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## **ACPD**

10, C14655–C14657, 2011

> Interactive Comment

# Interactive comment on "Where do winds come from? A new theory on how water vapor condensation influences atmospheric pressure and dynamics" by A. M. Makarieva et al.

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A lot of discussions are going on, on the concept of volumetric extinction of vapor in the condensation process and its role in hurricanes, tornadoes and on "Where do winds come from? A new theory on how water vapor condensation influences atmospheric pressure and dynamics." Here I am putting forth the concept in visual form which gives us a confusion free and quantitative idea of its importance.

I am attaching herewith a pdf file (CONDENSATION.pdf) in which the phenomenon of Volumetric Extinction or in other words Vapor Volume Reduction on condensation and its importance in Hurricanes and Tornadoes is explained with the help of figures. The Full Screen / Esc

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vapor volume reduction in the condensation process, which is the base of the concept, is theoretically explained on the basis of Avogadro's law which gives us the exact values in terms of volumes when water vapor condenses into liquid water. This forms a sound theoretical foundation and gives a new perfect direction for further research in its application to hurricanes and tornadoes.

The concept based on Avogadro's law and its importance in hurricanes has been filed as a Disclosure Document with the U.S. Patent and Trademark Office on 22nd September 2005. A patent on Hurricane Modification is also filed on 19th January 2006 in which the role of Vapor Volume Reduction and its importance in Hurricanes and Tornadoes is discussed.

I have also presented my concept on 22nd Oct. 2007 at WMO's 9th scientific conference on weather modification held at Antalya, Turkey.

Hence I suggest that my work based on Avogadro's law which gives a sound theoretical foundation to the concept should be quoted in the research in hurricanes and tornadoes when Vapor Volume Reduction in the Condensation process is taken into consideration.

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Interactive comment on Atmos. Chem. Phys. Discuss., 10, 24015, 2010.

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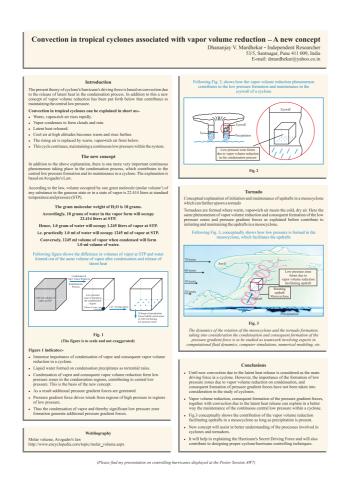


Fig. 1. Convection in tropical cyclones associated with vapor volume reduction - A new concept

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