



PhD supervisor



Prof. Doctor Nguyen Ky Phung

University of Natural Resources and Environment
Ho Chi Minh City, Vietnam

Language(s): English, Russian, Vietnamese

Office postal address: 236 B Le Van Sy Street, Ward 1, Tan Binh District, Ho Chi Minh City, Vietnam

Phone number: +84 (0) 90827 5939

E-mail: nkphung@hcmunre.edu.vn

Profession: Head, Faculty of Marine Resources Management Ho Chi Minh City University of Natural Resources and Environment, Ministry of Natural Resources and Environment.

Potential areas for PhD supervision:

- Monitoring in Hydrology and Environment
- Hydrodynamic in river estuary and sea
- Modeling sediment transportation in river and coastal area (waves, tides, distribution of salt)
- Modeling and forecasting the distribution of pollution
- Climate change
- Environment

Supervising experience:

- 10 PhD students
- 38 MSc students

Employment history in last 5 years:

- Ho Chi Minh City University of Natural Resources and Environment, Vietnam

Education – since bachelor degree:

- M Sc. in Oceanography, St Petersburg Hydro-meteorological University, Russia, 1990.
- Ph.D. in Oceanography, St Petersburg Hydro-meteorological University, 1993.
- B Sc. in Economics, Leningrad University, Russia, 1993.
- Post Doctorate in Russian state Hydro-meteorological Institute, 1997.

Selected recent papers:

1. Nguyen Ky Phung et al, Spatiotemporal Trend Analysis of Precipitation Extremes in Ho Chi Minh City, Vietnam During 1980–2017, International Journal of Disaster Risk Science, Vol.12(1), 131-146 (Feb, 2021) (English). (ISI, IF: 2.048)
2. Nguyen Ky Phung et al, Research on flow regime at Doi Duong beach, Binh Thuan Province, Vietnam Journal of Hydro-Meteorological, Vol 723: 58-74, (2021). (Vietnamese)



PhD supervisor

3. Nguyen Ky Phung et al, Responses of river discharge and sediment load to climate change in the transboundary Mekong River Basin, *Water and Environment Journal*, Vol.34, pp.367-380, (Dec 2020) (English). (ISI, IF: 1.426))
4. Nguyen Ky Phung et al, Evaluating the urban adaptive capacity to climate change in Ho Chi Minh City, *Vietnam Journal of Hydro-Meteorological*, Vol 713: 11-23, (2020) (Vietnamese)
5. Nguyen Ky Phung et al, Precipitation scenarios in Tay Ninh province in the context of climate change, *Vietnam Journal of Hydro-Meteorological*, Vol 709: 33-42, (2020) (Vietnamese)
6. Nguyen Ky Phung et al, Temperature scenarios in Tay Ninh province in the context of climate change, *Vietnam Journal of Hydro-Meteorological*, Vol 710: 58-69, (2020) (Vietnamese)
7. Nguyen Ky Phung et al, Evaluation of the effects of climate change to water demand for agriculture in Da Lat city, Lam Dong Province, *Vietnam Journal of Hydro-Meteorological*, Vol 4(4), p. 23-30. (2020). (English)
8. Nguyen Ky Phung et al, Current status of knowledge, awareness, attitudes and behaviours of high school students on sustainable consumption, *Journal of Science and Technology*, Vol 62 (4) p.24-27, (2020) (Vietnamese)
9. Nguyen Ky Phung et al, Development of a P.M 2.5 forecasting system intergrating Low-cost Sensor for Ho Chi Minh City, Vietnam, *Aerosol and Air Quality Research*, 20: 1454–1468, 2020. (English). (ISI, IF: 3.337)
10. Nguyen Ky Phung et al, Vulnerability assessment of surface water resources of Dong Nai River basin in Lam Dong, Vol 4 (4), *Vietnam Journal of Hydro-Meteorological*, 31-40, 2020. (English)
11. Nguyen Ky Phung et al, Assessment of the Impact of Sand Mining on Bottom Morphology in the Mekong River in An Giang Province, Vietnam, Using a Hydro Morphological Model with GPU Computing, *Water* 2020, Vol.12, pp.2912; (10/2020). (English). (ISI, IF: 2.544). DOI:10.3390/w12102912
12. Nguyen Ky Phung et al, Riverbank movement of the Mekong River in An Giang and Dong Thap Provinces, Vietnam in the period of 2005–2019, *Vietnam Journal of Hydro-Meteorological*, Vol 6, p.35-45, 2020. (English)
13. Nguyen Ky Phung et al, Studying the extent of scarcity of surface water in Lam Dong according to the socio–economic development plan up to 2030, *Vietnam Journal of Hydro-Meteorological*, Vol 6 (6), p. 26-34. (2020) (English)
14. Nguyen Ky Phung et al, Research on bottom morphology in Soc Trang Estuary under the influence of the tide, *Vietnam Journal of Hydro-Meteorological*, Vol 717, p. 44-55. (2020) (Vietnamese)
15. Nguyen Ky Phung et al, Morphological change assessment from intertidal to river-dominated zones using multiple-satellite imagery: A case study of the Vietnamese Mekong Delta, *Regional Studies in Marine Science*, Vol. 34, pp. 101087, (01/2020) (English). (ISI, IF: 1.57)
16. Nguyen Ky Phung et al, The calculation of salinization by numerical method: A case study for Sai Gon river, *Vietnam Journal of Hydro-Meteorological*, Vol 699, p.17-29, Apr 2019 (Vietnamese)
17. Nguyen Ky Phung et al, Raising awareness campaign about sustainable consumption for high school students in the inner area of Ho Chi Minh city, *Vietnam Journal of Hydro-Meteorological*, EME2, p. 66-75, 2019. (Vietnamese)
18. Nguyen Ky Phung et al, The effect of climate change on the Surface Water Resources of the Lam Dong Province, *Vietnam Journal of Hydro-Meteorological*, Vol 2(4), p. 25-34. (2019) (English)
19. Nguyen Ky Phung et al, Uncertainty Assessment for Climate Change Impact on Streamflow and Water Quality in the Dong Nai River Basin, *World Environmental and Water Resources Congress 2019: Groundwater, Sustainability, Hydro-Climate/Climate Change, and Environmental Engineering*. Reston, VA: American Society of Civil Engineers, pp. 366-373, (May 2019) (English).
20. Nguyen Ky Phung et al, Proposing distribution of coastal zone in Ho Chi Minh City, *Vietnam Journal of Hydro-Meteorological*, Vol 708, p. 36-4 (2019) (Vietnamese)





PhD supervisor

21. Nguyen Ky Phung et al, Hydrist model and the approach of solving sediment concentration at open boundaries, Vietnam Journal of Hydro-Meteorological, Vol 704, p. 57-6 (2019) (Vietnamese)
22. Nguyen Ky Phung et al, Impact assessment of some natural factors and human to urban flood Ho Chi Minh city, Vietnam Journal of Hydro-Meteorological, Vol 704, p. 8-19. (2019) (English)
23. Nguyen Ky Phung et al, Influence of meteorological sensitive parameters on rice yeild in Vinh Long province, Vietnam Journal of Hydro-Meteorological, Vol 698, p.31-37, Feb 2019 (Vietnamese)
24. Nguyen Ky Phung et al, Evaluate to the risk ratio in coastal area of My Giang – Hon Do – Bai Co in Ninh Phuoc Commune, Ninh hoa Town, Khanh Hoa Province, Vietnam Journal of Hydro-Meteorological, Vol 697, p.44-51, Jan 2019 (Vietnamese)
25. Nguyen Ky Phung et al, Assessment of climate change vulnerability to agricultural activities in Can Gio district, Journal of Climate change Science, No 6, p.34-44, 2018 (Vietnamese)
26. Nguyen Ky Phung et al, Method of automatic calculation environmental quality indexes in Ho Chi Minh city, Vietnam Journal of Hydro-Meteorological, Vol 685, p.11-21, (Jan 2018) (Vietnamese)
27. Nguyen Ky Phung et al, Studying the impacts of climate change on the drought of Lam Dong province, Vietnam Journal of Hydro-Meteorological, Vol 692, p.49-55, (Aug 2018) (Vietnamese)
28. Nguyen Ky Phung et al, Study calculation and forecast pm 2.5 for Ho Chi Minh city, Study calculation and forecast PM 2.5 for Ho Chi Minh city, Vietnam Journal of Hydro-Meteorological, Vol 695, p.1-7, (Nov 2018) (Vietnamese)
29. Nguyen Ky Phung et al, Assessing the impacts of the changes in the upstream flow and sea level rise due to climate change on seawater intrusion in Ho Chi Minh city using the HEC – RAS 1D model, Vietnam Journal of Hydro-Meteorological, Vol 690, p.64-69, June 2018 (Vietnamese)
30. Nguyen Ky Phung et al, Application of the curlivinear coordination to calculate two – dimensional problemon the sediment transportation and the changes of bed in the curved channel, Proceedings of the third International Conference on Estuarine Coastal and Shelf Studies – Ecss 2017, ISBN 978 – 604 -73 – 5521 – 1, Nov 2017 (English)
31. Nguyen Ky Phung et al, Bioaccumulated metals in clam glauconoma virens (linnaeus, 1767) from Khanh Hoa coastal, Viet Nam, Proceedings of the 3rd International Conference on Estuarine Coastal and Shelf Studies – Ecss 2017, ISBN 978 – 604 -73 – 5521 – 1, Nov 2017 (English)
32. Nguyen Ky Phung et al, Marine spatial planning in Vietnam: approach and challenges, Proceedings of the 3rd International Conference on Estuarine Coastal and Shelf Studies – Ecss 2017, ISBN 978 – 604 -73 – 5521 – 1, Nov 2017 (English)
33. Nguyen Ky Phung et al, Developing emission data for air quality forecast model in Ho Chi Minh city, Vietnam Journal of Hydro-Meteorological, Vol 682, pp. 1 – 6 (Oct 2017) (Vietnamese)
34. Nguyen Ky Phung et al, Building meteorology field forecasting process for air quality forecast model in Ho Chi Minh city, Vietnam Journal of Hydro-Meteorological, Vol 681,pp. 1 – 7. (Sep 2017) (Vietnamese)
35. Nguyen Ky Phung et al, Saltwater instrusion risk in main rivers of Vinh Long province in the context of climate change and sea level rise, Vietnam Journal of Hydro-Meteorological, Vol 674, p.8-15, (Feb 2017) (Vietnamese)
36. Nguyen Ky Phung et al, Saltwater instrusion risk in main rivers of Dong Nai province in the context of climate change and sea level rise, Vietnam Journal of Hydro-Meteorological, Vol 678, p.18-28, (June 2017) (Vietnamese)
37. Nguyen Ky Phung et al, Saltwater instrusion risk in main rivers of Ho Chi Minh in the context of climate change and sea level rise, Vietnam Journal of Hydro-Meteorological(2017) (Vietnamese)





PhD supervisor

38. Nguyen Ky Phung et al, Creating flood maps to support decision making in the water resources sector in the lower Mekong river delta, *Journal of Science and Technology*, (Aug 2017) (Vietnamese)
39. Nguyen Ky Phung et al, Assessing the effects of some natural and artificial elements to flooding phenomenon in Ho Chi Minh City, *Journal of Sai Gon University*, No. 25, Vol. 50, p. 10-18. 2017 (Vietnamese)
40. Nguyen Ky Phung et al, A Study on impact of climate change to salinity at water intake points of Ho Chi Minh City water plant and adaptation solutions proposal, *Journal of Science and Technology*, (Aug 2017) (Vietnamese)
41. Nguyen Ky Phung et al, Trend of some hydrometeorology factors in Dong Nai province, *Journal of Climate change Science*, Vol. 2, p. 16-24 (June 2017) (Vietnamese)
42. Nguyen Ky Phung et al, Trend of some hydrometeorology factors in Ho Chi Minh city, *Vietnam Journal of Hydro-Meteorological*, 2017 (Vietnamese)
43. Nguyen Ky Phung et al, Researching for forecasting the flow of the flood and the discharged volume of the reservoir under the effect of climate change, *Journal of Natural Resources and Environment*, No. 1, p. 72-74. 2016 (Vietnamese)
44. Nguyen Ky Phung et al, Identification of ballast water discharge areas in Vung Tau port by numerical model, *Journal of Natural Resources and Environment*, No. 1, p. 109-112. 2016 (Vietnamese)
45. Nguyen Ky Phung et al, A Study on impact of climate change to salinity at water intake points of supply water factories and adaptation solutions proposal, *Journal of Science and Technology*, Vol 54 (4B) p.116-122, (Nov 2016) (Vietnamese)
46. Nguyen Ky Phung et al, Researching and calculating the social vulnerability index due to flooding in Tam Thon Hiep commune, Can Gio District, *Vietnam Journal of Hydro-Meteorological*, Vol. 664, 2016 (Vietnamese)
47. Nguyen Ky Phung et al, Potentially toxic elements in bottom ash from hazardous waste incinerators: an integrated approach to assess the potential release in relation to solid-phase characteristics. *Journal of Material Cycles and Waste Management*, Vol. 19, Issue 3, p. 1194-1203, 2016 (English)
48. Nguyen Ky Phung et al, Evaluation of the surface temperature change in Ho Chi Minh City using the WRF model, *Vietnam Journal of Hydro-Meteorological*, Vol. 662, 2016. (Vietnamese)
- 49.

