Nathan Glatt-Holtz, Igor Kukavica, Vlad Vicol (vvicol@math.princeton.edu) and Mohammed Ziane. \textit{Existence and regularity of invariant measures for the three dimensional stochastic primitive equations.}

We establish novel moment bounds for strong solutions of the stochastic 3D Primitive Equations. Using these bounds we establish the continuity of the associated Markovian semigroup and prove the existence of an invariant measure associated to these equations. This measure is supported on strong solutions, but is furthermore shown to have higher regularity properties. (Received September 15, 2013)