

Analysis of the ecosystem services of mangrove to aquaculture and fisheries in the Mekong River Delta, Vietnam - Mangrove and Fishery

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Associated documentation

[MS-248] List of variable 2017.pdf (1.01 MB)

Mangrove Questionnaire 2017 EN.pdf (1.36 MB)

Citation

Truong, D. T. (2021) Analysis of the ecosystem services of mangrove to aquaculture and fisheries in the Mekong River Delta, Vietnam - Mangrove and Fishery (Version 1) [Data set]. University of Gothenburg. Available at: <https://doi.org/10.5878/5kge-bh88>

Creator/Principal investigator(s)

Dang Thuy Truong - University of Economics Ho Chi Minh City, Department of Economics

Research principal

[University of Gothenburg](#) - Environment for Development, School of Business, Economics and Law

Principal's reference number

MS-248

Description

In this study, which will cover six provinces in south Vietnam, we expect to find out the optimal level of mangrove coverage for shrimp farming systems, considering the benefits of mangrove on fishery. Besides, investigation of the determinants of the behavior of converting mangrove to other uses will provide useful information for policy makers towards a better management and conservation of mangrove forests. The project has the following research objectives: (1) Examine the impacts of mangrove on shrimp farming, specifically the impacts of mangrove coverage on shrimp farming productivity and profitability; (2) Examine the impacts of mangrove on the risk of shrimp farming; (3) Estimate the mangrove-fishery linkage; (4) Investigate the determinants of mangrove conversion.

We collected data in field trips to villages across the southern coast of Vietnam. The first wave of data was collected from August 2014 to April 2015. The second wave was conducted in 2017, from September to December. Our final sample includes 950 observations from 431 households living and fishing across 11 communes from six provinces including Bac Lieu, Ben Tre, Ca Mau, Kien Giang, Soc Trang and Tra Vinh. Two sources of mangrove forest areas of communes are used. One is reported by the Forestry Management, and the other is calculated using satellite images.

Data contains personal data

No

Language

[English](#)

Time period(s) investigated

2014-08-01 – 2015-04-30

2017-09-01 – 2017-12-31

Variables

269

Data format / data structure

[Numeric](#)

[Geospatial](#)

Geographic spread

Geographic location: [Viet Nam](#)

Geographic description: The survey was conducted in communes of six coastal provinces in the Mekong River Delta, Vietnam, including Ben Tre, Soc Trang, Tra Vinh, Kien Giang, Ca Mau, and Bac Lieu. From these six provinces, eight locations were selected according to how well the communes represented the six provinces and the various argo-ecological and social-economic zones.

Responsible department/unit

Environment for Development, School of Business, Economics and Law

Contributor(s)

Quoc Tuan Vo - Can Tho University

Khanh Nam Pham - University of Economics Ho Chi Minh City

Huu Luat Do - University of Economics Ho Chi Minh City

Funding 1

- Funding agency: Swedish International Development Cooperation Agency

Funding 2

- Funding agency: Environment for Development Initiative

Research area

[Environmental sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Economics and business](#) (Standard för svensk indelning av forskningsämnen 2011)

[Farming](#) (INSPIRE topic categories)

[Economy](#) (INSPIRE topic categories)

[Environment](#) (INSPIRE topic categories)

Keywords

[Fishery](#), [Mangrove forest](#), [Profitability](#)

Publications

Truong, Thuy & Do, Luat. (2018). Mangrove forests and aquaculture in the Mekong river delta. Land Use Policy. 73. 20-28. 10.1016/j.landusepol.2018.01.029.

DOI: <https://doi.org/10.1016/j.landusepol.2018.01.029>

Polygon (Lon/Lat)

104.67773085148, 10.206813072485

104.67773085148, 8.5429976050263

106.81722135709, 8.5429976050263

106.81722135709, 10.206813072485

104.67773085148, 10.206813072485

Accessibility level

Access to data through SND

Access to data is restricted

Use of data

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Versions

Version 1. 2021-08-27

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