
- Line 13: Here is for global climate change. But the text cannot discuss the relation between lake level change and global climate change.
- Line 16: What about the detail altimetry satellite missions?
- Line 19: Here the time spans 2002 to 2021. Are all lakes’ levels in this time span?
- Section 1: There are many literatures about the lake level changes in QTP, which should be further summarized and generalized.
- Line 72: Here there are 364 lakes. But there are 262 lakes in line 19.
- Table 1: One altimetry satellite can only pass some lakes. Some lakes can be covered by two or three altimetry satellite mission. How to process these conditions to precisely determine one level series for one lake? How to get the lake level series of all lakes from 2002 to 2021?
- Table 2: What unit is used for coordinate? 1985 should be the National Height Datum of China.
- (1): How to get these corrections? How to improve these corrections?
- Section 3.1.1: How to verify the effectiveness and accuracy of the retracking method?
- Section 3.1.2: Here is noise footprints. How about the abnormal footprint?
- Section 3.1.3: How to process the gross errors in time series?
- Section 3.2: Coordinate system transfer and coordinate frame transfer all should be made.
- (5): How to determine p in the Eq. ?
- Section 4: How about resolution?
- Table 3: RMS of Zhari Namco is 0.25m. But RMS is about 10.1cm in Sun et al. (Detecting lake level change from 1992 to 2019 of Zhari Namco in Tibet using altimetry data of TOPEX/Poseidon and Jason-1/2/3 missions. Frontiers in Earth Science, 2021, 9:640553, https://doi.org/10.3389/feart.2021.640553). Wang et al. (Robust, long-term lake level change from multiple satellite altimeters in Tibet: observing the rapid rise of Ngangzi Co over a new wetland. Remote Sensing, 11: 558, doi: 10.3390/rs11050558.) also shown the more precise lake levels.
- Section 5: How about the physical mechanism? Why not the applications to climate change?