Interactive comment on “REDCAPP (v1.0): Parameterizing valley inversions in air temperature data downscaled from re-analyses” by Bin Cao et al.

Anonymous Referee #2

Received and published: 20 June 2017

Air temperature downscaling is important for the mountain regions. This manuscript described a down scaling tools (maybe a software), which were validated by ground observed data in Apls and Qilian mountain. I have several concerns: (1) What is new? REDCAPP is a new one, or come from Fiddes and Gruber 2014; Gupta and Tarboton 2016, and Gao et al. 2012? You should make a declaration clearly. (2) Data introduction is weak. specially, the description of DEM process is too short. I can not understand what you did on the DEM data. (3) Discussion is weak. (4) In general, REDCAPP can not be transferred to different regions. It is a big shortage of this method. So, you should give more work on this issue. Otherwise, others can not use your version 1.0.