

Sen trend degree	Mann-Kendall trend test	Trend Categories	Trend Significance
$\beta > 0$	$2.58 < Z$	4	Extremely significant increase
	$1.96 < Z \leq 2.58$	3	Significant increase
	$1.65 < Z \leq 1.96$	2	Slightly significant increase
	$Z \leq 1.65$	1	No significant increase
$\beta = 0$	Z	0	No change
$\beta < 0$	$Z \leq 1.65$	-1	No significant reduction
	$1.65 < Z \leq 1.96$	-2	Slightly significant reduction
	$1.96 < Z \leq 2.58$	-3	Significant reduction
	$2.58 < Z$	-4	Extremely significant reduction

Table S1. Significance test for variation trend of NPP based on β and Z .