1086-VI-2832   **Valbona Bejleri*** (`vbejleri@udc.edu`), 4200 Connecticut Avenue, NW, Washington, DC, DC 20008. *Asymptotic Behavior of Bayesian Prediction Limits for the Poisson Distribution with an illustration from Tropical Storm Occurrences.*

Bayesian prediction limits for Poisson distribution are obtained by adapting a proper prior from the class of gamma distributions. It is shown that if we consider special flat priors, the derived Bayesian limits will under certain conditions coincide to the frequentist prediction limits. As an illustration, we compare Bayesian and frequentist prediction limits for the tropical storm occurrences. (Received September 25, 2012)