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Relaxation Probe measurements with PWA-HASI in the atmosphere of Titan.Is Titan's conductive atmosphere permeated by a DC electric field ?

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During the descent of the HUYGENS probe through the atmosphere of Titan, on 14 January 2005, the Relaxation Probe of the PWA-HASI instrument measured both the electrical polar conductivities from the decay of the electrode potential, and the floating potential of the probe from the asymptotic level of the response.The data are analysed with the aim of differentiating the effects induced by the electrostatic charging of the HUYGENS probe from those due to the presence of an external DC field. It is hoped that this approach will yield information about the strength of the atmospheric electric field.