

## ***Interactive comment on “A new merge of global surface temperature datasets since the start of the 20th Century” by Xiang Yun et al.***

**Xiang Yun et al.**

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Following is what we do according to your previous comments, Xiang Yun has send this to you, but maybe you did not get it. So I put them here. Please give some directions if there is something wrong.

Dear Dr Robert Rohde,

Thank you for pointing out the stations number problem for Berkeley Earth and offering help to us. I am not sure if this problem is due to a misunderstood way I get the station data (may be I find the wrong website to get station data), hope you can point it out. The Berkeley site data is accessed as follows: First, we open the website (<http://www.berkeleyearth.dev/analysis-code>), click on

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the Download, find the file (site\_complete\_detail.txt) in the Download packet, get the station data. Then we open the site\_complete\_detail.txt file and import the site\_complete\_detail.txt file into site\_complete\_detail\_no\_illup.xlsx, we have 272556 stations in site\_complete\_detail\_no\_illup.xlsx. In site\_complete\_detail\_no\_illup.xlsx, we find that some stations' begin time or end time, longitude, latitude are missing, so we delete these stations, then we combine the stations with similar station ID, and get the data\_year.xlsx file, which has 16694 stations. Finally, stations with a time length of more than 15 years, latitude of -90~90 and longitude of -180~180 are selected, and the file of lat-lon-start-end-length.xlsx are obtained, with a total of 12,371 stations. Eight regions are defined, following Jones and Moberg (2003), for the seven continents of the world (Asia(5-60°N, 60-180°E), Africa(35°N-40°S,20°W-45°E), South America(15°N-55°S,30-80°W), Europe(35-60°N,15°W-60°E), North America(15-60°N,140-50°W), Australia(10-50°S,110-155°E), and Antarctic(60-90°N)) plus the Arctic(60-90°S), the station numbers of 8 regions are shown in table 1. Sincerely looking forward to your reply. Xiang Yun

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