.*

## 6. Publikasi Internasional

- Hanifa, A. D., Syamsudin, F., Zhang, C., Mutsuda, H., Chen, M., Zhu, X. H., ... & Gohda, N. (2020). Tomographic measurement of tidal current and associated 3-h oscillation in Bali Strait. *Estuarine, Coastal and Shelf Science*, 236, 106655.
- Syamsudin, F., Taniguchi, N., Zhang, C., Hanifa, A. D., Li, G., Chen, M., ... & Kaneko, A. (2019). Observing Internal Solitary Waves in the Lombok Strait by Coastal Acoustic Tomography. *Geophysical Research Letters*.
- Kashino, Y., Hasegawa, T., Syamsudin, F., & Ueki, I. (2019). Temperature and salinity variability at intermediate depths in the western equatorial Pacific revealed by TRITON buoy data. *Journal of Oceanography*, 1-19.
- Taniguchi, N., Kida, S., Sakuno, Y., Mutsuda, H., & Syamsudin, F. (2019). Short-Term Variation of the Surface Flow Pattern South of Lombok Strait Observed from the Himawari-8 Sea Surface Temperature. *Remote Sensing*, 11(12), 1491.
- Yokoi, S., Mori, S., Syamsudin, F., Haryoko, U., & Geng, B. (2019). Environmental Conditions for Nighttime Offshore Migration of Precipitation Area as Revealed by In Situ Observation off Sumatra Island. *Monthly Weather Review*, 147(9), 3391-3407.
- Yamanaka, M. D., Ogino, S. Y., Wu, P. M., Jun-Ichi, H., Mori, S., Matsumoto, J., & Syamsudin, F. (2018). Maritime continent coastlines controlling Earth’s climate. *Progress in Earth and Planetary Science*, 5(1), 21.
- Mori, S., Hamada, J. I., Hattori, M., Wu, P. M., Katsumata, M., Endo, N., Syamsudin, F., ...& Lestari, S. (2018). Meridional march of diurnal rainfall over Jakarta, Indonesia, observed with a C-band Doppler radar: an overview of the HARIMAU2010 campaign. *Progress in Earth and Planetary Science*, 5(1), 47.

- Suzuki, K., Nakagawa, K., Kawano, T., Mori, S., Katsumata, M., Syamsudin, F., & Yoneyama, K. (2018). Videosonde-observed graupel in different rain systems during Pre-YMC project. *SOLA*, 14, 148-152.
- Wu, P., Mori, S., & Syamsudin, F. (2018). Land-sea surface air temperature contrast on the western coast of Sumatra Island during an active phase of the Madden-Julian Oscillation. *Progress in Earth and Planetary Science*, 5(1), 4.
- Chen, M., Syamsudin, F., Kaneko, A., Gohda, N., Howe, B. M., Mutsuda, H., ... & Zhu, X. (2018). Real-time offshore coastal acoustic tomography enabled with mirror-transpond functionality. *IEEE Journal of Oceanic Engineering*.
- Syamsudin F., Minmo C., A. Kaneko, J. C. Walls, Y. Xua, (2017), Profiling Measurement of Internal tides in the Bali Strait by Reciprocal Sound Transmission, *The Journal of The Acoustical Society of America*.
- Halda A.B., Ichianagi K., Tanoue M., Suwarman R., Yoshimura K., Mori S., Kurita N., Yamanaka M., Syamsudin F., (2016), Intraseasonal Variability of  $\delta^{18}O$  of Precipitation over the Indonesian Maritime Continent Related to the Madden-Julian Oscillation, *Scientific Online Letters on the Atmosphere (SOLA) - The Meteorological Society of Japan* Vol. 12, 192–197.
- Horii T., Ueki I., Syamsudin F., Sofian I., Ando K., (2016), Intraseasonal coastal upwelling signal along the southern coast of Java observed using Indonesian tidal station data, *Journal of Geophysical Research- Oceans - American Geophysical Union*, Vol. 121 Issue 4, 2690 – 2708.
- Lestari S., Hamada J., Syamsudin F., Sunaryo, Matsumoto J., Yamanaka M., (2016), ENSO Influences on Rainfall Extremes around Sulawesi and Maluku Islands in the Eastern Indonesian Maritime Continent, *Scientific Online Letters on the Atmosphere (SOLA) - The Meteorological Society of Japan*, Vol. 12, 37–41.
- Syamsuddin M., Saitoh S., Hirawake T., Syamsudin F., Zainuddin M., (2016), Interannual Variation of Bigeye Tuna (*Thunnus Obesus*) Hotspot in The Eastern Indian Ocean of Java; *International Journal of Remote Sensing - Ocean Remote Sensing for Sustainable Resources* Taylor & Francis Online, Vol 37 Issue 9, 2087 – 2100.
- Lestari S., Moersidik S.S., Syamsudin F., (2015), Study on Heat Island Effect Induced by Land Use Change Increased Temperature in Metropolitan Jakarta, *Journal of Mathematical and Fundamental Sciences - ITB Journal Publisher*, Vol. 47, No.2, 126 – 142.
- Iskandar I., Mardiansyah W., Setiabudidaya D., Poerwono P., Syamsudin F., (2015), Interannual variation of the Indonesian throughflow in the Timor Passage as revealed in

- SODA: 1958 – 2008, *AIP Conference Proceedings* - AIP conf. Proc. 1677, AIP Publishing LLC, New York, 060003-1-- 060003-5.
- Sulistyowati R., Hapsari R.I., Syamsudin F., Mori S., Oishi S.T, Yamanaka M., (2014), Rainfall-Driven Diurnal Variations of Water Level in the Ciliwung River, West Jawa, Indonesia; *Scientific Online Letters on the Atmosphere (SOLA)* - The Meteorological Society of Japan, Vol. 10, Hal 141–144.
  - Iskandar I., Masumoto Y., Mizuno K., Sasaki H., Affandi A.K., Setiabudidaya, SyamsudinF.,(2014), Coherent intraseasonal oceanic variations in the eastern equatorial Indian Ocean and in the Lombok and Ombai Straits from observations and a high-resolution OGCM, *Journal Geophysical. Research.*Vol. 119 Issue 2, 615 - 630, doi:10.1029/2013JC009592.
  - Syamsudin, F. and A. Kaneko (2013), Ocean variability along the southern coast of java at the lesser Sunda islands, *Journal of Oceanography*,Vol. 69, No.5, 557– 579.
  - Kubota H., Shirooka H., Hamada J, and Syamsudin F., (2011), Interannual Rainfall Variability over the Eastern Maritime Continent, *Journal the Meteorological Society of Japan*, Vol. 89A, 111 – 122.
  - Syamsudin F, Aken H., Kaneko A., (2010), Annual Variations of the Southern Boundary Current in the Banda Sea, *Journal of Dynamics of Atmosphere and Oceans*,Vo l. 50, Issue 2, 129 – 139.
  - Syamsudin F, KanekoA., Haidvogel D.B., (2004), Numerical and observational estimates of Indian Ocean Kelvin waves intrusion into Lombok Strait, *Geoph. Res. Lett.*, 31, L24307.
  - Molcard R., Fieux M., and Syamsudin F., (2001), The Throughflow within Ombai Strait, *Deep Sea Research Part I*, 48, 1237-125.

## **7. Pembinaan Kader Ilmiah**

- Tenaga pengajar (dosen) di Program Doktor Fakultas Ilmu Kelautan dan Perikanan IPB dengan mata kuliah “*Waves and Current in the Equatorial Indonesian Maritime Continent*”.
- Tenaga pengajar (dosen) di Program Master in IT for *Natural Resources Management* IPB dengan mata kuliah “*Modeling in Natural Resources Accounting*”.
- Tenaga pengajar (dosen) di Program Master Ilmu Lingkungan Universitas Udayana Bali, dengan mata kuliah “*Oceanography in the Indonesian seas and Marine Instruments*”.
- Tenaga pengajar (dosen) di Program Strata 1, Fakultas Perikanan dan Ilmu Kelautan UNPAD, Jatinangor, dengan mata kuliah “Meteorologi Laut”.

- Membimbing Mahasiswa Program Doktor, Master, dan Sarjana di Fakultas Ilmu Kelautan dan Perikanan IPB, Program Meteorologi IPB; Ilmu Kelautan UI, Ilmu Lingkungan UI, ilmu Geografi UI; ITB; Ilmu Kelautan dan Perikanan UNPAD; Ilmu Kelautan UNDIP; UNIBRAW; Ilmu Kelautan Universitas Hangtuah.

## **8. Keanggotaan Organisasi**

- Anggota tim pembentukan Universitas Maritim Indonesia (UNMARI) yang diprakarsai Kemenkomar (2019 s.d sekarang).
- Anggota Dewan Hidrografi Indonesia (2017 s/d sekarang).
- Anggota Ikatan Sarjana Oseanografi Indonesia (2006 s/d sekarang).
- Anggota *Indian Ocean Panel of CLIVAR* (2006 – 2010).
- Perwakilan Indonesia pada “*International Task Team for GEOSS-Asian Water Cycle Initiative (AWCI)*” (2006 s/d 2014).
- Anggota *American Society of Acoustic* (2016 s/d sekarang).
- Anggota *American Geophysical Union* (2004 s/d sekarang).

## **9. Tanda Jasa/Penghargaan**

- Tanda kehormatan “Satya Lancana Karya Satya XX”, 19 Juni 2015.
- Tanda kehormatan “Satya Lancana Pembangunan”, 23 Juli 2007.
- Tanda Kehormatan “Satya Lancana Karya Satya X”, 10 Agustus 2006.
- Bintang Jasa Nararya dari Presiden Indonesia, atas prestasi sebagai orang Indonesia pertama melakukan riset di Benua Antartika, 16 Agustus 1997.