

Weak space and time variations of quiet arc brightness before breakup.

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Important problem in magnetosphere physics is a searching of breakup precursors. For this purpose the principally new approach was developed for auroral TV data processing. Method realizes moving arc tracking and gives a possibility of keogram construction along travelling and deforming auroral structures. TV camera all-sky lens distortions are taken into account as well. Integration effect of keogram form data presentation allows revealing extremely weak and fine details of spatial and temporal variations of southward moving quiet arc. In addition to well-known prebreakup arc fading, different varying structures and local activations were found both inside the arc and in parallel surrounding diffuse luminosity several minutes before breakup.