**Table S1** Full names of mangrove reserves involved in the study.

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| --- | --- |
| Full names of reserves | Codes of reserves in the manuscript  |
| Hainan Dongzhai Harbour National Nature Reserve | Dongzhai Bay |
| Hainan Qinglan Harbour Provincial Nature Reserve | Qinglan Bay |
| Hainan Danzhou Xinying Harbour Mangrove Nature Reserve | Danzhou |
| Hainan Danzhou Dongchang Mangrove Nature ReserveHainan Lingao Caiqiao Mangrove Nature Reserve | Dongchang-Caiqiao |
| Hainan Dongfang Provincial Nature Reserve | Dongfang |
| Hainan Sanya River Mangrove Nature Reserve; Hainan Sanya Qingmei Harbour Mangrove Nature Reserve; Hainan Sanya Tielu Harbour Mangrove Nature Reserve | Sanya |
| Hainan Chengmai Huachang Bay Mangrove Nature Reserve | Chengmai |