



Medicanes of 2011 and Hurricane Rina

G. J. Tripoli (1), A. Mugnai (2), and E. A. Smith (3)

(1) University of Wisconsin - Madison, Atmospheric and Oceanic Sciences, Madison, Wisconsin, United States (tripoli@aos.wisc.edu, +1 608 262 0166), (2) Istituto di Scienze dell' Atmosfera e del Clima, CNR, Roma, Italy, (3) Center for Research on the Changing Earth System [Cantonsville, MD 21228] 312 Millbranch Rd., Tallahassee, FL 32312-1506, USA

The late season tropical cyclone Rina moved through the western Caribbean between 23-28 October, 2011, peaking at Category 3 on 26 October off the coast of the Yucatan. 11 days Later, on 8-10 November, 2011, a medicane swept through the north western Mediterranean, bringing winds as high as 82 knots on Porquerolles Island and precipitation in excess of 400mm. As with several other Mediterranean storms reported in last years Plinius meeting, there is evidence that this major medicane also developed from an upper tropospheric potential energy bubble emanating from an Atlantic basin tropical cyclone, namely hurricane Rina.

Evidence of this connection will be given at the oral presentation, and the physical mechanisms behind this this energy transfer will be presented.