VO QUOC THANH, PhD.

Email: quocthanh@ctu.edu.vn, vqthanh07@gmail.com

DATE OF BIRTH: July 12th, 1986

EDUCATION:

- **06/2015 – 04/2021**, IHE Delft and TU Delft, the Netherlands: PhD in Water Science and Engineering.

- **09/2009 - 10/2011**, Can Tho University, Vietnam: Master of Environment Management.

- **09/2004 - 10/2008**, Can Tho University, Vietnam: Engineer of Environmental Engineering.

WORK EXPERIENCE:

*** Teaching:**

- 03/2015 to the present: Lecturer at Department of Water Resources, College of Environment and Natural Resources, Can Tho University, Vietnam.

- 04/2013 to 03/2015: Lecturer at Department of Environment and Natural Resources Management, College of Environment and Natural Resources, Can Tho University, Vietnam.

- 12/2011 to 03/2013: Researcher at Department of Environment and Natural Resources Management, College of Environment and Natural Resources, Can Tho University, Vietnam.

*** Research:**

- 06/2015 to 08/2019: Researcher of the project, entitle “Modeling a sparsely-sampled, complex delta system: Mekong delta case study”, funded by Office of Naval Research.

- 05/2013 to 05/2015: Assistant of the CLUES (Climate change affecting land use in the Mekong Delta: Adaptation of rice-based cropping systems) project funded by ACIAR.

- 06/2012 to 03/2013: Leader of the Current situation on dyke systems in Dong Thap and An Giang Provinces Projects funded by JIRCAS, Japan.

- 03/2012 to 03/2013: Researcher of the CLUES (Climate change affecting land use in the Mekong Delta: Adaptation of rice-based cropping systems) project; working on a bias correction method of precipitation data generated by regional climate model for using in hydraulic and salinity modelling.

- 08/2010 to 11/2011: Researcher of the project entitled “Mapping of flood hazards for different climate change scenarios for the Mekong Delta, Vietnam”. Post-Doctoral Research Programme on Adaptation to Climate Change (PRoACC). UNESCO-IHE, Netherlands.

PUBLICATION

*** Peer-reviewed articles**

Tu Le Xuan, Hung Le Manh, Hoang Tran Ba, Thanh Dang Quang, **Vo Quoc Thanh**, and Duong Tran Anh, 2023. 3D Numerical Modelling for Hydraulic Characteristics of a Hollow Triangle Breakwater. In Advances in Research on Water Resources and Environmental Systems: Selected papers of the 2nd International Conference on Geo-Spatial Technologies and Earth Resources 2022 (pp. 265-283). Cham: Springer International Publishing.

Tu Le Xuan, Hoang Tran Ba, **Vo Quoc Thanh**, David P.Wright, Ahad Hasan Tanim, Duong Tran Anh, 2022. Evaluation of coastal protection strategies and proposing multiple lines of defense under climate change in the Mekong Delta for sustainable shoreline protection. Ocean & Coastal Management. Volume 228, 106301.

Lê Văn Dũ, Trương Hoàng Đan, Lê Anh Tuấn, **Võ Quốc Thành**, Trần Mai Hùng, 2022. Evaluation of the situation of agro - forestry models in responding to saline intrusion and disaster risks in U Minh Ha national park, Ca Mau province. Can Tho University Journal of Science. 58 (3) 61-71.

Tu Le Xuan, Phong Nguyen Cong, **Thanh Vo Quoc**, Quoc Quan Tran, David P Wright, Duong Tran Anh, 2022. Multi-scale modelling for hydrodynamic and morphological changes of breakwater in coastal Mekong Delta in Vietnam. Journal of Coastal Conservation. 26 (3) 1-18.

Vo Quoc Thanh, Nguyen Hieu Trung, Vo Thi Phuong Linh, 2022. Temporal analysis for multi-hazard risk assessment of rice cultivation in coastal areas: a case study of Soc Trang, Vietnam. E3S Web of Conferences (347) 05001.

Lam Thi Bich Tuyen, Nguyen Que Tran, Vo Thi Phuong Linh, Nguyen Hieu Trung, **Vo Quoc Thanh**, 2022. Evaluation of the supply possibility of natural water sources for shallot cultivation model and whiteleg shrimp farming in Vinh Chau district, Soc Trang province. Vietnam journal of Hydro- Meteorology. 734 (1-12) (Vietnamese).

Vo Thi Phuong Linh, Nguyen Hieu Trung, **Vo Quoc Thanh**, 2022. A study on climate-related disasters risk assessment in My Xuyen District, Soc Trang Province. Vietnam journal of Hydro- Meteorology. 733 (56-72) (Vietnamese).

Võ Thị Phương Linh, Nguyễn Hiếu Trung, Nguyễn Hồng Trang, Nguyễn Ngọc Trúc Thanh, **Võ Quốc Thành**, 2021. Assessing influence factors in changes of agricultural cropping systems in My Xuyen district, Soc Trang province. Can Tho University Journal of Science. Special issue of Environment and climate change (2): 91-102 (English abstract).

Nguyen Hieu Trung, Marie-Noëlle Woillez, Ngo Duc Thanh, Sepehr Eslami, Philip Minderhoud, Tran Anh Quan, Nguyen Thi Thanh Hue, Truong Ba Kien, Truong Chi Quang, Vo Thi Phuong Linh, **Vo Quoc Thanh**, 2021. Chapter 7 The Mekong Delta in the face of increasing climatic and anthropogenic pressures. In book: Climate change in Viet Nam: Impacts and adaptation. Nhà xuất bản Agence Française de Développement. Trang 339-369.

Lê Hữu Thịnh, Huỳnh Vương Thu Minh, Nguyễn Đình Giang Nam, **Võ Quốc Thành**, Trần Văn Tỷ, 2021. Ứng dụng ảnh Landsat đánh giá sự thay đổi phân bố nhiệt độ bề mặt tại thành phố Cần Thơ giai đoạn 1990-2020. HỘI NGHỊ KHOA HỌC CÔNG NGHỆ LẦN THỨ 5. Pp 75-86 (Vietnamese).

Ngoc Giau Vo Thi, Bich Tuyen Phan Thi, Hieu Trung Nguyen, **Vo Quoc Thanh**, 2021. Impact of climate change and socio-economic development on the water balance and water quality of the Can Tho River. IOP Conference Series: Earth and Environmental Science. 652 (1) 012008

Vo Quoc Thanh, Dano Roelvink, Mick van der Wegen, Johan Reyns, Ad van der Spek, Giap Van Vinh, Vo Thi Phuong Linh, 2021. Suspended sediment dynamics and budget in the Mekong Delta: A numerical investigation. Continental Shelf Research (under review).

Vo Quoc Thanh, Dano Roelvink, Mick van der Wegen, Le Xuan Tu, Johan Reyns, Vo Thi Phuong Linh, 2020. Spatial topographic interpolation for meandering channels. Journal of Waterway, Port, Coastal, and Ocean Engineering 146 (5), 04020024. DOI: 10.1061/(ASCE)WW.1943-5460.0000582.

Vo Quoc Thanh, Dano Roelvink, Mick van der Wegen, Johan Reyns, Herman Kernkamp, Giap Van Vinh, Vo Thi Phuong Linh, 2020. Flooding in the Mekong Delta: Impact of dyke systems on downstream hydrodynamics. Hydrology Earth System Sciences 24, 189–212, https://doi.org/10.5194/hess-24-189-2020.

Le Xuan Tu, **Vo Quoc Thanh**, Johan Reyns, Song Pham Van, Duong Tran Anh, Thanh Duc Dang and Dano Roelvink, 2019. Sediment transport and morphodynamical modeling on the estuaries and coastal zone of the Vietnamese Mekong Delta. Continental Shelf Research. 186:64-76.

Vo Thi Phuong Linh, Le Van Hoang, **Vo Quoc Thanh**, 2019. Application of Landsat images to estimate suspended sediment concentration in the Hau and Tien Rivers. **Can Tho University Journal of Science**. No 55(2): 134-144 (Vietnamese).

Ehab A. Meselhe, D. Roelvink, C. Wackerman, F. Xing, **V.Q. Thanh**, 2017. Modeling the process response of coastal and deltaic systems to human and global changes: Focus on the Mekong system. Oceanography. 30(3):84–97.

Vo Quoc Thanh, Johan Reyns, Chris Wackerman, Emily F. Eidam, Dano Roelvink, 2017. Modelling suspended sediment dynamics on the subaqueous delta of the Mekong River. Continental Shelf Research. 147: 213-230.

Stefania Balica, Quang Dinh, Ioana Popescu, **Vo Quoc Thanh**, Dieu Q. Pham, 2013. Flood impact in the Mekong Delta, Vietnam. Journal of Maps. 10(2). DOI:10.1080/17445647.2013.859636

Van Pham Dang Tri, Nguyen Hieu Trung and **Vo Quoc Thanh**, 2013. Vulnerability of flood in the Vietnamese Mekong Delta: Mapping and uncertainty analysis. Journal of Environmental Science and Engineering. B 2: 229-237. [ISSN 1934-8932].

Nguyen Thi Bich Phuong, Van Pham Dang Tri and **Vo Quoc Thanh**, 2015. Impacts of land use change on the hydrological characteristics of the Duong Dong river basin, Phu Quoc Island. Journal of Science, Can Tho University - Part A: Natural Sciences, Technology and Environment, 40: 81 - 91 (Vietnamese).

Nguyen Phuong Tan, Van Pham Dang Tri and **Vo Quoc Thanh**, 2014. Application of a two-dimensional hydrodynamic model for simulations of hydraulic characteristics and deposition and erosion in the Dinh An estuary. Journal of Science, Can Tho University - Part A: Natural Sciences, Technology and Environment, 31a: 8-17 (Vietnamese).

Vo Thi Phuong Linh, Van Pham Dang Tri, Nguyen Hieu Trung, **Vo Quoc Thanh** and Nguyen Thanh Tuu, 2013. Assessment of hydrological and landuse dynamic in the Vietnamese Mekong Delta. Journal of Science, Can Tho University - Part A: Natural Sciences, Technology and Environment, 27: 87-94 (Vietnamese).

*** Regional and International Conferences:**

Vo Quoc Thanh, 2021. A sediment budget for the Mekong Delta using a process-based model. The Water Security and Climate Change conference: Special Session on the Mekong Region. 01-04 March 2021, Hanoi, Vietnam.

Vo Quoc Thanh, Dano Roelvink, Mick van der Wegen, Johan Reyns, 2020. Numerical modelling of suspended sediment dynamics in the Mekong Delta. Coastal Engineering Proceedings, 24-24.

MH Le, V Lakshmi, **Vo Quoc Thanh**, HM Hoang, TPD Van, 2019. Assessment of hydrological processes in a polder of Mekong Delta using SWAT+ model. American Geophysical Union, Fall Meeting 2019, abstract #H11I-1580.

JA Roelvink, J Reyns, RL McLachlan, E Eidam, P Liu, AS Ogston, **Vo Quoc Thanh**, 2016. Integrating 3D Modeling, In-Situ and Remote-Sensed Observations of Flow and Sediment Dynamics in the Hau River Estuary and Shelf, Mekong Delta, Vietnam. American Geophysical Union, Ocean Sciences Meeting 2016, abstract# MG51A-08.

Vo Quoc Thanh, J Reyns, H Kernkamp, JA Roelvink, M Van der Wegen, 2016. Numerical Modeling of Tidal Dynamics and Transport in the Multi-channel Estuary of the Mekong River. American Geophysical Union, Ocean Sciences Meeting 2016, abstract# MG54B-2030.

Vo Quoc Thanh, Chu Thai Hoanh, Van Pham Dang Tri and Nguyen Hieu Trung, 2013. A biascorrection method of precipitation data generated by regional climate model for using in hydraulic and salinity modelling. Selection for expert workshop on "Managing Water Resources under Climate Uncertainty: Challenges and Opportunities", Bangkok, Thailand from 17 - 18 October 2013.

Vo Quoc Thanh, Van Pham Dang Tri, Nguyen Hieu Trung and Huynh Minh Thien, 2013. Impacts of climate change and sea level rise on flood vulnerability in the Vietnamese Mekong Delta. Proceedings of Environment, Natural Resources and climate change in the Vietnamese Mekong Delta. Can Tho University. pp. 684-693.

Van Pham Dang Tri, Nguyen Hieu Trung, **Vo Quoc Thanh**, 2012. Vulnerability to flood in the Vietnamese Mekong Delta: Mapping and uncertainty assessment. Proceedings of The International Conference on GeoInformatics for Spatial-Infrastructure Development in Earth & Allied Sciences (GIS-IDEAS). Ho Chi Minh City, Vietnam.

Vo Quoc Thanh, Van Pham Dang Tri, I. Popescu and Nguyen Hieu Trung, 2012. Vulnerability to flood in the Vietnamese Mekong Delta: Mapping and uncertainty assessment. From the river banks to the coast: Integrated approaches of land- and water use coping with climate change in the Mekong Delta. Can Tho, Vietnam.

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Van Pham Dang Tri, Nguyen Hieu Trung, Dimitry Solomatine, Ann van Griensven, Ioana Popescu and **Vo Quoc Thanh**, 2012. Flooding in the Vietnamese Mekong Delta: The present and future perspectives in the context of projected climate change. The International Conference on GeoInformatics for Spatial-Infrastructure Development in Earth & Allied Sciences (GISIDEAS). Ho Chi Minh City, Vietnam.

Nguyen Phuong Tan, Van Pham Dang Tri, and **Vo Quoc Thanh**, 2013. Erosion and deposition in the Dinh An estuary of the Bassac River in Viet Nam. Integrated Water Resources and

Environmental Management for Asian and African Mega deltas under climate change. 15-17 August, 2013. Ho Chi Minh City and Can Tho City, Vietnam.