

## Lantau Conservation Fund

### Research Project

Project Number	RE-2021-13
Recipient Organisation	The Chinese University of Hong Kong
Project Title	Assessing the Contribution of Coastal Wetlands on Lantau Island to Carbon Sequestration in Hong Kong
Project Description*	<p>Wetlands are one of the most productive ecosystems of the world and play an important role in carbon sequestration. Blue carbon, a term coined for carbon stored in coastal vegetated wetlands, is gaining increasing attention in the international avenue as a nature-based climate solution. However, there is at present still a paucity of field studies determining the magnitude and controlling factors of carbon storage and uptake in the coastal wetlands of Hong Kong.</p> <p>The objectives of this research are to: (i) quantify the amount of carbon storage in various types of coastal wetlands found on Lantau Island, including mangroves, marshes, sandflats, and mudflats; (ii) characterize the rate of carbon sequestration by different types of coastal wetlands; (iii) determine the spatial variations and governing factors of carbon storage and sequestration in coastal wetlands, and (iv) evaluate the influence of habitat management on the carbon storage and sequestration potential of coastal wetlands.</p> <p>The results of this study will generate key information about the magnitude of carbon storage and sequestration in the coastal wetlands on Lantau Island. The findings will</p>

	provide useful insights on the potential benefits of wetland conservation and management to achieve carbon neutrality by 2050 and mitigate future climate change.
Project Period	1 May 2023 – 30 April 2026
Approved Grant	\$2,494,740

\*The project description is provided by the project proponent