Interactive comment on “Modeling the Caspian Sea and its catchment area using a coupled regional atmosphere-ocean model (RegCM-ROMS): model design and preliminary results” by U. U. Turuncoglu et al.

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Dear Reviewer #1,

We appreciate your prompt response. With regard to the warm winter bias, some confusion may have arisen due to how the sentence is worded. In fact, this warm bias is inherited from the driving data (ERA-Interim also has a similar warm bias), and cannot be correct by a regional climate model. Furthermore, the bias is enhanced in the RCM due to deficiencies in the PBL scheme and is not related to the size of domain.

To clarify this point, we change the last sentence in the first paragraph of section 3.4.1 to read,

“The warm winter bias in the northeastern part of the domain is partially inherited from the driving data. This bias is further enhanced in the regional model because of the inability of the PBL scheme to reproduce the very cold, stable conditions that occur in this region, which results in too much vertical mixing in the lower atmosphere and thus warmer temperatures.”

Interactive comment on Geosci. Model Dev. Discuss., 5, 3907, 2012.