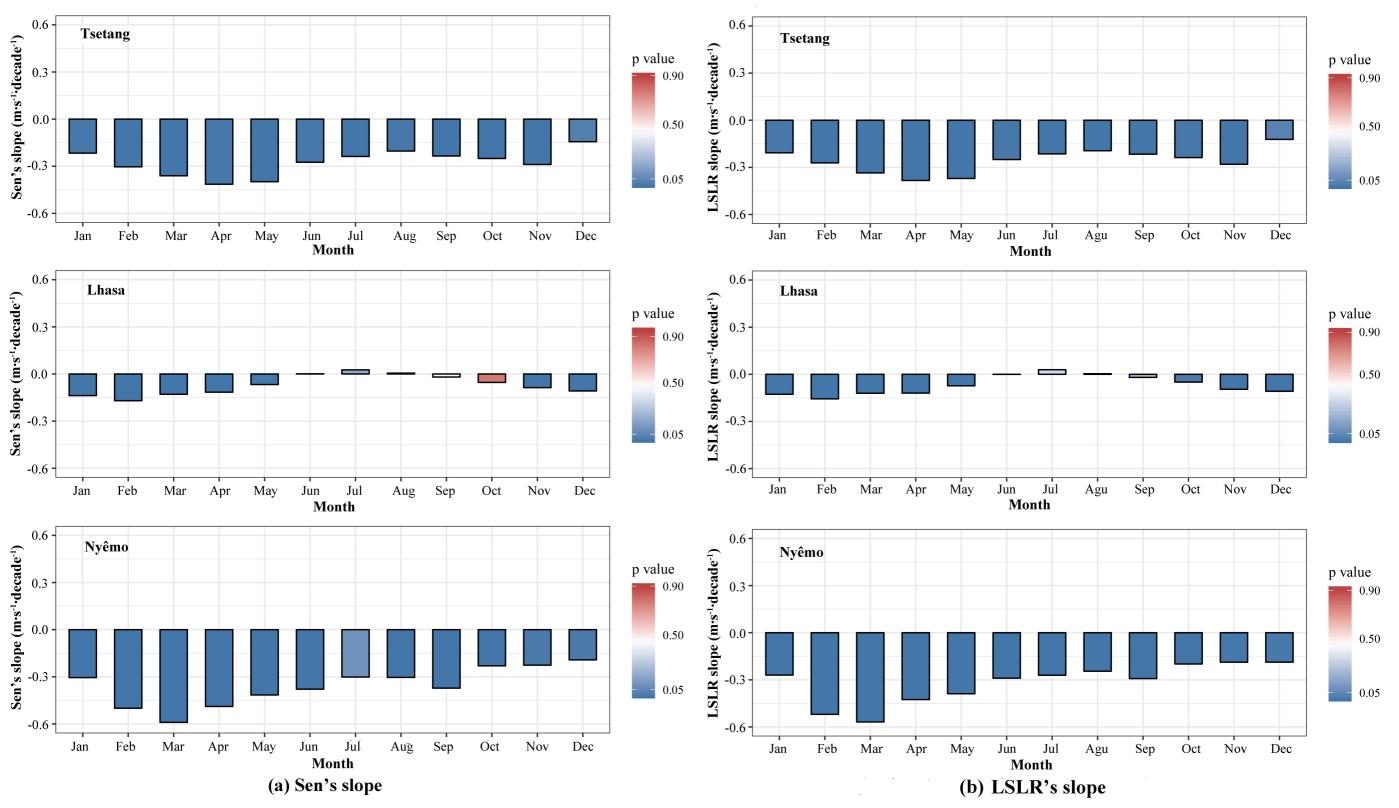
## **Supplementary Information**

Title: Inter- and intra-annual wind speed variabilities in wide valley regions of the middle reaches of the Yarlung Tsangpo River, China

Authors: Ben Yue<sup>1</sup>, Mei Yadong<sup>1,\*</sup>, Chen Yiming<sup>2</sup>, Hu Tiesong<sup>1</sup> & Zhu Di<sup>1</sup>

**Figure S1.** (a) Sen's slope of the Mann-Kendall test and (b) LSLR's slope applied to the time series of monthly wind speed at Tsetang, Lhasa and Nyêmo stations for the periods of 1960–2015, 1960–2015 and 1974–2015, respectively.



**Table S2.** Spearman correlation coefficients estimated between influence variables in the period 1960-2015. Values in italic & bold and in bold represent the correlation coefficient were statistically significant at 0.01 and 0.05 confidence level, respectively.  $\Delta T_1$  and  $\Delta T_2$  present  $\Delta T_{\text{LL-ML}}$  and  $\Delta T_{\text{HL-ML}}$ , respectively;  $\Delta P_1$  and  $\Delta P_2$  present  $\Delta P_{\text{LL-ML}}$  and  $\Delta P_{\text{HL-ML}}$ , respectively. UR is abbreviation of urbanization rate. Values in italic & bold and in bold represent the correlation coefficient were statistically significant at 0.01 and 0.05 confidence level, respectively.

Variables	и	ν	TPM	T	$\Delta T_1$	$\Delta T_2$	$\Delta P_1$	$\Delta P_2$	AO	NAO	PDO	NDVI	UR
и	1.000												
v	0.150	1.000											
TPM	-0.277	-0.379	1.000										
T	0.015	-0.222	0.515	1.000									
$\Delta T_1$	0.576	0.269	-0.394	-0.038	1.000								
$\Delta T_2$	-0.304	0.125	-0.206	0.122	-0.121	1.000							
$\Delta P_1$	0.484	0.120	-0.313	-0.605	0.196	-0.315	1.000						
$\Delta P_2$	0.595	0.128	-0.211	-0.231	0.398	-0.510	0.549	1.000					
AO	-0.249	0.100	-0.074	0.147	-0.269	0.634	-0.110	-0.420	1.000				
NAO	-0.212	0.195	-0.252	-0.091	-0.064	0.431	-0.006	-0.346	0.724	1.000			
PDO	-0.268	-0.010	0.018	-0.087	0.057	0.235	-0.144	-0.413	-0.144	0.149	1.000		
NDVI	0.056	-0.244	0.358	0.422	0.019	-0.151	-0.051	0.250	0.024	-0.064	-0.217	1.000	
UR	-0.407	-0.367	0.246	0.601	-0.253	0.376	-0.694	-0.577	0.240	0.029	0.162	0.189	1.000