

# WG2: Shoreline Evolution Over the Past Four Decades in Koh Kong, Cambodia



Sokhorng Brang<sup>1</sup>, Ratha Doung<sup>1,2</sup>, Vouchlay Theng<sup>1,2</sup>, Panha Nuth<sup>1</sup>, Vuthy Chork<sup>1</sup>, Kimhuy Sok<sup>1,2,\*</sup>

(1) Faculty of Hydrology and Water Resources Engineering, Institute of Technology of Cambodia; (2) Water and Environment Unit, Research and Innovation Center, Institute of Technology of Cambodia

## Introduction

Climate change and anthropogenic pressure have caused a major concern for sustainable development and natural resources in coastal regions. Rising sea-level and storms are now majors factor accelerating shoreline recession around the world. Human activities such as groundwater and/or hydrocarbon extraction, damming, sand mining, water management, land use changes, coastal development, etc., have also caused flooding and shoreline retreat during the past half century. Therefore, reversal of land degradation has been addressed as part of the recent United Nations Sustainable **Development Goals.** 

Cambodian coastal region is exposed to various natural and humaninduced factors, including tides, waves, storm surge, land use changes, sand mining, and coastal development. Although the Cambodian coastal region has rapidly development during the last decade and being the second largest economic region after Phnom Penh Capital city, the physical coastal environment, especially the shoreline evolution this coastline, has not been well documented.





General condition along the Prey Dach coast

## **Objectives**

- Investigate coastline evolution between 1985-2023 along the Pak Khlong and Prey Dach coasts in Koh Kong.
- Evaluate the factors influencing the shoreline evolution along these coastlines.

