

Dear group members,

The attached file is the **regional spectral convection model** with Ooyama's thermodynamics scheme. After unzip the file kuo_ooyama_bk.rar, it will generate a directory **kuo_ooyama_bk**. There is a "**README**" file in this directory.

Before you start to run this model, please read this file first. All the required Matlab drawing programs are in the directory **plot_program**.

Before entering into a real 3D full physics model like WRF or CReSS, I think this model is an excellent route to understand a moist convection process. It should be easy to generate all the simulation results in Kuo and Cheng (1999) with this model.

In this benchmark version, same as Kuo and Cheng (1999), do not include the terminal velocity of precipitation in the governing equations. It is interesting to include the precipitation effect in this model to see the condensed water drop down. The reference could be found in Ooyama (2001) and Hausman (2006).

Please feel free to contact me if you have any questions or comments.

Enjoy it!

Best,
Yu-Ming