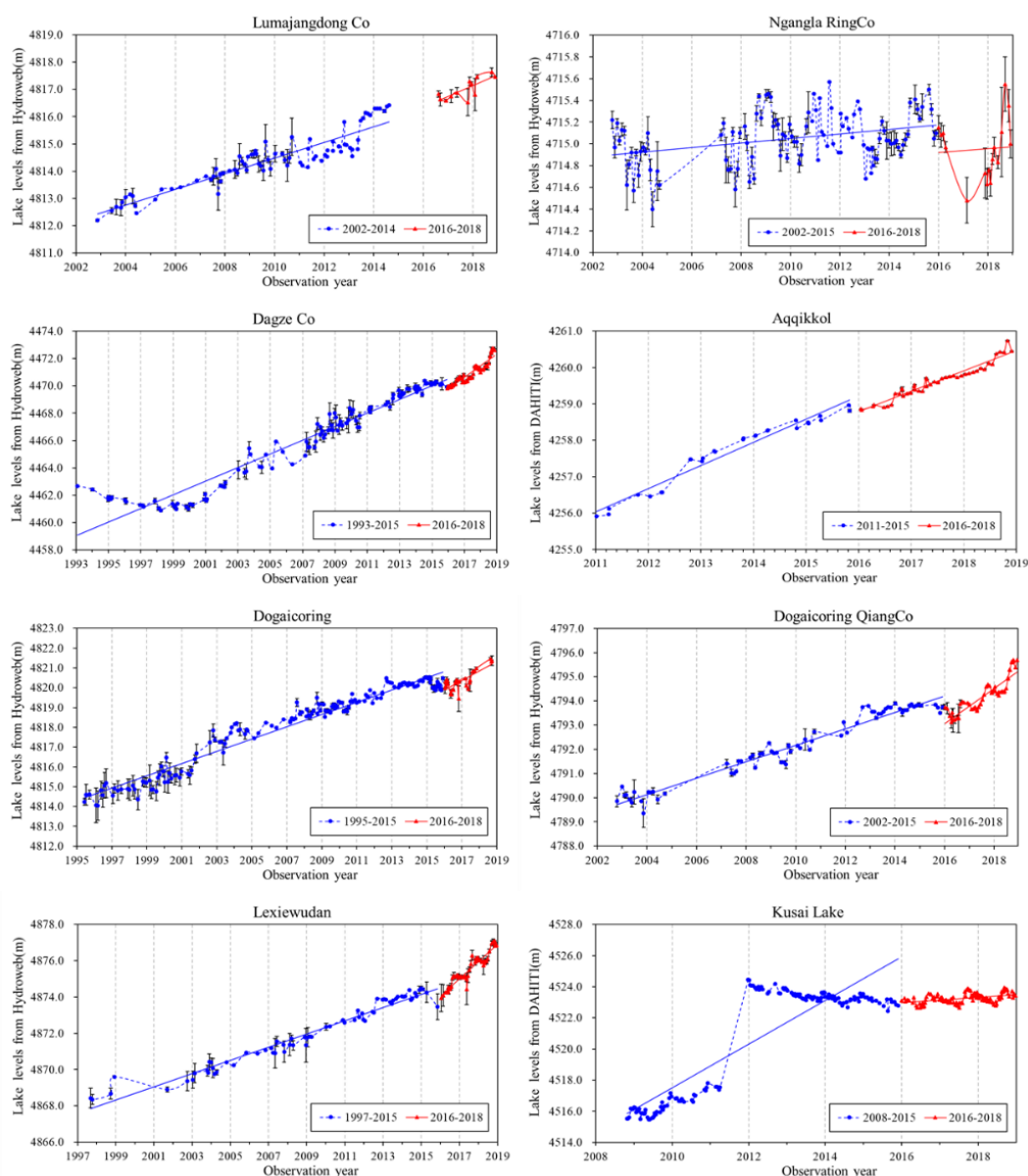
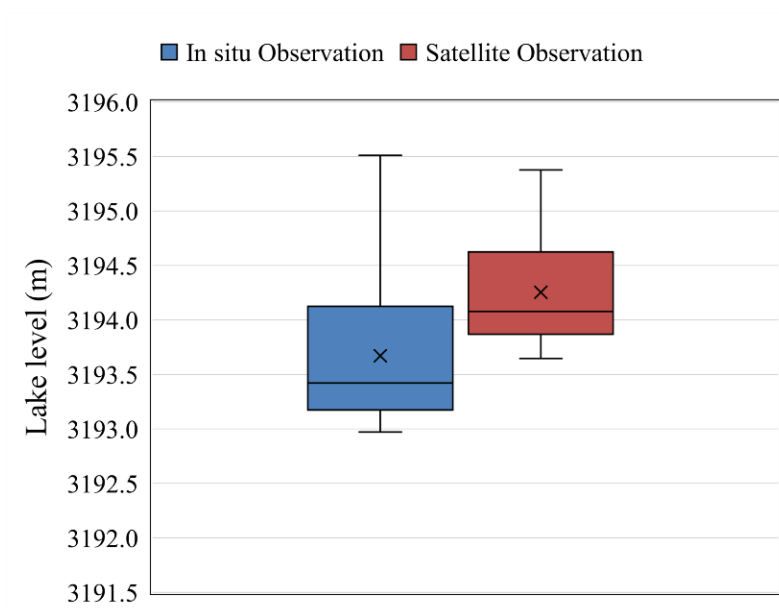


**Supplementary Materials:** Figure S1: Long-term lake level variations of the other eight large lakes in the TP during 1995–2018 based on the Hydroweb and DAHITI altimetry data archives. Figure S2: Comparison of the data distribution between the in-situ water level observations and satellite altimetry observations (from Hydroweb and DAHITI) for Qinghai Lake.



**Figure S1.** Long-term lake level variations of the other eight large lakes in the TP during 1995–2018 based on the Hydroweb and DAHITI altimetry data archives.





**Figure S2.** Comparison of the data distribution between the in-situ water level observations and satellite altimetry observations (from Hydroweb and DAHITI) for Qinghai Lake.