Weak kinetic Alfvén waves turbulence during the 14 November 2012 geomagnetic storm: Van Allen Probes observations

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© 2015. American Geophysical Union. All Rights Reserved.In the dawn sector, L ? 5.5 and MLT ? 4-7, from 01:30 to 06:00 UT during the 14 November 2012 geomagnetic storm, both Van Allen Probes observed an alternating sequence of locally quiet and disturbed intervals with two strikingly different power fluctuation levels and magnetic field orientations: either small (?10⁻² nT²) total power with strong GSM B<inf>x</inf> and weak B<inf>y</inf> or large (?10 nT²) total power with weak B<inf>x</inf> and strong B<inf>y</inf> and B<inf>z</inf> and B<inf>y</inf> and B<inf<y</inf> and B<inf<y</i> and B<inf</i> and B<in