

Figure S1. Temporal changes of temperatures in the intertidal zones at Swan Lake and Huiquan Bay during this study (mean \pm SD).

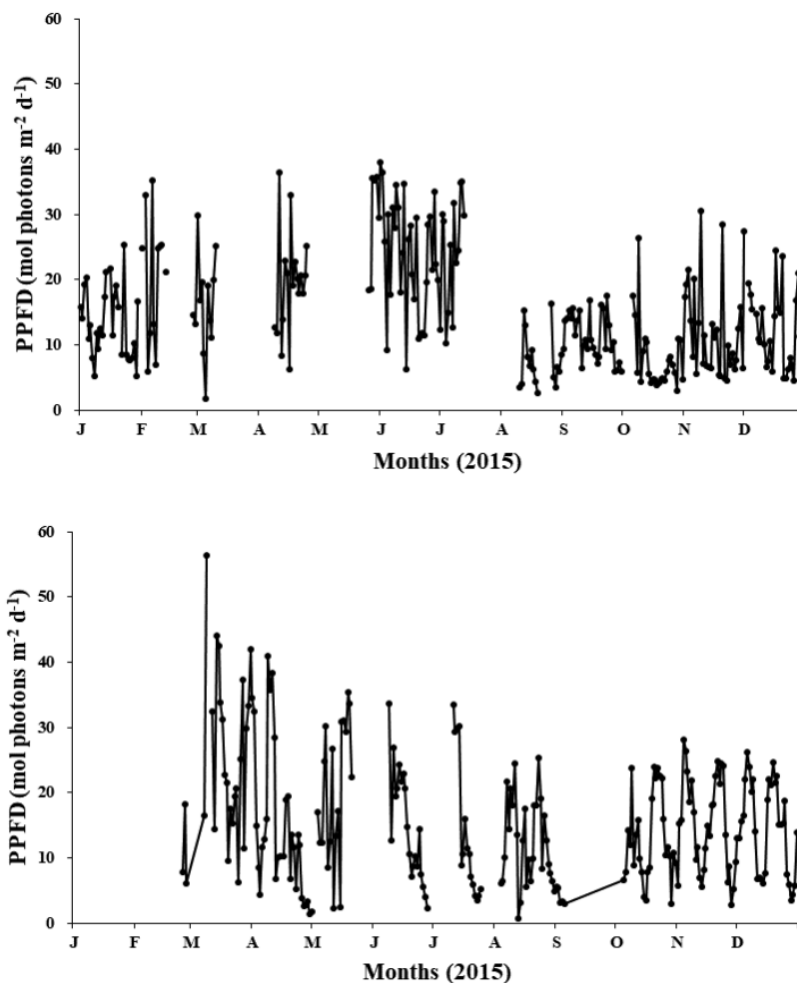


Figure S2. Light intensity of the canopy of *Zostera japonica* at Swan Lake (A) and Huiquan Bay (B) in 2015. PPFD, daily photosynthetic photon flux densities.

Table S1. Sediment grain sizes at Swan Lake (SLL) and Huiquan Bay (HQB) (mean ± SD)

Grain size	Gravel (>2.0mm)	Sand (0.063-2.0mm)	Silt (0.0039 -0.063mm)	Clay (<0.0039mm)
SLL	3.54±3.33	80.68±87.64	13.80±1.03	1.97±2.45
HQB	0.85±0.65	87.64±4.70	11.19±3.88	0.32±0.56