

**Statistical analysis of shocklets in the earth's foreshock region observed by Geotail**

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The so-called 'shocklets', steepened ultra-low frequency waves associated with almost monochromatic high-frequency discrete wave packets, are often found in the earth's foreshock region. We make statistical analysis of these waves, using magnetic field data obtained by Geotail spacecraft. We discuss distribution of such fundamental parameters as the propagation direction, compressibility, ellipticity of the discrete wave packets, and correlations among them. Based on the results, we then examine whether these waves can be naturally produced via nonlinear evolution of finite amplitude dispersive waves.