Figure S1. Comparisons of CMFD (red lines) and HAR (black lines) precipitation data with observed data (blue dots).
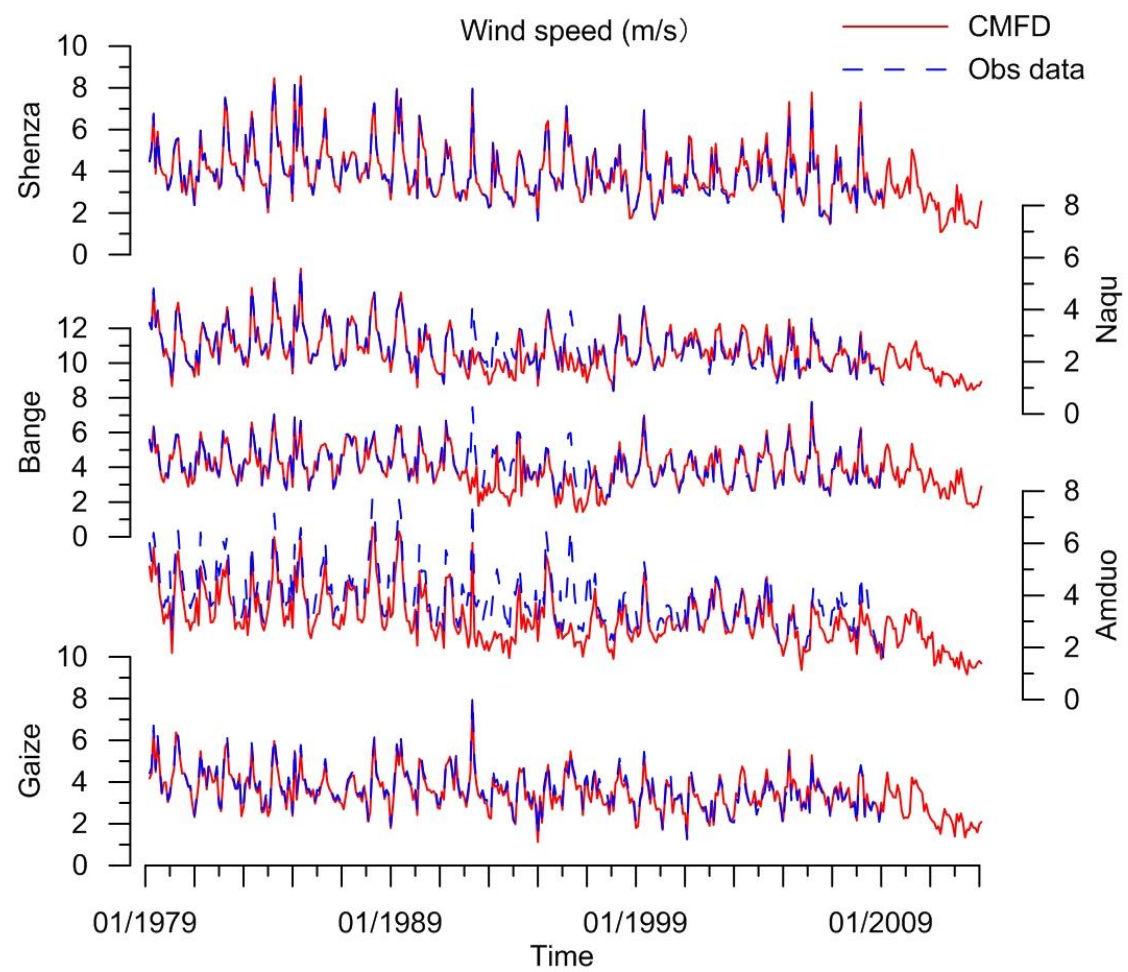
Figure S2. The comparison of CMFD wind speed data (red lines) with observed data (blue dots).
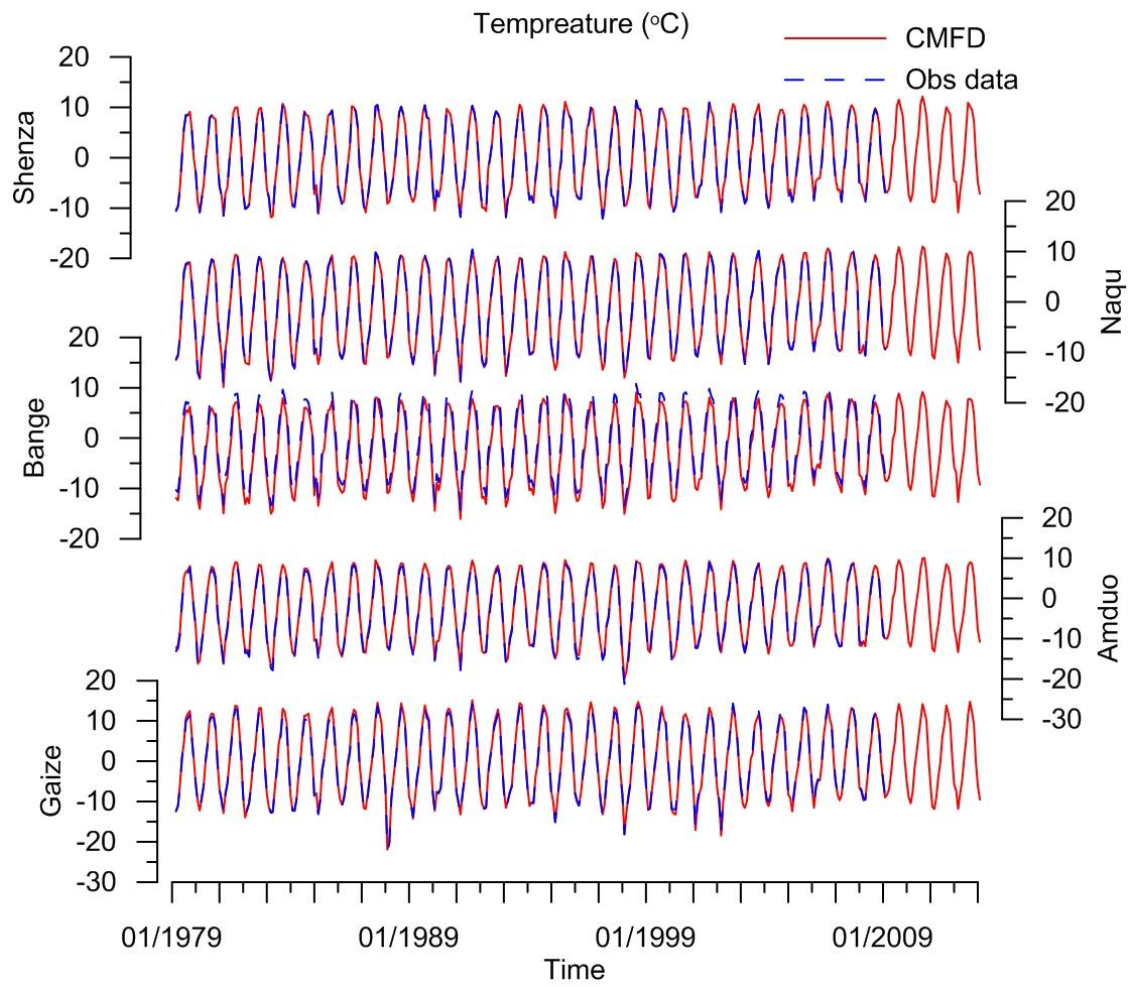
Figure S3. The comparison of CMFD temperature data (red lines) with observed data (blue dots).
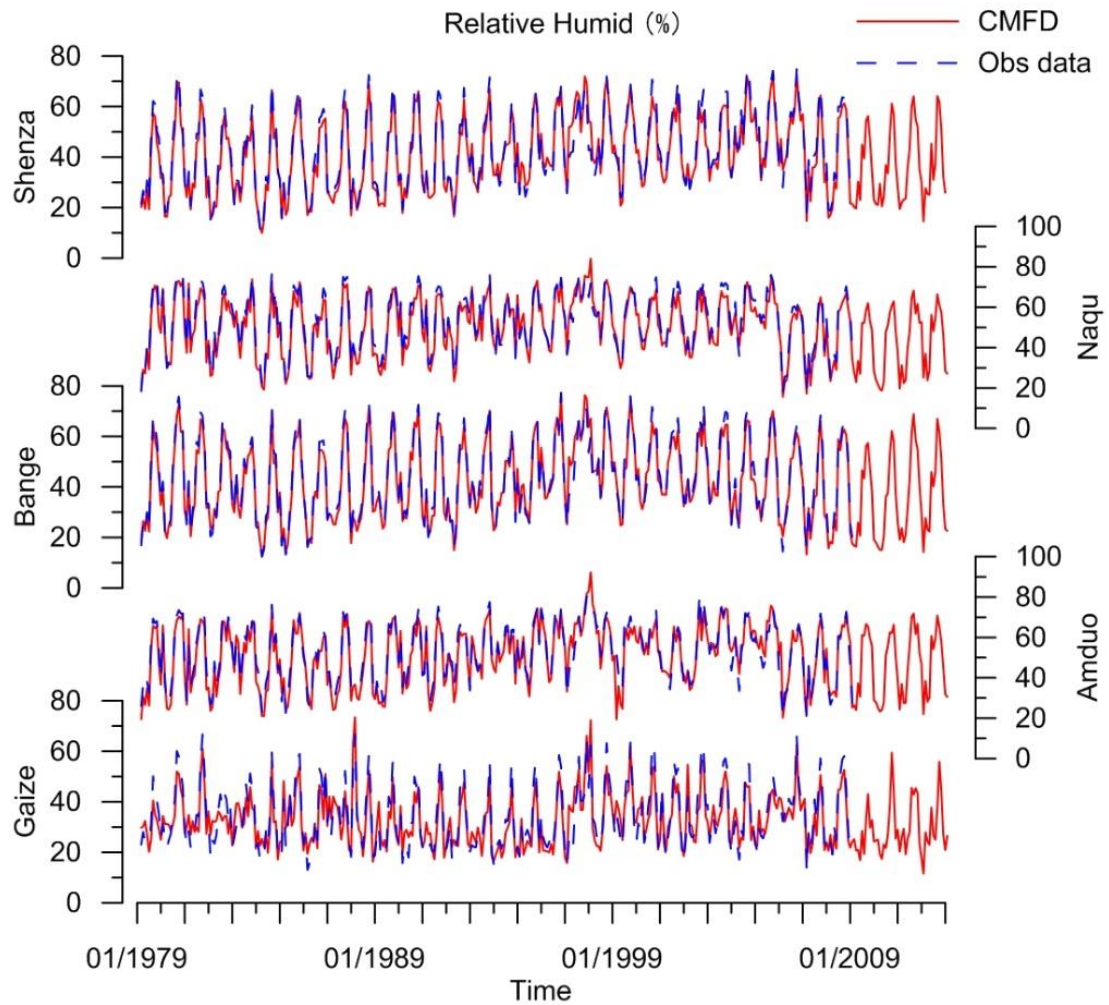
Figure S4. The comparison of CMFD relative humidity data (red lines) with observed data (blue dots).
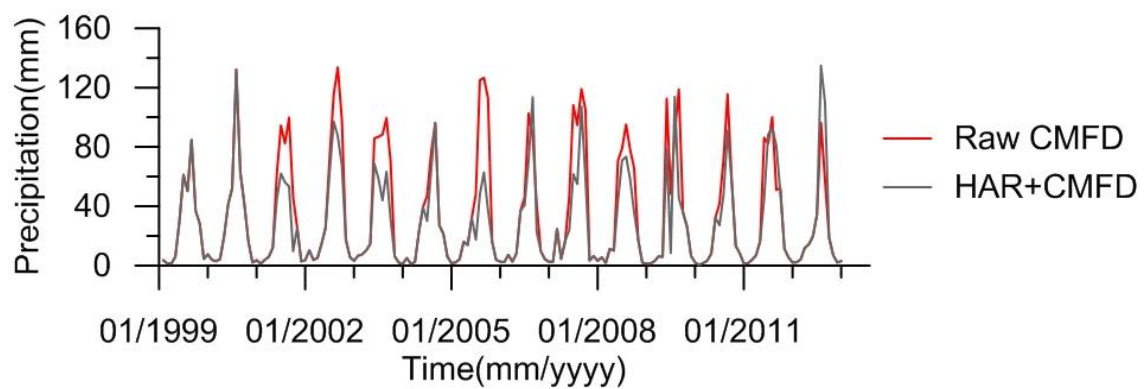

Figure S5. The comparison of combined CMFD and HAR data (gray lines) with raw CMFD data (red lines).
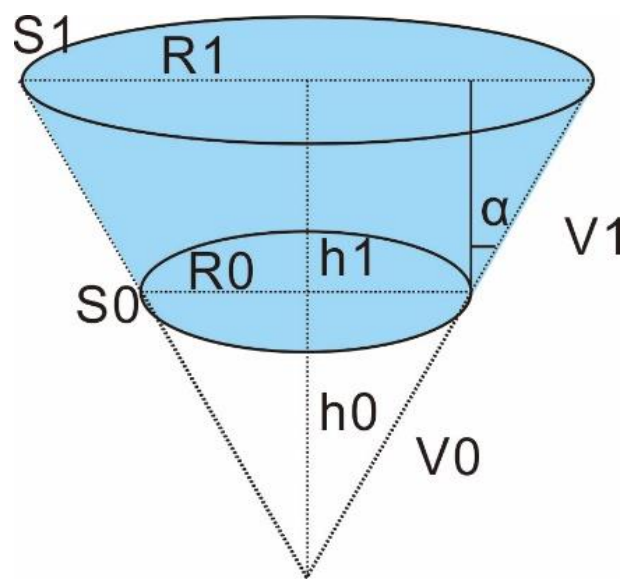
Figure S6. Simplified hypsographic profile of Linggo Co.

Table S1. Climatic parameters used in our lake model.

Month	WS (m/s)	Ta (°C)	P (mm)	Lrad (w/s)	Srad (w/s)	RH (%)
Jan.	5.42	-18.56	2.42	141.94	151.13	0.48
Feb.	5.83	-15.99	2.90	153.34	183.51	0.48
Mar.	6.10	-11.02	4.19	173.40	228.74	0.50
Apr.	5.09	-5.75	10.05	196.70	274.97	0.51
May	4.53	-0.80	30.73	222.34	304.99	0.52
Jun.	4.15	3.86	53.21	252.42	301.10	0.56
Jul.	3.75	6.47	75.11	271.17	280.28	0.59
Aug.	3.39	5.67	72.76	266.06	262.02	0.60
Sept.	3.76	2.19	45.40	239.02	239.57	0.57
Oct.	3.81	-5.61	12.38	192.87	208.26	0.48
Nov.	4.17	-12.83	2.65	158.61	171.09	0.46
Dec.	4.78	-16.73	1.96	148.05	143.07	0.52
Coefficient of variation	0.25	0.33	0.72	0.05	0.06	0.29