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Dear Editor,

Thank you very much for reviewing this manuscript. To improve the writing of this manuscript, we hired Mary Golden (was chief editorial assistant of MWR) to help the editing.

One change I would like to let you know is that:

I changed the title a little bit from “Development of the Upgraded Tangent Linear and Adjoint of the Weather Research and Forecasting (WRF) Modeling System” to “Development of the Upgraded Tangent Linear and Adjoint of the Weather Research and Forecasting (WRF) Model” as this manuscript focus on WRF model, instead of the whole WRF modeling system, which includes WPS, REAL, WRF, WRFDA etc.

Best Regards,

Xin Zhang

01-15-2013