

Interactive comment on “Multipoint Observations of Compressional Pc5 Pulsations in the Dayside Magnetosphere and Corresponding Particle Signatures” by Galina Korotova et al.

Galina Korotova et al.

gkorotov@umd.edu

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Dear Referee,

We can not submit a revised manuscript now and think that information on slightly changed Figure 5 may be useful.

To determine the type of the Pc5 waves we converted the magnetic field observations from GSE into field-aligned coordinates (FAC). Here the Z axis lies parallel to the locally-averaged magnetic field. The Y axis points approximately azimuthally eastward and is transverse to B and to the outward radius vector. The X axis completes the

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right-handed system and is directed approximately radially outward from Earth. Figure 5 presents RBSP-A and -B magnetic field observations in FAC. The Bz component is the value of the total magnetic field after subtraction of a 16-minute sliding average. The Pc5 pulsations are observed in all three components but the amplitudes of the azimuthal By and radial Bx components are rather small and do not exceed 7 nT. The compressional Bz component is much more pronounced for both spacecraft, reaching amplitudes of 14-15 nT before local noon, consequently, the pulsations are primarily compressional. The Bz component oscillated out of phase with the Bx component at RBSP-A and in phase at RBSP-B and in quadrature with the By component.

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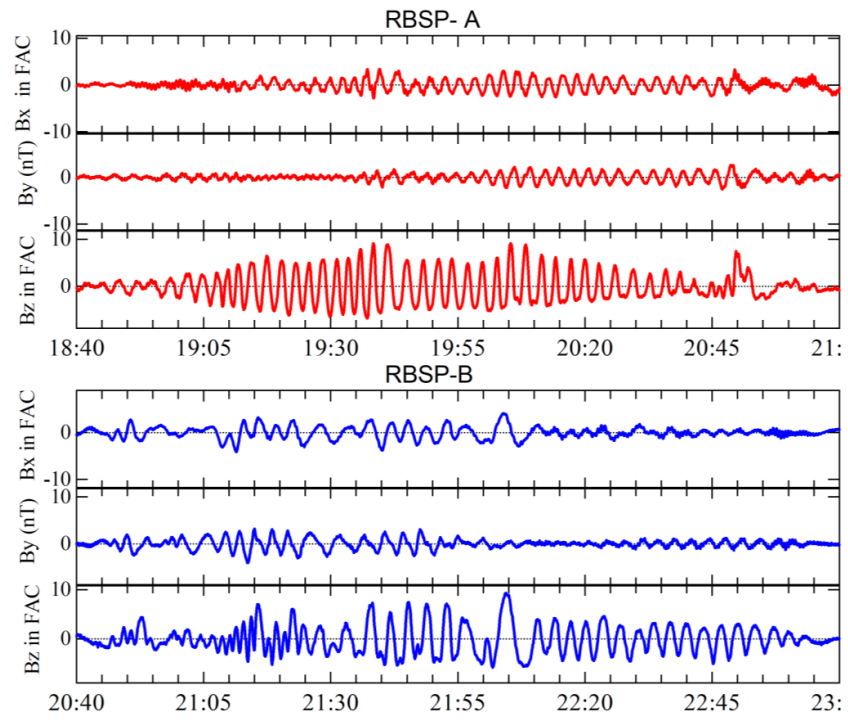


Figure 5. RBSP-A and -B magnetic field observations in field-aligned coordinates from 18:40 UT to 21:10 UT and from 20:40 UT to 23:10 UT on January 1, 2016, respectively.