This manuscript published the daily 1 km (30 arcsec) meteorological forcing data set. It obviously improves the resolution of existing data products. It is very meaningful for climate impact studies and lays a foundation for the related topics. However, some other problems in the manuscript are still concerned in the following:

- 1. In the results (Table 5), the proposed CHELSA-W5E5 was only compared with WRF. Could the authors compare their data sets with more data sets for a better validation?
- 2. The correlation with observations at meteorological stations is evaluated in North America. How are other regions?
- 3. The organization of this manuscript should be added to the end of the introduction.
- 4. A flow chart of the data set production is suggested to be shown. It is very important for the coming readers.
- 5. A section of "conclusions" is suggested.