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N. Balci* (nubalci@math.arizona.edu), Dept of Mathematics, U of Arizona, 617 N. Santa Rita Ave., Tucson, AZ 85721, **C. Foias** (foias@math.tamu.edu), Dept of Mathematics, Texas A&M University, Mailstop 3368, College Station, TX 77843, and **M. S. Jolly** (msjolly@indiana.edu), Rawles Hall, 831 E 3rd St, Bloomington, IN 47405. *On Turbulence and Heat Convection.*

We discuss the application of the 2-D turbulence theory to the 3D Rayleigh-Benard problem. We estimate the force and derive the analogs of the theorems for 2-D general force case in this setting. Joint work with C. Foias and M. Jolly. (Received September 10, 2012)