



## Minutes

<b>Title:</b>	MARE - Marine Coastal and Delta Sustainability for Southeast Asia
<b>Number:</b>	610327-EPP-1-2019-1-DE-EPPKA2-CBHE-JP
<b>Coordinator:</b>	Center for Multimedia in Higher Education (ZMML), University of Bremen
<b>Partners:</b>	HCMUNRE, VMU, CTU, MCD, VNIO

*NOTE: All below-mentioned items are decisions by consensus, made during the Kickoff-Meeting in Bremen on 19<sup>th</sup> – 20<sup>th</sup> of December 2022. For further items and earlier made decisions please consider the presentations and official documents which can be found on the MARE Platform for Project Management. This URL is [Report on the compilation of ebook meeting in the MARE project – MARE \(biendaohcm.com\)](https://biendaohcm.com)*

**Date** : 19 – 20 December 2022

- **Place** : Ho Chi Minh City University of Natural Resources and Environment
- **Address** : 236 B Le Van Sy, Ward 1, Tan Binh District, Ho Chi Minh City.
- **Participants** : HCMUNRE, VMU, CTU, MCD, VNIO
- **Format** : face-to-face and online meeting
- **Project No.** : **610327-EPP-1-2019-1-DE-EPPKA2-CBHE-JP**

### 1. Objectives of the meeting:

- Meeting to discuss the first draft e-book chapters
- Discussion on the plan and progress of ebook compilation in the near future

### 2. Attendees:

1. Le Anh Tuan, Can Tho University
2. Huynh Vuong Thu Minh, Can Tho University
3. Nguyen Dinh Giang Nam, Can Tho University
4. Lam Van Thinh, Can Tho University
5. Vo Quoc Thanh, Can Tho University
6. Phan Thi Thuy Duy, Can Tho University
7. Tran Van Ty, Can Tho University
8. Dinh Thi Thuy Hang, Vietnam Maritime University
9. Nguyen Thi Thu, Vietnam Maritime University
10. Phan Minh Thu, Institute of Oceanography
11. Ho Thi Yen Thu, Center for Marine Conservation and Community Development
12. Nguyen Van Giap, Center for Marine Conservation and Community Development
13. Le Thi Kim Thoa, HCMC University of Natural Resources and Environment

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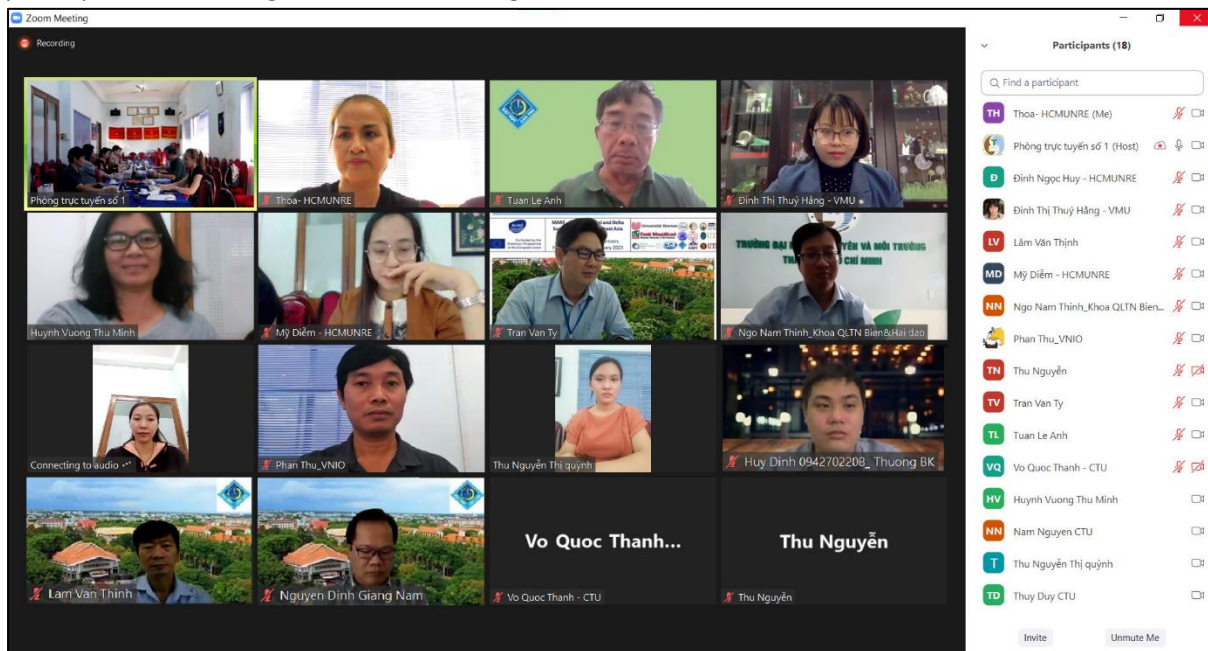
14. Dinh Ngoc Huy, HCMC University of Natural Resources and Environment
15. Ngo Nam Thinh, HCMC University of Natural Resources and Environment
16. Tran Thi Kim, HCMC University of Natural Resources and Environment
17. Phung Thi My Diem, HCMC University of Natural Resources and Environment
18. Nguyen Thi Quynh Thu, HCMC University of Natural Resources and Environment

Within the framework of the project “Marine Coastal and Delta Sustainability for Southeast Asia (MARE)” project, sponsored by Erasmus+, Faculty of Sea and Island Resource Management, University of Ho Chi Minh City University of Natural Resources and Environment held a meeting to compile the project's Ebook on December 19 - 20, 2022.

### 3. Contents of the two-day meeting:

#### Date 1: December 19, 2022:

Opening the program, Dr. Le Thi Kim Thoa, MARE project manager and coordinator introduced the participants and the agenda of the meeting.



*View of the online meeting to compile the ebook*

Opening the program, Dr. Le Thi Kim Thoa, HCMUNRE presented an overview of the ebook outline and assignment of tasks of each member in the previous meetings.

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*Dr. Le Thi Kim Thoa presents the outline of the ebook compilation*

Accordingly, Assoc. Prof. Dr. Le Anh Tuan from Can Tho University reported on the results of compiling ebook chapter 1- Geographical characteristics of coastal resources in Vietnam. In this content, the participants discussed the inconsistency between data sources on the area of the East Sea, the waters of Vietnam and the terms South China sea and the East Sea. The collective agreed to use the officially announced source of documents from the Vietnamese books/website.

Chương 1.

**ĐẶC ĐIỂM ĐỊA LÝ TÀI NGUYÊN VÙNG VEN BIỂN VIỆT NAM**

Lê Anh Tuấn – Huỳnh Vương Thu Minh – Nguyễn Đình Giang Nam  
Khoa Môi trường và Tài nguyên Thiên nhiên - Trường Đại học Cần Thơ

**1.1. VÙNG BIỂN CỦA VIỆT NAM**

Việt Nam là một quốc gia nằm ở phía đông nam bán đảo Đông Dương, có diện tích đất liền là 331.698 km<sup>2</sup>, kết nối lớn với biển Đông hướng ra Thái Bình Dương và biển Tây nối liền với vịnh Thái Lan, cửa ra Ấn Độ Dương (Hình 1.1). Nếu căn cứ vào Công ước về Luật biển (Liên hợp quốc, 1982)<sup>1</sup> đã được 117 quốc gia và thực thể, trong đó có Việt Nam thông qua và ký kết vào ngày 10/12/1982, Việt Nam có chủ quyền trên một diện tích vùng đặc quyền kinh tế biển rộng xấp xỉ 1.010.274 km<sup>2</sup> (Viện Chiến lược, Chính sách Tài nguyên và Môi trường, 2014<sup>2</sup>, Trần Công Trục, 2021), chiếm khoảng 29% trên tổng diện tích toàn vùng Biển Đông (Biển Đông có tổng diện tích vào khoảng 3.447.000 km<sup>2</sup>) và gấp 3 lần diện tích vùng đất liền nội địa (Hình 1.1). Tổng chiều dài đường bờ biển tiếp giáp với đất liền và hải đảo của Việt Nam là 3.444 km, đứng thứ 27/157 quốc gia ven biển, các quốc đảo và các lãnh thổ trên thế giới. Nếu lập tỷ số giữa chiều dài đường ven biển và diện tích đất liền thì Việt Nam có tỷ lệ xấp xỉ 1/100 km/km<sup>2</sup>, nghĩa là trung bình 100 km<sup>2</sup> đất liền sẽ có khoảng 1 km đường bờ biển). Việt Nam có 63 tỉnh thành thì có đến 28 tỉnh thành có giáp với đường bờ biển và gần một nửa dân số sinh sống tại các tỉnh, thành ven biển.

Phòng trực tuyến số 1

Thoa- HCMUNRE

Le Anh Tuan (CTU)

Tran Van Ty

Phan Thu

Đinh Ngọc Huy - HCM...

*Assoc.Prof.Dr. Le Anh Tuan reports compiled content of chapter 1*

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Next, MSc. Tran Thi Kim-HCMUNRE presented the results of compiling the ebook chapter 2. Issues on natural resources and marine environment in Vietnam. After compiling the content of this chapter, the editorial team found that the content of chapter 2 more or less overlaps with the remaining chapters. Therefore, the group proposes to revise some items inside the chapter accordingly. Besides, the statistics serving the compilation face many difficulties: national statistics are not continuous over many years, the form for statistics of all kinds of resources after 2015 has changed to a new form, and previous statistical lists do not match the list of statistics after 2015. For example, the area of mangroves from 2015 and earlier is included in the statistical lists of localities, but from 2015 to present mangroves are converted into wetlands.



*MSc. Tran Thi Kim reports compiled content of chapter 2*

Dr. Ho Thi Yen Thu, MCD presented the results of compiling ebook chapter 3-Coastal region of the Red River Delta. Similar to the HCMUNRE group, the MCD team proposed to revise the subsections inside each chapter so that the contents are balanced.

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### 1.1. THU HẸP RỪNG NGẬP MẶN

**Khu vực I: Ven biển Đông Bắc, từ mũi Ngọc đến mũi Đồ Sơn với diện tích 39.400 ha**

Khu vực này có hệ thực vật ngập mặn phong phú, bao gồm những loài chịu mặn cao và không có các loài ưa nước lộ điển hình. Các quần xã chính là:

- Quần xã mắm biển tiên phong với các loài cỏ gà, muối biển trên các bãi mới bồi nhiều bùn cát, xa bờ, ngập triều trung bình thấp.
- Quần xã sú ở gần bờ, có các loài phụ: mắm biển, cỏ gấu biển, trên các bãi ngập triều trung bình thấp.
- Quần xã hỗn hợp đưng, trang, vet dù, sú trên đất ngập triều trung bình.
- Quần xã vet dù ưu thế với các loài đưng, trang, sú ở trên đất chi ngập triều cao trung bình trở lên.
- Quần xã cây gỗ trên đất chi ngập triều thấp cao
- Quần xã hỗn hợp gồm: mắm biển, bần chua, sú và các loài phụ đưng, vet, trang ở ngoài đê biển vùng nước lộ phía Nam từ sông Đá Bạc đến mũi Đồ Sơn.

*Phân chia 4 khu vực RNM tại Việt Nam (Hồng 1991, 1999; Veettil et al. 2018)*

Phòng trực tuyến số 1

Ho Thi Yen Thu - MCD

Ho Thi Yen Thu - MCD

Le Anh Tuan (CTU)

Trần Văn Tuấn - Khoa và Môi Trường

Ngô Nam Thịnh\_Khoa QLTN và Môi Trường

Phan Thu

Đinh Ngọc Huy - HCMU

*Dr. Ho Thi Yen Thu reports compiled content of chapter 3*

MSc. Phan Minh Thu, representative of VNIO reported the results of compiling ebook chapter 4- Coastal Area in the central region of Vietnam. According to MSc. Phan Minh Thu, the content of chapters 3, 4, 5 should be changed to chapters 2, 3, 4 and the items inside the 3 chapters should be presented the same, only different geographical areas.

Co-funded by the  
Erasmus+ Programme  
of the European Union

**MARE -Marine Coastal and Delta  
Sustainability for Southeast Asia**

Universitt Bremen  
FESTI Masilikool  
Estonian University of Life Sciences  
National Research Council of Italy  
IAS  
ACU  
UMT  
UTM

## Chương 4. VÙNG VEN BIỂN MIỀN TRUNG VIỆT NAM

Phan Minh Thụ, Hoàng Xuân Bền, Bùi Hồng Long  
Viện Hải dương học  
Viện Hàn lâm Khoa học và Công nghệ Việt Nam

Phòng trực tuyến số 1

Ho Thi Yen Thu - MCD

Ho Thi Yen Thu - MCD

Le Anh Tuan (CTU)

Trần Văn Tuấn - Khoa và Môi Trường

Ngô Nam Thịnh\_Khoa QLTN và Môi Trường

Phan Thu

Thoa - HCMUNRE

*MSc. Phan Minh Thu presents the compiled content of chapter 4*



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### Date 2: December 20, 2022:

Dr. Huynh Vuong Thu Minh, CTU reported on the results of compiling ebook chapter 5-Coastal region of the Mekong Delta. The editorial team proposes to amend 5 sections in the chapter as follows: Geographical location, Topographical features, Hydrology, oceanography and meteorology, Coastal resources and natural hazards.

The screenshot shows a video conference interface. On the left, a presentation slide for Chapter 5 is displayed. The slide has a white background with a black border. At the top left, there are logos for MARE, the European Union, and the Erasmus+ Programme. At the top right, there are logos for Universität Bremen, Eesti Maaülikool, UTP, and UTM. The main title of the slide is 'Chương 5 VÙNG VEN BIỂN ĐỒNG BẰNG SÔNG CỬU LONG' in red. Below the title, the authors are listed: 'Lê Anh Tuấn, Huỳnh Vương Thu Minh, Nguyễn Đình Giang Nam, Trần Văn Tỷ, Lâm Văn Thịnh, Võ Quốc Thành' and 'Trường Đại học Cần Thơ'. At the bottom, it says 'Ho Chi Minh, 19 - 20 December 2022'. On the right side of the screenshot, there is a vertical grid of video feeds showing participants. The top feed shows a group of people in a meeting room. Below it are individual feeds for 'Huỳnh Vương Thu Minh', 'Le Anh Tuan (CTU)', 'Ngo Nam Thinh\_Khoa QLT', 'Phan Thu', and 'Thoa - HCMUNRE'.

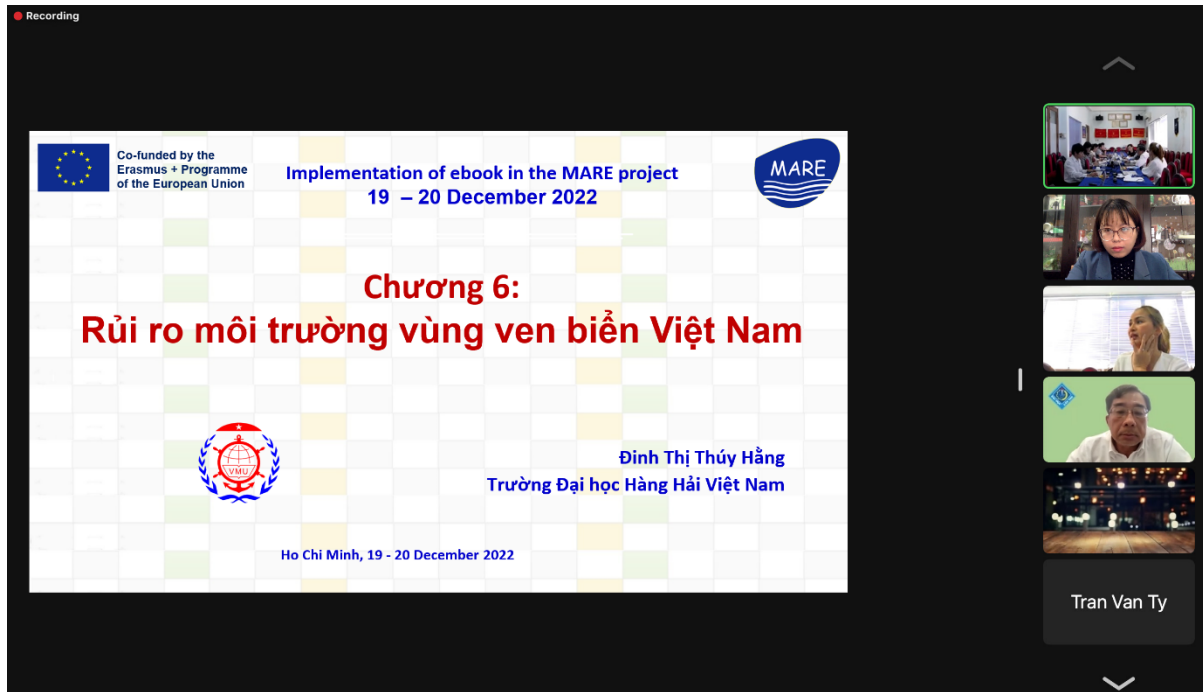
*Dr. Huynh Vuong Thu Minh reports compiled content of chapter 5*

Dr. Dinh Thi Thuy Hang, representative of Vietnam Maritime University - VMU reported on the results of compiling ebook chapter 6-Environmental risks in coastal areas of Vietnam. The editorial team also recommends separating the resource and environment content into two chapters, instead of combining them as in the previous draft.

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*Dr. Dinh Thi Thuy Hang reports compiled content of chapter 6*

#### 4. Discussion and conclusion:

After PIs presented the contents of the ebook, all members have discussed many issues and came to an agreement on the title of the book and rearranged the chapters as follows:

Ebook's title: Natural resources and environment in coastal areas of Vietnam

Chapter 1. Geographic characteristics of marine resources of Vietnam

Le Anh Tuan and CTU staff

- 1.1 Geographical location
- 1.2 Characteristics of natural features
- 1.3 Marine resources of Vietnam

Chapter 2. Coastal areas in the Red river delta

Ho Thi Yen Thu and MCD staff.

- 2.1 Geographical location
- 2.2 Topographical features
- 2.3 Hydrology, hydrology and meteorology
- 2.4 Coastal Resources
- 2.5. Natural disasters

Chapter 3. Coastal Areas in the center of Vietnam

Phan Minh Thu and VNIO staff

- 3.1 Geographical location

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- 3.2 Topographical features
- 3.3 Hydrology, hydrology and meteorology
- 3.4. Coastal Resources
- 3.5. Natural disasters

### Chapter 4. Coastal Areas in the Mekong Delta

Le Anh Tuan and CTU staff

- 4.1 Geographical location
- 4.2 Topographical features
- 4.3 Hydrology, hydrology and meteorology
- 4.4 Coastal Resources
- 4.5. Natural disasters

### Chapter 5. Issues of natural resources in coastal areas of Vietnam

Le Thi Kim Thoa and HCMUNRE staff

- 5.1. Changes/causes of typical coastal ecosystems
  - 5.1.1. Mangroves (cause -> case studies)
  - 5.1.2. Coral reefs (cause of bleaching)
    - 5.1.1.1. Seagrass carpet
- 5.2. Changes in coastal resources
  - 5.2.1. Biological resources
  - 5.2.2. Non-living resources
  - 5.2.3. Position Resources

### Chapter 6. Environmental issues in coastal areas of Vietnam

Dinh Thi Thuy Hang and VMU staff

- 6.1. Sea level rise
- 6.2. Coastal encroachment
- 6.3. Pollution from rivers to the sea (including algal blooms)
- 6.4. Plastic waste pollution
- 6.5. Oil spills and chemical spills
- 6.6. Alien creatures

### Chapter 7. Policies for coastal management issues

CTU, HCMUNRE, MCD, VNIO, VMU

#### 7.1. International Conventions

- 7.1.1. Conventions: UNCLOS 1982 (CTU), Biodiversity – CBD 1992 (VNIO)
- 7.1.2. Paris Agreements (VMU), COP27 (VMU), disaster convention 2015 – SENDAI (VNIO), MARPOL 73/78 (VMU), SDG 14 (VNIO).

#### 7.2. Laws and policies of Vietnam

- 7.2.1. Law of the Sea 2012 (VMU)
- 7.2.2. Law on Environmental Protection 2020 (VMU)

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- 7.2.3. Law on Water Resources 2012 (HCMUNRE)
- 7.2.4. Law on natural resources and environment of sea and islands 2015 (HCMUNRE)
- 7.2.5. Law on Biodiversity 2008 (VNIO)
- 7.2.6. Law on Fisheries 2017 (VNIO)
- 7.2.7. Maritime Code 2015 (VMU)
- 7.2.8. Petroleum Law 2022 (HCMUNRE)
- 7.2.9. Law on Inland Waterway Traffic 2014 (VMU)
- 7.2.10. Law on Hydrometeorology 2018 (HCMUNRE)
- 7.3. National strategies, plans and action plans
  - 7.3.1. Strategic planning and planning (VMU)
  - 7.3.2. Marine Economic Development Strategy (VMU)
  - 7.3.3. Biodiversity Program (VNIO)
  - 7.3.4. Plastic Waste Program (VMU)
  - 7.3.5. Climate Change Response (CTU) Program
  - 7.3.6. SDG 14 Program (VNIO)
  - 7.3.7. Action plan to implement the national strategy for natural disaster prevention, control and mitigation (CTU)
  - 7.3.8. Fisheries Development Strategy (VNIO)

## 5. Next meetings- Date and place

The partners agreed on the dates for the next meetings:

- 1- Deadline for submission of manuscripts of chapters 15/02/2023
- 2- Due to February 15-17, 2023: all member units meet in Hai Phong => The upcoming ebook meeting will take place in Hai Phong on February 18-19/2023 in order to save travel costs. transfer.
- 3- All reference materials for ebook compilation will be shared for all members participating in the ebook. the editorial team shares the link on google drive for all members.

After two days of active work, the meeting ended and was a great success.

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*Photos taken in 2 days of ebook meeting at HCMUNRE*