

## GRAVITY WAVES-INDUCED ELECTRIC FIELDS IN THE EQUATORIAL ELECTROJET

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From the Type 2 irregularity phase velocities of the equatorial electrojet (EEJ) measured by radar, we have obtained the equatorial electric fields (EEF). The vertical EEF is derived directly from Type 2 velocities and the magnetic field strength at the corresponding height, while the zonal EEF is calculated using a conductivities model developed by Denardini (2007). The EEF show signatures of the presence of gravity waves, from which we calculated the efficiency factor R in the production of an additional EEF deduced by Anandarao et al (1977). We summarize some characteristics of those gravity waves and discuss the methodology.