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**Chris P. Tsokos\*** ([ctsokos@tampabay.rr.com](mailto:ctsokos@tampabay.rr.com)), 1202 Parrilla de Avila, Tampa, FL 33613-5219.

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The two key entities to GLOBAL WARMING are temperature and carbon-dioxide. The objective of the present study is to develop stochastic models to obtain short and long term estimates of temperature and carbondioxide. These prediction models are structured using data for the subject entities for the continental United States. (Received September 19, 2007)