Curriculum Vitae

PERSONAL DATA

Name: Severino G. Salmo III
Language Spoken: English, Filipino, and Ilocano
Telephone No.: +63-998-5796028 (mobile)
E-mail: sgsalmo@up.edu.ph

ACADEMIC BACKGROUND

Post-Graduate: Post-doctoral (April – December 2019)
University of the Ryukyus – Tropical Biosphere Research Center
Okinawa, Japan

Ph.D. Biological Science (August 2007 – August 2011)
School of Biological Sciences
The University of Queensland, Brisbane QLD 4072 Australia
Thesis: "Early Post-Typhoon Effects on the Restoration Trajectory of Planted Mangroves: Implications for Forest Development and Macrofaunal Communities"

SELECTED RESEARCH/PROJECTS

Title: Assessment and Comparison of Recovery of Biodiversity and Carbon Sequestration in Philippine Mangroves Among Natural, Replanted, and Naturally-recolonized Mangrove Stands
Duration: January 2022 – April 2024
Funding: USAID PEER Science, USA
Position: Principal Investigator

Title: Integrated Network-based Management for SEA Coasts (InMSEA)
Duration: February 2022 – April 2023
Funding: DOST-PCIEERD
Position: Project Leader

RECENT AWARDS/GRANTS

- Grantee (UPFI Professorial Chairs and Faculty Grants): September 2021 and 2023
- Awardee (Dr. Elvira O. Tan Award Outstanding Published Paper – Natural Resources and Environment): November 2021 and June 2019. Department of Science and Technology – Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development, Republic of the Philippines.
- Awardee (Outstanding Scientific Publication – Biological Science): July 2020. National Academy of Science and Technology, Republic of the Philippines.
- Awardee (Outstanding Scientific Publication – Biological Science): July 2016. National Academy of Science and Technology, Republic of the Philippines.
- Awardee (National Environmental Scientist): April 2015. National Academy of Science and Technology, Republic of the Philippines.

WORK EXPERIENCES/CONSULTANCIES

Associate Professor (August 2020 – present)
Institute of Biology
College of Science
University of the Philippines Diliman
1101 Quezon City

Assistant Professor (November 2011 – July 2020)
Chairperson (April 2015 – December 2016)
Associate Chairperson (June 2013 – March 2014)
Officer-in-Charge (April - May 2014)
System Administrator (June 2014 - March 2015)
Department of Environmental Science
School of Science and Engineering
Ateneo de Manila University, Loyola Heights
1108 Quezon City

SELECTED PUBLICATIONS

Salmo, S.G. III, R.A. Mackenzie, K. Analuddin, and S. Sharma (eds.), 2024. The mangroves of Southeast Asia in the United Nation's decade on ecosystem restoration. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-8325-4384-9.

Corcino, R.C.B., M.E.B. Gerona-Daga, S.C. Samoza, J.K. Fraga, and **S.G. Salmo III**, 2023. Status, limitations, and challenges of blue carbon studies in the Philippines: A bibliographic analysis. Regional Studies in Marine Science 62: 102916, doi: 10.1016/j.rsma.2023.1029

Wee, A.K.S., **S.G. Salmo III,** K. Sivakumar, A.Y-H Then, et al. 2023. Prospects and challenges of environmental DNA (eDNA) metabarcoding in mangrove restoration in Southeast Asia. Frontiers in Marine Science 10: 1033258, doi: 10.3389/fmars.2023.1033258.

Gerona-Daga, M.E.B., and **S.G. Salmo III**, 2022. A systematic review of mangrove restoration studies in Southeast Asia: Challenges and opportunities for the United Nation's Decade on Ecosystem Restoration. Frontiers in Marine Science 9: 987737, doi: 10.3389/fmars.2022.987737

Delos Santos, K.A., R. Avtar, **S.G. Salmo III,** and M. Fujii, 2022. Assessment of mangrove colonization of aquaculture ponds through satellite image analysis: Implications for mangrove management. In Dasgupta, R., S. Hashimoto, and O. Saito (eds.), Assessing, Mapping and Modelling of Mangrove Ecosystem Services in the Asia-Pacific Region. Springer Singapore, https://doi.org/10.1007/978-981-19-2738-6

Reyes, A.G.B., M.C.S. Vergara, A.C. Blanco, and **S.G. Salmo III**, 2022. Seagrass biomass and sediment carbon in conserved and disturbed seascape. Ecological Research 37(1): 67-79.

Salmo, S.G. III, D.T. Gevaña, S.Z.B. Halun, J.A.A. Castillo, E.A. Nuñez Jr., M.J.M. Pangilinan, N.M.G. Follosco, A.P. Andres and N.S. Baling, 2021. Revisiting learnings and envisioning Philippine mangroves in 2030: Proceedings of the 1st National State of the Mangrove Summit. Conservation International – Philippines, Quezon City. 188 pp.

Martinez, K.P., D.F.M. Burgos, A.C. Blanco and **S.G. Salmo III**, 2021. Multi-sensor approach to leaf area index estimation using statistical machine learning models: A case on mangrove forests. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences 3: 243-250. Copernicus GmbH

Cabello, K.E., M.Q. Germentil, A.C. Blanco and **S.G. Salmo III**, 2021. Post-disaster assessment of mangrove forest recovery in Lawaan-Balangiga, Eastern Samar using NDVI time series analysis. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences 3: 243-250. Copernicus GmbH

Salmo, S.G. III, 2021. Assessment of typhoon impacts and post-typhoon recovery in Philippine mangroves: lessons and challenges for adaptive management (pp. 539-562). *In*: Sidik, F. and Friess, D. (eds.). Dynamic sedimentary environments of mangrove coasts. Elsevier.

Salmo, S.G. III and J.C. Altomonte, 2020. Inferences on the role of coral bleaching or seasonality on cross-habitat movement of nekton assemblages in adjacent coral reef, seagrass, and mangrove habitats. Bulletin of Marine Science 96(3): 431-448, doi: 10.5343/bms.2019.0024

Salmo, S.G. III, I. R. Tibbetts and N.C. Duke, 2019. Recolonization of mollusc assemblages in mangrove plantations damaged by Typhoon Chan-hom in the Philippines. Estuarine, Coastal and Shelf Science 228: 10635.

Salmo, S.G. III, V. Malapit, M.C.A. Garcia and H.M. Pagkalinawan, 2019. Establishing rates of carbon sequestration in mangroves from an earthquake uplift event. Biology Letters 15: 20180799, doi: 10.1098/rsbl.2018.0799

Dicen, G.P., I.A. Navarrete, R.V. Rallos, **S.G. Salmo III** and M.C.A. Garcia, 2019. The role of reactive iron in long-term carbon sequestration in mangrove sediments. Journal of Soils and Sediments 19(1): 501-510.

Castillo, J.A.A., A.A. Apan, T.N. Maraseni, and **S.G. Salmo III**, 2018. Tree biomass quantity, carbon stock and canopy correlates in mangrove forest and land uses that replaced mangroves in Honda Bay, Philippines. Regional Studies in Marine Science 24: 174-183.

Salmo, S.G. III, I. Tibbetts and N.C. Duke, 2018. Nekton communities as indicators of habitat functionality in Philippine mangrove plantations. Marine and Freshwater Research 69(3): 477-485, doi: 10.1071/MF17116.

Castillo, J.A.A., A.A. Apan, T.N. Maraseni and **S.G. Salmo III**, 2017. Estimation and mapping of above-ground biomass of mangrove forests and their replacement land uses in the Philippines using Sentinel imagery. ISPRS Journal of Photogrammetry and Remote Sensing 134: 70-85.

Castillo, J.A.A., A.A. Apan, T.N. Maraseni and **S.G. Salmo III**, 2017. Soil greenhouse gas fluxes in tropical mangrove forests and in land uses on deforested mangrove lands. CATENA 159: 60-69, doi: 10.1016/j.catena.2017.08.005

Castillo, J.A.A., A.A. Apan, T.N. Maraseni and **S.G. Salmo III**, 2017. Soil C quantities of mangrove forests, their competing land uses, and their spatial distribution in the coast of Honda Bay, Philippines. Geoderma 293: 82-90, doi: 10.1916/j.geoderma.2017.01.25

Salmo, S.G. III, I. Tibbetts and N.C. Duke, 2017. Colonization and shift of mollusc assemblages as a restoration indicator in planted mangroves in the Philippines. Biodiversity and Conservation 26: 865-881, doi: 10.1007/s10531-016-1276-6

Gabriel, A.V.G. and **S.G. Salmo III,** 2014. Assessment of trace metal bioaccumulation by *Avicennia marina* (Forsk.) in the last remaining mangrove stands in Manila Bay, the Philippines. Bulletin of Environmental Contamination and Technology 93: 722-727. doi: 10.1007/s00128-014-1415-2.

PROFESSIONAL SOCIETY/NETWORK

- Associate Editor in Frontiers in Marine Science (Global Change and the Future Ocean Division; May 2018 – present). Lausanne, Switzerland.
- Society for Ecological Restoration (International and Australasia Chapter), Washington DC 20001, USA (2013 – present).
- The Society for Coastal Ecosystems Studies – Asia Pacific (SCESAP), Kyushu University, Amakusa, Japan
- FORD Foundation – International Fellows Association; New York, U.S.A.
- Philippine Association of Marine Science (PAMS); Treasurer (November 2013 – October 2015); U.P. Marine Science Institute, Diliman, Quezon City

SPECIAL SKILLS

- ***Field of Specialization: Restoration Ecology and Management of Mangroves***
- Other areas of interest: Marine ecology; Plant ecology; Integrated/Participatory Coastal Zone Management; Marine Protected Area Planning and Management; Coastal Development Planning; Environmental Education; Strengthening/Capability Building of Stakeholders for Coastal Management