Supporting Information for "Singing comet waves in a solar wind convective electric field frame"

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Text S1. We verify the peak detection method by examining randomly selected 10-minute intervals and one interval in the pure solar wind. As required, the method does not detect a wave signal in the solar wind (upper panel, Fig. S1), but it does detect the clear wave signal in the coma (lower panel of the same figure). Examination of a number of randomly selected intervals shows good agreement between automatic and manual selection of wave frequency, power and existence.
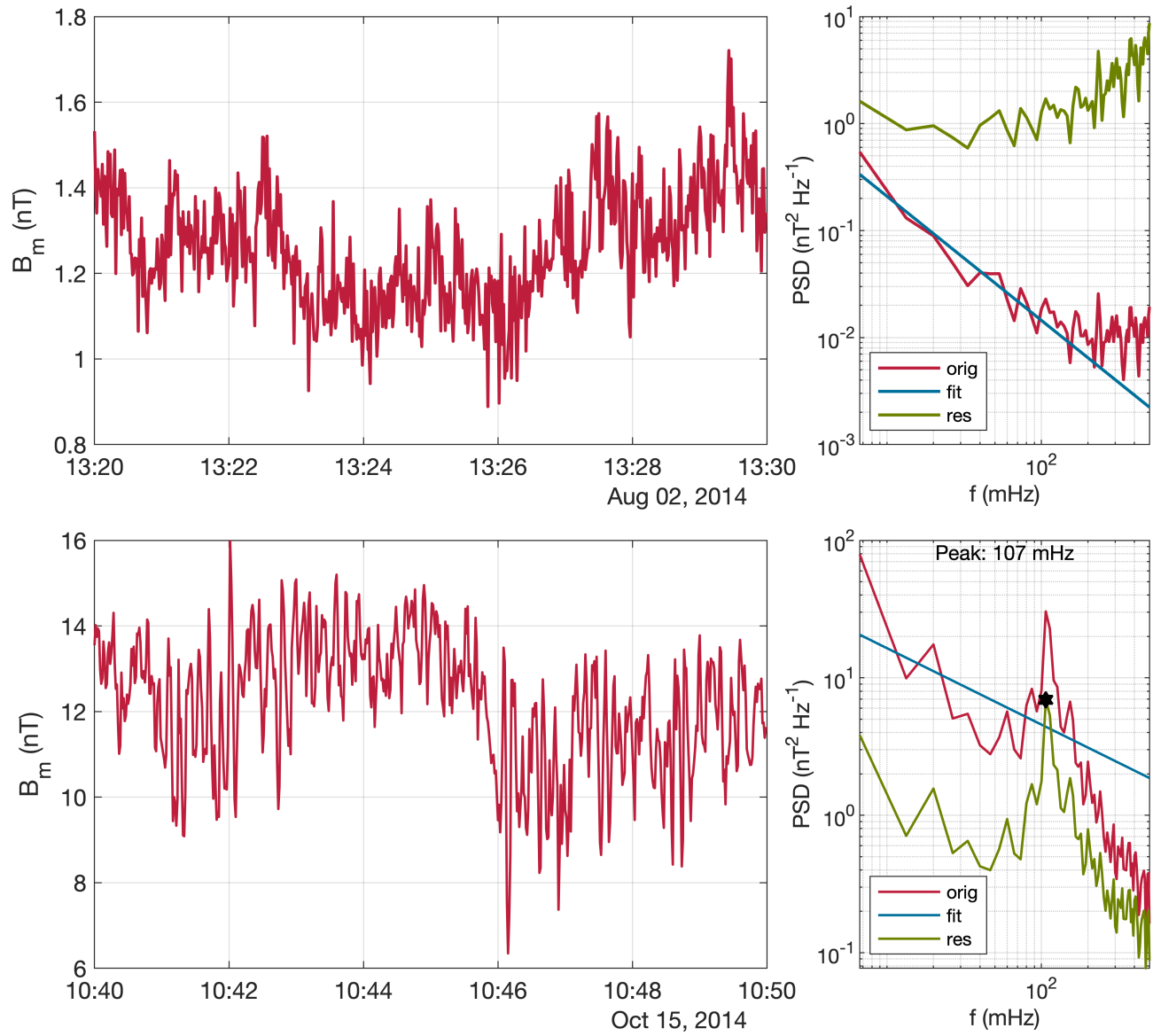
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Figure S1. Left: Magnetic field magnitude for two 10-minute intervals. Right: Power spectral density estimate of the original time series (orig), linear fit (fit) and resulting normalized PSD (res). If a wave is detected the peak is marked by a star and the frequency is stated in the plot.