



Udaipur Solar Observatory/ Physical Research Laboratory

P.Box.No 198, Dewali, Badi Road, Udaipur-313001

SEMINAR

Space Weather Phenomena during the Modern Era

(Bruce T. Tsurutani, Jet Propulsion Laboratory, California, Institute of Technology, USA)

I will discuss some new aspects of space weather developed over the last few years. The causes of low geomagnetic activity during the recent solar minimum (2009, not 2008) will be explained. Geomagnetic activity during the CAWSES II interval of 5-17 March 2012 (rising phase of the solar cycle) will be discussed in some detail. HILDCAAs and interplanetary Alfvén wave effects (during solar cycle declining phases) will be reviewed. This will be presented to serve as background to new results on the effects of HILDCAAs/High Speed Streams on relativistic electron acceleration, ionospheric TEC enhancements and NO_x enhanced radiation. Finally I will discuss the effects of a “perfect” ICME might have on the Earth and its environment.

Date: Aug 11, 2014

Time: 16:00 hrs

Venue: USO Seminar Hall