



Improved Planetary Frequencies Based on Updated *Kepler* Analysis **W. J. Borucki** and D. G. Koch

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Abstract

Initial estimates of the intrinsic exoplanet frequencies were based on the first 132 days of *Kepler* observations and on the stellar properties listed in the *Kepler Input Catalog* (KIC). Improved estimates of stellar temperatures, sizes, and metallicities are being obtained from spectroscopic observations of individual target stars and SME analysis. In turn, the new values of stellar properties contribute to more accurate estimates of candidate size and association with stellar characteristics. Continued analysis of the candidates has increased the certainty for separating false positives from true candidates. The accuracy of the intrinsic frequencies is being improved further by the recently added capability to the data analysis pipeline of being able to stitch together multiple quarters of data. This advance is boosting the discovery rate of small candidates. Based on updated candidate and stellar parameter values, we present improved and extended estimates of intrinsic frequencies and the associations of exoplanets with stellar parameters.

Acknowledgements

Kepler was competitively selected as the tenth Discovery mission. Funding for the *Kepler Mission* is provided by NASA's Science Mission Directorate.

