## Ionospheric perturbations over Delhi caused by some of the recent major earthquakes

Rupesh M. Das, Kavita Sharma, R.S. Dabas, H. N. Dutta, K. G. M. Pillai and S.C. Garg

Radio and Atmospheric Sciences Division, National Physical Laboratory, New Delhi-110 012, India (rajdabas@mail.nplindia.ernet.in)

The death and destruction caused by the Sumatra earthquake on 26 December 2004 has once again jolted the seismologists to find a reliable precursor of an impending major earthquake. For this two major earthquake time data is analyzed (Namely China-2003, Sumatra-2004 and Pakistan-2005 earthquakes.) The F-region ionospheric parameters probed remotely by a digital ionosonde over Delhi (28.60 N, 77.20 E) have shown some precursory signatures few days before the above Earthquakes. Results indicate severe ionospheric perturbations in both foF2 and hmF2 several hours before the deadly earthquakes. The wavelike perturbations in foF2 continued for several days even after the event. It is important to note that this earthquake struck at a time when there were no solar or geomagnetic disturbances for days together to cause any anomalous ionospheric changes.