**Supporting Information-1 (Figure S1-S2)**

**Rare subcommunity maintains the stability of ecosystem multifunctionality by deterministic assembly processes in subtropical estuaries**

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**Figure S1:** Geographic map of the fifteen sampling sites for marine bacterioplankton in the estuary area of Sanniang Bay, Guangxi Zhuang Autonomous Region, China.



**Figure S2:** The alpha diversity and species pool indices of abundant (A, C) and rare (B, D) marine bacterioplankton taxa from different seasons and salinity gradients (LS: low salinity; MS: medium salinity; HS: high salinity. SP: Spring; SU: Summer; FA: Fall; WI: Winter).