Comparison the temperature spectrums derived from two temperature techniques by Kunming meteor radar

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This paper presents the temperature quasi 90 days oscillation derived from temperatures measured by Kunming meteor radar. These temperatures estimated using two techniques: temperature gradient model and pressure model. The temperatures are compared with SABER temperatures, and the comparison results consist with Holdsworth's research. The spectrum of temperature gradient temperatures and SABER temperatures presence the quasi 90 days oscillation, however, the oscillation is absence in pressure temperatures. The further studies prove the quasi 90 days oscillation is exist in meteor peak height, but is not found in the mean winds in the corresponding height. Finally the reason for the significant differences between the temperature spectrum between two methods is given.